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## 一. 选型步骤 Selection Guide



1

### 选择杰牌传动产品

例：JRP..N行星齿轮箱、JRP..S平行轴—行星齿轮箱、JRP..L直交轴—行星齿轮箱、JRP..K直交轴—平行轴—行星齿轮箱等信息。

### Select JIE Drive product

Example: Pick the right model, JRP..N planetary gear units, JRP..S parallel shaft planetary gear units, JRP..L Bevel helical planetary gear units, JRP..K bevel helical – parallel shaft planetary gear units.

2

### 输入现用产品品牌

例：杰牌传动、欧美日品牌、中国品牌等信息。

### Enter current product brand

Example: JIE Drive or competitors.

3

### 输入现用产品参数

例：JRP行星齿轮箱，规格9~36，传动比25~4000，输入功率0.4~12934kW，输出扭矩22000~2600000Nm等型号规格信息。

### Enter current product specifications

Example: JRP planetary gear units, size 9~36, ratio 25~4000, input power 0.4~12934kW, output torque 22000~2600000Nm and other specifications.

4

### 生成杰牌产品型号规格

例：JRP2NB12-25-500-00, JRP2SB12-50-511-01, JRP2LD12-50-532-01, JRP3KD12-1000-523-IEC100等型号规格信息。

### Generate JIE Drive model and specifications

Example: JRP2NB12-25-500-00, JRP2SB12-50-511-01, JRP2LD12-50-532-01, JRP3KD12-1000-523-IEC100 and other models.

5

### 生成杰牌产品2D/3D图

例：JRP2NB12-25-500-00, JRP2SB12-50-511-01, JRP2LD12-50-532-01, JRP3KD12-1000-523-IEC100等产品2D/3D图信息。

### Generate 2D/3D drawings of JIE Drive products

Example: 2D/3D drawings of JRP2NB12-25-500-00, JRP2SB12-50-511-01, JRP2LD12-50-532-01, JRP3KD12-1000-523-IEC100 and other models.

6

### 确认技术质量标准

例：技术质量标准按杰牌相关标准和双方协议约定的标准执行，质保期自发货之日起18个月或实际使用之日起12个月，以先到为准等信息确认。

### Confirm the technical quality standard

Example: The technical and quality standards shall be implemented according to the relevant standards of JIE Drive and the standards agreed by both parties. The warranty period shall be 12 months after start using products or 18 months after shipment from JIE whichever comes earlier.

7

### 确认交期服务标准

例：首次合作按双方协议约定时间交货；提供1+3滚动计划时4周交货，包括总用量、年用量、月用量、批用量、试用装；售前服务、售中服务、售后服务和预单管理等信息确认。

### Confirm delivery standard

Example: Delivery shall be made according to the time agreed by both parties for the first cooperation; 4 weeks lead time base on 1+3 rolling plan, including total usage, annual usage, monthly usage, batch usage and sample; confirmation of pre-sales service, in-sales service, after-sales service and pre-order management.

8

### 确认结算价格标准

例：30%定金款到后订单生效，余款款到后发货；价格按双方协议约定的价格执行等信息确认。

### Confirm the settlement price standard

Example: The order comes into effective after 30% deposition received and products will be delivered after balance payment; price shall be subject to agreed upon both parties.

9

### 确认产品订单信息

例：产品名称、型号规格、技术参数、订单数量、包装形式、运输方式、下单时间、交付时间、交付地点、收货单位等信息确认。

### Confirm order information

Example: Confirm product type, model, specification, order quantity, packaging, transportation, P.O issue time, delivery time, delivery location, receiving company and other order information.

10

### 确认产品交付信息

例：样机订单交付、小批订单交付、批量订单交付等信息确认。

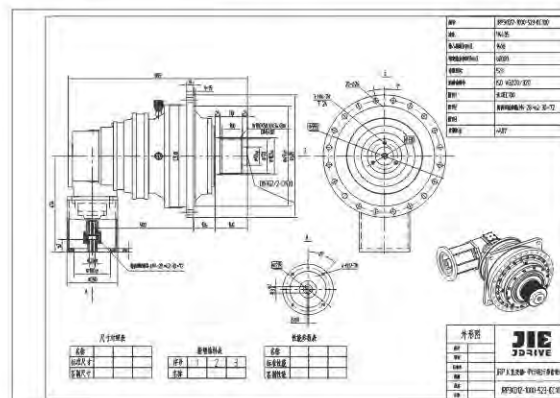
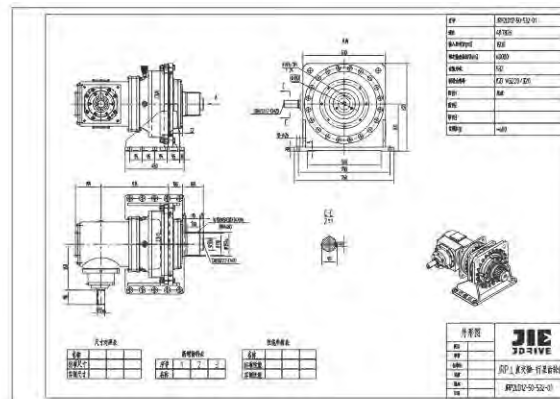
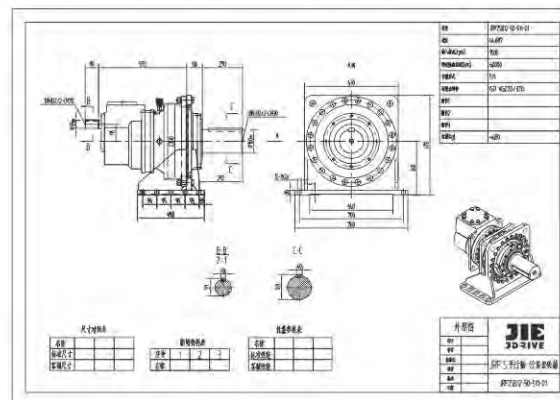
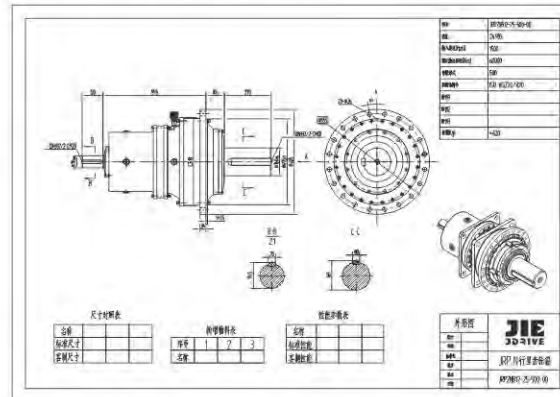
### Confirm product delivery information

Example: Confirm prototype delivery, small batch delivery, batch delivery and other delivery information.



## 5. 生成杰牌产品2D/3D图

### Generate 2D/3D drawing of JIE products





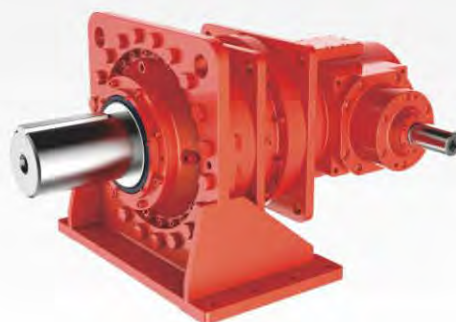
## 二. 产品图片 Product Pictures



**JRP...01-8**



**JRP...9-36**



**JRPH**



**JRPG**



## 三. 产品说明

### Product Description

#### 1. 产品性能特点

#### Product Characteristics

杰牌JRP行星齿轮箱，拥有自主知识产权，产品具有不漏油、长寿命、大扭矩、大速比和智能化等亮点，包括JRP..N行星齿轮箱、JRP..S平行轴一行星齿轮箱、JRP..L直交轴一行星齿轮箱、JRP..K直交轴一平行轴一行星齿轮箱等全系列产品。

杰牌JRP行星齿轮箱，通过完整产品策划与设计 and 全价值链精益生产最优方案实施，推进精益生产、建设智能工厂，实现研产供销服一体化，以满足客户对快速响应的需求。

杰牌JRP行星齿轮箱，遵循模块化和最优化设计理念，全系列产品包括AD2型实心轴输入接口、ADM型法兰实心轴输入接口、IEC电机输入接口，A型锁紧盘输出模块、B型实心轴输出模块、C型花键空心轴输出模块、D型花键实心轴输出模块，基座安装、法兰安装、扭矩臂安装等多种输入接口、输出模块和安装型式，同时支持多级减速机和不同型号规格减速机的模块化组合与集成，并可根据客户需要进行个性化的设计与制造。

杰牌为全球好客户做好产品！

JRP planetary gear units, with independent intellectual property rights, is featured with no oil leakage, long service life, high torque, high speed ratio and intelligence. It includes JRP..N planetary gear units, JRP..S parallel shaft planetary gear units, JRP..L Bevel helical planetary gear units, JRP..K bevel helical – parallel shaft planetary gear units, and other JRP series product.

JRP planetary gear units promotes lean production, builds intelligent factories, and realizes the integration of research, production, supply, marketing and service, so as to meet customers' demand for rapid response through complete product planning and design such as "core product-extreme technology, peripheral product-extreme service, external product-extreme experience" and the implementation of the optimal plan of lean production in the whole value chain such as "product planning, design validation, processing test, assembly test, warehouse logistics, sales service, information system, HR, operation plan, strategy planning".

JRP planetary gear units follows the concept of modular and optimized design. The whole-series product comprises AD2 solid shaft input interface, ADM flange solid shaft input interface, IEC electric motor input interface, A type shrink disc output module, B type solid shaft output module, C type hollow shaft with spline output module, D type solid shaft with spline output module, base installation, flange installation, torque arm installation and other input interfaces, output modules and installation types. This product supports the modular combination and integration of multi-stage gearbox with different types adapters. And available for customized base on customer requirement.

JIE Drive provides great products to great partners across the world!



## 2. 一般说明 General Information



### 注意事项！

- 样本中的附图只属范例，并不具有约束力。JIE 保留变更尺寸的权利。
- 样本中尺寸默认单位为mm
- 所注重量仅为平均值，并不具有约束力。
- 为防止意外事故发生，所有旋转部件均应按照使用者所在国家和地区的安全规范由购置方加罩保护。
- 试车之前必须认真阅读操作说明。齿轮箱在供货时已处于准运行状态，运行前需检查是否已加注润滑油。
- 样本中所示注油量只作为参考值，实际注油量应以油尺上的标记为准。
- 润滑油粘度应符合齿轮箱铭牌上的数据。
- 齿轮箱在供货时已配置了径向轴封。如果需要其他类型的轴封敬请垂询。
- 转动方向是指面向输出轴时输出轴d2的转动方向。

在尺寸图上所使用的符号说明如下：

-  =油尺
-  =通气孔
-  =放油孔
-  =注油孔

### Attention!

- Illustrations are examples only and not structly binding. JIE reserves the ringht to change the dimensions
- The default unit size in the manual is mm.
- The weights are average values and not strictly binding.
- To prevent the accidents,all rotanting parts should be guarded according to local and national safety regulations and be protected by cover.
- Prior to caommissioning,the operating instructions must be read.The gear units are on the ready-operational condition while delivery, the luhicent should be filled before operation.
- Oil quantities given are just for reference only.The exact quantity of oil will follow the oil dipstick.
- The oil ciscosity should be accord with the data given on the name plate.
- The gear units are supplied with radial shaft seals.For other types of oil seal, pleass inquire.
- Directions of rotation refev to output shaft d2.

● Illustration of symbols as following.

-  =Oil dipstick
-  =Breather
-  =Oil drain
-  =Oil filler



### 3. 基本类型概述

### Summary of Basic Types

两级行星齿轮

示例 / Example

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | N | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | S | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | L | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | K | A |
|-----|---|---|---|

2 Stages Planetary unit

传动比 / Ratio: 25–40

传动比 / Ratio: 45–125

传动比 / Ratio: 31.5–100 ( L )

传动比 / Ratio: 112–500 ( K )

- A = 带锁紧盘的空心轴输出 / Hollow Shaft Output With Shrink Disk
- B = 带平键的实心轴输出 / Solid Shaft Output With Flat Key.
- C = 带渐开线花键的空心轴输出 / Hollow Shaft Output With Involute Spline
- D = 带渐开线花键的实心轴输出 / Solid Shaft Output With Involute Spline

N = 标准 ( 同轴式 ) / Standard (coaxial)

S = 平行轴-行星 / One stage Helical gear parallel shaft

L = 直交轴-行星 / One stage Bevel gear rectangular shaft

K = 直交轴-平行轴-行星 / One stage Bevel-helical gear first stage

2 = 行星齿轮级数 / Stages of planetary gear

JRP = 杰牌行星齿轮箱 / JIE Planetary gear units



### 三级行星齿轮

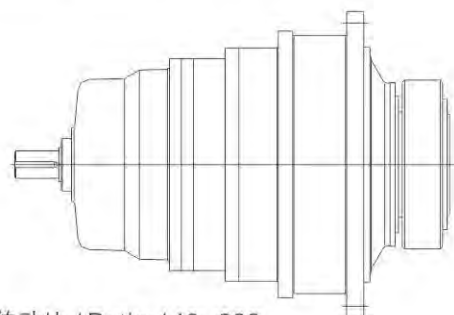
示例 / Example

|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | N | A |
|-----|---|---|---|

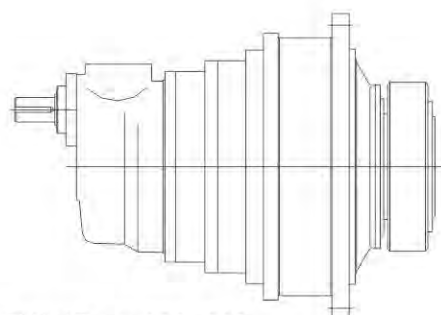
|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | S | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | K | A |
|-----|---|---|---|

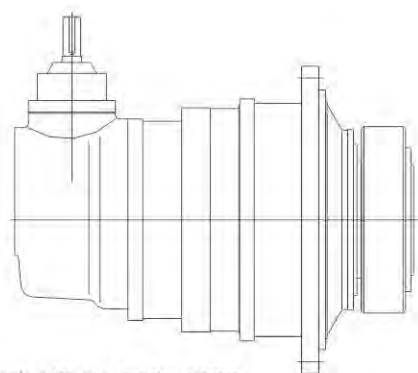
### 3 Stages Planetary unit



传动比 / Ratio: 140-280



传动比 / Ratio: 280-900



传动比 / Ratio: 560-4000

- A = 带锁紧盘的空心轴输出 / Hollow Shaft Output With Shrink Disk
- B = 带平键的实心轴输出 / Solid Shaft Output With Flat Key.
- C = 带渐开线花键的空心轴输出 / Hollow Shaft Output With Involute Spline
- D = 带渐开线花键的实心轴输出 / Solid Shaft Output With Involute Spline
- N = 标准 (同轴式) / Standard (coaxial)
- S = 平行轴-行星 / Helical gear stage
- K = 直交轴-平行轴-行星 / Bevel-helical gear stage
- 3 = 行星齿轮级数 / Number of planetary gear stages
- JRP = 杰牌行星齿轮箱 / JIE Planetary gear units



## 四. JRP01~8行星齿轮箱 分目录

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| P15 | 2. 符号说明      |
| P16 | 3. 服务系数      |
| P18 | 4. 径向和轴向载荷选型 |
| P19 | 5. 热功率PT[kW] |
| P20 | 6. 选型说明      |
| P25 | 7. 规格与扭矩     |
| P48 | 8. 外形尺寸和重量   |
| P51 | 9. 输出轴尺寸     |
| P55 | 10. 输入轴尺寸    |
| P59 | 11. 安装       |
| P60 | 12. 扭矩臂      |
| P60 | 13. 润滑方案     |
| P62 | 14. 产品附件     |
| P63 | 15. 齿轮箱油位    |
| P64 | 16. 注油量      |
| P65 | 17. 布置形式     |

## JRP 01~8 Planetary Gear Units SUB-CONTENTS

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| P15 | 2. Symbol Description                           |
| P16 | 3. Service Coefficient                          |
| P18 | 4. Radial and Axial Loads Selection Instruction |
| P19 | 5. Thermal Power PT[kW]                         |
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| P60 | 12. Torque Arm                                  |
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| P62 | 14. Add-on Pieces                               |
| P63 | 15. Oil Level of Gearunit                       |
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## 1. 型号说明 Model Designation

**J RP 1 N B 02 3.50 500 00**

1 2 3 4 5 6 7 8 9

|          |                                                                  |          |                                                                                 |          |                            |
|----------|------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|----------------------------|
| <b>1</b> | <b>企业代码</b><br><br>J-杰牌传动                                        | <b>2</b> | <b>产品代码</b><br><br>RP-行星齿轮箱                                                     | <b>3</b> | <b>传动级数</b><br><br>1,2,3,4 |
| <b>4</b> | <b>类型</b><br>N-标准型 (同轴式)<br>S-平行轴-行星<br>L-直交轴-行星<br>K-直交轴-平行轴-行星 | <b>5</b> | <b>输出轴形式</b><br>A-带锁紧盘的空心轴输出<br>B-带平键的实心轴输出<br>C-带渐开线花键的空心轴输出<br>D-带渐开线花键的实心轴输出 | <b>6</b> | <b>规格</b><br><br>01……8     |
| <b>7</b> | <b>传动比</b><br><br>见: P26-46                                      | <b>8</b> | <b>布置形式</b><br><br>见: P65                                                       | <b>9</b> | <b>产品附件</b><br><br>见: P 62 |

|          |                                                                                                                                    |          |                                                                                                                                                                                                       |          |                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------|
| <b>1</b> | <b>Enterprise Code</b><br><br>J-JIE Drive                                                                                          | <b>2</b> | <b>Product Code</b><br><br>RP – Planetary Gear Units                                                                                                                                                  | <b>3</b> | <b>No.of planetary</b><br>gear stages<br>1,2,3,4 |
| <b>4</b> | <b>Type of planetary gear</b><br>N – Standard(coaxial)<br>S–Helical gear stage<br>L–Bevel gear stage<br>K–Bevel–helical gear stage | <b>5</b> | <b>Output shaft design</b><br>A–Hollow Shaft Output with Shrink Disc<br>B–Solid Shaft Output with Flat Key<br>C–Hollow Shaft Output with Involute Spline<br>D–Solid Shaft Output with Involute Spline | <b>6</b> | <b>Size</b><br><br>01……8                         |
| <b>7</b> | <b>Ratio</b><br><br>See page 26–46                                                                                                 | <b>8</b> | <b>Mounting positions</b><br><br>See page 65                                                                                                                                                          | <b>9</b> | <b>Add–on Pieces</b><br><br>See page 62          |

## 2. 符号说明

### Technical Descriptions



$i$  = 传动比

它表示齿轮箱输入转速与输出转速的比值。

样本提供模块化设计的范围，如需要其他传动比请咨询杰牌传动。

$T_2$  = 输出扭矩(Nm)

输出扭矩是指齿轮箱设计寿命为10000小时、服务系数等于1时的持续扭矩，根据ISO6336计算。

输出扭矩根据不同的输入转速、不同的传动比按样本进行查询。

$T_{2max}$  = 最大输出扭矩(Nm)

最大输出扭矩是指短时间内允许承受的最大扭矩。

$T_N$  = 额定输出扭矩(Nm)

额定输出扭矩根据齿轮箱规格确定，见P23。

$P_2$  = 额定功率(kW)

$P_T$  = 热功率(kW)

指在一定条件下连续运转，齿轮箱热平衡温升不超过最大允许值的功率。

如果 $P_2 > P_T$ ，齿轮箱需要辅助冷却装置

$n_1$  = 输入转速(r/min)

$n_2$  = 输出转速(r/min)

$F_a$  = 轴向力(N)

$F_r$  = 径向力(N)

$i$  = Ratio

It represents the ratio between gear unit input and output speed.

Samples provide modular design units, such as consult JIE DRIVE need other transmission ratio

$T_2$  = Output torque (Nm)

Gear unit output torque referred to 10000 hours of operation, calculated according to I.S.O.(D.P.6336).

Output torque according to the different ratio of different input speed, according to the sample.

$T_{2max}$  = Max. torque(Nm)

Max; permissible output torque, as peak or for short periods.

$T_N$  = Nominal output torque (Nm)

The conventional torque characterizing the size of the gear unit, see page23.

$P_2$  = Nominal power (kW)

$P_T$  = Thermal power(kW)

The power that can be transmitted continuously by the gear unit, in given operating conditions, relevant to the max.

If  $P_2 > P_T$ , the gear unit need auxiliary cooling device.

$n_1$  = Input speed(r/min)

$n_2$  = output speed (r/min)

$F_a$  = Axial force (N)

$F_r$  = Radial force (N)



### 3. 服务系数 Service Coefficient

样本所列系数均为经验值，使用这些系数的前提条件是所述机械设备应符合通常的设计规范和载荷条件。如遇特殊情况，请及时与我们联系。

The listed factors are empirical values. Prerequisite for their application is that the machinery and equipment mentioned correspond to generally accepted design and load specifications. In case of deviations from standard conditions, please refer to us.

启动系数 Cs/Factor Cs

|    | 启停次数/小时 Starts per hour |      |        |         |
|----|-------------------------|------|--------|---------|
|    | 1-5                     | 6-25 | 26-100 | 101-200 |
| Cs | 1                       | 1.05 | 1.15   | 1.25    |

使用系数K<sub>A</sub>

| 使用系数K <sub>A</sub> |          |  |                |         |  |      |
|--------------------|----------|--|----------------|---------|--|------|
| 工作机                |          |  | K <sub>A</sub> | 工作机     |  |      |
| 搅拌机                |          |  |                | 食品行业    |  |      |
| 纯液体                |          |  | 1              | 粮食加工    |  |      |
| 液体和固体混合            |          |  | 1.25           | 和面机     |  |      |
| 液体-变密度             |          |  | 1.25           | 绞肉机     |  |      |
| 粘土加工设备             |          |  |                | 升降机     |  |      |
| 压砖机                |          |  | 1.75           | 重负荷     |  |      |
| 压块机                |          |  | 1.75           | 中负荷     |  |      |
| 压实机                |          |  | 2              | 箕斗提升机   |  |      |
| 输送机械               |          |  |                | 洗衣设备    |  |      |
| 通用                 | 蜗杆输送机    |  | 1              | 翻转      |  |      |
|                    | 均匀装载或输送  |  | 1              | 洗衣      |  |      |
| 重载                 | 非均匀输送    |  | 1.25           | 木材加工    |  |      |
|                    | 往复运动或有振动 |  | 1.75           | 输送机     |  |      |
| 起重机械               |          |  |                | 连续循环    |  |      |
| 干船坞                | 主起升机构    |  | 2.5            | 原木加工    |  |      |
|                    | 辅起升机构    |  | 2.5            | 刨床      |  |      |
|                    | 悬臂起重机    |  | 2.5            | 输送      |  |      |
|                    | 回转机构     |  | 2.5            | 去皮      |  |      |
|                    | 牵引机构     |  | 3              | 链条传动    |  |      |
| 集装箱                | 主葫芦      |  | 3              | 金属加工    |  |      |
|                    | 悬臂起重机    |  | 2              | 翻转      |  |      |
| 工业应用               | 主提升      |  | 2.5            | 推钢机     |  |      |
|                    | 辅助设备     |  | 2.5            | 切断      |  |      |
|                    | 桥式       |  | 3              | 拉丝      |  |      |
|                    | 搬运车      |  | 3              | 绕线      |  |      |
| 压碎机                |          |  |                | 金属带加工   |  |      |
| 石头或矿石              |          |  | 1.75           | 限动器     |  |      |
| 挖泥机                |          |  |                | 卷取机&开卷机 |  |      |
| 电缆卷轴               |          |  | 1.25           | 边缘修剪机   |  |      |
| 输送机                |          |  | 1.25           | 压平机     |  |      |
| 采掘机机头              |          |  | 2              | 夹棍      |  |      |
| 振筛驱动器              |          |  | 1.75           | 废料切碎机   |  |      |
| 堆料机                |          |  | 1.25           | 切断      |  |      |
| 绞车                 |          |  | 1.25           | 纵剪机     |  |      |
| 升降机                |          |  |                | 水泥工业    |  |      |
| 斗式提升机              |          |  | 1.25           | 回转窑     |  |      |
| 自动扶梯               |          |  | 1              | 干燥&冷却器  |  |      |
| 挤出机                |          |  |                | 混凝土搅拌   |  |      |
| 通用                 |          |  | 1.5            | 造纸机械    |  |      |
| 塑料                 | 变速驱动     |  | 1.5            | 搅拌机     |  |      |
|                    | 固定驱动     |  | 1.75           | 搅拌机-纯液  |  |      |
| 橡胶                 | 连续螺杆操作   |  | 1.75           | 压光机     |  |      |
|                    | 间歇螺杆操作   |  | 1.75           | 碎木机     |  |      |
| 给料机                | 挡板       |  | 1.25           | 木片给料机   |  |      |
|                    | 输送带机构    |  | 1.25           | 滚涂机     |  |      |
|                    |          |  |                | 树皮碎片    |  |      |
|                    |          |  |                | 树干      |  |      |
|                    |          |  |                | 开槽机     |  |      |
|                    |          |  |                | 输送机     |  |      |
|                    |          |  |                | 挤出机     |  |      |
|                    |          |  |                | 破碎      |  |      |
|                    |          |  |                | 旋转      |  |      |
|                    |          |  |                | 振动      |  |      |
|                    |          |  |                | 施胶压榨    |  |      |
|                    |          |  |                | 超级压光机   |  |      |
|                    |          |  |                | 增稠器（交流） |  |      |
|                    |          |  |                | 增稠器（直流） |  |      |
|                    |          |  |                | 清洗（交流）  |  |      |
|                    |          |  |                | 清洗（直流）  |  |      |
|                    |          |  |                | 塑料行业    |  |      |
|                    |          |  |                | 分批混合器   |  |      |
|                    |          |  |                | 连续混合器   |  |      |
|                    |          |  |                | 压光机     |  |      |
|                    |          |  |                | 橡胶行业    |  |      |
|                    |          |  |                | 分批混合器   |  |      |
|                    |          |  |                | 连续混合器   |  |      |
|                    |          |  |                | 压光机     |  |      |
|                    |          |  |                | 砂磨机     |  |      |
|                    |          |  |                | 污水处理    |  |      |
|                    |          |  |                | 格栅清污机   |  |      |
|                    |          |  |                | 化学进料器   |  |      |
|                    |          |  |                | 浮渣破碎机   |  |      |
|                    |          |  |                | 混合器     |  |      |
|                    |          |  |                | 污泥收集器   |  |      |
|                    |          |  |                | 浓缩器     |  |      |
|                    |          |  |                | 真空过滤器   |  |      |
|                    |          |  |                | 过滤      |  | 空气洗涤 |
|                    |          |  |                |         |  | 旋转石  |
|                    |          |  |                | 糖加工     |  |      |
|                    |          |  |                | 甜菜切丝机   |  |      |
|                    |          |  |                | 甘蔗切碎机   |  |      |
|                    |          |  |                | 破碎机     |  |      |
|                    |          |  |                | 碾磨机     |  |      |
|                    |          |  |                | 纺织行业    |  |      |
|                    |          |  |                | 配料机     |  |      |
|                    |          |  |                | 压光机     |  |      |
|                    |          |  |                | 烘干机     |  |      |

Application factor  $K_A$ 

| Application factor          |               |   |                |                      |  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Driven machine              |               |   | K <sub>A</sub> | Driven machine       |  |      | K <sub>A</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <b>Agitators/Mixer</b>      |               |   |                | <b>Food industry</b> |  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Pure liquids                |               |   | 1              | Cereal cooker        |  |      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Liquid and solids           |               |   | 1.25           | Dough mixer          |  |      | 1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Liquid –variable density    |               |   | 1.25           | Meat grinders        |  |      | 1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <b>Clay working machine</b> |               |   |                | <b>Hoist</b>         |  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Brick press                 |               |   | 1.75           | Heavy duty           |  |      | 1.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Briquette machine           |               |   | 1.75           | Medium duty          |  |      | 1.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Compactors                  |               |   | 2              | Skip hoist           |  |      | 1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <b>Conveyors</b>            |               |   |                | <b>Laundry</b>       |  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| General                     | Worm conveyor | 1 | Tumblers       |                      |  | 1.25 | Conveyor<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>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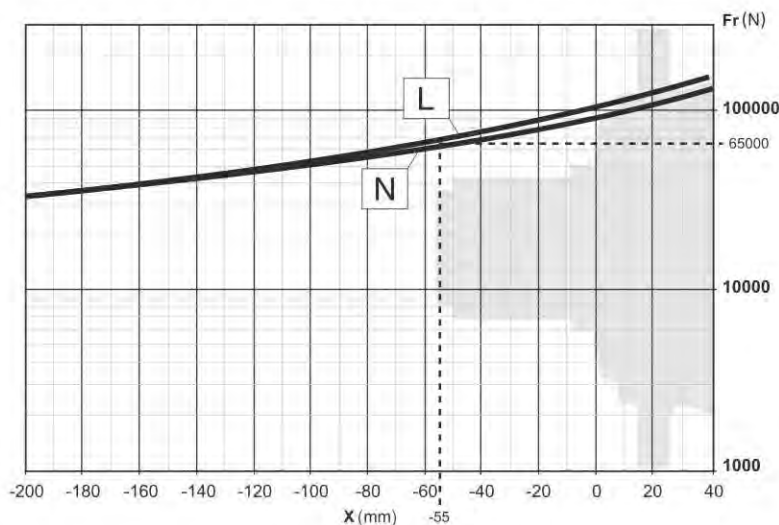


## 4. 径向和轴向载荷选型 Radial and axial load Selection Instruction

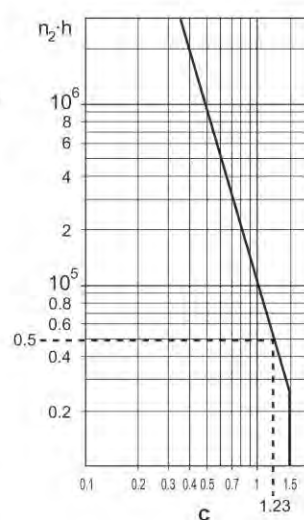
加载在输入/输出轴的径向力 $F_r(N)$

图表A示轴承使用条件为 $n_2 \cdot h = 10^5$ 时输出轴允许承受的径向力 $F_r$ 。对于不同的轴承使用条件， $F_r$ 应乘以图表B的修正系数C,修正系统C最大不允许超过1.5

The radial force loaded on the output/Input shafts  $F_r[N]$ .  
The catalogue gives the diagrams of permissible  $F_r$  radial loads on the output shafts referred  $n_2 \cdot h = 10^5$  of bearings.  
The  $F_r$  must be multiplied by the coefficient from diagram B, and C must not exceed 1.5 of the life.



图表A  
Diagram A



图表B  
Diagram B

计算举例

已知条件:

齿轮箱型号 JRP2NB4

径向载荷  $F=80\text{KN}$

加载位置  $X=-55\text{mm}$

输出转速  $n_2=20\text{r/min}$

径向力校核:  $F_r=65\text{KN}$  (查图表A)

$$C = \frac{F}{F_r} = 1.23$$

$n_2 \cdot h = 0.5 \times 10^5$  (查图表B)

轴承寿命  $h = 0.5 \times 10^5 / 20 = 2500\text{hours}$

各型号的输入轴输出轴允许径向力 $F_r$ ,  
可以查看各型号相应的参数。

Calculation example

Known criteria:

Gear unit size JRP2NB4

Radial load  $F=80\text{KN}$

Load position  $X=-55\text{mm}$

Output speed  $n_2=20\text{r/min}$

Radial load capacity  $F_r=65\text{KN}$  (as per diagram A)

$$C = \frac{F}{F_r} = 1.23$$

$n_2 \cdot h = 0.5 \times 10^5$  (as per diagram B)

Bearing life  $h = 0.5 \times 10^5 / 20 = 2500\text{hours}$

Each type of Input shafts and Output shafts allows  
the radial force  $F_r$ , can view the corresponding  
parameters of various sizes.

## 5. 热功率 $P_T$ (kW) Thermal Power



齿轮箱的热功率数值 $P_T$ 可以在各型号的参数中查找。

使用时必须满足以下条件:

- 飞溅润滑
- 水平安装
- 齿轮箱输入转速1500 r/min
- 最高油温80°C (VG150)
- 环境温度20°C
- 室内大空间

如不满足条件应考虑以下系数

The thermal power of the gear units are given in the tables summarizing the technical performance of the various reduction stages.

When using must meet the following conditions:

- With splash lubrication
- Horizontally mounted
- At a gear unit input speed of 1500 r/min
- For a max. oil temperature of 80°C (oil VG150)
- At an ambient temperature of 20°C
- Large interior space

If does not meet the conditions, should consider the following factor.

K系数

K Factor

| 工作时间h/天<br>Hours of work<br>per day | 环境温度(°C) / Ambient temperature |      |      |      |      |
|-------------------------------------|--------------------------------|------|------|------|------|
|                                     | 10°                            | 20°  | 30°  | 40°  | 50°  |
| 10                                  | 1.15                           | 1    | 0.85 | 0.7  | 0.6  |
| 8                                   | 1.25                           | 1.1  | 1    | 0.85 | 0.7  |
| 6                                   | 1.4                            | 1.25 | 1.1  | 1    | 0.85 |
| 4                                   | 1.6                            | 1.4  | 1.25 | 1.1  | 1    |
| 2                                   | 1.8                            | 1.6  | 1.4  | 1.25 | 1.1  |

S系数

S Factor

|   | 输入转速n(r/min) Input speed |      |      |     |
|---|--------------------------|------|------|-----|
|   | 1750                     | 1500 | 1000 | 500 |
| S | 0.94                     | 1    | 1.05 | 1.1 |

R系数

R Factor

|   | 狭小空间Small space | 室内大空间Large space | 室外大空间Outdoors |
|---|-----------------|------------------|---------------|
| R | 0.7             | 1.00             | 1.35          |

修正后的热功率值:  $P_{T1} = P_T \times K \times S \times R$

检验是否满足条件:  $P_{T1} > P$

如不满足条件, 必须有一个辅助的冷却装置。

The revised thermal power value:  $P_{T1} = P_T \times K \times S \times R$

Check whether meet the conditions:  $P_{T1} > P$

If does not meet the conditions, must have a secondary cooling device.

## 6. 选型说明

### Selection Description

#### 6.1 杰牌传动JRP产品选型表



##### 使用工况:

应用行业:

环境温度:

海拔高度:

起停频率:

负载时间: ☐15% ☐25% ☐40% ☐60% ☐100%

现用品牌:

存在问题:

设备名称:

环境湿度:

使用场地: ☐室内 ☐室外

运行时间:

现用型号:

需改进项:

##### 产品信息:

包装标识类:

包装材质: ☐纸箱 ☐木箱 ☐纸箱+木箱 箱贴唛头: ☐中文 ☐英文

相关资料: ☐合格证 ☐出厂检验报告 ☐中文说明书 ☐英文说明书

附件清单: ☐齿轮箱底座 ☐电机安装法兰 ☐ (单侧) 扭矩臂 ☐ (双侧) 扭矩臂 ☐逆止器 ☐无

外观标识类:

油漆颜色: ☐JMR-01 ☐JMG-01 ☐JGB-01 ☐RAL2002 ☐RAL5015 ☐RAL9003 ☐RAL7045 ☐RAL7031

防腐等级: ☐标准 ☐JS1 ☐JS2 ☐JS3 ☐JS4

铭牌要求: ☐中文 ☐英文

安装标识类:

产品类型: ☐JRP.N. ☐JRP.S. ☐JRP.K. ☐JRP.L.

安装形式: ☐法兰安装 ☐底座安装

安装方式: ☐500 ☐511 ☐512 ☐513 ☐514 ☐521 ☐522 ☐523 ☐524 ☐531 ☐532 ☐533 ☐534

☐551 ☐552 ☐553 ☐554 ☐555 ☐556

☐900 ☐910 ☐920 ☐930

☐600 ☐610 ☐620 ☐630 (见附图)

输出模块: ☐带平键实心轴 ☐花键实心轴 ☐带锁紧盘空心轴 ☐花键空心轴

出轴旋向: ☐顺时针 ☐逆时针 ☐双向

输入模块: ☐IEC模块 ☐AD模块 ☐ADM模块 ☐无

产品型号:

性能指标类:

工作机转速:  $n_2 =$  工作机轴功率 (kW):  $P =$

工作机扭矩 (Nm)  $T =$  使用系数:  $f =$

润滑方式: ☐飞溅润滑 ☐补偿油箱浸油润滑 ☐轴端泵强制润滑 ☐电动泵强制润滑

冷却方式: ☐风扇 ☐风冷却器系统 ☐板式水冷却器系统 ☐无

入轴是否承受径向力: ☐是 ☐否 径向力大小:

出轴是否承受径向力: ☐是 ☐否 径向力大小:

出轴是否承受轴向力: ☐是 ☐否 轴向力大小:

电机类型: ☐标准电机 ☐变频电机 ☐防爆电机 ☐辊道电机 ☐起重电机 ☐伺服电机

电机极数: ☐2 ☐4 ☐6 ☐8 电机功率: kW

额定电压: ☐220/380V ☐380/660V 电机基频: ☐50Hz ☐60Hz ☐87Hz

绝缘等级: ☐F ☐H 防护等级: ☐IP54 ☐IP55

工作制: ☐S1 ☐S3-40% 冷却方式: ☐IC410 ☐IC411 ☐IC416

能效等级: ☐3级 (IE2) ☐2级 (IE3) 旋转方向: ☐顺时针 ☐逆时针

制动电压: ☐DC 24V ☐AC 220V ☐AC 380V

制动器响应: ☐普通 ☐快速 释放装置: ☐手柄释放HR ☐螺钉释放HF ☐无

风机电压: ☐DC 24V ☐AC 220V (1~) ☐AC 380V (1~) ☐AC 220/380V (3~)

风机频率: ☐50Hz ☐60Hz

释放装置与接线盒角度 (从轴伸端看顺时针): ☐0° ☐90° ☐180° ☐270° (见附图)

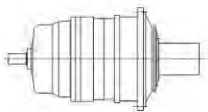
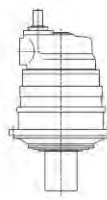
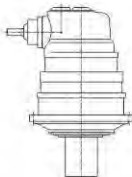
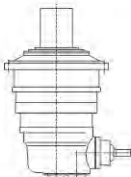
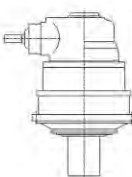
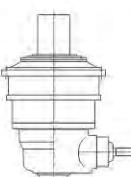
产品型号



定制信息：  
包装标识类：  
外观标识类：  
安装尺寸类：  
性能指标类：  
售后服务类：

服务信息：  
售前服务：  
培训咨询：☐选型培训 ☐应用培训 ☐使用维护  
设计选型：☐参与设计 ☐设计校核 ☐产品选型  
需求确认：☐工况确认 ☐产品确认 ☐服务确认  
售中服务：☐驻厂全检 ☐过程抽检 ☐出厂检验  
售后服务：☐安装调试 ☐检测维护 ☐备品备件

商务信息：  
运输方式：  
交付地点：  
交付时间：  
订单数量：  
结算价格：

| 布置形式图：                                                            |   | 齿轮箱卧式安装<br>Horizontal gear unit position |                                                                                     | 齿轮箱立式安装<br>Vertical gear unit position                                              |                                                                                       |  |
|-------------------------------------------------------------------|---|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|                                                                   |   | 5...                                     |                                                                                     | 9... 1) 6...                                                                        |                                                                                       |  |
| 同轴式行星齿轮箱<br>Coaxial planetary gear units                          | 0 | JRP N.                                   |   |   |   |  |
|                                                                   |   |                                          | 500                                                                                 | 900                                                                                 | 600                                                                                   |  |
| 平行轴-行星齿轮箱<br>Combined helical gear planetary gear units           | 1 | JRP S.                                   |  |  |  |  |
|                                                                   |   |                                          | 511                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 512                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 513                                                                                 |                                                                                     |                                                                                       |  |
| 直交轴-平行轴-行星齿轮箱<br>Combined bevel-helical gear planetary gear units | 2 | JRP K.                                   |  |  |  |  |
|                                                                   |   |                                          | 521                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 522                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 523                                                                                 |                                                                                     |                                                                                       |  |
| 直交轴-行星齿轮箱<br>Combined bevel gear planetary gear units             | 3 | JRP L.                                   |  |  |  |  |
|                                                                   |   |                                          | 531                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 532                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 533                                                                                 |                                                                                     |                                                                                       |  |
| 扭矩臂支撑<br>Torque reaction arm                                      | 5 |                                          |  |  |    |  |
|                                                                   |   |                                          | 551                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 553                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | 555                                                                                 |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | *)从输入轴端观察<br>)Viewing on input shaft                                                |                                                                                     |                                                                                       |  |
|                                                                   |   |                                          | **)请咨询杰牌<br>)please consult us                                                      |                                                                                     |                                                                                       |  |



## Selection Table of JIE JRP Products



### Conditions of use:

Application industry:  
Ambient temperature:  
Altitude:  
Start-stop frequency:  
Load time: ☐15% ☐25% ☐40% ☐60% ☐100%  
Current brand:  
Existing problem:

Equipment name:  
Ambient humidity:  
Site of use: ☐indoor ☐outdoor  
Running time:  
Current model:  
Items needing improvement:

### Product information:

Packaging:  
Packaging material: ☐Carton ☐Wooden case ☐Carton + Wooden case Case mark: ☐Chinese ☐English  
Relevant data: ☐Certificate of conformity ☐Ex-factory inspection report ☐Chinese operating instruction  
☐English operating instruction  
List of accessories: ☐Gearbox base ☐Motor flange mounting ☐ (One side) torque arm ☐ (Both sides) torque arm ☐Backstop £None  
Appearance:  
Paint color: ☐JMR-01 ☐JMG-01 ☐JGB-01 ☐RAL2002 ☐RAL5015 ☐RAL9003 ☐RAL7045 ☐RAL7031  
Nameplate requirement: ☐Chinese ☐English Anti-corrosive grade: ☐Standard ☐JS1 ☐JS2 ☐JS3 ☐JS4  
Installation:  
Product model: ☐JRP.N. ☐JRP.S. ☐JRP.K. ☐JRP.L.  
Type of installation: ☐Flange installation ☐Base installation  
Mount position: ☐500 ☐511 ☐512 ☐513 ☐514 ☐521 ☐522 ☐523 ☐524 ☐531 ☐532 ☐533 ☐534  
☐551 ☐552 ☐553 ☐554 ☐555 ☐556  
☐900 ☐910 ☐920 ☐930  
☐600 ☐610 ☐620 ☐630(see attached figure)  
Output module: ☐Solid shaft with flat key ☐Solid shaft with spline ☐Hollow shaft with shrink disc  
☐Hollow shaft with spline  
Output shaft rotation: ☐Clockwise ☐Counterclockwise ☐Two-direction  
Input module: ☐IEC module ☐AD module ☐ADM module £None  
Product model:  
Performance:  
Working speed:  $n_2 =$  Working shaft power (kW) :  $P =$   
Working torque (Nm) $T =$  Service factor:  $f =$   
Lubrication: ☐Splash lubrication ☐Oil expansion tank immersion lubrication ☐Axial end pump forced lubrication  
☐Electric pump forced lubrication  
Cooling mode: ☐Fan ☐Air cooler system ☐Plate water cooler system ☐None  
Whether there is axial bearing radial force: ☐Yes ☐No Radial force:  
Whether the output shaft withstands radial force: ☐Yes ☐No Radial force:  
Whether the outlet shaft withstands axial force: ☐Yes ☐No Axial force:  
Transmission ratio:  $i =$  Output torque: Service factor:

**Type of motor:** ☐Standard motor ☐Frequency conversion motor ☐Explosion-proof motor ☐Roller motor ☐Lifting motor  
☐Servo motor

Rated power: kW Pole number: ☐2 ☐4 ☐6 ☐8  
Rated voltage: ☐220/380V ☐380/660V Motor frequency: ☐50Hz ☐60Hz ☐87Hz  
Insulation grade: ☐F ☐H Protection grade: ☐IP55 ☐IP56  
Working system: ☐S1 ☐S3-40% Cooling mode: ☐IC410 ☐IC411 ☐IC416  
Energy efficiency class: ☐IE2 ☐IE3  
Fan voltage: ☐DC 24V ☐AC 220V (1~) ☐AC 220V (1~) ☐AC 380V (3~)  
Fan frequency: ☐50Hz ☐60Hz  
Braking voltage: ☐DC 24V ☐AC 220V ☐AC 380V  
Release device: ☐Handle release HR ☐Screw release HF ☐None Brake response: ☐Ordinary ☐Fast  
Angle between release device and terminal box (clockwise from the end of shaft extension) : ☐0° ☐90° ☐180° ☐270° (see attached figure)  
Product model:

**Customized information:**

Packaging:

Appearance:

Installation dimension:

Performance indicators:

After-sales service:

**Service information:**

Pre-sales service:

Training consulting: ☐ Type selection training ☐ Application training ☐ Use and maintenanceDesign selection: ☐ Participate in design ☐ Design verification ☐ Product selectionDemand confirmation: ☐ Working condition confirmation ☐ Product confirmation ☐ Service confirmationIn-sales service: ☐ On-site full inspection ☐ Process sampling ☐ Ex-factory inspectionAfter-sales service: ☐ Installation and commissioning ☐ Testing and maintenance ☐ Spare parts**Business information:**

Transportation:

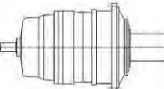
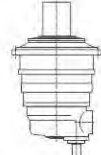
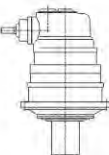
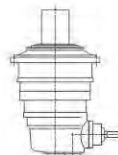
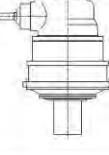
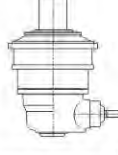
Delivery place:

Delivery time:

Order quantity:

Settlement price:

**Attached figure:**

| Horizontal gear unit position                    |   |       | 5...                                                                                                                                                                              |  | Vertical gear unit position                                                         |                                                                                       | 9... 6...           |  |
|--------------------------------------------------|---|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|--|
| Coaxial planetary gear units                     | 0 | JRP N |                                                                                                |  |  |  | 500 900 600         |  |
|                                                  |   |       |                                                                                                                                                                                   |  |                                                                                     |                                                                                       |                     |  |
| Combined helical gear planetary gear units       | 1 | JRP S |   1)<br>511 |  |  |  | 512 513 514 910 610 |  |
|                                                  |   |       |                                                                                                                                                                                   |  |                                                                                     |                                                                                       |                     |  |
| Combined bevel-helical gear planetary gear units | 2 | JRP K |   1)<br>521 |  |  |  | 522 523 524 920 620 |  |
|                                                  |   |       |                                                                                                                                                                                   |  |                                                                                     |                                                                                       |                     |  |
| Combined bevel gear planetary gear units         | 3 | JRP L |   1)<br>531 |  |  |  | 532 533 534 930 630 |  |
|                                                  |   |       |                                                                                                                                                                                   |  |                                                                                     |                                                                                       |                     |  |
| Torque reaction arm                              | 5 |       |  551                                                                                           |  | *)Viewing on input shaft                                                            |                                                                                       |                     |  |
|                                                  |   |       |  552                                                                                           |  |                                                                                     |                                                                                       |                     |  |
|                                                  |   |       |  553                                                                                           |  | **)please consult us                                                                |                                                                                       |                     |  |
|                                                  |   |       |  554                                                                                           |  |                                                                                     |                                                                                       |                     |  |
|                                                  |   |       |  555                                                                                           |  |                                                                                     |                                                                                       |                     |  |
|                                                  |   |       |  556                                                                                           |  |                                                                                     |                                                                                       |                     |  |



## 6.2 杰牌传动选型举例 Example of Type selection

已知

原动机:

电机功率: 1.5kW

电机转速: 1500(r/min)

工作机:

输送带, 不均匀输送

每天运行时间: 10小时/天

每小时启动次数: 1

输出扭矩: 4900 Nm

最大启动扭矩: 9800 Nm

输出转速: 1.85 r/min

设计寿命: 10000 h

安装位置: 水平安装

环境温度: 30 °C

室内大空间安装

齿轮箱选型

6.1 所需传动比:  $1500/1.85=810$

6.2 确定额定扭矩:

使用系数 $K_A$ : 1.25

启动系数 $C_S$ : 1

齿轮箱扭矩:  $T_{2R}=4900 \times K_A \times C_S = 6125 \text{ Nm}$ ,

选择的齿轮箱应满足:  $T_2 > T_{2R}$

按额定输出扭矩 $T_N$ 选择齿轮箱, 规格4齿轮

箱 $T_N=6400 \text{ Nm} > T_{2R}$

在4规格中查找减速比 $i_{\text{eff}}$ , 最接近所需传动比810的是771.8。

$T_2=7348 \text{ Nm} > T_{2R}$ , JRP4NB4满足扭矩要求。

6.3 确定传动比:  $i_{\text{eff}}=771.8$

6.4 校核最大扭矩:  $T_{2\text{max}}=10000 \text{ Nm} > 9800 \text{ Nm}$

6.5 校核热功率:

$P_T=8 \text{ kW}$

$K=0.85$

$P_{T1}=8 \times 0.85=6.8 \text{ kW}$

工作机功率:  $P_2=4900 \times 1.9/9550=0.97 \text{ kW}$

$P_{T1} > P_2$ , 因此齿轮箱不需要辅助冷却装置。

Known

Prime mover

Electric motor: 1.5kW

Motor speed: 1500 (r/min)

Working machine

Conveyor belt uneven transport

Runtime: continuous 10 hours/day

Number of starts per hour: 1

Output torque: 4900 Nm

Max. torque on start: 9800 Nm

Output speed: 1.85 r/min

Design life: 10000 h

Mounting position: horizontal

Ambient temperature: 30 °C

Large-space indoor installation

Gear unit selection

6.1 Ratio required:  $1500/1.85=810$

6.2 Determine the rated torque

Application factor  $K_A$ : 1.25

Starover coefficient  $C_S$ : 1

Torque:  $T_{2R}=4900 \times K_A \times C_S = 6125 \text{ Nm}$ ,

the gear unit selected:  $T_2 > T_{2R}$

reference torque for gear unit selection.

Select the gear unit according to the rated output torque, for size No.4,  $T_N=6400 \text{ Nm} > T_{2R}$ .

Search the ratio  $i_{\text{eff}}$  of size4, the ratio 771.8 is close to the ratio 810.

$T_2=7348 \text{ Nm} > T_{2R}$ , JRP4NB4 meet the torque requirements.

6.3 Calculation of transmission ratio:  $i_{\text{eff}}=771.8$

6.4 Check the max. torque:  $T_{2\text{max}}=10000 \text{ Nm} > 9800 \text{ Nm}$

6.5 Check the thermal power:

$P_T=8 \text{ kW}$

$K=0.85$

$P_{T1}=8 \times 0.85=6.8 \text{ kW}$

Power of working machine:  $P_2=4900 \times 1.9/9550=0.97 \text{ kW}$

As  $P_{T1} > P_2$  auxiliary cooling system will not be required.

## 7. 规格与额定扭矩

### Specification & Torque



| 规格<br>Type | i           | $T_n$ (Nm) | 输出轴尺寸<br>Output shafts dimension                                                          |                                                                                                            |
|------------|-------------|------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|            |             |            |  DIN5482 |  实心轴 $\Phi$ Solid shaft |
| 01         | 3.38-765.1  | 1000       | B40x36                                                                                    | 42                                                                                                         |
| 02         | 3.08-3160   | 2100       | B58x53                                                                                    | 65                                                                                                         |
| 03         | 15.37-3170  | 3800       | B58x53                                                                                    | 65                                                                                                         |
| 1          | 15.37-3170  | 3800       | B58x53                                                                                    | 65                                                                                                         |
| 2          | 3.50-3301   | 3800       | B58x53                                                                                    | 65                                                                                                         |
| 3          | 3.50-3301   | 3800       | B58x53                                                                                    | 65                                                                                                         |
| 4          | 3.50-3170   | 6400       | B70x64                                                                                    | 80                                                                                                         |
| 5          | 12.25-315.4 | 6400       | B70x64                                                                                    | 80                                                                                                         |
| 6          | 4.08-3207   | 9200       | B80x74                                                                                    | 90                                                                                                         |
| 7          | 3.09-3460   | 13000      | B80x74                                                                                    | 100                                                                                                        |
| 8          | 19.50-272.7 | 13000      | B100x94                                                                                   | 100                                                                                                        |

JRP...01



| i          | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>r</sub><br>(kW) |
|------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|            | n <sub>e</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP1N...01 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.38       | 444                    | 410                 | 19.1                | 296                    | 463                 | 14.4                | 148                    | 570                 | 8.8                 | 1600                      | 12                     |
| 4.39       | 342                    | 431                 | 15.4                | 228                    | 487                 | 11.6                | 114                    | 600                 | 7.2                 | 1600                      |                        |
| 6          | 250                    | 412                 | 10.8                | 167                    | 453                 | 7.9                 | 83                     | 510                 | 4.5                 | 1600                      |                        |
| 6.94       | 216                    | 387                 | 8.8                 | 144                    | 407                 | 6.2                 | 72                     | 457                 | 3.5                 | 1600                      |                        |
| 10.5       | 143                    | 206                 | 3.1                 | 95                     | 213                 | 2.1                 | 47.6                   | 224                 | 1.1                 | 1600                      |                        |
| JRP2N...01 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 11.42      | 131                    | 591                 | 8.1                 | 88                     | 667                 | 6.1                 | 43.8                   | 821                 | 3.8                 | 1600                      | 8                      |
| 14.84      | 101                    | 639                 | 6.8                 | 67                     | 722                 | 5.1                 | 33.7                   | 889                 | 3.1                 | 1600                      |                        |
| 19.27      | 78                     | 672                 | 5.5                 | 52                     | 759                 | 4.1                 | 25.9                   | 816                 | 2.2                 | 1600                      |                        |
| 20.28      | 74                     | 702                 | 5.4                 | 49.3                   | 793                 | 4.1                 | 24.7                   | 916                 | 2.4                 | 1600                      |                        |
| 23.46      | 64                     | 733                 | 4.9                 | 42.6                   | 828                 | 3.7                 | 21.3                   | 921                 | 2.1                 | 1600                      |                        |
| 26.34      | 57                     | 738                 | 4.4                 | 38                     | 803                 | 3.2                 | 19                     | 825                 | 1.6                 | 1600                      |                        |
| 30.47      | 49.2                   | 771                 | 4                   | 32.8                   | 808                 | 2.8                 | 16.4                   | 829                 | 1.4                 | 1600                      |                        |
| 36         | 41.7                   | 561                 | 2.4                 | 27.8                   | 589                 | 1.7                 | 13.9                   | 636                 | 0.93                | 1600                      |                        |
| 41.64      | 36                     | 571                 | 2.2                 | 24                     | 599                 | 1.5                 | 12                     | 646                 | 0.81                | 1600                      |                        |
| 48.16      | 31.1                   | 512                 | 1.7                 | 20.8                   | 537                 | 1.2                 | 10.4                   | 581                 | 0.63                | 1600                      |                        |
| JRP3N...01 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 65.14      | 23                     | 918                 | 2.2                 | 15.4                   | 931                 | 1.5                 | 7.7                    | 952                 | 0.77                | 1600                      | 5                      |
| 68.55      | 21.9                   | 920                 | 2.1                 | 14.6                   | 933                 | 1.4                 | 7.3                    | 954                 | 0.73                | 1600                      |                        |
| 79.29      | 18.9                   | 925                 | 1.8                 | 12.6                   | 937                 | 1.2                 | 6.3                    | 958                 | 0.63                | 1600                      |                        |
| 89.03      | 16.8                   | 928                 | 1.6                 | 11.2                   | 941                 | 1.1                 | 5.6                    | 961                 | 0.57                | 1600                      |                        |
| 103        | 14.6                   | 933                 | 1.4                 | 9.7                    | 945                 | 1                   | 4.9                    | 966                 | 0.49                | 1600                      |                        |
| 115.6      | 13                     | 836                 | 1.1                 | 8.6                    | 847                 | 0.77                | 4.3                    | 865                 | 0.39                | 1600                      |                        |
| 121.7      | 12.3                   | 938                 | 1.2                 | 8.2                    | 950                 | 0.82                | 4.1                    | 970                 | 0.42                | 1600                      |                        |
| 140.7      | 10.7                   | 943                 | 1.1                 | 7.1                    | 955                 | 0.71                | 3.6                    | 975                 | 0.36                | 1600                      |                        |
| 162.8      | 9.2                    | 947                 | 0.91                | 6.1                    | 959                 | 0.62                | 3.1                    | 979                 | 0.32                | 1600                      |                        |
| 182.8      | 8.2                    | 848                 | 0.73                | 5.5                    | 859                 | 0.49                | 2.7                    | 877                 | 0.25                | 1600                      |                        |
| 211.4      | 7.1                    | 852                 | 0.63                | 4.7                    | 863                 | 0.43                | 2.4                    | 880                 | 0.22                | 1600                      |                        |
| 216        | 6.9                    | 684                 | 0.5                 | 4.6                    | 732                 | 0.36                | 2.3                    | 799                 | 0.19                | 1600                      |                        |
| 246.3      | 6.1                    | 959                 | 0.61                | 4.1                    | 971                 | 0.41                | 2                      | 990                 | 0.21                | 1600                      |                        |
| 276.6      | 5.4                    | 859                 | 0.49                | 3.6                    | 870                 | 0.33                | 1.8                    | 887                 | 0.17                | 1600                      |                        |
| 319.9      | 4.7                    | 863                 | 0.42                | 3.1                    | 873                 | 0.29                | 1.6                    | 900                 | 0.15                | 1600                      |                        |
| 372.6      | 4                      | 824                 | 0.35                | 2.7                    | 846                 | 0.24                | 1.3                    | 883                 | 0.12                | 1600                      |                        |
| 378        | 4                      | 759                 | 0.32                | 2.6                    | 796                 | 0.22                | 1.3                    | 854                 | 0.12                | 1600                      |                        |
| 437.2      | 3.4                    | 786                 | 0.28                | 2.3                    | 800                 | 0.19                | 1.1                    | 873                 | 0.11                | 1600                      |                        |
| 484        | 3.1                    | 874                 | 0.28                | 2.1                    | 884                 | 0.19                | 1                      | 961                 | 0.1                 | 1600                      |                        |
| 661.5      | 2.3                    | 800                 | 0.19                | 1.5                    | 836                 | 0.13                | 0.76                   | 930                 | 0.07                | 1600                      |                        |
| 765.1      | 2                      | 772                 | 0.16                | 1.3                    | 823                 | 0.11                | 0.65                   | 915                 | 0.06                | 1600                      |                        |

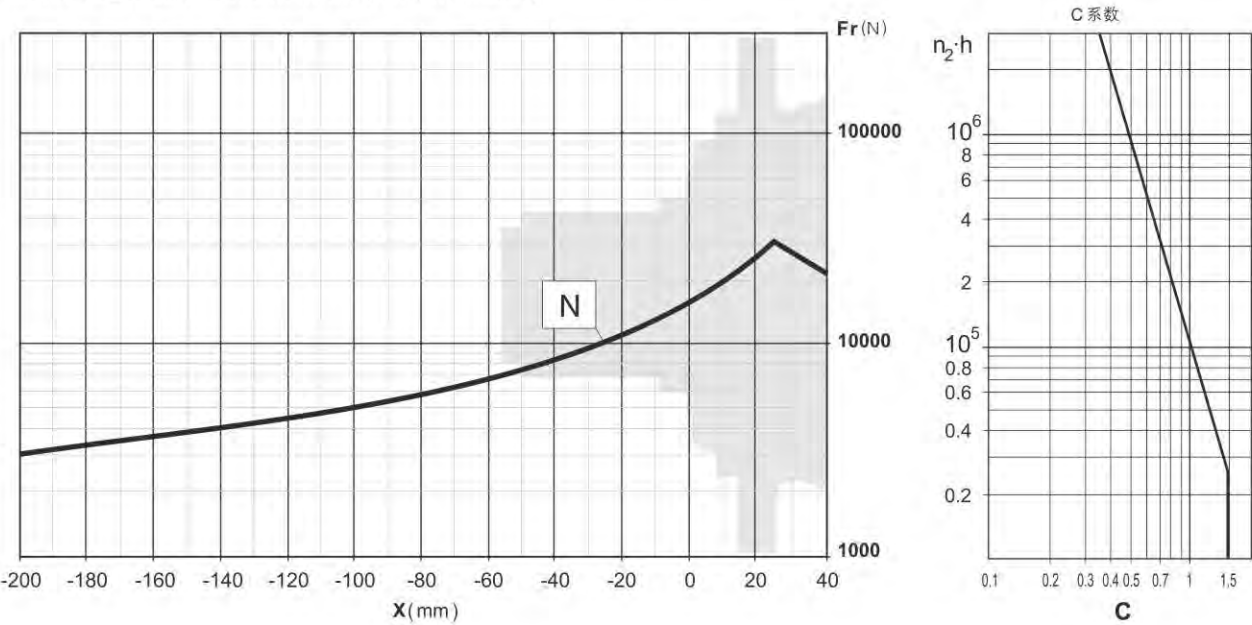


JRP...02

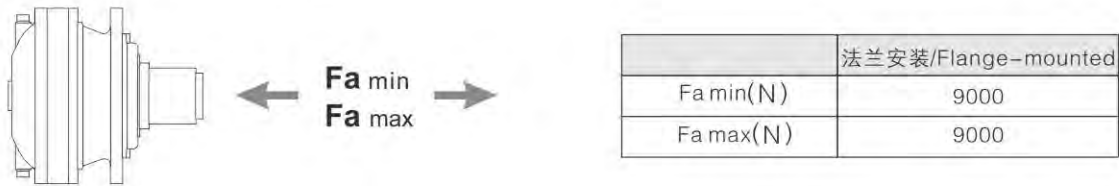


| i          | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>1</sub><br>(kW) |
|------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|            | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP1N...02 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.08       | 487                    | 888                 | 45.3                | 325                    | 1003                | 34.1                | 162                    | 1235                | 21                  | 2800                      | 20                     |
| 3.5        | 429                    | 972                 | 43.6                | 286                    | 1098                | 32.9                | 143                    | 1351                | 20.2                | 2800                      |                        |
| 4.13       | 363                    | 1005                | 38.2                | 242                    | 1135                | 28.8                | 121                    | 1397                | 17.7                | 2800                      |                        |
| 5.17       | 290                    | 1045                | 31.8                | 193                    | 1159                | 23.5                | 97                     | 1287                | 13                  | 2800                      |                        |
| 6          | 250                    | 1001                | 26.2                | 167                    | 1077                | 18.8                | 83                     | 1187                | 10.4                | 2800                      |                        |
| 7.25       | 207                    | 863                 | 18.7                | 138                    | 924                 | 13.3                | 69                     | 1015                | 7.3                 | 2800                      |                        |
| JRP2N...02 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 10.41      | 144                    | 1263                | 19.1                | 96                     | 1427                | 14.4                | 48                     | 1756                | 8.8                 | 2800                      | 12                     |
| 11.83      | 127                    | 1401                | 18.6                | 85                     | 1582                | 14                  | 42.3                   | 1948                | 8.6                 | 2800                      |                        |
| 13.52      | 111                    | 1329                | 15.4                | 74                     | 1501                | 11.6                | 37                     | 1848                | 7.2                 | 2800                      |                        |
| 15.37      | 98                     | 1510                | 15.4                | 65                     | 1705                | 11.6                | 32.5                   | 2036                | 6.9                 | 2800                      |                        |
| 18.13      | 83                     | 1566                | 13.6                | 55                     | 1715                | 9.9                 | 27.6                   | 1840                | 5.3                 | 2800                      |                        |
| 21         | 71                     | 1445                | 10.8                | 47.6                   | 1585                | 7.9                 | 23.8                   | 1787                | 4.5                 | 2800                      |                        |
| 22.7       | 66                     | 1348                | 9.3                 | 44.1                   | 1411                | 6.5                 | 22                     | 1515                | 3.5                 | 2800                      |                        |
| 24.78      | 61                     | 1697                | 10.8                | 40.4                   | 1772                | 7.5                 | 20.2                   | 1895                | 4                   | 2800                      |                        |
| 28.66      | 52                     | 1600                | 8.8                 | 34.9                   | 1683                | 6.2                 | 17.4                   | 1890                | 3.5                 | 2800                      |                        |
| 31.02      | 48.4                   | 1397                | 7.1                 | 32.2                   | 1458                | 4.9                 | 16.1                   | 1561                | 2.6                 | 2800                      |                        |
| 35.88      | 41.8                   | 1419                | 6.2                 | 27.9                   | 1480                | 4.3                 | 13.9                   | 1582                | 2.3                 | 2800                      |                        |
| 41.64      | 36                     | 1305                | 4.9                 | 24                     | 1360                | 3.4                 | 12                     | 1453                | 1.8                 | 2800                      |                        |
| 50.32      | 29.8                   | 1116                | 3.5                 | 19.9                   | 1164                | 2.4                 | 9.9                    | 1246                | 1.3                 | 2800                      |                        |
| JRP3N...02 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 59.36      | 25.3                   | 2071                | 5.5                 | 16.8                   | 2276                | 4                   | 8.4                    | 2514                | 2.2                 | 2800                      | 8                      |
| 61.28      | 24.5                   | 1861                | 4.8                 | 16.3                   | 1933                | 3.3                 | 8.2                    | 2078                | 1.8                 | 2800                      |                        |
| 70.98      | 21.1                   | 2121                | 4.7                 | 14.1                   | 2201                | 3.2                 | 7                      | 2471                | 1.8                 | 2800                      |                        |
| 82.1       | 18.3                   | 2150                | 4.1                 | 12.2                   | 2229                | 2.8                 | 6.1                    | 2545                | 1.6                 | 2800                      |                        |
| 92.19      | 16.3                   | 2172                | 3.7                 | 10.8                   | 2259                | 2.6                 | 5.4                    | 2606                | 1.5                 | 2800                      |                        |
| 106.6      | 14.1                   | 2201                | 3.2                 | 9.4                    | 2329                | 2.3                 | 4.7                    | 2683                | 1.3                 | 2800                      |                        |
| 108.8      | 13.8                   | 1963                | 2.8                 | 9.2                    | 2035                | 2                   | 4.6                    | 2341                | 1.1                 | 2800                      |                        |
| 126        | 11.9                   | 1963                | 2.4                 | 7.9                    | 2062                | 1.7                 | 4                      | 2228                | 0.93                | 2800                      |                        |
| 145.7      | 10.3                   | 1999                | 2.2                 | 6.9                    | 2097                | 1.5                 | 3.4                    | 2263                | 0.81                | 2800                      |                        |
| 161.3      | 9.3                    | 2333                | 2.3                 | 6.2                    | 2536                | 1.6                 | 3.1                    | 2800                | 0.91                | 2800                      |                        |
| 172        | 8.7                    | 2049                | 1.9                 | 5.8                    | 2231                | 1.4                 | 2.9                    | 2567                | 0.78                | 2800                      |                        |
| 198.9      | 7.5                    | 2113                | 1.7                 | 5                      | 2221                | 1.2                 | 2.5                    | 2401                | 0.63                | 2800                      |                        |
| 220.5      | 6.8                    | 2099                | 1.5                 | 4.5                    | 2196                | 1                   | 2.3                    | 2364                | 0.56                | 2800                      |                        |
| 260.2      | 5.8                    | 2235                | 1.3                 | 3.8                    | 2428                | 0.98                | 1.9                    | 2785                | 0.56                | 2800                      |                        |
| 289        | 5.2                    | 1583                | 0.86                | 3.5                    | 1727                | 0.63                | 1.7                    | 1994                | 0.36                | 2800                      |                        |
| 325.7      | 4.6                    | 1833                | 0.88                | 3.1                    | 1995                | 0.64                | 1.5                    | 2297                | 0.37                | 2800                      |                        |
| JRP4N...02 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 360.4      | 4.2                    | 2748                | 1.2                 | 2.8                    | 2800                | 0.82                | 1.4                    | 2800                | 0.41                | 2800                      | 4                      |
| 404.7      | 3.7                    | 2800                | 1.1                 | 2.5                    | 2800                | 0.73                | 1.2                    | 2800                | 0.35                | 2800                      |                        |
| 468.1      | 3.2                    | 2800                | 0.94                | 2.1                    | 2800                | 0.62                | 1.1                    | 2800                | 0.32                | 2800                      |                        |
| 502.5      | 3                      | 2554                | 0.8                 | 2                      | 2766                | 0.58                | 0.99                   | 2800                | 0.29                | 2800                      |                        |
| 569.8      | 2.6                    | 2800                | 0.76                | 1.8                    | 2800                | 0.53                | 0.88                   | 2800                | 0.26                | 2800                      |                        |
| 639.8      | 2.3                    | 2800                | 0.67                | 1.6                    | 2800                | 0.47                | 0.78                   | 2800                | 0.23                | 2800                      |                        |
| 708.2      | 2.1                    | 2800                | 0.62                | 1.4                    | 2800                | 0.41                | 0.71                   | 2800                | 0.21                | 2800                      |                        |
| 835.7      | 1.8                    | 2800                | 0.53                | 1.2                    | 2800                | 0.35                | 0.6                    | 2800                | 0.18                | 2800                      |                        |
| 892.1      | 1.7                    | 2800                | 0.5                 | 1.1                    | 2800                | 0.32                | 0.56                   | 2800                | 0.16                | 2800                      |                        |
| 1032       | 1.5                    | 2800                | 0.44                | 0.97                   | 2800                | 0.28                | 0.48                   | 2800                | 0.14                | 2800                      |                        |
| 1120       | 1.3                    | 2800                | 0.38                | 0.89                   | 2800                | 0.26                | 0.45                   | 2800                | 0.13                | 2800                      |                        |
| 1323       | 1.1                    | 2659                | 0.32                | 0.76                   | 2789                | 0.22                | 0.38                   | 2800                | 0.11                | 2800                      |                        |
| 1380       | 1.1                    | 2641                | 0.3                 | 0.72                   | 2800                | 0.21                | 0.36                   | 2800                | 0.11                | 2800                      |                        |
| 1561       | 0.96                   | 2800                | 0.28                | 0.64                   | 2800                | 0.19                | 0.32                   | 2800                | 0.09                | 2800                      |                        |
| 1806       | 0.83                   | 2800                | 0.24                | 0.55                   | 2800                | 0.16                | 0.28                   | 2800                | 0.08                | 2800                      |                        |
| 1999       | 0.75                   | 2800                | 0.22                | 0.5                    | 2800                | 0.15                | 0.25                   | 2800                | 0.07                | 2800                      |                        |
| 2315       | 0.65                   | 2800                | 0.19                | 0.43                   | 2800                | 0.13                | 0.22                   | 2800                | 0.06                | 2800                      |                        |
| 2615       | 0.57                   | 2783                | 0.17                | 0.38                   | 2800                | 0.11                | 0.19                   | 2800                | 0.06                | 2800                      |                        |
| 2732       | 0.55                   | 2800                | 0.16                | 0.37                   | 2800                | 0.11                | 0.18                   | 2800                | 0.05                | 2800                      |                        |
| 3160       | 0.47                   | 2800                | 0.14                | 0.32                   | 2800                | 0.09                | 0.16                   | 2800                | 0.05                | 2800                      |                        |

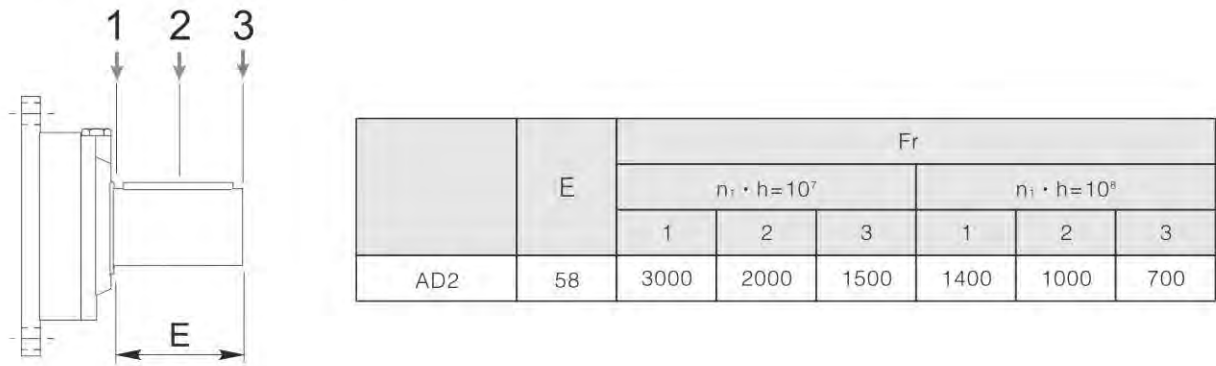
径向力（输出轴） Radial force (Output shafts)



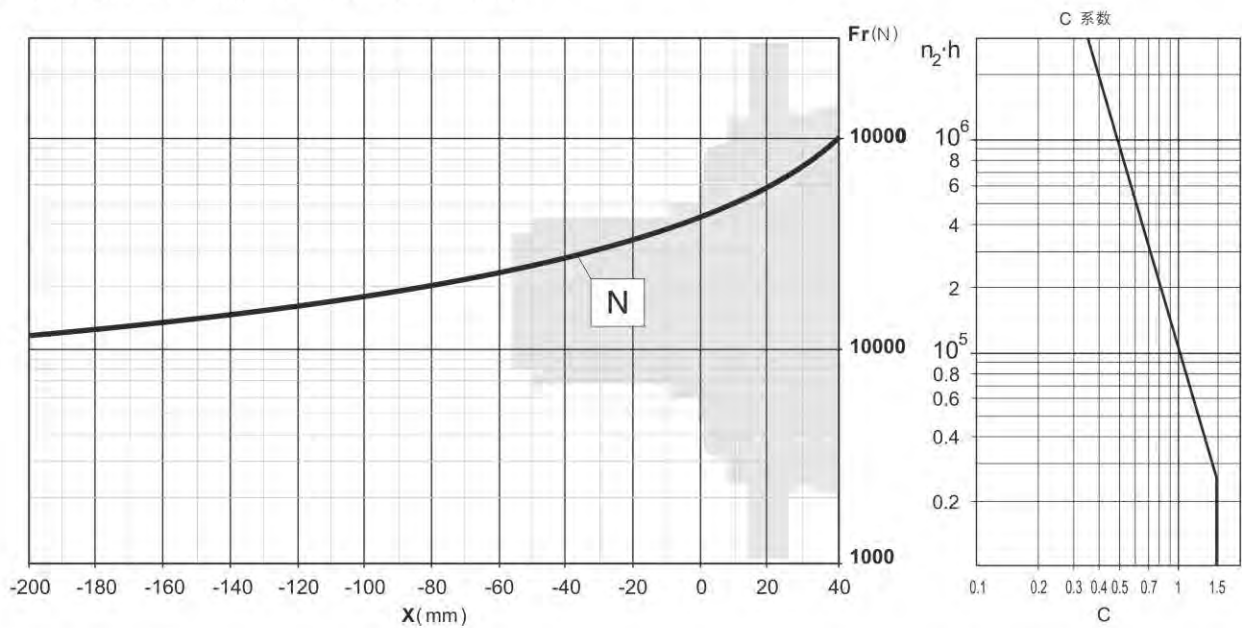
轴向力（输出轴） Axial force (Output shafts)



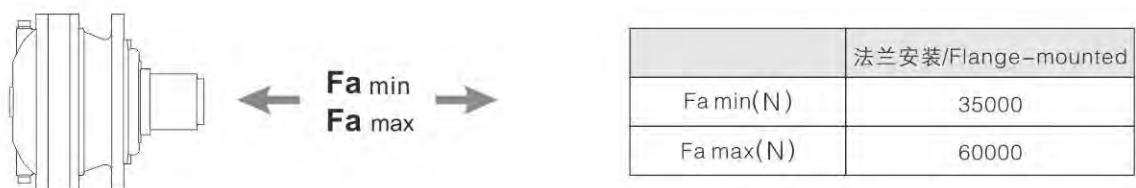
径向力（输入轴） Radial force (Input shafts)



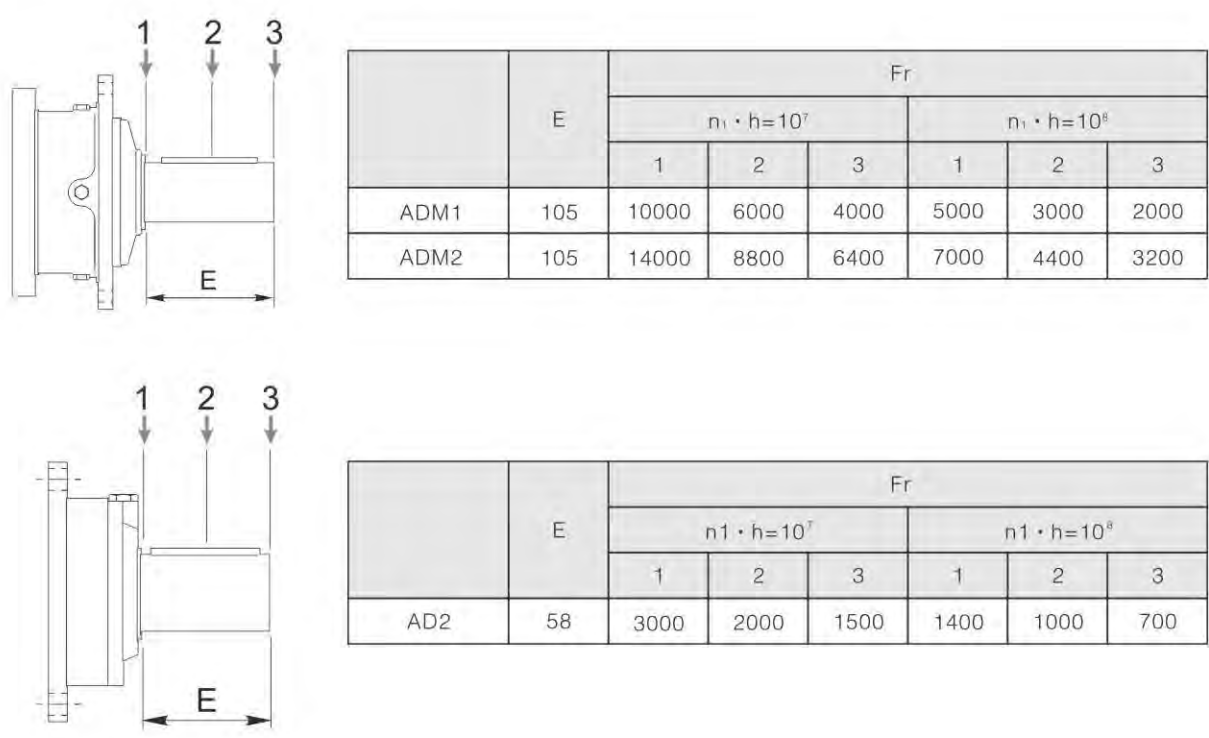
径向力（输出轴） Radial force (Output shafts)



轴向力（输出轴） Axial force (Output shafts)



径向力（输入轴） Radial force (Input shafts)

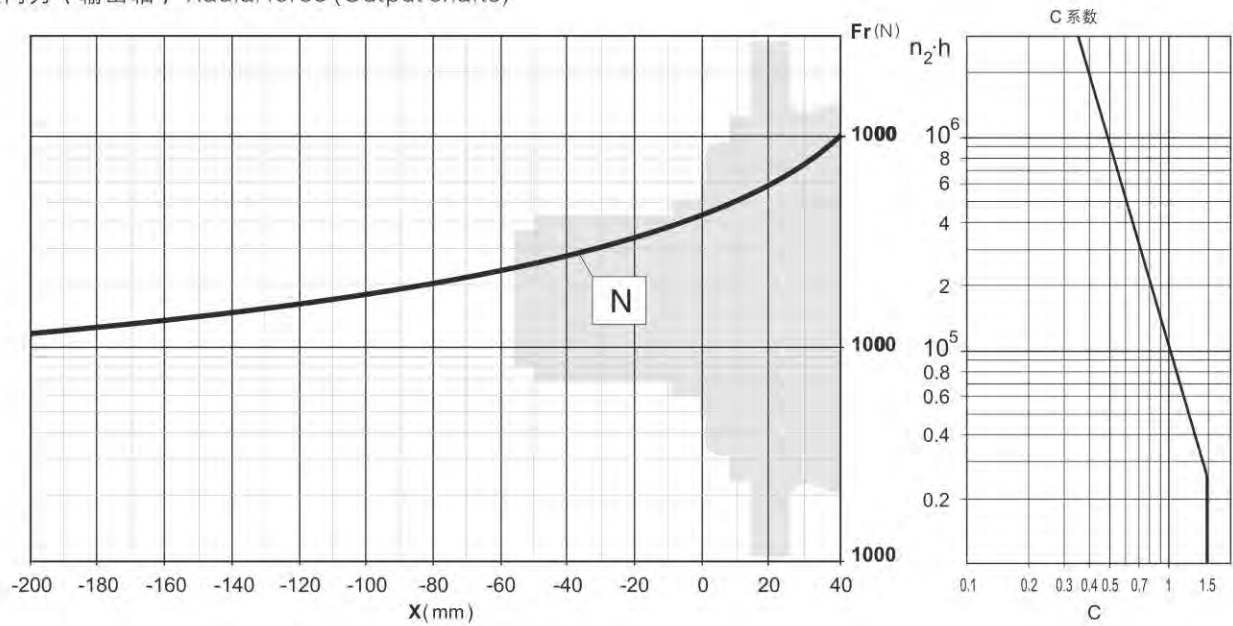




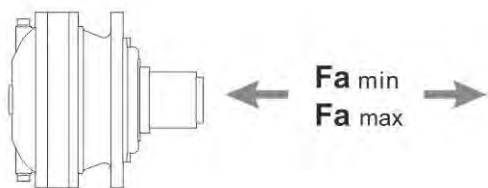
JRP...03

| i          | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>3000</sub><br>(Nm) | P <sub>i</sub><br>(kW) |
|------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|            | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) |                           |                        |
| JRP2N...03 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 15.37      | 98                     | 1510                | 15.4                | 65                     | 1705                | 11.6                | 32.5                   | 2100                | 7.2                 | 5600                      | 12                     |
| 17.47      | 86                     | 2121                | 19.1                | 57                     | 2395                | 14.4                | 28.6                   | 2732                | 8.2                 | 6000                      |                        |
| 20.28      | 74                     | 2206                | 17.1                | 49.3                   | 2314                | 12                  | 24.7                   | 2494                | 6.4                 | 6000                      |                        |
| 22.7       | 66                     | 2231                | 15.4                | 44.1                   | 2519                | 11.6                | 22                     | 2805                | 6.5                 | 6000                      |                        |
| 26.34      | 57                     | 2276                | 13.6                | 38                     | 2383                | 9.5                 | 19                     | 2560                | 5.1                 | 6000                      |                        |
| 31.02      | 48.4                   | 2134                | 10.8                | 32.2                   | 2342                | 7.9                 | 16.1                   | 2639                | 4.5                 | 6000                      |                        |
| 36         | 41.7                   | 2358                | 10.3                | 27.8                   | 2463                | 7.2                 | 13.9                   | 2640                | 3.8                 | 6000                      |                        |
| 41.64      | 36                     | 2325                | 8.8                 | 24                     | 2446                | 6.2                 | 12                     | 2678                | 3.4                 | 6000                      |                        |
| 43.5       | 34.5                   | 2027                | 7.3                 | 23                     | 2119                | 5.1                 | 11.5                   | 2276                | 2.7                 | 6000                      |                        |
| 50.32      | 29.8                   | 2060                | 6.4                 | 19.9                   | 2152                | 4.5                 | 9.9                    | 2309                | 2.4                 | 6000                      |                        |
| JRP3N...03 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 59.06      | 25.4                   | 2765                | 7.4                 | 16.9                   | 2879                | 5.1                 | 8.5                    | 3076                | 2.7                 | 6000                      | 8                      |
| 61.28      | 24.5                   | 2640                | 6.8                 | 16.3                   | 2982                | 5.1                 | 8.2                    | 3671                | 3.1                 | 6000                      |                        |
| 70.98      | 21.1                   | 2457                | 5.4                 | 14.1                   | 2775                | 4.1                 | 7                      | 3206                | 2.4                 | 6000                      |                        |
| 83.76      | 17.9                   | 2900                | 5.4                 | 11.9                   | 3275                | 4.1                 | 6                      | 3783                | 2.4                 | 6000                      |                        |
| 89.03      | 16.8                   | 2591                | 4.6                 | 11.2                   | 2695                | 3.2                 | 5.6                    | 2876                | 1.7                 | 6000                      |                        |
| 96.88      | 15.5                   | 3029                | 4.9                 | 10.3                   | 3421                | 3.7                 | 5.2                    | 3803                | 2.1                 | 6000                      |                        |
| 108.8      | 13.8                   | 3051                | 4.4                 | 9.2                    | 3320                | 3.2                 | 4.6                    | 3410                | 1.6                 | 6000                      |                        |
| 124.2      | 12.1                   | 2447                | 3.1                 | 8.1                    | 2528                | 2.1                 | 4                      | 2658                | 1.1                 | 6000                      |                        |
| 146.6      | 10.2                   | 2888                | 3.1                 | 6.8                    | 2983                | 2.1                 | 3.4                    | 3137                | 1.1                 | 6000                      |                        |
| 157.5      | 9.5                    | 3042                | 3                   | 6.3                    | 3179                | 2.1                 | 3.2                    | 3695                | 1.2                 | 6000                      |                        |
| 186.1      | 8.1                    | 2901                | 2.4                 | 5.4                    | 3046                | 1.7                 | 2.7                    | 3292                | 0.93                | 6000                      |                        |
| 198.9      | 7.5                    | 2115                | 1.7                 | 5                      | 2221                | 1.2                 | 2.5                    | 2401                | 0.63                | 6000                      |                        |
| 215.3      | 7                      | 2953                | 2.2                 | 4.6                    | 3098                | 1.5                 | 2.3                    | 3343                | 0.81                | 6000                      |                        |
| 249        | 6                      | 2648                | 1.7                 | 4                      | 2780                | 1.2                 | 2                      | 3006                | 0.63                | 6000                      |                        |
| 289        | 5.2                    | 2924                | 1.6                 | 3.5                    | 3197                | 1.2                 | 1.7                    | 3489                | 0.63                | 6000                      |                        |
| 325.7      | 4.6                    | 3101                | 1.5                 | 3.1                    | 3244                | 1                   | 1.5                    | 3492                | 0.56                | 6000                      |                        |
| JRP4N...03 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 367.7      | 4.1                    | 3835                | 1.6                 | 2.7                    | 3888                | 1.1                 | 1.4                    | 3972                | 0.57                | 6000                      | 4                      |
| 404.7      | 3.7                    | 2928                | 1.1                 | 2.5                    | 2966                | 0.77                | 1.2                    | 3029                | 0.39                | 6000                      |                        |
| 460.3      | 3.3                    | 3674                | 1.3                 | 2.2                    | 4000                | 0.91                | 1.1                    | 4605                | 0.52                | 6000                      |                        |
| 495.4      | 3                      | 3874                | 1.2                 | 2                      | 3925                | 0.83                | 1                      | 4008                | 0.42                | 6000                      |                        |
| 581.3      | 2.6                    | 3894                | 1.1                 | 1.7                    | 3944                | 0.71                | 0.86                   | 4027                | 0.36                | 6000                      |                        |
| 643.5      | 2.3                    | 3907                | 0.95                | 1.6                    | 3956                | 0.64                | 0.78                   | 4039                | 0.33                | 6000                      |                        |
| 691.5      | 2.2                    | 4002                | 0.91                | 1.4                    | 4348                | 0.66                | 0.72                   | 4494                | 0.34                | 6000                      |                        |
| 817.1      | 1.8                    | 4142                | 0.8                 | 1.2                    | 4424                | 0.57                | 0.61                   | 4516                | 0.29                | 6000                      |                        |
| 879.4      | 1.7                    | 3945                | 0.71                | 1.1                    | 3994                | 0.48                | 0.57                   | 4075                | 0.24                | 6000                      |                        |
| 1017       | 1.5                    | 3963                | 0.61                | 0.98                   | 4011                | 0.41                | 0.49                   | 4092                | 0.21                | 6000                      |                        |
| 1142       | 1.3                    | 3550                | 0.49                | 0.88                   | 3593                | 0.33                | 0.44                   | 3666                | 0.17                | 6000                      |                        |
| 1304       | 1.2                    | 2886                | 0.35                | 0.77                   | 2961                | 0.24                | 0.38                   | 3092                | 0.12                | 6000                      |                        |
| 1430       | 1                      | 4445                | 0.49                | 0.7                    | 4498                | 0.33                | 0.35                   | 4589                | 0.17                | 6000                      |                        |
| 1539       | 0.97                   | 3406                | 0.35                | 0.65                   | 3494                | 0.24                | 0.32                   | 3649                | 0.12                | 6000                      |                        |
| 1806       | 0.83                   | 3248                | 0.28                | 0.55                   | 3304                | 0.19                | 0.28                   | 3607                | 0.11                | 6000                      |                        |
| 1999       | 0.75                   | 3610                | 0.28                | 0.5                    | 3652                | 0.19                | 0.25                   | 3969                | 0.1                 | 6000                      |                        |
| 2268       | 0.66                   | 4502                | 0.31                | 0.44                   | 4781                | 0.22                | 0.22                   | 5124                | 0.12                | 6000                      |                        |
| 2502       | 0.6                    | 4519                | 0.28                | 0.4                    | 4572                | 0.19                | 0.2                    | 4969                | 0.1                 | 6000                      |                        |
| 2904       | 0.52                   | 4726                | 0.26                | 0.34                   | 5112                | 0.18                | 0.17                   | 5767                | 0.1                 | 6000                      |                        |
| 3170       | 0.47                   | 4042                | 0.2                 | 0.32                   | 4382                | 0.15                | 0.16                   | 5013                | 0.08                | 6000                      |                        |

径向力（输出轴） Radial force (Output shafts)

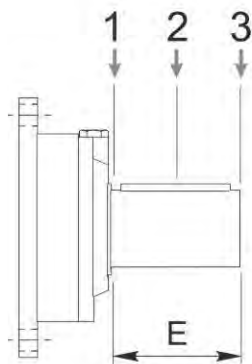


轴向力（输出轴） Axial force (Output shafts)



|               | 法兰安装/Flange-mounted |
|---------------|---------------------|
| $Fa_{min}(N)$ | 35000               |
| $Fa_{max}(N)$ | 60000               |

径向力（输入轴） Radial force (Input shafts)



|     | E  | Fr                 |      |      |                    |      |     |
|-----|----|--------------------|------|------|--------------------|------|-----|
|     |    | $n_1 \cdot h=10^7$ |      |      | $n_1 \cdot h=10^8$ |      |     |
|     |    | 1                  | 2    | 3    | 1                  | 2    | 3   |
| AD2 | 58 | 3000               | 2000 | 1500 | 1400               | 1000 | 700 |

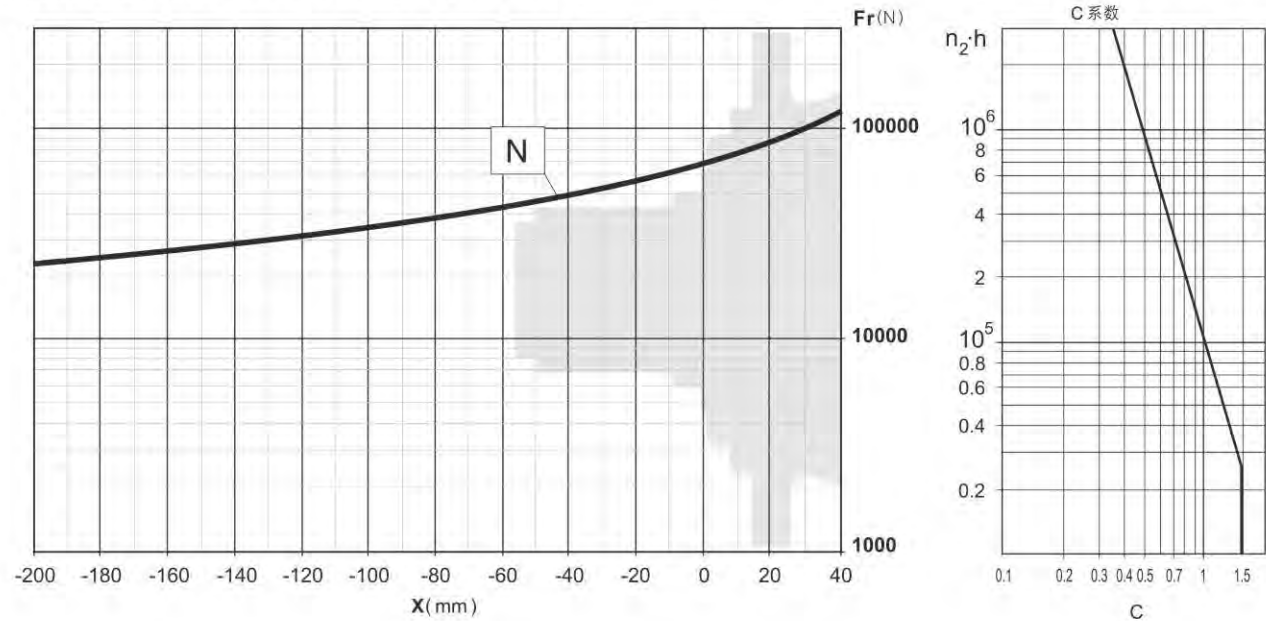




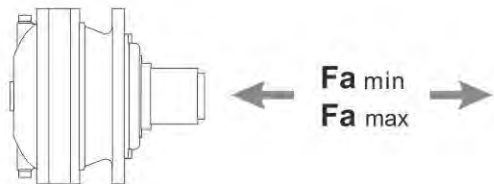
JRP...1

| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>amax</sub><br>(Nm) | (P <sub>T</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|-------------------------|
|           | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) |                           |                         |
| JRP2N...1 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                         |
| 15.37     | 98                     | 1510                | 15.4                | 65                     | 1705                | 11.6                | 32.5                   | 2100                | 7.2                 | 5600                      | 12                      |
| 17.47     | 86                     | 2121                | 19.1                | 57                     | 2395                | 14.4                | 28.6                   | 2732                | 8.2                 | 6000                      |                         |
| 20.28     | 74                     | 2206                | 17.1                | 49.3                   | 2314                | 12                  | 24.7                   | 2494                | 6.4                 | 6000                      |                         |
| 22.7      | 66                     | 2231                | 15.4                | 44.1                   | 2519                | 11.6                | 22                     | 2805                | 6.5                 | 6000                      |                         |
| 26.34     | 57                     | 2276                | 13.6                | 38                     | 2383                | 9.5                 | 19                     | 2560                | 5.1                 | 6000                      |                         |
| 31.02     | 48.4                   | 2134                | 10.8                | 32.2                   | 2342                | 7.9                 | 16.1                   | 2639                | 4.5                 | 6000                      |                         |
| 36        | 41.7                   | 2358                | 10.3                | 27.8                   | 2463                | 7.2                 | 13.9                   | 2640                | 3.8                 | 6000                      |                         |
| 41.64     | 36                     | 2325                | 8.8                 | 24                     | 2446                | 6.2                 | 12                     | 2678                | 3.4                 | 6000                      |                         |
| 43.5      | 34.5                   | 2027                | 7.3                 | 23                     | 2119                | 5.1                 | 11.5                   | 2276                | 2.7                 | 6000                      |                         |
| 50.32     | 29.8                   | 2060                | 6.4                 | 19.9                   | 2152                | 4.5                 | 9.9                    | 2309                | 2.4                 | 6000                      |                         |
| JRP3N...1 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                         |
| 59.06     | 25.4                   | 2765                | 7.4                 | 16.9                   | 2879                | 5.1                 | 8.5                    | 3076                | 2.7                 | 6000                      | 8                       |
| 61.28     | 24.5                   | 2640                | 6.8                 | 16.3                   | 2982                | 5.1                 | 8.2                    | 3671                | 3.1                 | 6000                      |                         |
| 70.98     | 21.1                   | 2457                | 5.4                 | 14.1                   | 2775                | 4.1                 | 7                      | 3206                | 2.4                 | 6000                      |                         |
| 83.76     | 17.9                   | 2900                | 5.4                 | 11.9                   | 3275                | 4.1                 | 6                      | 3783                | 2.4                 | 6000                      |                         |
| 89.03     | 16.8                   | 2591                | 4.6                 | 11.2                   | 2695                | 3.2                 | 5.6                    | 2876                | 1.7                 | 6000                      |                         |
| 96.88     | 15.5                   | 3029                | 4.9                 | 10.3                   | 3421                | 3.7                 | 5.2                    | 3803                | 2.1                 | 6000                      |                         |
| 108.8     | 13.8                   | 3051                | 4.4                 | 9.2                    | 3320                | 3.2                 | 4.6                    | 3410                | 1.6                 | 6000                      |                         |
| 124.2     | 12.1                   | 2447                | 3.1                 | 8.1                    | 2528                | 2.1                 | 4                      | 2658                | 1.1                 | 6000                      |                         |
| 146.6     | 10.2                   | 2888                | 3.1                 | 6.8                    | 2983                | 2.1                 | 3.4                    | 3137                | 1.1                 | 6000                      |                         |
| 157.5     | 9.5                    | 3042                | 3                   | 6.3                    | 3179                | 2.1                 | 3.2                    | 3695                | 1.2                 | 6000                      |                         |
| 186.1     | 8.1                    | 2901                | 2.4                 | 5.4                    | 3046                | 1.7                 | 2.7                    | 3292                | 0.93                | 6000                      |                         |
| 198.9     | 7.5                    | 2115                | 1.7                 | 5                      | 2221                | 1.2                 | 2.5                    | 2401                | 0.63                | 6000                      |                         |
| 215.3     | 7                      | 2953                | 2.2                 | 4.6                    | 3098                | 1.5                 | 2.3                    | 3343                | 0.81                | 6000                      |                         |
| 249       | 6                      | 2648                | 1.7                 | 4                      | 2780                | 1.2                 | 2                      | 3006                | 0.63                | 6000                      |                         |
| 289       | 5.2                    | 2924                | 1.6                 | 3.5                    | 3197                | 1.2                 | 1.7                    | 3489                | 0.63                | 6000                      |                         |
| 325.7     | 4.6                    | 3101                | 1.5                 | 3.1                    | 3244                | 1                   | 1.5                    | 3492                | 0.56                | 6000                      |                         |
| JRP4N...1 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                         |
| 367.7     | 4.1                    | 3835                | 1.6                 | 2.7                    | 3888                | 1.1                 | 1.4                    | 3972                | 0.57                | 6000                      | 4                       |
| 404.7     | 3.7                    | 2928                | 1.1                 | 2.5                    | 2966                | 0.77                | 1.2                    | 3029                | 0.39                | 6000                      |                         |
| 460.3     | 3.3                    | 3674                | 1.3                 | 2.2                    | 4000                | 0.91                | 1.1                    | 4605                | 0.52                | 6000                      |                         |
| 495.4     | 3                      | 3874                | 1.2                 | 2                      | 3925                | 0.83                | 1                      | 4008                | 0.42                | 6000                      |                         |
| 581.3     | 2.6                    | 3894                | 1.1                 | 1.7                    | 3944                | 0.71                | 0.86                   | 4027                | 0.36                | 6000                      |                         |
| 643.5     | 2.3                    | 3907                | 0.95                | 1.6                    | 3956                | 0.64                | 0.78                   | 4039                | 0.33                | 6000                      |                         |
| 691.5     | 2.2                    | 4002                | 0.91                | 1.4                    | 4348                | 0.66                | 0.72                   | 4494                | 0.34                | 6000                      |                         |
| 817.1     | 1.8                    | 4142                | 0.8                 | 1.2                    | 4424                | 0.57                | 0.61                   | 4516                | 0.29                | 6000                      |                         |
| 879.4     | 1.7                    | 3945                | 0.71                | 1.1                    | 3994                | 0.48                | 0.57                   | 4075                | 0.24                | 6000                      |                         |
| 1017      | 1.5                    | 3963                | 0.61                | 0.98                   | 4011                | 0.41                | 0.49                   | 4092                | 0.21                | 6000                      |                         |
| 1142      | 1.3                    | 3550                | 0.49                | 0.88                   | 3593                | 0.33                | 0.44                   | 3666                | 0.17                | 6000                      |                         |
| 1304      | 1.2                    | 2886                | 0.35                | 0.77                   | 2961                | 0.24                | 0.38                   | 3092                | 0.12                | 6000                      |                         |
| 1430      | 1                      | 4445                | 0.49                | 0.7                    | 4498                | 0.33                | 0.35                   | 4589                | 0.17                | 6000                      |                         |
| 1539      | 0.97                   | 3406                | 0.35                | 0.65                   | 3494                | 0.24                | 0.32                   | 3649                | 0.12                | 6000                      |                         |
| 1806      | 0.83                   | 3248                | 0.28                | 0.55                   | 3304                | 0.19                | 0.28                   | 3607                | 0.11                | 6000                      |                         |
| 1999      | 0.75                   | 3610                | 0.28                | 0.5                    | 3652                | 0.19                | 0.25                   | 3969                | 0.1                 | 6000                      |                         |
| 2268      | 0.66                   | 4502                | 0.31                | 0.44                   | 4781                | 0.22                | 0.22                   | 5124                | 0.12                | 6000                      |                         |
| 2502      | 0.6                    | 4519                | 0.28                | 0.4                    | 4572                | 0.19                | 0.2                    | 4969                | 0.1                 | 6000                      |                         |
| 2904      | 0.52                   | 4726                | 0.26                | 0.34                   | 5112                | 0.18                | 0.17                   | 5767                | 0.1                 | 6000                      |                         |
| 3170      | 0.47                   | 4042                | 0.2                 | 0.32                   | 4382                | 0.15                | 0.16                   | 5013                | 0.08                | 6000                      |                         |

径向力（输出轴） Radial force (Output shafts)

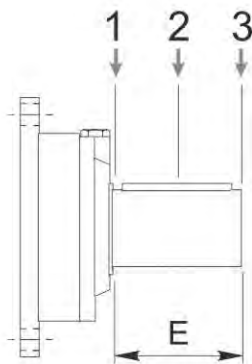


轴向力（输出轴） Axial force (Output shafts)



|           | 法兰安装/Flange-mounted |
|-----------|---------------------|
| Fa min(N) | 45000               |
| Fa max(N) | 80000               |

径向力（输入轴） Radial force (Input shafts)



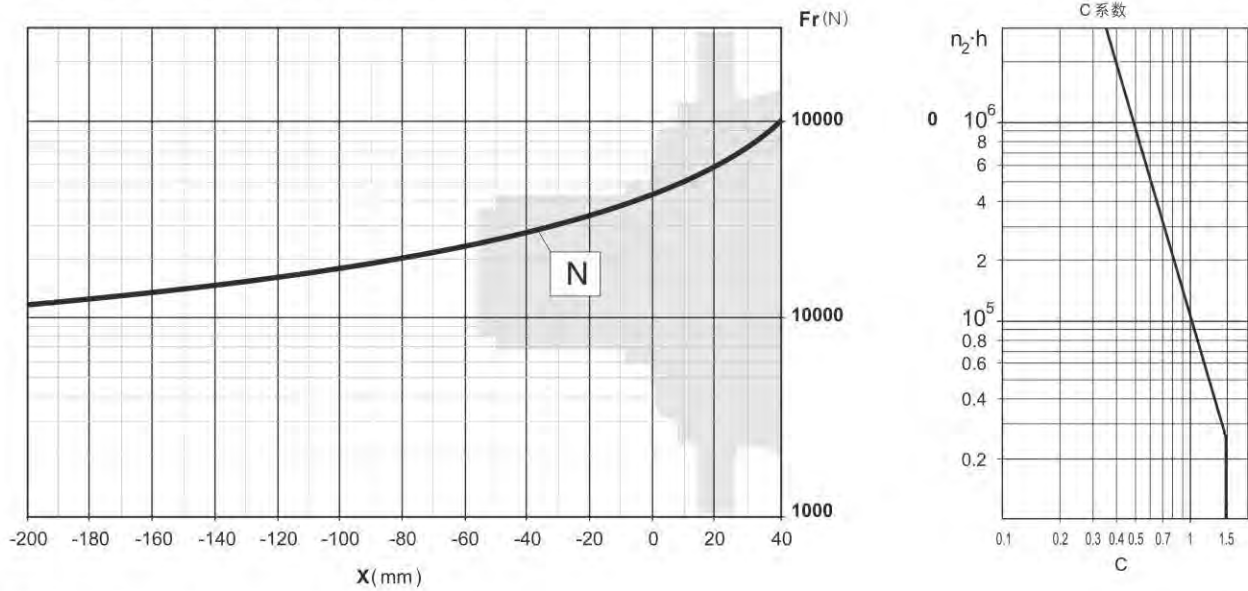
|     | E  | Fr                 |      |      |                    |      |     |
|-----|----|--------------------|------|------|--------------------|------|-----|
|     |    | $n_1 \cdot h=10^7$ |      |      | $n_1 \cdot h=10^8$ |      |     |
|     |    | 1                  | 2    | 3    | 1                  | 2    | 3   |
| AD2 | 58 | 3000               | 2000 | 1500 | 1400               | 1000 | 700 |

JRP...2

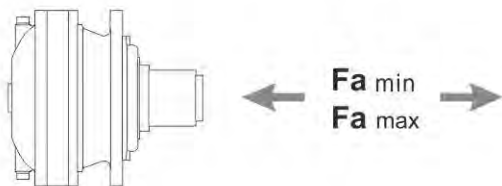


| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>r</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP1N...2 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.5       | 429                    | 1565                | 70                  | 286                    | 1767                | 53                  | 143                    | 2175                | 32.6                | 6000                      | 20                     |
| 4.13      | 363                    | 1617                | 62                  | 242                    | 1827                | 46.3                | 121                    | 2249                | 28.5                | 6000                      |                        |
| 5.17      | 290                    | 1682                | 51                  | 193                    | 1900                | 38.5                | 97                     | 2339                | 23.7                | 6000                      |                        |
| 6         | 250                    | 1732                | 45.4                | 167                    | 1956                | 34.1                | 83                     | 2173                | 19                  | 6000                      |                        |
| 7.25      | 207                    | 1582                | 34.3                | 138                    | 1695                | 24.5                | 69                     | 1868                | 13.5                | 6000                      |                        |
| JRP2N...2 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 10.78     | 139                    | 2193                | 32                  | 93                     | 2476                | 24.1                | 46.4                   | 3049                | 14.8                | 6000                      | 15                     |
| 12.25     | 122                    | 2278                | 29.2                | 82                     | 2573                | 22                  | 40.8                   | 3168                | 13.5                | 6000                      |                        |
| 14.46     | 104                    | 2394                | 26                  | 69                     | 2704                | 19.6                | 34.6                   | 3329                | 12.1                | 6000                      |                        |
| 17.06     | 88                     | 2475                | 22.8                | 59                     | 2795                | 17.2                | 29.3                   | 3393                | 10.4                | 6000                      |                        |
| 18.1      | 83                     | 2561                | 22.2                | 55                     | 2893                | 16.7                | 27.6                   | 3562                | 10.3                | 6000                      |                        |
| 21        | 71                     | 2678                | 20                  | 47.6                   | 3025                | 15.1                | 23.8                   | 3724                | 9.3                 | 6000                      |                        |
| 25.38     | 59                     | 2835                | 17.6                | 39.4                   | 3202                | 13.2                | 19.7                   | 3553                | 7.3                 | 6000                      |                        |
| 29.94     | 50                     | 2931                | 15.4                | 33.4                   | 3310                | 11.6                | 16.7                   | 3583                | 6.3                 | 6000                      |                        |
| 31.02     | 48.4                   | 2582                | 13.1                | 32.2                   | 2698                | 9.1                 | 16.1                   | 2893                | 4.9                 | 6000                      |                        |
| 36        | 41.7                   | 2358                | 10.3                | 27.8                   | 2463                | 7.2                 | 13.9                   | 2640                | 3.8                 | 6000                      |                        |
| 43.5      | 34.5                   | 2407                | 8.7                 | 23                     | 2511                | 6                   | 11.5                   | 2689                | 3.2                 | 6000                      |                        |
| 52.56     | 28.5                   | 2070                | 6.2                 | 19                     | 2161                | 4.3                 | 9.5                    | 2319                | 2.3                 | 6000                      |                        |
| JRP3N...2 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 53.78     | 27.9                   | 3552                | 10.4                | 18.6                   | 3961                | 7.7                 | 9.3                    | 4314                | 4.2                 | 6000                      | 10                     |
| 63.46     | 23.6                   | 3732                | 9.2                 | 15.8                   | 4022                | 6.6                 | 7.9                    | 4469                | 3.7                 | 6000                      |                        |
| 73.5      | 20.4                   | 3901                | 8.3                 | 13.6                   | 4077                | 5.8                 | 6.8                    | 4609                | 3.3                 | 6000                      |                        |
| 79.44     | 18.9                   | 3955                | 7.8                 | 12.6                   | 4106                | 5.4                 | 6.3                    | 4684                | 3.1                 | 6000                      |                        |
| 92.19     | 16.3                   | 4010                | 6.8                 | 10.8                   | 4174                | 4.7                 | 5.4                    | 4831                | 2.7                 | 6000                      |                        |
| 100.3     | 15                     | 4042                | 6.3                 | 10                     | 4250                | 4.4                 | 5                      | 4915                | 2.6                 | 6000                      |                        |
| 108.6     | 13.8                   | 4071                | 5.9                 | 9.2                    | 4323                | 4.2                 | 4.6                    | 4996                | 2.4                 | 6000                      |                        |
| 125.6     | 11.9                   | 4125                | 5.2                 | 8                      | 4459                | 3.7                 | 4                      | 5146                | 2.1                 | 6000                      |                        |
| 145.7     | 10.3                   | 4221                | 4.6                 | 6.9                    | 4601                | 3.3                 | 3.4                    | 5088                | 1.8                 | 6000                      |                        |
| 152.3     | 9.9                    | 3846                | 4                   | 6.6                    | 4014                | 2.8                 | 3.3                    | 4302                | 1.5                 | 6000                      |                        |
| 176.1     | 8.5                    | 3907                | 3.5                 | 5.7                    | 4074                | 2.4                 | 2.8                    | 4363                | 1.3                 | 6000                      |                        |
| 207.8     | 7.2                    | 3970                | 3                   | 4.8                    | 4326                | 2.2                 | 2.4                    | 4941                | 1.2                 | 6000                      |                        |
| 224.2     | 6.7                    | 4035                | 2.8                 | 4.5                    | 4395                | 2.1                 | 2.2                    | 4798                | 1.1                 | 6000                      |                        |
| 260.2     | 5.8                    | 4165                | 2.5                 | 3.8                    | 4532                | 1.8                 | 1.9                    | 4970                | 1                   | 6000                      |                        |
| 280.7     | 5.3                    | 3302                | 1.8                 | 3.6                    | 3605                | 1.3                 | 1.8                    | 4167                | 0.78                | 6000                      |                        |
| 314.4     | 4.8                    | 4334                | 2.2                 | 3.2                    | 4711                | 1.6                 | 1.6                    | 5022                | 0.84                | 6000                      |                        |
| 364.8     | 4.1                    | 2542                | 1.1                 | 2.7                    | 2788                | 0.8                 | 1.4                    | 3244                | 0.47                | 6000                      |                        |
| JRP4N...2 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 404.7     | 3.7                    | 5051                | 2                   | 2.5                    | 5245                | 1.4                 | 1.2                    | 5615                | 0.73                | 6000                      | 6                      |
| 441       | 3.4                    | 5312                | 1.9                 | 2.3                    | 5418                | 1.3                 | 1.1                    | 5684                | 0.68                | 6000                      |                        |
| 510.1     | 2.9                    | 5382                | 1.7                 | 2                      | 5439                | 1.1                 | 0.98                   | 5803                | 0.6                 | 6000                      |                        |
| 551.3     | 2.7                    | 5393                | 1.5                 | 1.8                    | 5449                | 1                   | 0.91                   | 5867                | 0.56                | 6000                      |                        |
| 639.8     | 2.3                    | 5270                | 1.3                 | 1.6                    | 5470                | 0.9                 | 0.78                   | 5992                | 0.49                | 6000                      |                        |
| 696.2     | 2.2                    | 5425                | 1.2                 | 1.4                    | 5495                | 0.83                | 0.72                   | 6000                | 0.45                | 6000                      |                        |
| 773.1     | 1.9                    | 4524                | 0.92                | 1.3                    | 4698                | 0.64                | 0.65                   | 5463                | 0.37                | 6000                      |                        |
| 913.5     | 1.6                    | 4595                | 0.79                | 1.1                    | 4866                | 0.56                | 0.55                   | 5662                | 0.33                | 6000                      |                        |
| 1011      | 1.5                    | 5477                | 0.85                | 0.99                   | 5796                | 0.6                 | 0.49                   | 6000                | 0.31                | 6000                      |                        |
| 1140      | 1.3                    | 5565                | 0.77                | 0.88                   | 5895                | 0.54                | 0.44                   | 6000                | 0.28                | 6000                      |                        |
| 1222      | 1.2                    | 4743                | 0.61                | 0.82                   | 5190                | 0.45                | 0.41                   | 6021                | 0.26                | 6000                      |                        |
| 1442      | 1                      | 5337                | 0.58                | 0.69                   | 5652                | 0.41                | 0.35                   | 6226                | 0.23                | 6000                      |                        |
| 1599      | 0.94                   | 5036                | 0.5                 | 0.63                   | 5502                | 0.36                | 0.31                   | 6366                | 0.21                | 6000                      |                        |
| 1849      | 0.81                   | 5200                | 0.44                | 0.54                   | 5676                | 0.32                | 0.27                   | 6559                | 0.19                | 6000                      |                        |
| 1995      | 0.75                   | 4415                | 0.35                | 0.5                    | 4530                | 0.24                | 0.25                   | 4730                | 0.12                | 6000                      |                        |
| 2315      | 0.65                   | 5124                | 0.35                | 0.43                   | 5257                | 0.24                | 0.22                   | 5489                | 0.12                | 6000                      |                        |
| 2623      | 0.57                   | 4633                | 0.28                | 0.38                   | 5013                | 0.2                 | 0.19                   | 5720                | 0.11                | 6000                      |                        |
| 2798      | 0.54                   | 5687                | 0.32                | 0.36                   | 6000                | 0.23                | 0.18                   | 6000                | 0.11                | 6000                      |                        |
| 3301      | 0.45                   | 5997                | 0.29                | 0.3                    | 6000                | 0.19                | 0.15                   | 6000                | 0.09                | 6000                      |                        |

径向力（输出轴） Radial force (Output shafts)

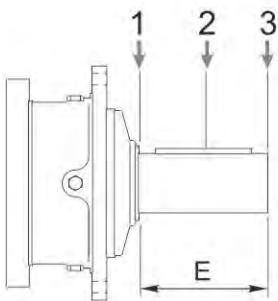


轴向力（输出轴） Axial force (Output shafts)

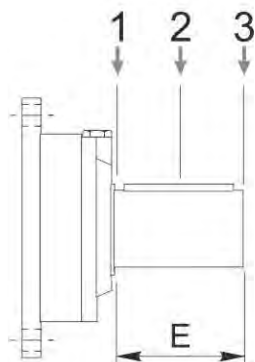


|           | 法兰安装/Flange-mounted |
|-----------|---------------------|
| Fa min(N) | 35000               |
| Fa max(N) | 60000               |

径向力（输入轴） Radial force (Input shafts)



|      | E   | Fr                   |      |      |                      |      |      |
|------|-----|----------------------|------|------|----------------------|------|------|
|      |     | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |      |
|      |     | 1                    | 2    | 3    | 1                    | 2    | 3    |
| ADM1 | 105 | 10000                | 6000 | 4000 | 5000                 | 3000 | 2000 |
| ADM2 | 105 | 14000                | 8800 | 6400 | 7000                 | 4400 | 3200 |



|     | E  | Fr                   |      |      |                      |      |     |
|-----|----|----------------------|------|------|----------------------|------|-----|
|     |    | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |     |
|     |    | 1                    | 2    | 3    | 1                    | 2    | 3   |
| AD2 | 58 | 3000                 | 2000 | 1500 | 1400                 | 1000 | 700 |

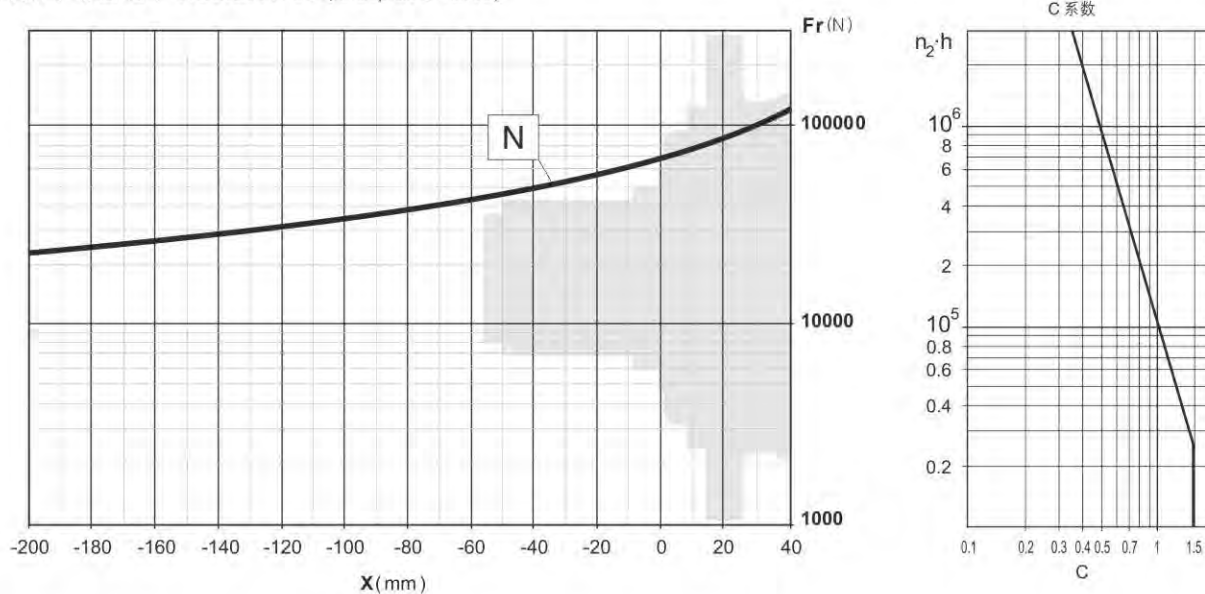
JRP...3



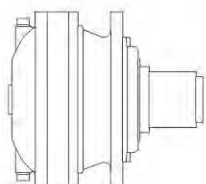
| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>T</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>2</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP1N...3 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.5       | 429                    | 1565                | 70                  | 286                    | 1767                | 53                  | 143                    | 2175                | 32.6                | 6000                      | 20                     |
| 4.13      | 363                    | 1617                | 62                  | 242                    | 1827                | 46.3                | 121                    | 2249                | 28.5                | 6000                      |                        |
| 5.17      | 290                    | 1682                | 51                  | 193                    | 1900                | 38.5                | 97                     | 2339                | 23.7                | 6000                      |                        |
| 6         | 250                    | 1732                | 45.4                | 167                    | 1956                | 34.1                | 83                     | 2173                | 19                  | 6000                      |                        |
| 7.25      | 207                    | 1582                | 34.3                | 138                    | 1695                | 24.5                | 69                     | 1868                | 13.5                | 6000                      |                        |
| JRP2N...3 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 10.78     | 139                    | 2193                | 32                  | 93                     | 2476                | 24.1                | 46.4                   | 3049                | 14.8                | 6000                      | 15                     |
| 12.25     | 122                    | 2278                | 29.2                | 82                     | 2573                | 22                  | 40.8                   | 3168                | 13.5                | 6000                      |                        |
| 14.46     | 104                    | 2394                | 26                  | 69                     | 2704                | 19.6                | 34.6                   | 3329                | 12.1                | 6000                      |                        |
| 17.06     | 88                     | 2475                | 22.8                | 59                     | 2795                | 17.2                | 29.3                   | 3393                | 10.4                | 6000                      |                        |
| 18.1      | 83                     | 2561                | 22.2                | 55                     | 2893                | 16.7                | 27.6                   | 3562                | 10.3                | 6000                      |                        |
| 21        | 71                     | 2678                | 20                  | 47.6                   | 3025                | 15.1                | 23.8                   | 3724                | 9.3                 | 6000                      |                        |
| 25.38     | 59                     | 2835                | 17.6                | 39.4                   | 3202                | 13.2                | 19.7                   | 3553                | 7.3                 | 6000                      |                        |
| 29.94     | 50                     | 2931                | 15.4                | 33.4                   | 3310                | 11.6                | 16.7                   | 3583                | 6.3                 | 6000                      |                        |
| 31.02     | 48.4                   | 2582                | 13.1                | 32.2                   | 2698                | 9.1                 | 16.1                   | 2893                | 4.9                 | 6000                      |                        |
| 36        | 41.7                   | 2358                | 10.3                | 27.8                   | 2463                | 7.2                 | 13.9                   | 2640                | 3.8                 | 6000                      |                        |
| 43.5      | 34.5                   | 2407                | 8.7                 | 23                     | 2511                | 6                   | 11.5                   | 2689                | 3.2                 | 6000                      |                        |
| 52.56     | 28.5                   | 2070                | 6.2                 | 19                     | 2161                | 4.3                 | 9.5                    | 2319                | 2.3                 | 6000                      |                        |
| JRP3N...3 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 53.78     | 27.9                   | 3552                | 10.4                | 18.6                   | 3961                | 7.7                 | 9.3                    | 4314                | 4.2                 | 6000                      | 10                     |
| 63.46     | 23.6                   | 3732                | 9.2                 | 15.8                   | 4022                | 6.6                 | 7.9                    | 4469                | 3.7                 | 6000                      |                        |
| 73.5      | 20.4                   | 3901                | 8.3                 | 13.6                   | 4077                | 5.8                 | 6.8                    | 4609                | 3.3                 | 6000                      |                        |
| 79.44     | 18.9                   | 3955                | 7.8                 | 12.6                   | 4106                | 5.4                 | 6.3                    | 4684                | 3.1                 | 6000                      |                        |
| 92.19     | 16.3                   | 4010                | 6.8                 | 10.8                   | 4174                | 4.7                 | 5.4                    | 4831                | 2.7                 | 6000                      |                        |
| 100.3     | 15                     | 4042                | 6.3                 | 10                     | 4250                | 4.4                 | 5                      | 4915                | 2.6                 | 6000                      |                        |
| 108.6     | 13.8                   | 4071                | 5.9                 | 9.2                    | 4323                | 4.2                 | 4.6                    | 4996                | 2.4                 | 6000                      |                        |
| 125.6     | 11.9                   | 4125                | 5.2                 | 8                      | 4459                | 3.7                 | 4                      | 5146                | 2.1                 | 6000                      |                        |
| 145.7     | 10.3                   | 4221                | 4.6                 | 6.9                    | 4601                | 3.3                 | 3.4                    | 5088                | 1.8                 | 6000                      |                        |
| 152.3     | 9.9                    | 3846                | 4                   | 6.6                    | 4014                | 2.8                 | 3.3                    | 4302                | 1.5                 | 6000                      |                        |
| 176.1     | 8.5                    | 3907                | 3.5                 | 5.7                    | 4074                | 2.4                 | 2.8                    | 4363                | 1.3                 | 6000                      |                        |
| 207.8     | 7.2                    | 3970                | 3                   | 4.8                    | 4326                | 2.2                 | 2.4                    | 4941                | 1.2                 | 6000                      |                        |
| 224.2     | 6.7                    | 4035                | 2.8                 | 4.5                    | 4395                | 2.1                 | 2.2                    | 4798                | 1.1                 | 6000                      |                        |
| 260.2     | 5.8                    | 4165                | 2.5                 | 3.8                    | 4532                | 1.8                 | 1.9                    | 4970                | 1                   | 6000                      |                        |
| 280.7     | 5.3                    | 3302                | 1.8                 | 3.6                    | 3605                | 1.3                 | 1.8                    | 4167                | 0.78                | 6000                      |                        |
| 314.4     | 4.8                    | 4334                | 2.2                 | 3.2                    | 4711                | 1.6                 | 1.6                    | 5022                | 0.84                | 6000                      |                        |
| 364.8     | 4.1                    | 2542                | 1.1                 | 2.7                    | 2788                | 0.8                 | 1.4                    | 3244                | 0.47                | 6000                      |                        |
| JRP4N...3 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 404.7     | 3.7                    | 5051                | 2                   | 2.5                    | 5245                | 1.4                 | 1.2                    | 5615                | 0.73                | 6000                      | 6                      |
| 441       | 3.4                    | 5312                | 1.9                 | 2.3                    | 5418                | 1.3                 | 1.1                    | 5684                | 0.68                | 6000                      |                        |
| 510.1     | 2.9                    | 5382                | 1.7                 | 2                      | 5439                | 1.1                 | 0.98                   | 5803                | 0.6                 | 6000                      |                        |
| 551.3     | 2.7                    | 5393                | 1.5                 | 1.8                    | 5449                | 1                   | 0.91                   | 5867                | 0.56                | 6000                      |                        |
| 639.8     | 2.3                    | 5270                | 1.3                 | 1.6                    | 5470                | 0.9                 | 0.78                   | 5992                | 0.49                | 6000                      |                        |
| 696.2     | 2.2                    | 5425                | 1.2                 | 1.4                    | 5495                | 0.83                | 0.72                   | 6000                | 0.45                | 6000                      |                        |
| 773.1     | 1.9                    | 4524                | 0.92                | 1.3                    | 4698                | 0.64                | 0.65                   | 5463                | 0.37                | 6000                      |                        |
| 913.5     | 1.6                    | 4595                | 0.79                | 1.1                    | 4866                | 0.56                | 0.55                   | 5662                | 0.33                | 6000                      |                        |
| 1011      | 1.5                    | 5477                | 0.85                | 0.99                   | 5796                | 0.6                 | 0.49                   | 6000                | 0.31                | 6000                      |                        |
| 1140      | 1.3                    | 5565                | 0.77                | 0.88                   | 5895                | 0.54                | 0.44                   | 6000                | 0.28                | 6000                      |                        |
| 1222      | 1.2                    | 4743                | 0.61                | 0.82                   | 5190                | 0.45                | 0.41                   | 6021                | 0.26                | 6000                      |                        |
| 1442      | 1                      | 5337                | 0.58                | 0.69                   | 5652                | 0.41                | 0.35                   | 6226                | 0.23                | 6000                      |                        |
| 1599      | 0.94                   | 5036                | 0.5                 | 0.63                   | 5502                | 0.36                | 0.31                   | 6366                | 0.21                | 6000                      |                        |
| 1849      | 0.81                   | 5200                | 0.44                | 0.54                   | 5676                | 0.32                | 0.27                   | 6559                | 0.19                | 6000                      |                        |
| 1995      | 0.75                   | 4415                | 0.35                | 0.5                    | 4530                | 0.24                | 0.25                   | 4730                | 0.12                | 6000                      |                        |
| 2315      | 0.65                   | 5124                | 0.35                | 0.43                   | 5257                | 0.24                | 0.22                   | 5489                | 0.12                | 6000                      |                        |
| 2623      | 0.57                   | 4633                | 0.28                | 0.38                   | 5013                | 0.2                 | 0.19                   | 5720                | 0.11                | 6000                      |                        |
| 2798      | 0.54                   | 5687                | 0.32                | 0.36                   | 6000                | 0.23                | 0.18                   | 6000                | 0.11                | 6000                      |                        |
| 3301      | 0.45                   | 5997                | 0.29                | 0.3                    | 6000                | 0.19                | 0.15                   | 6000                | 0.09                | 6000                      |                        |



径向力（输出轴） Radial force (Output shafts)



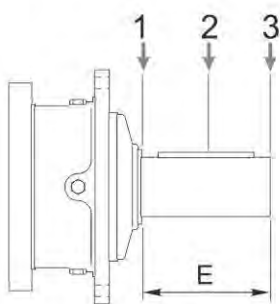
轴向力（输出轴） Axial force (Output shafts)



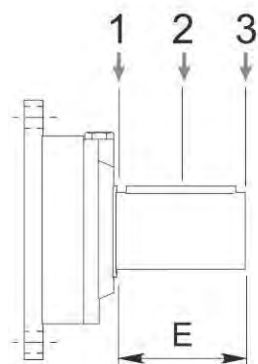
$Fa_{min}$   
 $Fa_{max}$

|               | 法兰安装/Flange-mounted |
|---------------|---------------------|
| $Fa_{min}(N)$ | 45000               |
| $Fa_{max}(N)$ | 80000               |

径向力（输入轴） Radial force (Input shafts)



|      | E   | Fr                   |      |      |                      |      |      |
|------|-----|----------------------|------|------|----------------------|------|------|
|      |     | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |      |
|      |     | 1                    | 2    | 3    | 1                    | 2    | 3    |
| ADM1 | 105 | 10000                | 6000 | 4000 | 5000                 | 3000 | 2000 |
| ADM2 | 105 | 14000                | 8800 | 6400 | 7000                 | 4400 | 3200 |



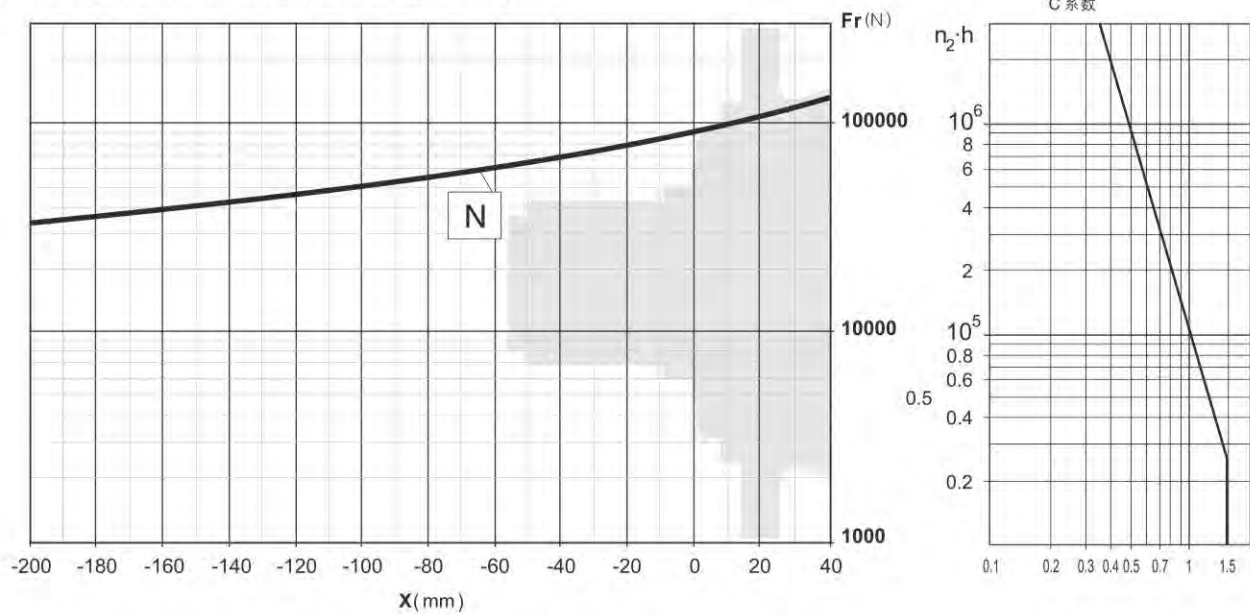
|     | E  | Fr                   |      |      |                      |      |     |
|-----|----|----------------------|------|------|----------------------|------|-----|
|     |    | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |     |
|     |    | 1                    | 2    | 3    | 1                    | 2    | 3   |
| AD2 | 58 | 3000                 | 2000 | 1500 | 1400                 | 1000 | 700 |

JRP...4

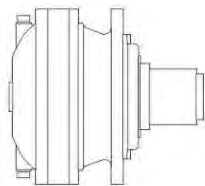


| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>amax</sub><br>(Nm) | P <sub>r</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) | n <sub>e</sub> (r/min) | T <sub>e</sub> (Nm) | P <sub>e</sub> (kW) |                           |                        |
| JRP1N...4 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.5       | 429                    | 2241                | 101                 | 286                    | 2531                | 76                  | 143                    | 3116                | 46.6                | 10000                     | 30                     |
| 3.86      | 389                    | 2307                | 94                  | 259                    | 2605                | 71                  | 130                    | 3207                | 43.5                | 10000                     |                        |
| 4.33      | 346                    | 2346                | 85                  | 231                    | 2650                | 64                  | 115                    | 3262                | 39.5                | 10000                     |                        |
| 5         | 300                    | 2401                | 75                  | 200                    | 2712                | 57                  | 100                    | 3338                | 35                  | 10000                     |                        |
| 6         | 250                    | 2502                | 66                  | 167                    | 2826                | 49.3                | 83                     | 3480                | 30.4                | 10000                     |                        |
| JRP2N...4 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 10.78     | 139                    | 3110                | 45.3                | 93                     | 3512                | 34.1                | 46.4                   | 4324                | 21                  | 9800                      | 18                     |
| 12.25     | 122                    | 3264                | 41.9                | 82                     | 3686                | 31.5                | 40.8                   | 4538                | 19.4                | 9800                      |                        |
| 13.51     | 111                    | 3359                | 39.1                | 74                     | 3794                | 29.4                | 37                     | 4671                | 18.1                | 10000                     |                        |
| 15.16     | 99                     | 3417                | 35.4                | 66                     | 3859                | 26.7                | 33                     | 4751                | 16.4                | 10000                     |                        |
| 17.88     | 84                     | 3590                | 31.5                | 56                     | 4055                | 23.8                | 28                     | 4992                | 14.6                | 10000                     |                        |
| 20.65     | 73                     | 3674                | 28                  | 48.4                   | 4150                | 21                  | 24.2                   | 5109                | 13                  | 10000                     |                        |
| 22.39     | 67                     | 3841                | 27                  | 44.7                   | 4338                | 20.3                | 22.3                   | 5340                | 12.5                | 10000                     |                        |
| 25.98     | 58                     | 4016                | 24.3                | 38.5                   | 4536                | 18.3                | 19.2                   | 5140                | 10.4                | 10000                     |                        |
| 27.99     | 54                     | 3334                | 18.7                | 35.7                   | 3567                | 13.3                | 17.9                   | 3918                | 7.3                 | 10000                     |                        |
| 30        | 50                     | 4110                | 21.5                | 33.3                   | 4642                | 16.2                | 16.7                   | 5479                | 9.6                 | 10000                     |                        |
| 36.25     | 41.4                   | 4319                | 18.7                | 27.6                   | 4620                | 13.3                | 13.8                   | 5075                | 7.3                 | 10000                     |                        |
| 43.5      | 34.5                   | 3971                | 14.3                | 23                     | 4137                | 10                  | 11.5                   | 4422                | 5.3                 | 10000                     |                        |
| JRP3N...4 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 51.22     | 29.3                   | 4924                | 15.1                | 19.5                   | 5561                | 11.4                | 9.8                    | 6150                | 6.3                 | 10000                     | 14                     |
| 53.78     | 27.9                   | 5087                | 14.9                | 18.6                   | 5745                | 11.2                | 9.3                    | 7073                | 6.9                 | 10000                     |                        |
| 60.44     | 24.8                   | 5174                | 13.4                | 16.5                   | 5844                | 10.1                | 8.3                    | 6246                | 5.4                 | 10000                     |                        |
| 73.5      | 20.4                   | 5058                | 10.8                | 13.6                   | 5549                | 7.9                 | 6.8                    | 6254                | 4.5                 | 10000                     |                        |
| 78.51     | 19.1                   | 5597                | 11.2                | 12.7                   | 6005                | 8                   | 6.4                    | 6603                | 4.4                 | 10000                     |                        |
| 90.93     | 16.5                   | 5849                | 10.1                | 11                     | 6085                | 7                   | 5.5                    | 6810                | 3.9                 | 10000                     |                        |
| 98.27     | 15.3                   | 5841                | 9.3                 | 10.2                   | 6112                | 6.5                 | 5.1                    | 6560                | 3.5                 | 10000                     |                        |
| 110.6     | 13.6                   | 6079                | 8.6                 | 9                      | 6361                | 6                   | 4.5                    | 7297                | 3.5                 | 10000                     |                        |
| 123.9     | 12.1                   | 5642                | 7.2                 | 8.1                    | 5851                | 4.9                 | 4                      | 6651                | 2.8                 | 10000                     |                        |
| 134.3     | 11.2                   | 6051                | 7.1                 | 7.4                    | 6315                | 4.9                 | 3.7                    | 6760                | 2.6                 | 10000                     |                        |
| 155.1     | 9.7                    | 5757                | 5.8                 | 6.4                    | 6024                | 4.1                 | 3.2                    | 6968                | 2.4                 | 10000                     |                        |
| 180       | 8.3                    | 5834                | 5.1                 | 5.6                    | 6219                | 3.6                 | 2.8                    | 7170                | 2.1                 | 10000                     |                        |
| 208.2     | 7.2                    | 5910                | 4.5                 | 4.8                    | 6413                | 3.2                 | 2.4                    | 7269                | 1.8                 | 10000                     |                        |
| 217.5     | 6.9                    | 5495                | 4                   | 4.6                    | 5735                | 2.8                 | 2.3                    | 6146                | 1.5                 | 10000                     |                        |
| 251.6     | 6                      | 5581                | 3.5                 | 4                      | 5821                | 2.4                 | 2                      | 6233                | 1.3                 | 10000                     |                        |
| 272.8     | 5.5                    | 5375                | 3.1                 | 3.7                    | 5552                | 2.1                 | 1.8                    | 5838                | 1.1                 | 10000                     |                        |
| JRP4N...4 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 322.7     | 4.6                    | 7604                | 3.7                 | 3.1                    | 7906                | 2.6                 | 1.5                    | 9121                | 1.5                 | 10000                     | 8                      |
| 373.2     | 4                      | 7704                | 3.2                 | 2.7                    | 8152                | 2.3                 | 1.3                    | 9392                | 1.3                 | 10000                     |                        |
| 411.6     | 3.6                    | 7683                | 2.9                 | 2.4                    | 8332                | 2.1                 | 1.2                    | 9537                | 1.2                 | 10000                     |                        |
| 441       | 3.4                    | 6873                | 2.4                 | 2.3                    | 7218                | 1.7                 | 1.1                    | 7800                | 0.93                | 10000                     |                        |
| 510.1     | 2.9                    | 6998                | 2.2                 | 2                      | 7341                | 1.5                 | 0.98                   | 7923                | 0.81                | 10000                     |                        |
| 555.3     | 2.7                    | 7619                | 2.2                 | 1.8                    | 7992                | 1.5                 | 0.9                    | 8626                | 0.81                | 10000                     |                        |
| 631.1     | 2.4                    | 8077                | 2                   | 1.6                    | 8750                | 1.5                 | 0.79                   | 9802                | 0.81                | 10000                     |                        |
| 696.2     | 2.2                    | 7397                | 1.7                 | 1.4                    | 7774                | 1.2                 | 0.72                   | 8406                | 0.63                | 10000                     |                        |
| 771.8     | 1.9                    | 7348                | 1.5                 | 1.3                    | 7688                | 1                   | 0.65                   | 8274                | 0.56                | 10000                     |                        |
| 892.7     | 1.7                    | 6595                | 1.2                 | 1.1                    | 6907                | 0.81                | 0.56                   | 7448                | 0.44                | 10000                     |                        |
| 994.6     | 1.5                    | 8119                | 1.3                 | 1                      | 8789                | 0.93                | 0.5                    | 10000               | 0.52                | 10000                     |                        |
| 1104      | 1.4                    | 8159                | 1.2                 | 0.91                   | 8545                | 0.81                | 0.45                   | 9215                | 0.44                | 10000                     |                        |
| 1303      | 1.2                    | 9309                | 1.1                 | 0.77                   | 10000               | 0.81                | 0.38                   | 10000               | 0.4                 | 10000                     |                        |
| 1445      | 1                      | 7916                | 0.86                | 0.69                   | 8637                | 0.63                | 0.35                   | 9973                | 0.36                | 10000                     |                        |
| 1631      | 0.92                   | 8185                | 0.79                | 0.61                   | 8905                | 0.57                | 0.31                   | 10000               | 0.32                | 10000                     |                        |
| 1884      | 0.8                    | 9194                | 0.77                | 0.53                   | 9932                | 0.55                | 0.27                   | 10000               | 0.26                | 10000                     |                        |
| 2095      | 0.72                   | 7243                | 0.54                | 0.48                   | 7839                | 0.39                | 0.24                   | 8946                | 0.22                | 10000                     |                        |
| 2186      | 0.69                   | 8653                | 0.62                | 0.46                   | 9419                | 0.45                | 0.23                   | 10000               | 0.24                | 10000                     |                        |
| 2468      | 0.61                   | 5462                | 0.35                | 0.41                   | 5604                | 0.24                | 0.2                    | 5852                | 0.12                | 10000                     |                        |
| 2850      | 0.53                   | 6307                | 0.35                | 0.35                   | 6471                | 0.24                | 0.18                   | 6757                | 0.12                | 10000                     |                        |
| 3170      | 0.47                   | 7852                | 0.39                | 0.32                   | 8486                | 0.28                | 0.16                   | 9665                | 0.16                | 10000                     |                        |

径向力（输出轴） Radial force (Output shafts)



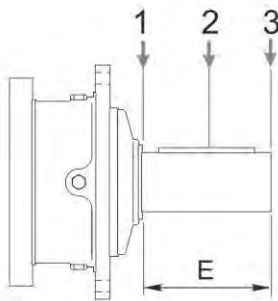
轴向力（输出轴） Axial force (Output shafts)



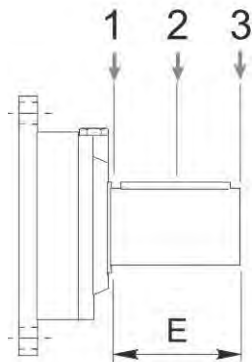
$Fa_{min}$   
 $Fa_{max}$

|               | 法兰安装/Flange-mounted |
|---------------|---------------------|
| $Fa_{min}(N)$ | 50000               |
| $Fa_{max}(N)$ | 90000               |

径向力（输入轴） Radial force (Input shafts)



|      | E   | Fr                   |      |      |                      |      |      |
|------|-----|----------------------|------|------|----------------------|------|------|
|      |     | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |      |
|      |     | 1                    | 2    | 3    | 1                    | 2    | 3    |
| ADM1 | 105 | 10000                | 6000 | 4000 | 5000                 | 3000 | 2000 |
| ADM2 | 105 | 14000                | 8800 | 6400 | 7000                 | 4400 | 3200 |



|     | E  | Fr                   |      |      |                      |      |     |
|-----|----|----------------------|------|------|----------------------|------|-----|
|     |    | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |     |
|     |    | 1                    | 2    | 3    | 1                    | 2    | 3   |
| AD2 | 58 | 3000                 | 2000 | 1500 | 1400                 | 1000 | 700 |

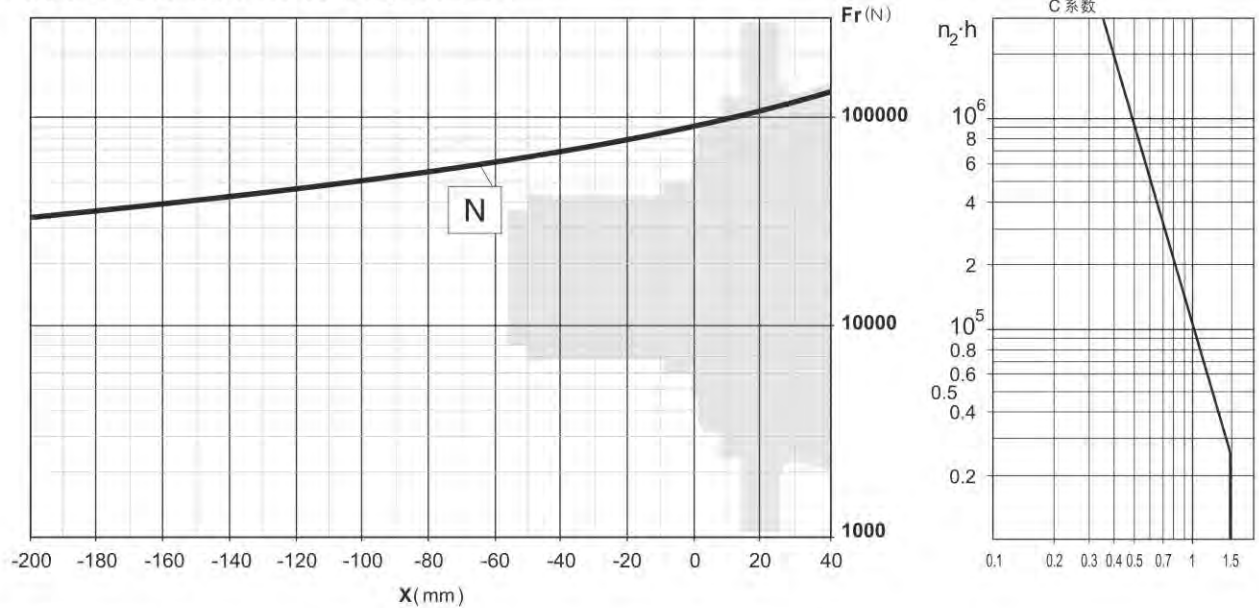


JRP...5

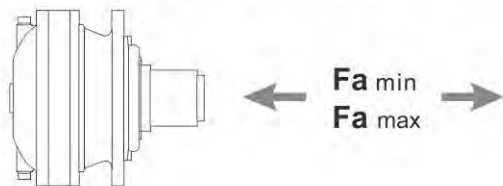


| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>T</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP2N...5 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 12.25     | 122                    | 3264                | 41.9                | 82                     | 3686                | 31.5                | 40.8                   | 4538                | 19.4                | 9800                      | 18                     |
| 14.46     | 104                    | 3430                | 37.3                | 69                     | 3874                | 28.1                | 34.6                   | 4769                | 17.3                | 9800                      |                        |
| 15.16     | 99                     | 3417                | 35.4                | 66                     | 3859                | 26.7                | 33                     | 4751                | 16.4                | 10000                     |                        |
| 18.1      | 83                     | 3669                | 31.9                | 55                     | 4144                | 24                  | 27.6                   | 5102                | 14.8                | 10000                     |                        |
| 21        | 71                     | 3837                | 28.7                | 47.6                   | 4333                | 21.6                | 23.8                   | 5335                | 13.3                | 10000                     |                        |
| 22.39     | 67                     | 3841                | 27                  | 44.7                   | 4338                | 20.3                | 22.3                   | 5340                | 12.5                | 10000                     |                        |
| 25.38     | 59                     | 4061                | 25.1                | 39.4                   | 4586                | 18.9                | 19.7                   | 5646                | 11.7                | 10000                     |                        |
| 27.99     | 54                     | 4179                | 23.5                | 35.7                   | 4720                | 17.7                | 17.9                   | 5811                | 10.9                | 10000                     |                        |
| 31.39     | 47.8                   | 4251                | 21.3                | 31.9                   | 4801                | 16                  | 15.9                   | 5885                | 9.8                 | 10000                     |                        |
| 36.25     | 41.4                   | 4350                | 18.9                | 27.6                   | 4913                | 14.2                | 13.8                   | 5575                | 8.1                 | 10000                     |                        |
| 43.5      | 34.5                   | 3971                | 14.3                | 23                     | 4137                | 10                  | 11.5                   | 4422                | 5.3                 | 10000                     |                        |
| JRP3N...5 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 50.59     | 29.6                   | 4995                | 15.5                | 19.8                   | 5641                | 11.7                | 9.9                    | 6945                | 7.2                 | 10000                     | 14                     |
| 55.8      | 26.9                   | 5141                | 14.5                | 17.9                   | 5806                | 10.9                | 9                      | 6373                | 6                   | 10000                     |                        |
| 63.33     | 23.7                   | 5343                | 13.3                | 15.8                   | 6034                | 10                  | 7.9                    | 7366                | 6.1                 | 10000                     |                        |
| 73.5      | 20.4                   | 5587                | 11.9                | 13.6                   | 6310                | 9                   | 6.8                    | 7597                | 5.4                 | 10000                     |                        |
| 78.35     | 19.1                   | 5593                | 11.2                | 12.8                   | 6004                | 8                   | 6.4                    | 6600                | 4.4                 | 10000                     |                        |
| 88.81     | 16.9                   | 5914                | 10.5                | 11.3                   | 6678                | 7.9                 | 5.6                    | 7898                | 4.7                 | 10000                     |                        |
| 104.8     | 14.3                   | 6215                | 9.3                 | 9.5                    | 7018                | 7                   | 4.8                    | 8169                | 4.1                 | 10000                     |                        |
| 108.6     | 13.8                   | 5968                | 8.6                 | 9.2                    | 6188                | 6                   | 4.6                    | 7082                | 3.4                 | 10000                     |                        |
| 126       | 11.9                   | 6568                | 8.2                 | 7.9                    | 7358                | 6.1                 | 4                      | 8478                | 3.5                 | 10000                     |                        |
| 144.7     | 10.4                   | 6227                | 6.8                 | 6.9                    | 6734                | 4.9                 | 3.5                    | 7766                | 2.8                 | 10000                     |                        |
| 152.3     | 9.8                    | 6180                | 6.4                 | 6.6                    | 6649                | 4.6                 | 3.3                    | 7668                | 2.6                 | 10000                     |                        |
| 184       | 8.2                    | 6297                | 5.4                 | 5.4                    | 6860                | 3.9                 | 2.7                    | 7901                | 2.2                 | 10000                     |                        |
| 202.9     | 7.4                    | 6639                | 5.1                 | 4.9                    | 7224                | 3.7                 | 2.5                    | 8308                | 2.1                 | 10000                     |                        |
| 227.6     | 6.6                    | 6556                | 4.5                 | 4.4                    | 7134                | 3.3                 | 2.2                    | 8205                | 1.9                 | 10000                     |                        |
| 262.8     | 5.7                    | 6183                | 3.7                 | 3.8                    | 6733                | 2.7                 | 1.9                    | 7753                | 1.5                 | 10000                     |                        |
| 315.4     | 4.8                    | 4894                | 2.4                 | 3.2                    | 5343                | 1.8                 | 1.6                    | 6175                | 1                   | 10000                     |                        |

径向力（输出轴） Radial force (Output shafts)

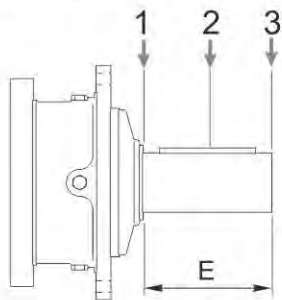


轴向力（输出轴） Axial force (Output shafts)

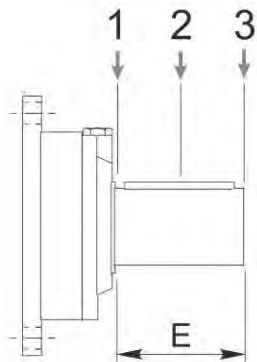


|                | 法兰安装/Flange-mounted |
|----------------|---------------------|
| $Fa_{min}$ (N) | 50000               |
| $Fa_{max}$ (N) | 90000               |

径向力（输入轴） Radial force (Input shafts)



|      | $E$ | $Fr$              |      |      |                   |      |      |
|------|-----|-------------------|------|------|-------------------|------|------|
|      |     | $n_1 \cdot h=107$ |      |      | $n_1 \cdot h=108$ |      |      |
|      |     | 1                 | 2    | 3    | 1                 | 2    | 3    |
| ADM1 | 105 | 10000             | 6000 | 4000 | 5000              | 3000 | 2000 |
| ADM2 | 105 | 14000             | 8800 | 6400 | 7000              | 4400 | 3200 |



|     | $E$ | $Fr$               |      |      |                    |      |     |
|-----|-----|--------------------|------|------|--------------------|------|-----|
|     |     | $n_1 \cdot h=10^7$ |      |      | $n_1 \cdot h=10^8$ |      |     |
|     |     | 1                  | 2    | 3    | 1                  | 2    | 3   |
| AD2 | 58  | 3000               | 2000 | 1500 | 1400               | 1000 | 700 |

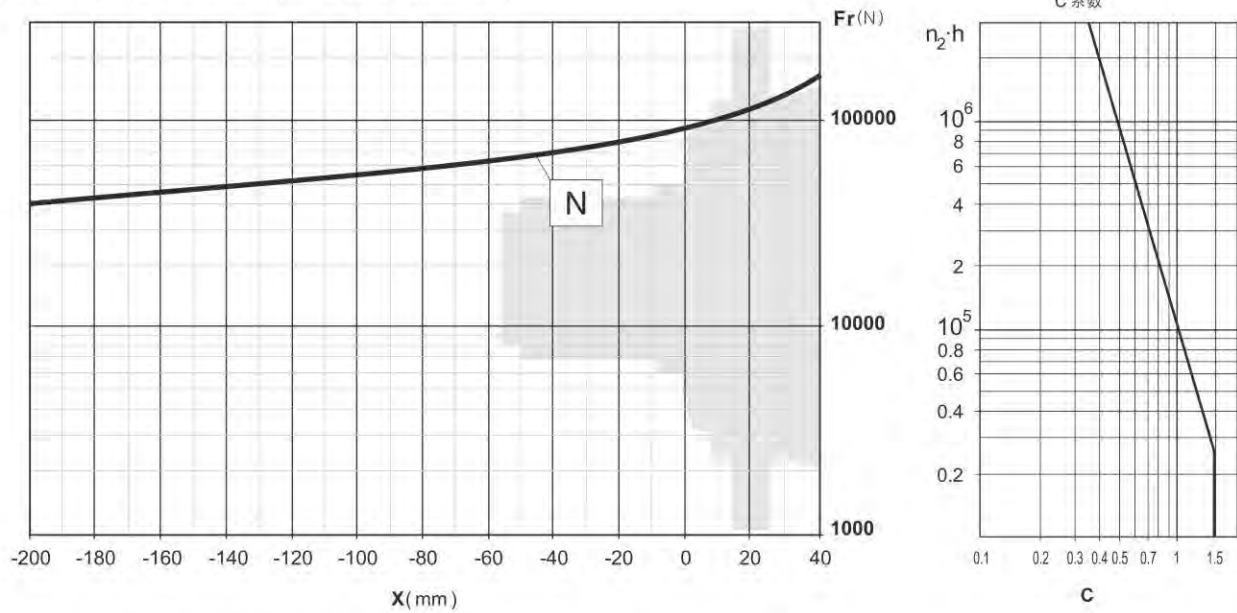


JRP...6

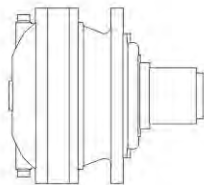


| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>gmax</sub><br>(Nm) | P <sub>r</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) |                           |                        |
| JRP1N...6 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 4.08      | 368                    | 2936                | 113                 | 245                    | 3316                | 85                  | 123                    | 4082                | 52                  | 15000                     | 40                     |
| 5.05      | 297                    | 3054                | 95                  | 198                    | 3449                | 72                  | 99                     | 4246                | 44                  | 15000                     |                        |
| 5.81      | 258                    | 3122                | 84                  | 172                    | 3526                | 64                  | 86                     | 4341                | 39.1                | 15000                     |                        |
| 6.92      | 217                    | 3246                | 74                  | 145                    | 3666                | 55                  | 72                     | 4514                | 34.2                | 15000                     |                        |
| 8.7       | 172                    | 2868                | 52                  | 115                    | 3077                | 37                  | 57                     | 3396                | 20.4                | 15000                     |                        |
| JRP2N...6 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 14.28     | 105                    | 4276                | 47                  | 70                     | 4829                | 35.4                | 35                     | 5945                | 21.8                | 15000                     | 23                     |
| 16.85     | 89                     | 4493                | 41.9                | 59                     | 5075                | 31.5                | 29.7                   | 6248                | 19.4                | 15000                     |                        |
| 17.68     | 85                     | 4447                | 39.5                | 57                     | 5022                | 29.8                | 28.3                   | 6184                | 18.3                | 15000                     |                        |
| 21.09     | 71                     | 4807                | 35.8                | 47.4                   | 5428                | 27                  | 23.7                   | 6683                | 16.6                | 15000                     |                        |
| 24.48     | 61                     | 5026                | 32.3                | 40.8                   | 5676                | 24.3                | 20.4                   | 6989                | 14.9                | 15000                     |                        |
| 29.58     | 51                     | 5320                | 28.3                | 33.8                   | 6008                | 21.3                | 16.9                   | 7397                | 13.1                | 15000                     |                        |
| 30.3      | 49.5                   | 5228                | 27.1                | 33                     | 5904                | 20.4                | 16.5                   | 7269                | 12.6                | 15000                     |                        |
| 36.61     | 41                     | 5533                | 23.7                | 27.3                   | 6249                | 17.9                | 13.7                   | 7693                | 11                  | 15000                     |                        |
| 41.52     | 36.1                   | 4902                | 18.5                | 24.1                   | 5107                | 12.9                | 12                     | 5456                | 6.9                 | 15000                     |                        |
| 44.98     | 33.3                   | 3629                | 12.7                | 22.2                   | 3800                | 8.8                 | 11.1                   | 4092                | 4.8                 | 15000                     |                        |
| 50.17     | 29.9                   | 4998                | 15.7                | 19.9                   | 5202                | 10.9                | 10                     | 5552                | 5.8                 | 15000                     |                        |
| JRP3N...6 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 58.98     | 25.4                   | 6543                | 17.4                | 17                     | 7390                | 13.1                | 8.5                    | 9098                | 8.1                 | 15000                     | 15                     |
| 61.86     | 24.2                   | 6476                | 16.4                | 16.2                   | 7314                | 12.4                | 8.1                    | 8304                | 7                   | 15000                     |                        |
| 73.83     | 20.3                   | 7000                | 14.9                | 13.5                   | 7905                | 11.2                | 6.8                    | 9732                | 6.9                 | 15000                     |                        |
| 75.4      | 19.9                   | 7044                | 14.7                | 13.3                   | 7955                | 11.1                | 6.6                    | 9794                | 6.8                 | 15000                     |                        |
| 87.12     | 17.2                   | 7356                | 13.3                | 11.5                   | 8308                | 10                  | 5.7                    | 10228               | 6.1                 | 15000                     |                        |
| 101.1     | 14.8                   | 7692                | 12                  | 9.9                    | 8687                | 9                   | 4.9                    | 10384               | 5.4                 | 15000                     |                        |
| 109.1     | 13.8                   | 7869                | 11.3                | 9.2                    | 8887                | 8.5                 | 4.6                    | 10941               | 5.3                 | 15000                     |                        |
| 126.6     | 11.9                   | 8228                | 10.2                | 7.9                    | 9293                | 7.7                 | 4                      | 11441               | 4.7                 | 15000                     |                        |
| 146.9     | 10.2                   | 8604                | 9.2                 | 6.8                    | 9717                | 6.9                 | 3.4                    | 10774               | 3.8                 | 15000                     |                        |
| 152.9     | 9.8                    | 8709                | 8.9                 | 6.5                    | 9835                | 6.7                 | 3.3                    | 12023               | 4.1                 | 15000                     |                        |
| 177.5     | 8.5                    | 9107                | 8.1                 | 5.6                    | 10248               | 6                   | 2.8                    | 10973               | 3.2                 | 15000                     |                        |
| 209.2     | 7.2                    | 7381                | 5.5                 | 4.8                    | 7820                | 3.9                 | 2.4                    | 8994                | 2.3                 | 15000                     |                        |
| 219.7     | 6.8                    | 8429                | 6                   | 4.6                    | 9159                | 4.4                 | 2.3                    | 10512               | 2.5                 | 15000                     |                        |
| 252.7     | 5.9                    | 7502                | 4.7                 | 4                      | 8129                | 3.4                 | 2                      | 9337                | 1.9                 | 15000                     |                        |
| 265.4     | 5.7                    | 8765                | 5.2                 | 3.8                    | 9515                | 3.8                 | 1.9                    | 10906               | 2.2                 | 15000                     |                        |
| 305.4     | 4.9                    | 7776                | 4                   | 3.3                    | 8446                | 2.9                 | 1.6                    | 9689                | 1.7                 | 15000                     |                        |
| 363.7     | 4.1                    | 6105                | 2.6                 | 2.7                    | 6649                | 1.9                 | 1.4                    | 7657                | 1.1                 | 15000                     |                        |
| JRP4N...6 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 409.3     | 3.7                    | 11701               | 4.5                 | 2.4                    | 12828               | 3.3                 | 1.2                    | 13665               | 1.7                 | 15000                     | 11                     |
| 443       | 3.4                    | 11982               | 4.2                 | 2.3                    | 12979               | 3.1                 | 1.1                    | 13813               | 1.6                 | 15000                     |                        |
| 512.4     | 2.9                    | 12392               | 3.8                 | 2                      | 13025               | 2.7                 | 0.98                   | 14090               | 1.4                 | 15000                     |                        |
| 555.6     | 2.7                    | 12244               | 3.5                 | 1.8                    | 12716               | 2.4                 | 0.9                    | 14246               | 1.3                 | 15000                     |                        |
| 654.3     | 2.3                    | 12434               | 3                   | 1.5                    | 13023               | 2.1                 | 0.76                   | 14565               | 1.2                 | 15000                     |                        |
| 718.5     | 2.1                    | 13004               | 2.8                 | 1.4                    | 13423               | 2                   | 0.7                    | 14750               | 1.1                 | 15000                     |                        |
| 779.1     | 1.9                    | 11377               | 2.3                 | 1.3                    | 11906               | 1.6                 | 0.64                   | 13853               | 0.93                | 15000                     |                        |
| 878.3     | 1.7                    | 12778               | 2.3                 | 1.1                    | 13797               | 1.6                 | 0.57                   | 15000               | 0.9                 | 15000                     |                        |
| 1019      | 1.5                    | 11665               | 1.8                 | 0.98                   | 12638               | 1.3                 | 0.49                   | 14664               | 0.75                | 15000                     |                        |
| 1145      | 1.3                    | 13474               | 1.8                 | 0.87                   | 14304               | 1.3                 | 0.44                   | 15000               | 0.69                | 15000                     |                        |
| 1232      | 1.2                    | 12047               | 1.5                 | 0.81                   | 13170               | 1.1                 | 0.41                   | 15000               | 0.64                | 15000                     |                        |
| 1329      | 1.1                    | 13813               | 1.6                 | 0.75                   | 14595               | 1.2                 | 0.38                   | 15000               | 0.6                 | 15000                     |                        |
| 1606      | 0.93                   | 14174               | 1.4                 | 0.62                   | 14973               | 0.98                | 0.31                   | 15000               | 0.49                | 15000                     |                        |
| 1864      | 0.8                    | 13195               | 1.1                 | 0.54                   | 14389               | 0.81                | 0.27                   | 15000               | 0.42                | 15000                     |                        |
| 1988      | 0.75                   | 12975               | 1                   | 0.5                    | 13987               | 0.74                | 0.25                   | 15000               | 0.39                | 15000                     |                        |
| 2307      | 0.65                   | 13340               | 0.91                | 0.43                   | 14375               | 0.65                | 0.22                   | 15000               | 0.35                | 15000                     |                        |
| 2524      | 0.59                   | 9025                | 0.56                | 0.4                    | 9751                | 0.41                | 0.2                    | 11100               | 0.23                | 15000                     |                        |
| 2787      | 0.54                   | 13815               | 0.78                | 0.36                   | 14880               | 0.56                | 0.18                   | 15000               | 0.28                | 15000                     |                        |
| 3207      | 0.47                   | 12288               | 0.6                 | 0.31                   | 13240               | 0.43                | 0.16                   | 15000               | 0.25                | 15000                     |                        |

径向力（输出轴） Radial force (Output shafts)



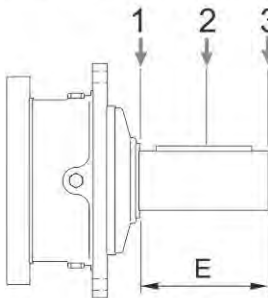
轴向力（输出轴） Axial force (Output shafts)



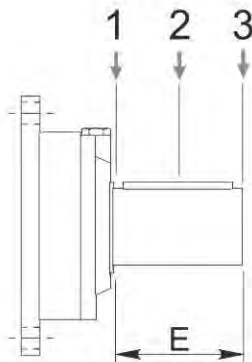
$F_{a \min}$   
 $F_{a \max}$

|                        | 法兰安装/Flange-mounted |
|------------------------|---------------------|
| $F_{a \min}(\text{N})$ | 48000               |
| $F_{a \max}(\text{N})$ | 60000               |

径向力（输入轴） Radial force (Input shafts)



|      | E   | Fr                   |      |      |                      |      |      |
|------|-----|----------------------|------|------|----------------------|------|------|
|      |     | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |      |
|      |     | 1                    | 2    | 3    | 1                    | 2    | 3    |
| ADM1 | 105 | 10000                | 6000 | 4000 | 5000                 | 3000 | 2000 |
| ADM2 | 105 | 14000                | 8800 | 6400 | 7000                 | 4400 | 3200 |



|     | E  | Fr                   |      |      |                      |      |     |
|-----|----|----------------------|------|------|----------------------|------|-----|
|     |    | $n_1 \cdot h = 10^7$ |      |      | $n_1 \cdot h = 10^8$ |      |     |
|     |    | 1                    | 2    | 3    | 1                    | 2    | 3   |
| AD2 | 58 | 3000                 | 2000 | 1500 | 1400                 | 1000 | 700 |

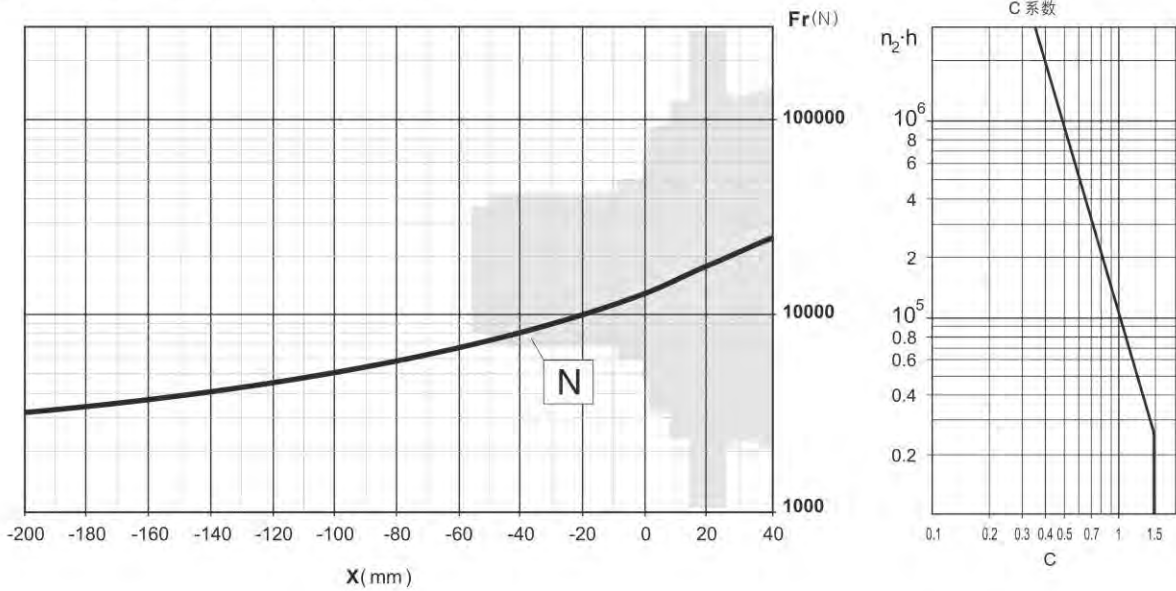


JRP...7

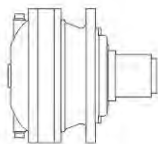


| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>i</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>z</sub> (Nm) | P <sub>z</sub> (kW) |                           |                        |
| JRP1N...7 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 3.9       | 385                    | 4758                | 192                 | 256                    | 5374                | 144                 | 128                    | 6616                | 89                  | 20000                     | 40                     |
| 5.14      | 292                    | 5006                | 153                 | 195                    | 5654                | 115                 | 97                     | 6961                | 71                  | 20000                     |                        |
| 6.27      | 239                    | 5178                | 130                 | 159                    | 5847                | 98                  | 80                     | 7199                | 60                  | 20000                     |                        |
| JRP2N...7 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 13.65     | 110                    | 6103                | 70                  | 73                     | 6893                | 53                  | 36.6                   | 8486                | 32.6                | 20000                     | 23                     |
| 16.11     | 93                     | 6309                | 62                  | 62                     | 7125                | 46.3                | 31                     | 8772                | 28.5                | 20000                     |                        |
| 17.99     | 83                     | 7290                | 64                  | 56                     | 8233                | 47.9                | 27.8                   | 9317                | 27.1                | 20000                     |                        |
| 20.16     | 74                     | 6563                | 51                  | 50                     | 7412                | 38.5                | 24.8                   | 9125                | 23.7                | 20000                     |                        |
| 21.95     | 68                     | 7540                | 54                  | 45.6                   | 8220                | 39.2                | 22.8                   | 8771                | 20.9                | 20000                     |                        |
| 26.57     | 56                     | 8195                | 48.4                | 37.6                   | 9057                | 35.7                | 18.8                   | 9649                | 19                  | 20000                     |                        |
| 28.28     | 53                     | 6170                | 34.3                | 35.4                   | 6613                | 24.5                | 17.7                   | 7286                | 13.5                | 20000                     |                        |
| 30.84     | 48.6                   | 8570                | 43.7                | 32.4                   | 9185                | 31.2                | 16.2                   | 9776                | 16.6                | 20000                     |                        |
| 37.27     | 40.3                   | 8132                | 34.3                | 26.8                   | 8716                | 24.5                | 13.4                   | 9603                | 13.5                | 20000                     |                        |
| 45.46     | 33                     | 8477                | 29.3                | 22                     | 8799                | 20.3                | 11                     | 9353                | 10.8                | 20000                     |                        |
| JRP3N...7 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 47.78     | 31.4                   | 8888                | 29.2                | 20.9                   | 10037               | 22                  | 10.5                   | 12357               | 13.5                | 20000                     | 15                     |
| 56.37     | 26.6                   | 9340                | 26                  | 17.7                   | 10548               | 19.6                | 8.9                    | 12986               | 12.1                | 20000                     |                        |
| 62.96     | 23.8                   | 9448                | 23.6                | 15.9                   | 9794                | 16.3                | 7.9                    | 10392               | 8.6                 | 20000                     |                        |
| 70.57     | 21.3                   | 9991                | 22.2                | 14.2                   | 11283               | 16.7                | 7.1                    | 13892               | 10.3                | 20000                     |                        |
| 81.9      | 18.3                   | 10447               | 20                  | 12.2                   | 11799               | 15.1                | 6.1                    | 14526               | 9.3                 | 20000                     |                        |
| 93.01     | 16.1                   | 9781                | 16.5                | 10.8                   | 10129               | 11.4                | 5.4                    | 11021               | 6.2                 | 20000                     |                        |
| 98.96     | 15.2                   | 11058               | 17.6                | 10.1                   | 12488               | 13.2                | 5.1                    | 13856               | 7.3                 | 20000                     |                        |
| 107.9     | 13.9                   | 9908                | 14.4                | 9.3                    | 10258               | 10                  | 4.6                    | 11354               | 5.5                 | 20000                     |                        |
| 127.4     | 11.8                   | 10050               | 12.4                | 7.9                    | 10402               | 8.6                 | 3.9                    | 11733               | 4.8                 | 20000                     |                        |
| 137.4     | 10.9                   | 10115               | 11.6                | 7.3                    | 10468               | 8                   | 3.6                    | 11910               | 4.5                 | 20000                     |                        |
| 159.4     | 9.4                    | 10244               | 10.1                | 6.3                    | 10684               | 7                   | 3.1                    | 12263               | 4                   | 20000                     |                        |
| 185       | 8.1                    | 10374               | 8.8                 | 5.4                    | 11010               | 6.2                 | 2.7                    | 12623               | 3.6                 | 20000                     |                        |
| 192.7     | 7.8                    | 10409               | 8.5                 | 5.2                    | 11099               | 6                   | 2.6                    | 12722               | 3.5                 | 20000                     |                        |
| 223.6     | 6.7                    | 10539               | 7.4                 | 4.5                    | 11434               | 5.4                 | 2.2                    | 13093               | 3.1                 | 20000                     |                        |
| 235       | 6.4                    | 9797                | 6.5                 | 4.3                    | 10399               | 4.6                 | 2.1                    | 11934               | 2.7                 | 20000                     |                        |
| 270.2     | 5.6                    | 10643               | 6.2                 | 3.7                    | 11112               | 4.3                 | 1.9                    | 11921               | 2.3                 | 20000                     |                        |
| 329.6     | 4.6                    | 10258               | 4.9                 | 3                      | 11128               | 3.5                 | 1.5                    | 12743               | 2                   | 20000                     |                        |
| JRP4N...7 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 359.5     | 4.2                    | 15642               | 6.8                 | 2.8                    | 16279               | 4.7                 | 1.4                    | 18842               | 2.7                 | 20000                     | 11                     |
| 391.2     | 3.8                    | 15764               | 6.3                 | 2.6                    | 16578               | 4.4                 | 1.3                    | 19172               | 2.6                 | 20000                     |                        |
| 461.7     | 3.2                    | 14336               | 4.9                 | 2.2                    | 14970               | 3.4                 | 1.1                    | 17336               | 2                   | 20000                     |                        |
| 491.4     | 3.1                    | 16094               | 5.1                 | 2                      | 17403               | 3.7                 | 1                      | 19575               | 2.1                 | 20000                     |                        |
| 568.4     | 2.6                    | 16464               | 4.6                 | 1.8                    | 17944               | 3.3                 | 0.88                   | 19845               | 1.8                 | 20000                     |                        |
| 645.5     | 2.3                    | 12997               | 3.2                 | 1.5                    | 14044               | 2.3                 | 0.77                   | 15988               | 1.3                 | 20000                     |                        |
| 700.7     | 2.1                    | 15008               | 3.4                 | 1.4                    | 16365               | 2.4                 | 0.71                   | 18879               | 1.4                 | 20000                     |                        |
| 810.4     | 1.9                    | 15486               | 3                   | 1.2                    | 16872               | 2.2                 | 0.62                   | 19271               | 1.2                 | 20000                     |                        |
| 883.9     | 1.7                    | 13803               | 2.5                 | 1.1                    | 14900               | 1.8                 | 0.57                   | 16938               | 1                   | 20000                     |                        |
| 1039      | 1.4                    | 15905               | 2.4                 | 0.96                   | 16561               | 1.7                 | 0.48                   | 17700               | 0.89                | 20000                     |                        |
| 1110      | 1.4                    | 14412               | 2                   | 0.9                    | 15418               | 1.5                 | 0.45                   | 17656               | 0.83                | 20000                     |                        |
| 1226      | 1.2                    | 16903               | 2.2                 | 0.82                   | 18375               | 1.6                 | 0.41                   | 19586               | 0.84                | 20000                     |                        |
| 1342      | 1.1                    | 14755               | 1.7                 | 0.75                   | 16075               | 1.3                 | 0.37                   | 18272               | 0.71                | 20000                     |                        |
| 1552      | 0.97                   | 15177               | 1.5                 | 0.64                   | 16539               | 1.1                 | 0.32                   | 18757               | 0.63                | 20000                     |                        |
| 1875      | 0.8                    | 13067               | 1.1                 | 0.53                   | 14330               | 0.8                 | 0.27                   | 16674               | 0.47                | 20000                     |                        |
| 2023      | 0.74                   | 16117               | 1.3                 | 0.49                   | 17360               | 0.9                 | 0.25                   | 19669               | 0.51                | 20000                     |                        |
| 2348      | 0.64                   | 16565               | 1.1                 | 0.43                   | 17836               | 0.8                 | 0.21                   | 20000               | 0.44                | 20000                     |                        |
| 2468      | 0.61                   | 15148               | 0.96                | 0.41                   | 16325               | 0.69                | 0.2                    | 18512               | 0.39                | 20000                     |                        |
| 2837      | 0.53                   | 14358               | 0.8                 | 0.35                   | 15701               | 0.58                | 0.18                   | 18194               | 0.34                | 20000                     |                        |
| 3460      | 0.43                   | 16125               | 0.73                | 0.29                   | 17364               | 0.53                | 0.14                   | 19665               | 0.3                 | 20000                     |                        |

径向力（输出轴） Radial force (Output shafts)



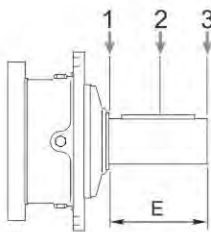
轴向力（输出轴） Axial force (Output shafts)



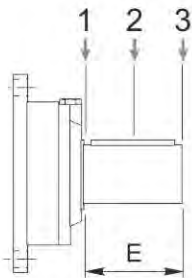
**Fa min**  
**Fa max**

|           | 法兰安装/Flange-mounted |
|-----------|---------------------|
| Fa min(N) | 68000               |
| Fa max(N) | 68000               |

径向力（输入轴） Radial force (Input shafts)



|      | E   | Fr                 |      |      |                    |      |      |
|------|-----|--------------------|------|------|--------------------|------|------|
|      |     | $n_1 \cdot h=10^7$ |      |      | $n_1 \cdot h=10^8$ |      |      |
|      |     | 1                  | 2    | 3    | 1                  | 2    | 3    |
| ADM1 | 105 | 10000              | 6000 | 4000 | 5000               | 3000 | 2000 |
| ADM2 | 105 | 14000              | 8800 | 6400 | 7000               | 4400 | 3200 |



|     | E  | Fr                 |      |      |                    |      |     |
|-----|----|--------------------|------|------|--------------------|------|-----|
|     |    | $n_1 \cdot h=10^7$ |      |      | $n_1 \cdot h=10^8$ |      |     |
|     |    | 1                  | 2    | 3    | 1                  | 2    | 3   |
| AD2 | 58 | 3000               | 2000 | 1500 | 1400               | 1000 | 700 |

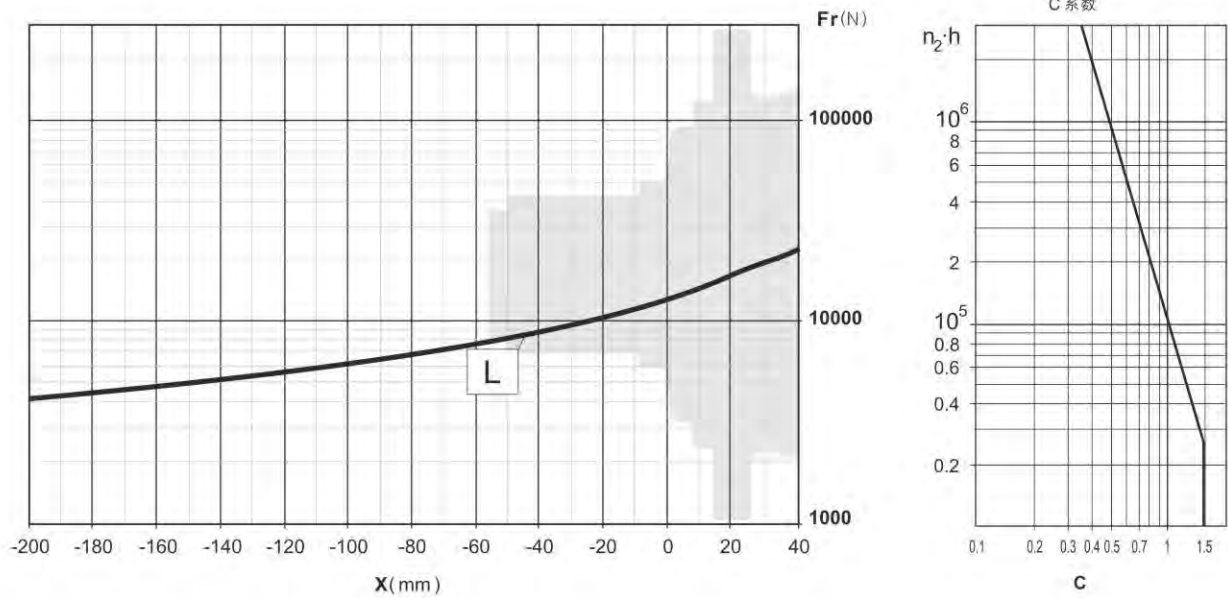
JRP...8



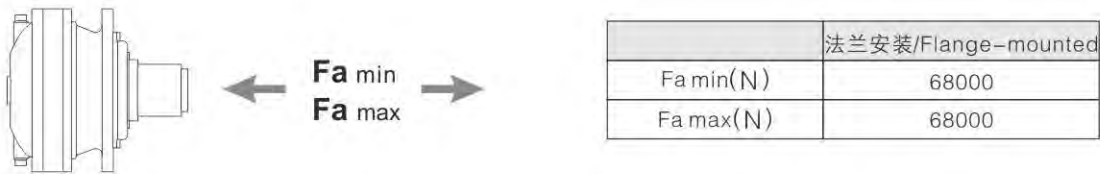
| i         | 1500                   |                     |                     | 1000                   |                     |                     | 500                    |                     |                     | T <sub>2max</sub><br>(Nm) | P <sub>1</sub><br>(kW) |
|-----------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------------|------------------------|
|           | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) | n <sub>z</sub> (r/min) | T <sub>2</sub> (Nm) | P <sub>2</sub> (kW) |                           |                        |
| JRP2N...8 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 19.5      | 77                     | 7712                | 62                  | 51                     | 8709                | 46.8                | 25.6                   | 10722               | 28.8                | 20000                     | 23                     |
| 23.4      | 64                     | 8145                | 55                  | 42.7                   | 9199                | 41.2                | 21.4                   | 11325               | 25.3                | 20000                     |                        |
| JRP3N...8 |                        |                     |                     |                        |                     |                     |                        |                     |                     |                           |                        |
| 47.78     | 31.4                   | 10090               | 33.2                | 20.9                   | 11395               | 25                  | 10.5                   | 13411               | 14.7                | 20000                     | 15                     |
| 56.37     | 26.6                   | 10604               | 29.5                | 17.7                   | 11976               | 22.2                | 8.9                    | 13721               | 12.7                | 20000                     |                        |
| 62.17     | 24.1                   | 10920               | 27.6                | 16.1                   | 12333               | 20.8                | 8                      | 13992               | 11.8                | 20000                     |                        |
| 70.57     | 21.3                   | 11343               | 25.3                | 14.2                   | 12810               | 19                  | 7.1                    | 14349               | 10.6                | 20000                     |                        |
| 80.54     | 18.6                   | 11802               | 23                  | 12.4                   | 13221               | 17.2                | 6.2                    | 14727               | 9.6                 | 20000                     |                        |
| 87.31     | 17.2                   | 12091               | 21.8                | 11.5                   | 13310               | 16                  | 5.7                    | 14962               | 9                   | 20000                     |                        |
| 100.8     | 14.9                   | 12624               | 19.7                | 9.9                    | 13471               | 14                  | 5                      | 15388               | 8                   | 20000                     |                        |
| 109.1     | 13.7                   | 12928               | 18.6                | 9.2                    | 13631               | 13.1                | 4.6                    | 15627               | 7.5                 | 20000                     |                        |
| 122.4     | 12.3                   | 13236               | 17                  | 8.2                    | 13949               | 11.9                | 4.1                    | 15978               | 6.8                 | 20000                     |                        |
| 141.4     | 10.6                   | 13396               | 14.9                | 7.1                    | 14353               | 10.6                | 3.5                    | 16425               | 6.1                 | 20000                     |                        |
| 161.4     | 9.3                    | 10255               | 10                  | 6.2                    | 10710               | 7                   | 3.1                    | 12291               | 4                   | 20000                     |                        |
| 169.7     | 8.8                    | 13729               | 12.7                | 5.9                    | 14878               | 9.2                 | 2.9                    | 17006               | 5.3                 | 20000                     |                        |
| 185       | 8.1                    | 10374               | 8.8                 | 5.4                    | 11010               | 6.2                 | 2.7                    | 12623               | 3.6                 | 20000                     |                        |
| 196.8     | 7.6                    | 9651                | 7.7                 | 5.1                    | 10030               | 5.3                 | 2.5                    | 11526               | 3.1                 | 20000                     |                        |
| 223.6     | 6.7                    | 10539               | 7.4                 | 4.5                    | 11434               | 5.4                 | 2.2                    | 13093               | 3.1                 | 20000                     |                        |
| 272.7     | 5.5                    | 9920                | 5.7                 | 3.7                    | 10715               | 4.1                 | 1.8                    | 12286               | 2.4                 | 20000                     |                        |



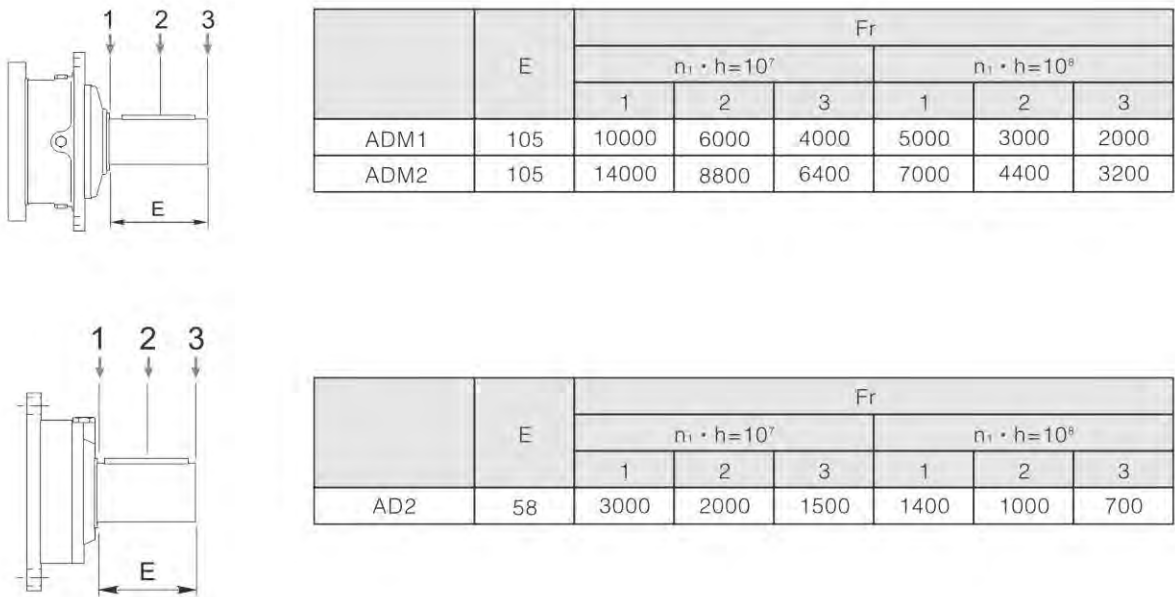
径向力（输出轴） Radial force (output shafts)



轴向力（输出轴） Axial force (output shaft)



径向力（输入轴） Radial force (input shafts)

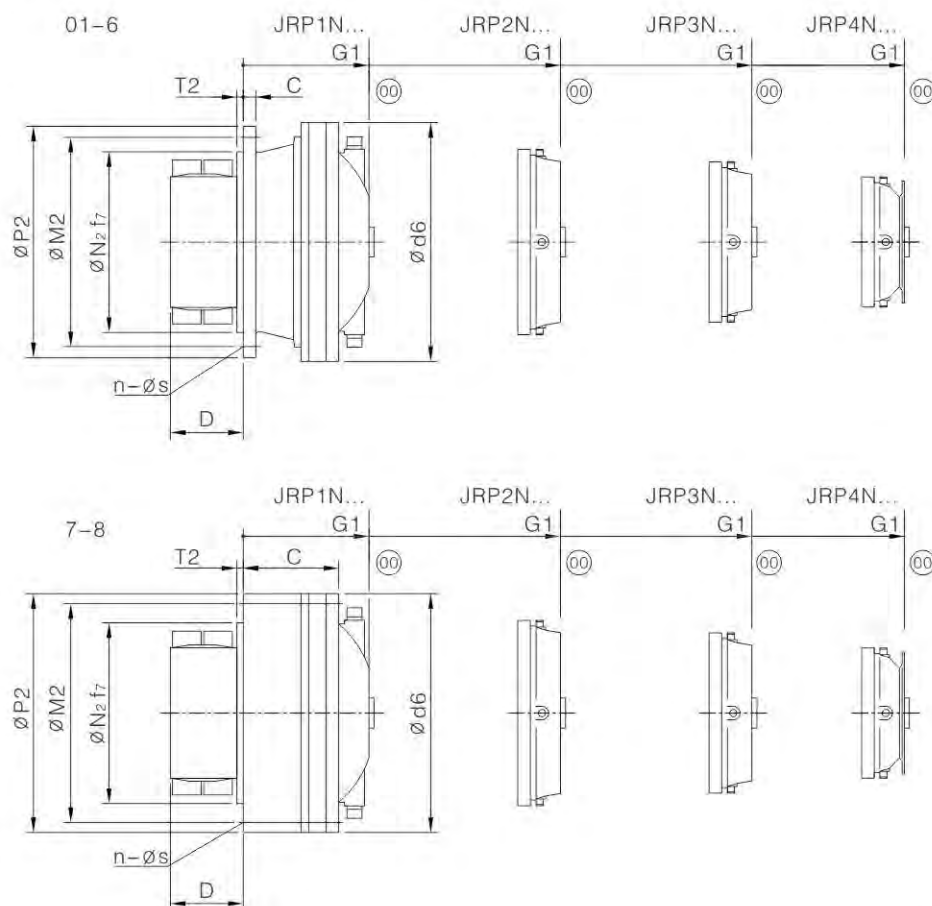




类型 JRP...NA

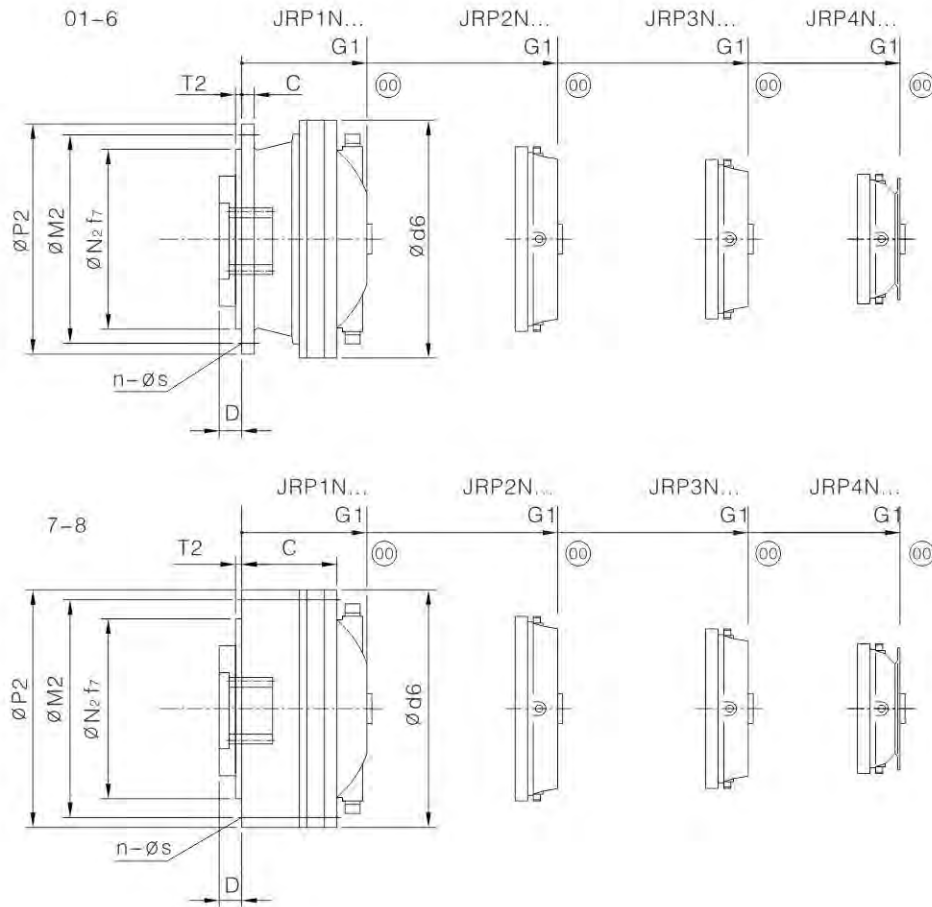
Type JRP...NA

## 8.外形尺寸和重量 Dimensions & Weight



| NA | $T_n$<br>(Nm) | G1  |       |     |     | D   | $P_2$ | C   | $M_2$ | $N_{2f7}$ | $T_{\Sigma}$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |    | 重量/Weight<br>(kg) |     |     |     |
|----|---------------|-----|-------|-----|-----|-----|-------|-----|-------|-----------|--------------|-------|-----------------------|----|-------------------|-----|-----|-----|
|    |               | 1N  | 2N    | 3N  | 4N  |     |       |     |       |           |              |       | n                     | s  | 1N                | 2N  | 3N  | 4N  |
| 01 | 1000          | 164 | 204   | 243 |     | 55  | 180   | 13  | 165   | 110       | 6            | 183   | 8                     | 9  | 20                | 27  | 31  |     |
| 02 | 2100          | 192 | 245   | 284 | 324 | 85  | 220   | 16  | 195   | 150       | 5            | 240   | 10                    | 14 | 37                | 41  | 46  | 52  |
| 03 | 3800          |     | 245   | 284 | 324 | 85  | 220   | 16  | 195   | 150       | 5            | 240   | 10                    | 14 |                   | 45  | 47  | 57  |
| 1  | 3800          |     |       |     |     |     |       |     |       |           |              |       |                       |    |                   |     |     |     |
| 2  | 3800          | 192 | 260   | 312 | 352 | 85  | 220   | 16  | 195   | 150       | 5            | 240   | 10                    | 14 | 40                | 56  | 61  | 67  |
| 3  | 3800          |     |       |     |     |     |       |     |       |           |              |       |                       |    |                   |     |     |     |
| 4  | 6400          | 259 | 323   | 375 | 415 | 133 | 280   | 20  | 250   | 200       | 20           | 280   | 12                    | 16 | 77                | 86  | 93  | 98  |
| 5  | 6400          |     | 330.5 | 398 |     | 133 | 280   | 20  | 250   | 200       | 20           | 280   | 12                    | 16 |                   | 92  | 107 |     |
| 6  | 9200          | 280 | 347   | 414 | 467 | 140 | 325   | 25  | 295   | 230       | 12           | 355   | 10                    | 18 | 118               | 131 | 148 | 152 |
| 7  | 13000         | 186 | 263   | 331 | 383 | 245 | 340   | 125 | 314   | 278       | 18           | 340   | 12                    | 16 | 128               | 148 | 168 | 166 |
| 8  | 13000         |     | 263   | 331 |     | 245 | 340   | 125 | 314   | 278       | 18           | 340   | 12                    | 16 |                   | 148 | 168 |     |

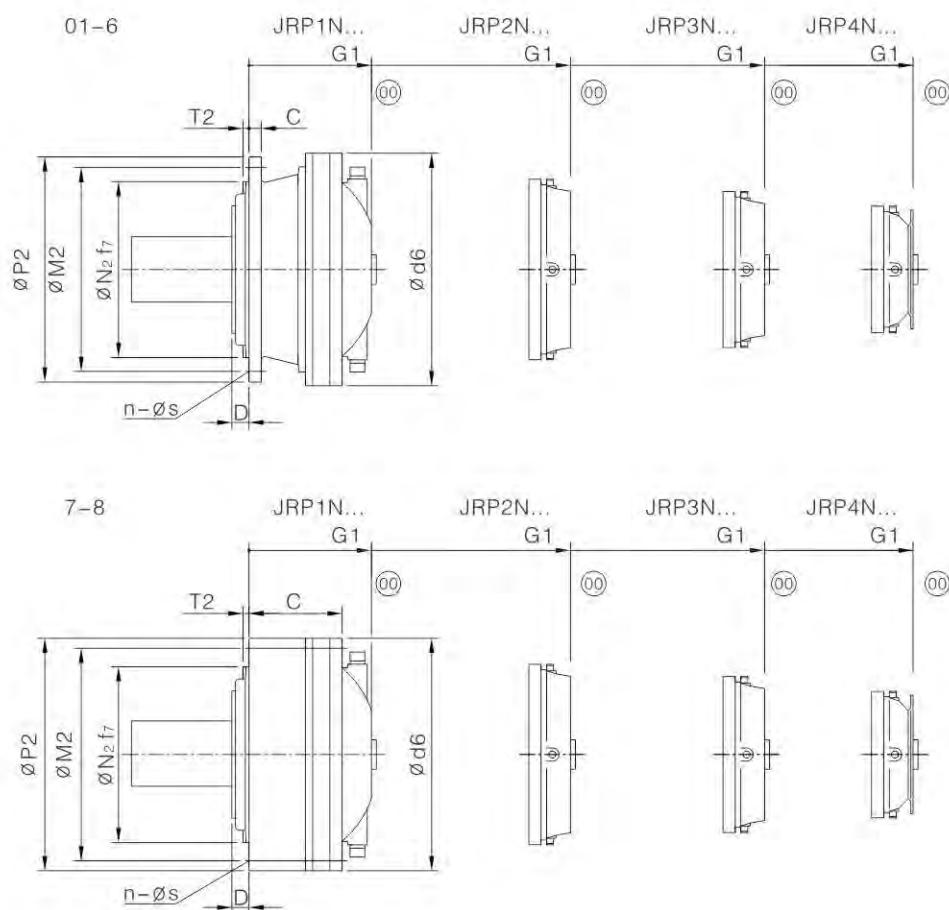
类型 JRP..NC  
Type JRP..NC



| NC | $T_N$<br>(Nm) | G1  |       |     |     | D   | $P_2$ | C   | $M_3$ | $N_2 f_7$ | $T_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |    | 重量/Weight<br>(kg) |     |     |     |
|----|---------------|-----|-------|-----|-----|-----|-------|-----|-------|-----------|-------|-------|-----------------------|----|-------------------|-----|-----|-----|
|    |               | 1N  | 2N    | 3N  | 4N  |     |       |     |       |           |       |       | n                     | s  | 1N                | 2N  | 3N  | 4N  |
| 01 | 1000          | 164 | 204   | 244 |     | 39  | 180   | 13  | 165   | 110       | 6     | 183   | 8                     | 9  | 19                | 25  | 30  |     |
| 02 | 2100          | 192 | 245   | 284 | 324 | 38  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 | 35                | 40  | 44  | 50  |
| 03 | 3800          |     | 245   | 284 | 324 | 38  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 |                   | 43  | 45  | 55  |
| 1  | 3800          |     |       |     |     |     |       |     |       |           |       |       |                       |    |                   |     |     |     |
| 2  | 3800          | 192 | 260   | 312 | 352 | 38  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 | 38                | 54  | 59  | 65  |
| 3  | 3800          |     |       |     |     |     |       |     |       |           |       |       |                       |    |                   |     |     |     |
| 4  | 6400          | 259 | 323   | 375 | 415 | 103 | 280   | 20  | 250   | 200       | 20    | 280   | 12                    | 16 | 73                | 82  | 89  | 94  |
| 5  | 6400          |     | 330.5 | 398 |     | 103 | 280   | 20  | 250   | 200       | 20    | 280   | 12                    | 16 |                   | 87  | 102 |     |
| 6  | 9200          | 280 | 347   | 414 | 467 | 111 | 325   | 25  | 295   | 230       | 12    | 355   | 10                    | 18 | 111               | 125 | 141 | 146 |
| 7  | 13000         | 186 | 263   | 331 | 383 | 215 | 340   | 125 | 314   | 278       | 18    | 340   | 12                    | 16 | 121               | 142 | 161 | 164 |
| 8  | 13000         |     | 263   | 331 |     | 215 | 340   | 125 | 314   | 278       | 18    | 340   | 12                    | 16 |                   | 142 | 161 |     |

类型 JRP..NB, 类型 JRP..ND

Type JRP..NB, Type JRP..ND



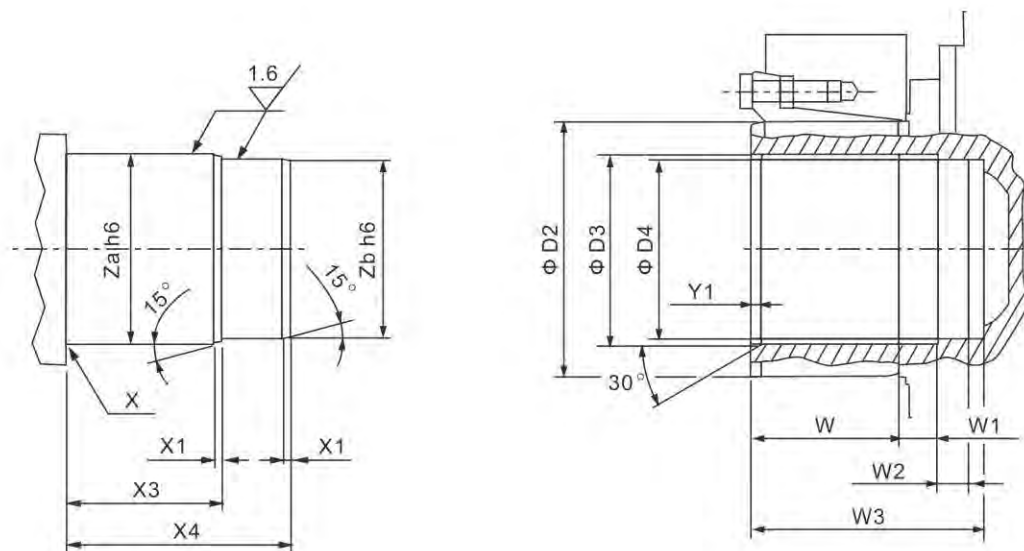
| NB<br>ND | $T_N$<br>(Nm) | G1  |       |     |     | D   | $P_2$ | C   | $M_2$ | $N_2 f_7$ | $T_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |    | 重量/Weight<br>(kg) |     |     |     |
|----------|---------------|-----|-------|-----|-----|-----|-------|-----|-------|-----------|-------|-------|-----------------------|----|-------------------|-----|-----|-----|
|          |               | 1N  | 2N    | 3N  | 4N  |     |       |     |       |           |       |       | n                     | s  | 1N                | 2N  | 3N  | 4N  |
| 01       | 1000          | 164 | 204   | 243 |     | 7   | 180   | 13  | 165   | 110       | 6     | 183   | 8                     | 9  | 20                | 26  | 31  |     |
| 02       | 2100          | 192 | 245   | 284 | 324 | 15  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 | 37                | 42  | 47  | 53  |
| 03       | 3800          |     | 245   | 284 | 324 | 15  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 |                   | 45  | 48  | 58  |
| 1        | 3800          |     | 261   | 301 | 341 | 39  | 272   | 20  | 245   | 175       | 10    | 240   | 10                    | 14 |                   | 56  | 64  | 69  |
| 2        | 3800          | 192 | 260   | 312 | 352 | 15  | 220   | 16  | 195   | 150       | 5     | 240   | 10                    | 14 | 41                | 57  | 62  | 68  |
| 3        | 3800          | 209 | 277   | 329 | 369 | 39  | 272   | 20  | 245   | 175       | 10    | 240   | 10                    | 14 | 54                | 67  | 72  | 77  |
| 4        | 6400          | 259 | 323   | 375 | 415 | 40  | 280   | 20  | 250   | 200       | 20    | 280   | 12                    | 16 | 77                | 86  | 92  | 98  |
| 5        | 6400          |     | 330.5 | 398 |     | 40  | 280   | 20  | 250   | 200       | 20    | 280   | 12                    | 16 |                   | 91  | 106 |     |
| 6        | 9200          | 280 | 347   | 414 | 467 | 36  | 325   | 25  | 295   | 230       | 12    | 355   | 10                    | 18 | 114               | 128 | 144 | 149 |
| 7        | 13000         | 186 | 263   | 331 | 383 | 143 | 340   | 125 | 314   | 278       | 18    | 340   | 12                    | 16 | 124               | 145 | 164 | 167 |
| 8        | 13000         |     | 263   | 331 |     | 143 | 340   | 125 | 314   | 278       | 18    | 340   | 12                    | 16 |                   | 145 | 164 |     |

## 9. 输出轴尺寸 Output Shaft Dimension



A-带锁紧盘的空心轴输出

A-Hollow Shaft Output with Shrink disc

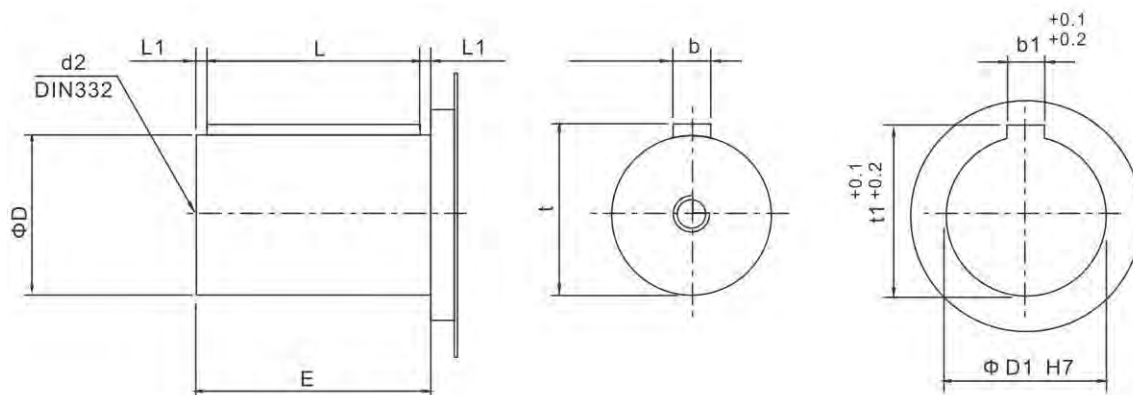


|     | W  | W1 | W2 | W3  | D2     | D3     | D4    | Y1 | X  | X1 | X3 | X4  | Za  | Zb |
|-----|----|----|----|-----|--------|--------|-------|----|----|----|----|-----|-----|----|
| 01  | 29 | 9  | 10 | 50  | 62 f7  | 50 H7  | 30 H7 | 2  | R2 | 3  | 33 | 48  | 48  | 30 |
| 02  | 54 | 16 | 23 | 95  | 100 f7 | 75 H7  | 40 H7 | 2  | R2 | 3  | 52 | 92  | 75  | 40 |
| 03  | 54 | 16 | 23 | 95  | 100 f7 | 75 H7  | 40 H7 | 2  | R2 | 3  | 52 | 92  | 75  | 40 |
| 2   | 54 | 16 | 23 | 95  | 100 f7 | 75 H7  | 40 H7 | 2  | R2 | 3  | 52 | 92  | 75  | 40 |
| 4-5 | 80 | 20 | 33 | 135 | 125 f7 | 90 H7  | 50 H7 | 2  | R2 | 3  | 62 | 132 | 90  | 50 |
| 6   | 80 | 20 | 33 | 140 | 140 f7 | 100 H7 | 60 H7 | 2  | R2 | 3  | 69 | 135 | 100 | 60 |
| 7-8 | 79 | 6  | 47 | 135 | 165 f7 | 120 H7 | 80 H7 | 5  | R2 | 3  | 79 | 130 | 120 | 80 |



# B-带平键的实心轴输出

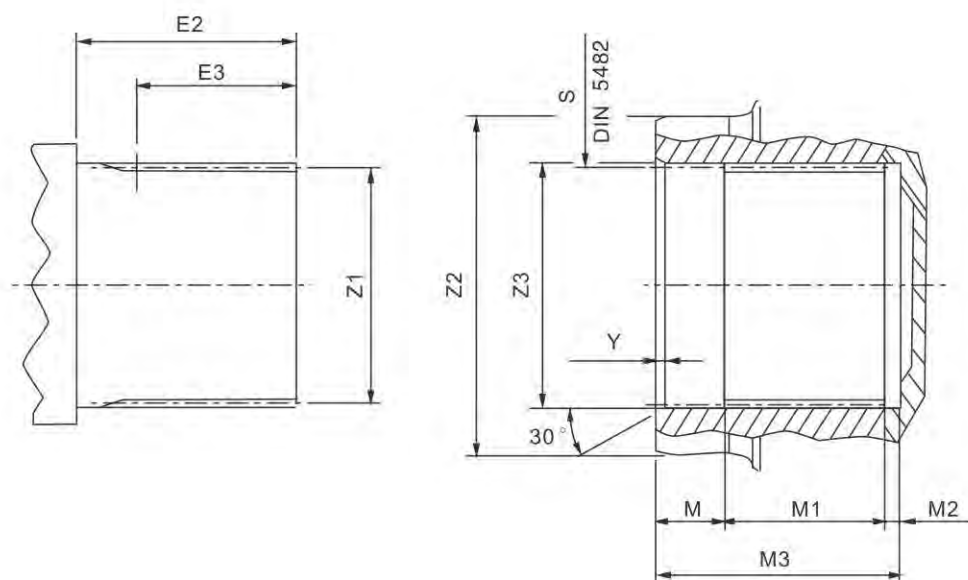
## B-Solid Shaft Output with Flat Key



|     | D      | E   | L   | L1  | t   | b  | d2  | D1  | t1  | b1 |
|-----|--------|-----|-----|-----|-----|----|-----|-----|-----|----|
| 01  | 42 k6  | 82  | 70  | 6   | 45  | 12 | M16 | 42  | 45  | 12 |
| 02  | 65 m6  | 105 | 90  | 7.5 | 69  | 18 | M20 | 65  | 69  | 18 |
| 03  | 65 m6  | 105 | 90  | 7.5 | 69  | 18 | M20 | 65  | 69  | 18 |
| 1   | 65 m6  | 105 | 90  | 7.5 | 69  | 18 | M20 | 65  | 69  | 18 |
| 2   | 65 m6  | 105 | 90  | 7.5 | 69  | 18 | M20 | 65  | 69  | 18 |
| 3   | 65 m6  | 105 | 90  | 7.5 | 69  | 18 | M20 | 65  | 69  | 18 |
| 4-5 | 80 m6  | 130 | 110 | 10  | 85  | 22 | M20 | 80  | 85  | 22 |
| 6   | 90 m6  | 170 | 160 | 5   | 95  | 25 | M24 | 90  | 95  | 25 |
| 7-8 | 100 m6 | 210 | 200 | 5   | 106 | 28 | M24 | 100 | 106 | 28 |
|     | 100 m6 | 210 | 200 | 5   | 106 | 28 | M24 | 100 | 106 | 28 |

C-带渐开线花键的空心轴输出

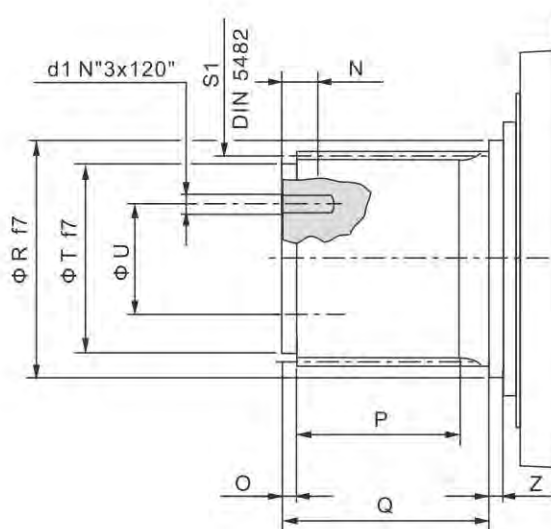
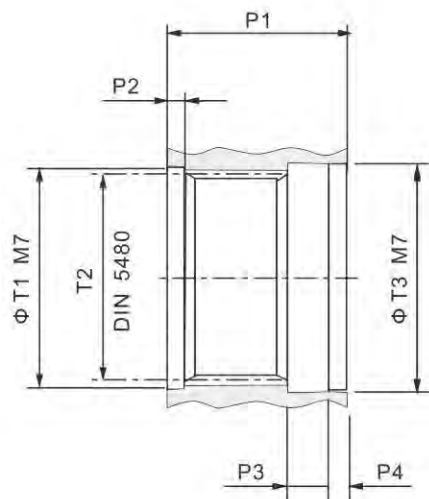
C-Hollow Shaft Output with Involute Spline



|     | M3   | M | M1   | M2 | Y   | S          | Z2     | Z3     | Z1        | E2   | E3   |
|-----|------|---|------|----|-----|------------|--------|--------|-----------|------|------|
| 01  | 34.7 | 5 | 24.7 | 5  | 0.5 | A40×36 H10 | 50 f8  | 42 H11 | B40×36 c9 | 32.7 | 22.7 |
| 02  | 57   | 8 | 43.6 | —  | 1.0 | A58×53 H10 | 80 f7  | 60 H7  | B58×53 c9 | 49.5 | 41.5 |
| 03  | 57   | 8 | 36   | —  | 1.5 | A58×53 H10 | 80 f7  | 60 H7  | B58×53 c9 | 42   | 34   |
| 2   | 57   | 8 | 36   | —  | 1.5 | A58×53 H10 | 80 f7  | 60 H7  | B58×53 c9 | 42   | 34   |
| 4-5 | 73   | 9 | 56   | 8  | 1.0 | A70×64 H10 | 90 g7  | 72 H7  | B70×64 c9 | 65   | 48   |
| 6   | 80   | 5 | 62   | 8  | 1.0 | A70×64 H10 | 96 h8  | 72 H7  | B70×64 c9 | 73   | 60   |
| 7-8 | 87   | 7 | 70   | —  | 1.5 | A80×74 H10 | 110 f7 | 88 H7  | B80×74 c9 | 75   | 68   |

# D-带渐开线花键的实心轴输出

## D-Solid Shaft Output with Involute Spline



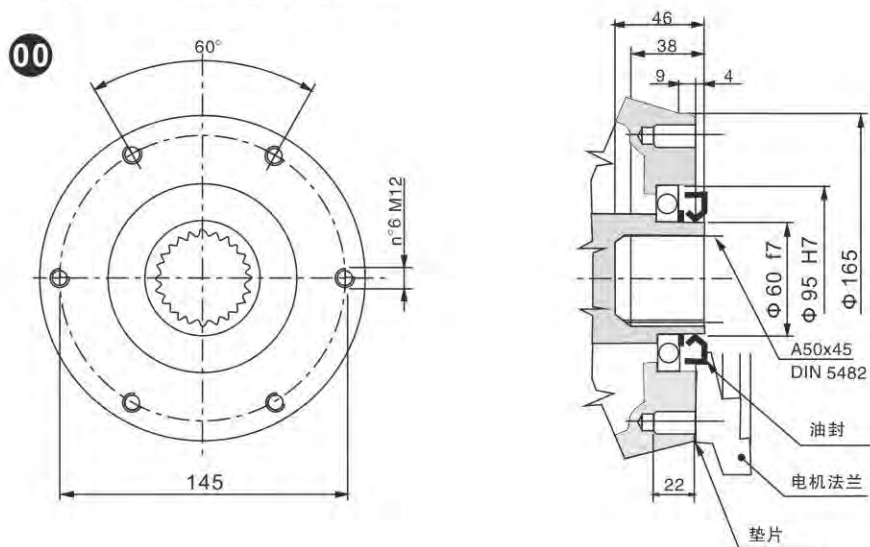
|     | d1  | N  | O  | P  | P1  | P2   | P3 | P4 | Q  | R    | S1         | T     | T1  | T2      | T3  | U  | Z  |
|-----|-----|----|----|----|-----|------|----|----|----|------|------------|-------|-----|---------|-----|----|----|
| 01  | M6  | 20 | 5  | 30 | 55  | 5    | 14 | 7  | 48 | 42   | B40×36 c9  | 35 f7 | 42  | A40×36  | 42  | 24 | 7  |
| 02  | M10 | 20 | 8  | 38 | 68  | 8    | 13 | 10 | 58 | 60   | B58×53 c9  | 50 f7 | 60  | A58×53  | 60  | 32 | 8  |
| 03  | M10 | 20 | 8  | 38 | 68  | 8    | 13 | 10 | 58 | 60   | B58×53 c9  | 50 f7 | 60  | A58×53  | 60  | 32 | 8  |
| 1   | M10 | 20 | 8  | 50 | 68  | 8    | 13 | 10 | 58 | 60   | B58×53 c9  | 50 f7 | 60  | A58×53  | 60  | 32 | 8  |
| 2   | M10 | 20 | 8  | 38 | 68  | 8    | 13 | 10 | 58 | 60   | B58×53 c9  | 50 f7 | 60  | A58×53  | 60  | 32 | 8  |
| 3   | M10 | 20 | 8  | 50 | 80  | 8    | 16 | 7  | 73 | 60   | B58×53 c9  | 50 f7 | 60  | A58×53  | 60  | 32 | 7  |
| 4-5 | M10 | 20 | 10 | 50 | 90  | 10.5 | 21 | 10 | 80 | 72g6 | B70×64 c9  | 62 g6 | 72  | A70×64  | 72  | 40 | 10 |
| 6   | M10 | 25 | 10 | 50 | 90  | 10.5 | 22 | 10 | 80 | 85   | B80×74 c9  | 70 f7 | 80  | A80×74  | 80  | 45 | 10 |
| 7-8 | M10 | 25 | 10 | 50 | 90  | 10.5 | 22 | 10 | 80 | 85f6 | B80×74 c9  | 70 f6 | 80  | A80×74  | 80  | 45 | 10 |
|     | M14 | 30 | 12 | 65 | 110 | 12   | 22 | 15 | 97 | 105  | B100×94 c9 | 85 f7 | 105 | A100×94 | 105 | 52 | 12 |

## 10. 输入轴尺寸 Input Shaft Dimension



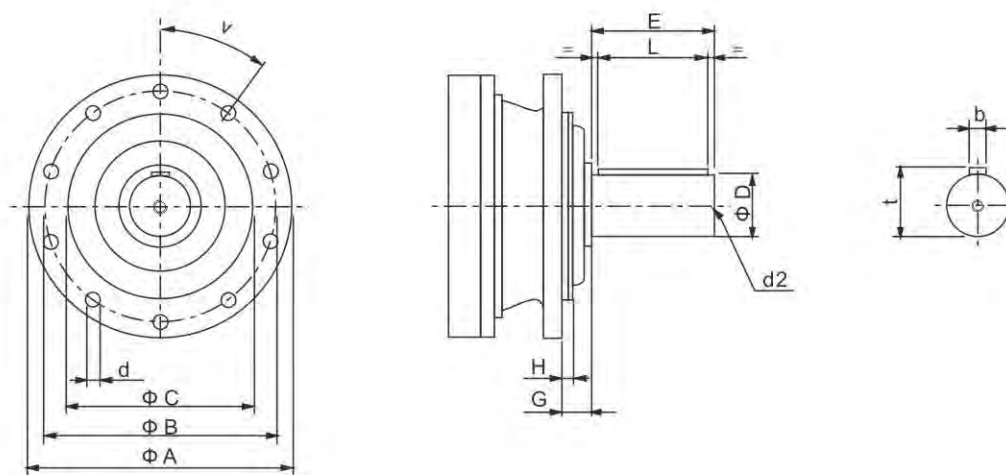
通用输入配置：附件代号00

General Input Configuration: Accessory Code 00

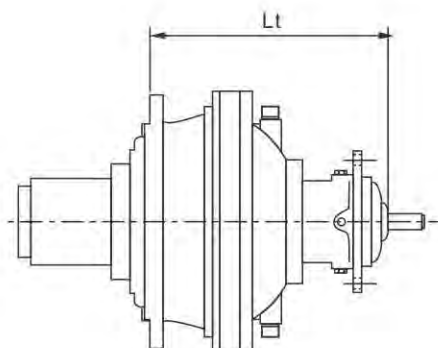


附件：ADM型法兰输入接口

Accessory: ADM flang solid shaft input interface



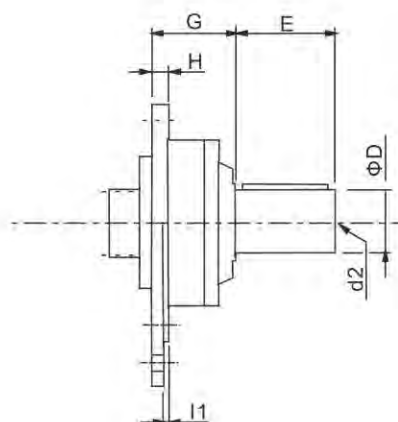
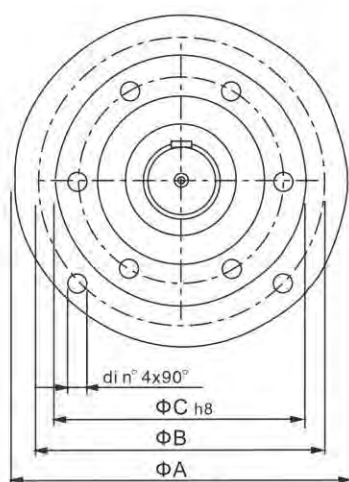
| 附件代号<br>Accessories<br>Code | A   | B   | C<br>f7 | D<br>m6 | E   | G  | H  | I  | L  | b  | d  | d2<br>DIN332 | t  |
|-----------------------------|-----|-----|---------|---------|-----|----|----|----|----|----|----|--------------|----|
| ADM1                        | 220 | 195 | 150     | 65      | 105 | 15 | 5  | 16 | 90 | 18 | 14 | M20 × 42     | 69 |
| ADM2                        | 272 | 245 | 175     | 65      | 105 | 39 | 10 | 18 | 90 | 18 | 14 | M20 × 42     | 69 |



| 规格<br>Type | 行星级数<br>Slages | Lt                          |      |
|------------|----------------|-----------------------------|------|
|            |                | ADM1                        | ADM2 |
| 02         | 1              | 255                         | 296  |
| 2          | 1              | 255                         | 296  |
|            | 2              | 323                         | 364  |
| 3          | 1              | 272                         | 313  |
|            | 2              | 340                         | 381  |
| 4          | 1              | ---                         | 363  |
|            | 2              | 386                         | 427  |
| 5          | 2              | 394                         | 435  |
|            | 3              | 461                         | 502  |
| 6          | 2              | 410                         | 451  |
|            | 3              | 477                         | 518  |
| 7          | 1              | 请咨询杰牌<br>Please Consult JIE |      |
|            | 2              |                             |      |
|            | 3              |                             |      |
| 8          | 2              |                             |      |
|            | 3              |                             |      |

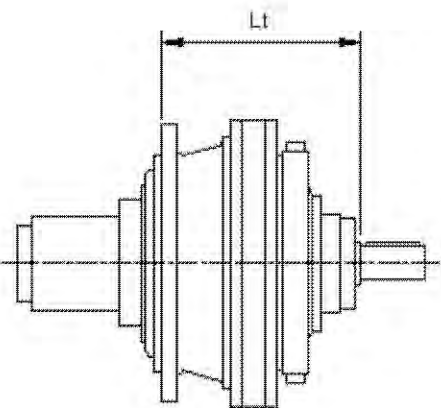
附件：AD2型实心轴输入接口

Accessory:AD2 Solid shaft input interface



| 附件代号<br>Accessories<br>Code | A  | B  | C  | D  | d1 | d2     | E  | G  | H  | l1 |
|-----------------------------|----|----|----|----|----|--------|----|----|----|----|
| AD1                         | -- | -- | -- | 28 | -- | M10×22 | 50 | 60 | 12 | -- |
| AD2                         | -- | -- | -- | 40 | -- | M10×22 | 58 | 60 | 14 | -- |

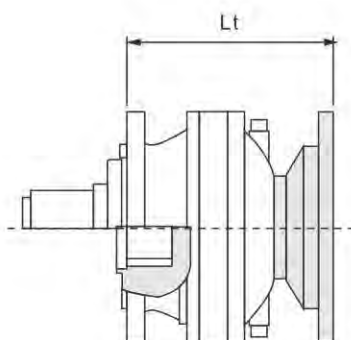




| 规格<br>Type | 行星级数<br>Stages | Lt  | 规格<br>Type                  | 行星级数<br>Series | LI  |
|------------|----------------|-----|-----------------------------|----------------|-----|
|            |                | AD2 |                             |                | AD2 |
| 01         | 1              | 187 | 4                           | 1              | 319 |
|            | 2              | 227 |                             | 2              | 383 |
|            | 3              | 266 |                             | 3              | 435 |
| 02         | 1              | 252 | 5                           | 4              | 475 |
|            | 2              | 305 |                             | 2              | 383 |
|            | 3              | 344 |                             | 3              | 435 |
|            | 4              | 384 | 6                           | 1              | 301 |
| 03         | 2              | 305 |                             | 2              | 368 |
|            | 3              | 344 |                             | 3              | 436 |
|            | 4              | 401 |                             | 4              | 488 |
| 1          | 2              | 321 | 7                           | 1              | 246 |
|            | 3              | 372 |                             | 2              | 323 |
|            | 4              | 412 |                             | 3              | 391 |
| 2          | 1              | 252 |                             | 4              | 443 |
|            | 2              | 320 | 8                           | 2              | 323 |
|            | 3              | 372 |                             | 3              | 391 |
|            | 4              | 429 |                             |                |     |
| 3          | 1              | 269 | 请咨询杰牌<br>Please Consult JIE |                |     |
|            | 2              | 337 |                             |                |     |
|            | 3              | 389 |                             |                |     |
|            | 4              | 429 |                             |                |     |

附件：IEC电机输入接口  
Accessory:IEC electric motor input interface

| 附件代号/Accessories Code | 对应的IEC电机机座/Corresponding IEC Motor |
|-----------------------|------------------------------------|
| IEC63                 | IEC63                              |
| IEC71                 | IEC71                              |
| IEC80                 | IEC80                              |
| IEC90                 | IEC90                              |
| IEC100                | IEC100                             |
| IEC112                | IEC112                             |
| IEC132                | IEC132                             |
| IEC160                | IEC160                             |
| IEC180                | IEC180                             |
| IEC200                | IEC200                             |
| IEC225                | IEC225                             |



| 规格<br>Type | 行星级数<br>Stages | Lt    |       |                |                  |        |                             |        |        |
|------------|----------------|-------|-------|----------------|------------------|--------|-----------------------------|--------|--------|
|            |                | IEC63 | IEC71 | IEC80<br>IEC90 | IEC100<br>IEC112 | IEC132 | IEC160<br>IEC180            | IEC200 | IEC225 |
| 01         | 1              | 147   | 149   | 154            | 155              | 222    | 请咨询杰牌<br>Please Consult JIE |        |        |
|            | 2              | 187   | 189   | 194            | 195              | 262    |                             |        |        |
|            | 3              | 226   | 228   | 233            | 234              | 301    |                             |        |        |
| 02         | 1              | 212   | 214   | 219            | 220              | 287    |                             |        |        |
|            | 2              | 265   | 267   | 272            | 273              | 340    |                             |        |        |
|            | 3              | 304   | 306   | 311            | 312              | 379    |                             |        |        |
|            | 4              | 344   | 346   | 351            | 352              | 419    |                             |        |        |
| 03         | 2              | 265   | 267   | 272            | 273              | 340    |                             |        |        |
|            | 3              | 304   | 306   | 311            | 312              | 379    |                             |        |        |
|            | 4              | 344   | 346   | 351            | 352              | 419    |                             |        |        |
| 1          | 2              | 281   | 283   | 288            | 289              | 356    |                             |        |        |
|            | 3              | 321   | 323   | 328            | 329              | 396    |                             |        |        |
|            | 4              | 361   | 363   | 368            | 369              | 436    |                             |        |        |
| 2          | 1              | 212   | 214   | 219            | 220              | 287    |                             |        |        |
|            | 2              | 280   | 282   | 287            | 288              | 355    |                             |        |        |
|            | 3              | 332   | 334   | 339            | 340              | 407    |                             |        |        |
|            | 4              | 372   | 374   | 379            | 380              | 447    |                             |        |        |
| 3          | 1              | 229   | 231   | 236            | 237              | 304    |                             |        |        |
|            | 2              | 297   | 299   | 304            | 305              | 372    |                             |        |        |
|            | 3              | 349   | 351   | 356            | 357              | 424    |                             |        |        |
|            | 4              | 389   | 391   | 396            | 397              | 464    |                             |        |        |
| 4          | 1              | 278   | 280   | 285            | 286              | 353    |                             |        |        |
|            | 2              | 343   | 345   | 350            | 351              | 418    |                             |        |        |
|            | 3              | 395   | 397   | 402            | 403              | 470    |                             |        |        |
|            | 4              | 435   | 437   | 442            | 443              | 510    |                             |        |        |
| 5          | 2              | --    | --    | --             | 359              | 425    |                             |        |        |
|            | 3              | 418   | 420   | 425            | 426              | 493    |                             |        |        |
| 6          | 1              | 261   | 263   | 268            | 269              | 336    |                             |        |        |
|            | 2              | 328   | 330   | 335            | 336              | 403    |                             |        |        |
|            | 3              | 396   | 389   | 403            | 404              | 471    |                             |        |        |
|            | 4              | 448   | 450   | 455            | 456              | 523    |                             |        |        |
| 7          | 2              | 283   | 285   | 290            | 291              | 358    |                             |        |        |
|            | 3              | 351   | 353   | 358            | 359              | 426    |                             |        |        |
|            | 4              | 403   | 405   | 410            | 411              | 478    |                             |        |        |
| 8          | 2              | --    | --    | 299            | 300              | 367    |                             |        |        |
|            | 3              | 365   | 367   | 372            | 373              | 440    |                             |        |        |

## 11. 安装 Installation



齿轮箱法兰连接，螺栓等级要求不低于10.9级，  
拧紧力矩按下表执行。

Gear unit flange connection, the bolt grade is not lower  
than 10.9 tightening torque as the following table.

| 齿轮箱规格<br>Gear unit size | 螺栓规格(10.9)<br>Bolt specification | 拧紧力矩(Nm)<br>Tightening torque |
|-------------------------|----------------------------------|-------------------------------|
| 01                      | M8                               | 37                            |
| 02                      | M12                              | 127                           |
| 03                      | M12                              | 127                           |
| 1                       | M12                              | 127                           |
| 2                       | M12                              | 127                           |
| 3                       | M12                              | 127                           |
| 4                       | M14                              | 201                           |
| 5                       | M14                              | 201                           |
| 6                       | M16                              | 314                           |
| 7                       | M14                              | 201                           |
| 8                       | M14                              | 201                           |

安装齿轮箱时，要避免轴头受到轴向冲击，防止内部的  
轴承受到永久的损伤。

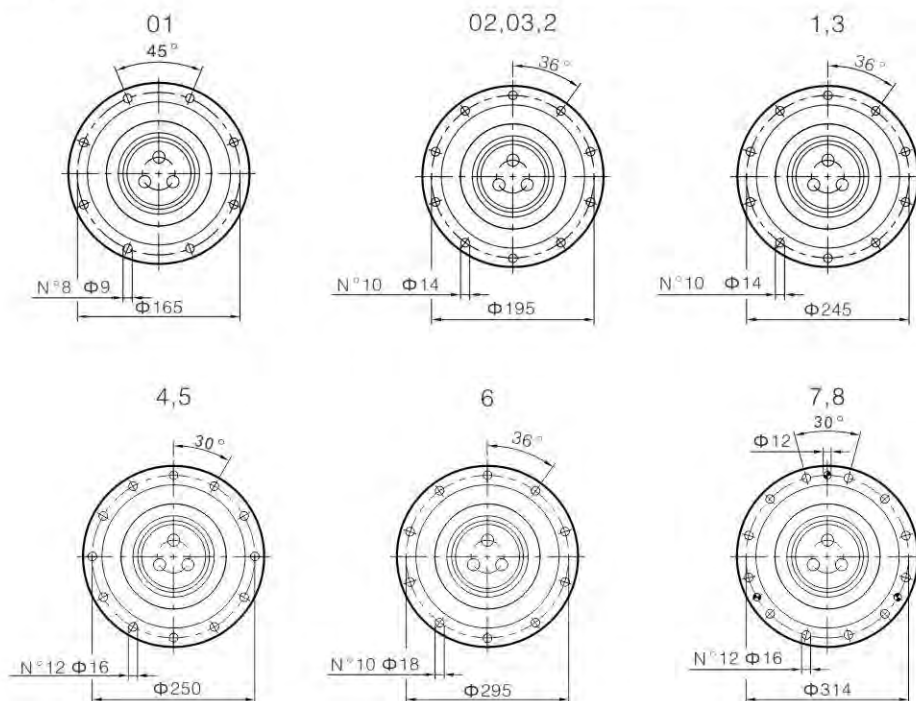
During assembly, violent axial impacts to prevent the  
permanent damage of bearings.

建议使用弹性联轴器连接电机与齿轮箱输入轴，可以  
一定程度上修复安装时的不对中。如果电机与齿轮箱  
输入轴必须使用机械连接，请在装配过程中特别注意  
他们之间的对中情况。

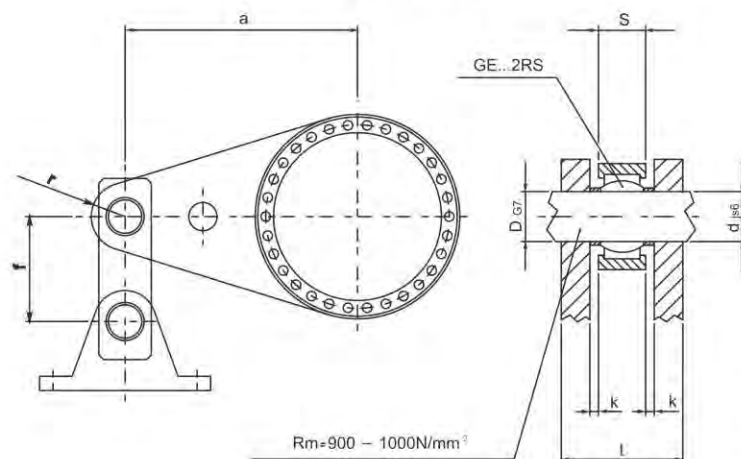
Recommend the couplings recover misalignment to  
connect the gearbox and motor. To in case of the  
mechanical connection please pay special care to  
the alignment between gearbox and motor during  
assembly operations.

法兰安装尺寸图

Flange-mounted Dimension Chart



## 12. 扭矩臂 Torque Arm



|      | a min<br>(mm) | s<br>(mm) | r min<br>(mm) | f min<br>(mm) | D d<br>(mm) | k<br>(mm) | t min<br>(mm) |
|------|---------------|-----------|---------------|---------------|-------------|-----------|---------------|
| 01   | 200           | 15        | 20            | 80            | 20          | 2         | 35            |
| 02   | 300           | 15        | 20            | 80            | 20          | 2         | 35            |
| 03-2 | 300           | 20        | 25            | 100           | 25          | 3         | 46            |
| 4    | 400           | 20        | 25            | 100           | 25          | 3         | 46            |
| 6    | 500           | 25        | 30            | 150           | 30          | 3         | 55            |
| 7    | 600           | 25        | 30            | 150           | 30          | 3         | 55            |

## 13. 润滑方案 Lubricant Oil

齿轮箱常规供货时已含润滑油，润滑油的基本特性

在选择润滑油的时候要考虑的重要参数是：

- 正常工作下的运动粘度
- 添加剂

粘度

通常润滑油的运动粘度是指温度在40℃时的标准，但随着温度的上升粘度会减小。如果工作温度在50℃~70℃之间，可以从下表选择润滑油的粘度。

Gear units are supplied with lubricant, therefore the lubricant must be checked before the work.

Fundamental characteristics of the oil:

The important parameters to consider when choosing the type of oil are:

Viscosity at nominal operating conditions

Additives

Viscosity

Viscosity usually the determination is the standard on the a temperature of 40°C, but decreases with an increase in temperature. If the operating temperature is between 50°C and 70°C the viscosity can be chosen as the following table.

| $n_2$ (r/min)     | 50°C  | 70°C  |
|-------------------|-------|-------|
| $n_2 > 20$        | VG150 | VG220 |
| $20 \geq n_2 > 5$ | VG220 | VG320 |
| $n_2 \leq 5$      | VG320 | VG460 |



特别要注意的是如果输出轴承受大负荷和低转速 ( $< 1 \text{ r/min}$ ), 建议使用含极压添加剂的高粘度润滑油。添加剂

润滑油中除正常的抗泡剂和抗氧化添加剂外, 极压和抗磨添加剂是很重要的。使用含极压的润滑油 (如美孚SHC) 用于低速齿轮箱是非常有必要的。

#### 润滑油类型

常用的润滑油分为三大类:

- 矿物油 (MIN-油)
- Poly- $\alpha$  Olefin (PAO-油)
- 聚乙二醇 (PG-油)

与矿物油相比, 合成油具有较大的温度使用范围及较高的粘度指数, 即粘度温度变化曲线较为平缓。

#### 温度使用范围参考值:

如果是矿物油, 大约  $-10^{\circ}\text{C} \sim 90^{\circ}\text{C}$  (瞬间  $100^{\circ}\text{C}$ )

如果是合成油 (PAO-油和PG-油), 大约  $-20^{\circ}\text{C} \sim 100^{\circ}\text{C}$  (瞬间  $110^{\circ}\text{C}$ )

说明: 各种润滑油的使用温度上下限可能会与所述值有很大差别当使用情况在上述温度范围之外时, 就必须要注意润滑油的燃点以及倾点。

Special attention must be paid to heavily loaded output stages and with very low speeds ( $< 1 \text{ r/min}$ ). With EP additives suggest to use high viscosity oils.

#### Additives

In addition to the normal antifoaming and antioxidant additives, it is important to use lubricating oils with additives that provide extreme pressure and antiwear properties.

Therefore it will be necessary to find products with extreme pressure characteristics all the stronger (type Mobil Gear SHC) the lower the gear unit speed.

#### Types of oils

The oils available generally belong to three big families.

- Mineral oils (MIN-oils)
- Poly- $\alpha$  Olefin (PAO- oils)
- Poly-Glycol synthetic oils

Compared with mineral oil, the synthetic oil has a higher temperature range and higher viscosity index, which is the temperature change curve of viscosity. Temperature range reference value:

If it is mineral oil, it is about  $-10^{\circ}\text{C} \sim 90^{\circ}\text{C}$  (The instant  $100^{\circ}\text{C}$ )

If it is a synthetic oil, it is about  $-20^{\circ}\text{C} \sim 100^{\circ}\text{C}$  (The instant  $110^{\circ}\text{C}$ )

Description: limit values on the use of all kinds of lubricating oil temperature could be different from the described value when usage are outside the temperature ranges, we must pay attention to the ignition point and pour point of lubricant oil.

常用润滑油选择表

Selection of Oil Table

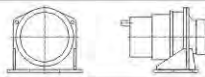
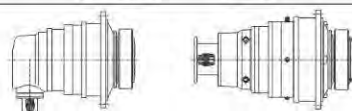
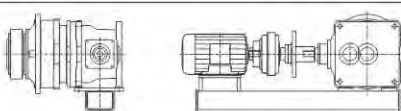
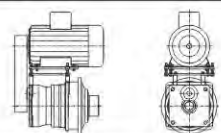
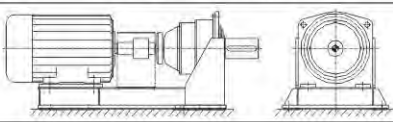
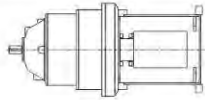
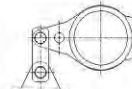
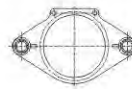
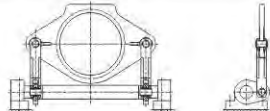
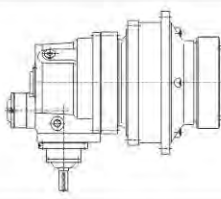
| 润滑油品牌<br>Oil | 矿物油 Mineral oil     |                     |                     | PAO-油 PAO-oil         |                       |                       | PG-油 PG-oil          |                      |                      |
|--------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
|              | VG150               | VG220               | VG320               | VG150                 | VG220                 | VG320                 | VG150                | VG220                | VG320                |
| BP           | Energol GR-XP 150   | Energol GR-XP 220   | Energol GR-XP 320   | Energol EPX 150       | Energol EPX 220       | Energol EPX 320       | Energol SG 150       | Energol SG-XP 220    | Energol SG-XP 320    |
| Castrol      | Alpha SP 150        | Alpha SP 220        | Alpha SP 320        | Alphasyn EP 150       | Alphasyn EP 220       | Alphasyn EP 320       | Alphasyn PG 150      | Alphasyn PG 220      | Alphasyn PG 320      |
| Fuchs        | Renolin CKC 150     | Renolin CKC 220     | Renolin CKC 320     | RenolinUnisyn CKC 150 | RenolinUnisyn CKC 220 | RenolinUnisyn CKC 320 | Renolin PG 150       | Renolin PG 220       | Renolin PG 320       |
| Klüber       | Kluberoil GEM 1-150 | Kluberoil GEM 1-220 | Kluberoil GEM 1-320 | Klubersynth EG 4-150  | Klubersynth EG 4-220  | Klubersynth EG 4-320  | Klubersynth GH 6-150 | Klubersynth GH 6-220 | Klubersynth GH 6-320 |
| Mobil        | Mobilgear XMP 150   | Mobilgear XMP 220   | Mobilgear XMP 320   | Mobilgear SHC XMP 150 | Mobilgear SHC XMP 220 | Mobilgear SHC XMP 320 | Glygoyle 22          | Glygoyle 30          | Glygoyle HE320       |
| Shell        | Omala 150           | Omala 220           | Omala 320           | Omala HD 150          | Omala HD 220          | Omala HD 320          | Tivela S 150         | Tivela S 220         | Tivela S 320         |
| Total        | Carter EP 150       | Carter EP 220       | Carter EP 320       | Carter SH 150         | Carter SH 220         | Carter SH 320         | Carter SY 150        | Carter SY 220        | Carter SY 320        |
| 长城           |                     | CKD220              | CKD320              |                       |                       |                       |                      |                      |                      |
| 昆仑           |                     | CKD220              | CKD320              |                       |                       |                       |                      |                      |                      |

## 14.产品附件 Add-on Pieces



附件表

Table of Add-on Pieces

| 标记<br>Identific Cation | 附件<br>Add-on Piece                                                         |                             | 附图<br>Representation                                                                  |
|------------------------|----------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 00                     | 无附件 / Without add-on Piece                                                 |                             |                                                                                       |
| 01                     | 齿轮箱基座<br>Gear housing base                                                 | 请咨询杰牌<br>Please Consult JIE |    |
| 70 1)                  | 电机安装法兰 (输入端)<br>Motor bell housing (input)                                 | 见第55-59页<br>see page55-59   |    |
| 71 1)                  | 电机支架 (电动机, 联轴器)<br>Motor bracket(motor, coupling)                          | 请咨询杰牌<br>Please Consult JIE |    |
| 72                     | 电机支架<br>Motor bracket                                                      | 请咨询杰牌<br>Please Consult JIE |   |
| 73 1)                  | 电机浮动底座 (电动机, 联轴器, 齿轮箱)<br>Motor floating base (motor, coupling, gear unit) | 请咨询杰牌<br>Please Consult JIE |  |
| 74 1)                  | 安装法兰 (输出端)<br>Flange-mounting(output)                                      | 请咨询杰牌<br>Please Consult JIE |  |
| 75                     | (单侧)扭矩臂<br>Torque reaction arm(on one side)                                | 见第60页<br>see page 60        |  |
| 76                     | (双侧)扭矩臂<br>Torque reaction arm(on both side)                               | 请咨询杰牌<br>Please Consult JIE |  |
| 77                     | 扭力轴支撑<br>Torsion shaft support                                             | 请咨询杰牌<br>Please Consult JIE |  |
| 78                     | 逆止器 (JRP2K../JRP3K..)<br>Backstop ( JRP2K../JRP3K.. )                      | 请咨询杰牌<br>Please Consult JIE |  |
| 79                     | 特殊设计<br>Special design                                                     |                             |                                                                                       |

1)不能应用刚性联轴器

1)Not for rigid couplings



## 15. 齿轮箱油位 Oil Level of Gear unit

### 水平安装

#### 水平的位置

水平安装的齿轮箱通常油量加到中心线上，见图A。如果输出转速比较低( $n_2 < 5r/min$ )，建议多加高50~100mm的润滑油，见图B。

如果输出转速极低( $n_2 < 1r/min$ )，或者长时间不使用齿轮箱，那么最好把箱体装满润滑油。在这种情况下，必须设计一个补油箱。

### Horizontal mounting

#### Position of levels

With horizontal mounting of the gear unit, the normal level for guaranteeing correct lubrication is located at the center line, Fig.(A). For applications with very low output rotation speed ( $n_2 < 5r/min$ ), it is advisable to fix the level at a value higher than 50–100mm, Fig.(B).

If the output speed is extremely low ( $n_2 \leq 1r/min$ ), or if long gear unit downtimes are foreseen, it is advisable to fill the entire box. In this case a special auxiliary tank must be provided.

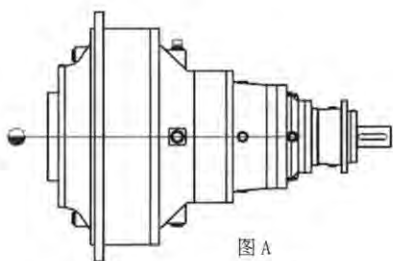


图 A  
Fig.(A)

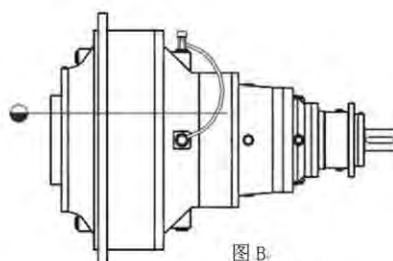


图 B  
Fig.(B)

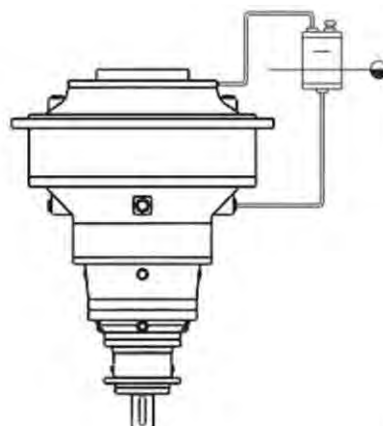
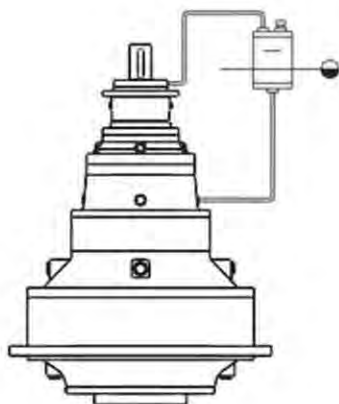
### 竖直安装

在竖直安装时通过补油箱供油润滑，见图。

竖直安装时润滑油须加满齿轮箱，补油箱的设计考虑到运行状态下润滑油的体积变化。补油箱既可固定在齿轮箱箱体上，也可固定在用户设备的机架上。

### Vertical mounting

Several rules must be followed with vertical mounting, and in any case whenever the gear unit has to be completely filled. During filling, an air bubble can form in the upper part, and which must be eliminated in order to avoid insufficient lubrication of the seal. Also, since the volume of oil increases with the temperature, an auxiliary tank must be provided to allow the oil to expand without creating dangerous pressures inside the gear unit.



## 16.注油量 Oil Quantity



下表数据为齿轮箱500水平安装时的注油量。如果齿轮箱为600/900竖直安装时，注油量为500安装时的两倍

The following table data of oil quantity is for horizontal mounting(500) of gear unit. if the mounting type of gear unit is vertical mounting, the oil quantity is twice as much as the following table data.

| 型号        | 输出轴     | 注油量(L)<br>oil quantity(L) | 型号       | 输出轴   | 注油量(L)<br>oil quantity(L) | 型号       | 输出轴     | 注油量(L)<br>oil quantity(L) |
|-----------|---------|---------------------------|----------|-------|---------------------------|----------|---------|---------------------------|
| JRP1N..01 | A-B-C-D | 0.5                       | JRP1N..3 | B-D   | 1.2                       | JRP3N..6 | A-B-C-D | 3.3                       |
| JRP2N..01 | A-B-C-D | 0.8                       | JRP2N..3 | B-D   | 2                         | JRP4N..6 | A       | 4                         |
| JRP3N..01 | A-B-C-D | 0.9                       | JRP3N..3 | B-D   | 1.8                       |          | B-D     | 5                         |
| JRP1N..02 | A-B-D   | 1                         | JRP4N..3 | B-D   | 2.2                       |          | C       | 3.8                       |
|           | C       | 1.2                       | JRP1N..4 | A-B-D | 1.6                       | JRP2N..7 | A       | 2.5                       |
| JRP2N..02 | A-B-D   | 1.2                       |          | C     | 1.8                       |          | B-D     | 4.5                       |
|           | C       | 1.5                       | JRP2N..4 | A-B-D | 2.4                       |          | C       | 2.5                       |
| JRP3N..02 | A-B-D   | 1.6                       |          | C     | 2.6                       | JRP3N..7 | A       | 3.5                       |
|           | C       | 1.7                       | JRP3N..4 | A-B-D | 2.3                       |          | B-D     | 5.3                       |
| JRP4N..02 | A-B-D   | 1.7                       |          | C     | 2.5                       |          | C       | 3                         |
|           | C       | 1.8                       | JRP4N..4 | A-B-D | 2.5                       | JRP4N..7 | A       | 3.7                       |
| JRP2N..03 | A-B-D   | 1.3                       |          | C     | 2.8                       |          | B-D     | 5.5                       |
|           | C       | 1.1                       | JRP1N..5 | A-B-D | 1.6                       |          | C       | 3.5                       |
| JRP3N..03 | A-B-C-D | 1.6                       |          | C     | 1.8                       | JRP2N..8 | A       | 2.5                       |
| JRP4N..03 | A-B-C-D | 1.7                       | JRP2N..5 | A-B-D | 2.4                       |          | B-D     | 4.5                       |
| JRP2N..1  | B-D     | 1.7                       |          | C     | 2.6                       |          | C       | 2.5                       |
| JRP3N..1  | B-D     | 1.7                       | JRP3N..5 | A-B-D | 2.3                       | JRP3N..8 | A       | 3.5                       |
| JRP4N..1  | B-D     | 1.8                       |          | C     | 2.5                       |          | B-D     | 5.3                       |
| JRP1N..2  | A-B-D   | 1                         | JRP4N..5 | A-B-D | 2.5                       |          | C       | 3                         |
|           | C       | 1.1                       |          | C     | 2.8                       |          |         |                           |
| JRP2N..2  | A-B-D   | 1.6                       | JRP1N..6 | A-C   | 2.2                       |          |         |                           |
|           | C       | 1.5                       |          | B-D   | 3                         |          |         |                           |
| JRP3N..2  | A-B-C-D | 1.6                       | JRP2N..6 | A     | 2.2                       |          |         |                           |
| JRP4N..2  | A-B-D   | 2.2                       |          | B-D   | 3.5                       |          |         |                           |
|           | C       | 2.5                       |          | C     | 3.2                       |          |         |                           |

## 五. JRP9~36行星齿轮箱 分目录



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## JRP 9~36 Planetary Gear Units SUB-CONTENTS

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| P72-79   | 3. Selection Description                  |
| P80      | 4. Combinations                           |
| P81-96   | 5. Technical Data                         |
| P97-99   | 6. Actual Ratios                          |
| P100-103 | 7. Variants of Output Shafts              |
| P104-110 | 8. Add-on Pieces                          |
| P111-116 | 9. Input Flange Dimension                 |
| P117-119 | 10. Lubricant Oil                         |
| P120     | 11. Identifications of Shaft Arrangements |
| P121     | 12. Explosion Protection                  |

17. 布置形式  
Mounting Positions



|                                | 01-6    | 7-8     | 01-6    | 7-8     |
|--------------------------------|---------|---------|---------|---------|
| 输出轴<br>Output shaft<br><br>B、D | <br>500 | <br>500 | 900<br> | 900<br> |
|                                |         |         | 600<br> | 600<br> |
| 输出轴<br>Output shaft<br><br>C.  | <br>500 | <br>500 | 900<br> | 900<br> |
|                                |         |         | 600<br> | 600<br> |
| 输出轴<br>Output shaft<br><br>A.  | <br>500 | <br>500 | 900<br> | 900<br> |
|                                |         |         | 600<br> | 600<br> |

● 放油螺塞 Drain plug

◐ 视油镜 oil level plug

○ 通气器 breather and filling plug

## 1. 产品说明

### Product Description

#### 1.1 产品性能特点

#### Product Characteristics

杰牌JRP行星齿轮箱，拥有自主知识产权，产品具有不漏油、长寿命、大扭矩、大速比和智能化等亮点，包括JRP..N行星齿轮箱、JRP..S平行轴—行星齿轮箱、JRP..L直交轴—行星齿轮箱、JRP..K直交轴—平行轴—行星齿轮箱等全系列产品。

杰牌JRP行星齿轮箱，通过完整产品策划与设计 and 全价值链精益生产最优方案实施，推进精益生产、建设智能工厂，实现研产供销服一体化，以满足客户对快速响应的需求。

杰牌JRP行星齿轮箱，遵循模块化和最优化设计理念，全系列产品包括AD2型实心轴输入接口、ADM型法兰实心轴输入接口、IEC电机输入接口，A型锁紧盘输出模块、B型实心轴输出模块、C型花键空心轴输出模块、D型花键实心轴输出模块，基座安装、法兰安装、扭矩臂安装等多种输入接口、输出模块和安装型式，同时支持多级减速机和不同型号规格减速机的模块化组合与集成，并可根据客户需要进行个性化的设计与制造。

杰牌为全球好客户做好产品！

JRP planetary gear units, with independent intellectual property rights, is featured with no oil leakage, long service life, high torque, high speed ratio and intelligence. It includes JRP..N planetary gear units, JRP..S parallel shaft planetary gear units, JRP..L Bevel helical planetary gear units, JRP..K bevel helical – parallel shaft planetary gear units, and other JRP series product.

JRP planetary gear units promotes lean production, builds intelligent factories, and realizes the integration of research, production, supply, marketing and service, so as to meet customers' demand for rapid response through complete product planning and design such as "core product-extreme technology, peripheral product-extreme service, external product-extreme experience" and the implementation of the optimal plan of lean production in the whole value chain such as "product planning, design validation, processing test, assembly test, warehouse logistics, sales service, information system, HR, operation plan, strategy planning".

JRP planetary gear units follows the concept of modular and optimized design. The whole-series product comprises AD2 solid shaft input interface, ADM flange solid shaft input interface, IEC electric motor input interface, A type shrink disc output module, B type solid shaft output module, C type hollow shaft with spline output module, D type solid shaft with spline output module, base installation, flange installation, torque arm installation and other input interfaces, output modules and installation types. This product supports the modular combination and integration of multi-stage gearbox with different types adapters. And available for customized base on customer requirement.

JIE Drive provides great products to great partners across the world!



## 1.2 一般说明 General Information

### 注意事项!

- 样本中的附图只属范例，并不具有约束力。JIE 保留变更尺寸的权利。
- 所注重量仅为平均值，并不具有约束力。
- 为防止意外事故发生，所有旋转部件均应按照使用者所在国家和地区的安全规范由购置方加罩保护。
- 试车之前必须认真阅读操作说明。齿轮箱在供货时已处于准运行状态，运行前需加注润滑油。
- 样本中所示注油量只作为参考值，实际注油量应以油尺上的标记为准。
- 润滑油粘度应符合齿轮箱铭牌上的数据。
- 齿轮箱在供货时已配置了径向轴封。如果需要其他类型的轴封敬请垂询。
- 转动方向是指面向输出轴时输出轴d2的转动方向。

### Attention!

- Illustrations are examples only and not structly binding. JIE reserves the ringht to change the dimensions
- The weights are average values and not strictly binding.
- To prevent the accidents,all rotanting parts should be guarded according to local and national safety regulations and be protected by cover.
- Prior to caommissioning,the operating instructions must be read.The gear units are on the ready-operational condition while delivery, the luhicent should be filled before operation.
- Oil quantities given are just for reference only.The exact quantity of oil will follow the oil dipstick.
- The oil ciscosity should be accord with the data given on the name plate.
- The gear units are supplied with radial shaft seals.For other typpes of oil seal, pleass inquire.
- Directions of rotation refev to output shaft d2.

在尺寸图上所使用的符号说明如下：

-  =油尺
-  =通气孔
-  =放油孔
-  =注油孔

● Illustration of symbols as following.

-  =Oil dipstick
-  =Breather
-  =Oil drain
-  =Oil filler



### 1.3 基本类型概述

### Summary of Basic Types

两级行星齿轮

2 Stages Planetary unit

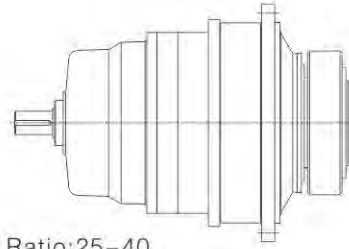
示例 / Example

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | N | A |
|-----|---|---|---|

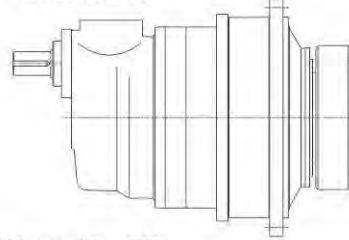
|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | S | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | L | A |
|-----|---|---|---|

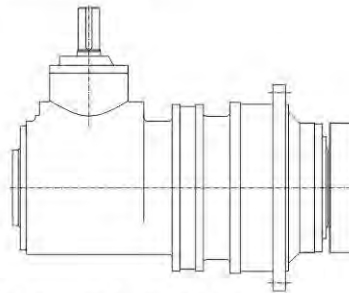
|     |   |   |   |
|-----|---|---|---|
| JRP | 2 | K | A |
|-----|---|---|---|



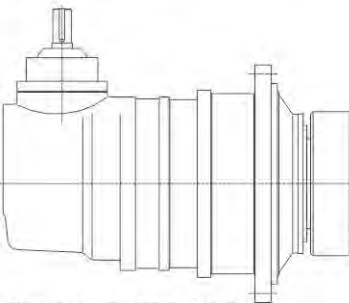
传动比 / Ratio: 25-40



传动比 / Ratio: 45-125



传动比 / Ratio: 31.5-100 ( L )



传动比 / Ratio: 112-500 ( K )

A = 带锁紧盘的空心轴输出 / Hollow Shaft Output With Shrink Disc

B = 带平键的实心轴输出 / Solid Shaft Output With Flat Key.

C = 带渐开线花键的空心轴输出 / Hollow Shaft Output With Involute Spline

D = 带渐开线花键的实心轴输出 / Solid Shaft Output With Involute Spline

N = 标准 ( 同轴式 ) / Standard (coaxial)

S = 平行轴-行星 / One stage Helical gear parallel shaft

L = 直交轴-行星 / One stage Bevel gear rectangular shaft

K = 直交轴-平行轴-行星 / One stage Bevel-helical gear first stage

2 = 行星齿轮级数 / Stages of planetary gear

JRP = 杰牌行星齿轮箱 / JIE Planetary gear units



三级行星齿轮  
示例 / Example

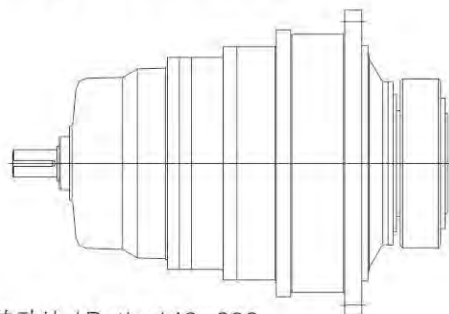


|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | N | A |
|-----|---|---|---|

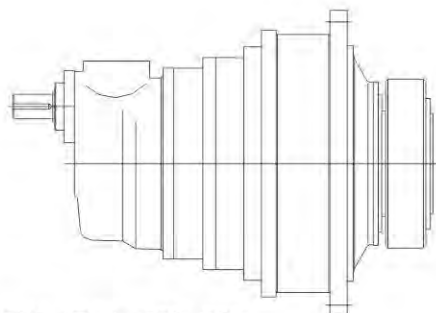
|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | S | A |
|-----|---|---|---|

|     |   |   |   |
|-----|---|---|---|
| JRP | 3 | K | A |
|-----|---|---|---|

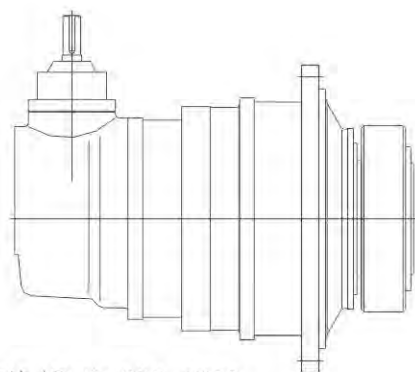
3 Stages Planetary unit



传动比 / Ratio: 140-280



传动比 / Ratio: 280-900



传动比 / Ratio: 560-4000

- A = 带锁紧盘的空心轴输出 / Hollow Shaft Output With Shrink Disc
- B = 带平键的实心轴输出 / Solid Shaft Output With Flat Key.
- C = 带渐开线花键的空心轴输出 / Hollow Shaft Output With Involute Spline
- D = 带渐开线花键的实心轴输出 / Solid Shaft Output With Involute Spline
- N = 标准 (同轴式) / Standard (coaxial)
- S = 平行轴-行星 / Helical gear stage
- K = 直交轴-平行轴-行星 / Bevel-helical gear stage
- 3 = 行星齿轮级数 / Number of planetary gear stages
- JRP = 杰牌行星齿轮箱 / JIE Planetary gear units

## 2. 型号说明

### Model Description

**J RP 3 N A 12 160 500 00**

1 2 3 4 5 6 7 8 9



|          |                                                                 |          |                                                                                 |          |                            |
|----------|-----------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|----------------------------|
| <b>1</b> | <b>企业代码</b><br>J-杰牌传动                                           | <b>2</b> | <b>产品代码</b><br>RP-行星齿轮箱                                                         | <b>3</b> | <b>传动级数</b><br>2,3         |
| <b>4</b> | <b>类型</b><br>N-标准型(同轴式)<br>S-平行轴-行星<br>L-直交轴-行星<br>K-直交轴-平行轴-行星 | <b>5</b> | <b>输出轴形式</b><br>A-带锁紧盘的空心轴输出<br>B-带平键的实心轴输出<br>C-带渐开线花键的空心轴输出<br>D-带渐开线花键的实心轴输出 | <b>6</b> | <b>规格</b><br>9...36        |
| <b>7</b> | <b>传动比</b><br>见: P97-99                                         | <b>8</b> | <b>布置形式</b><br>见: P120                                                          | <b>9</b> | <b>产品附件</b><br>见: P104-110 |

|          |                                                                                                                                   |          |                                                                                                                                                                                                       |          |                                        |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|
| <b>1</b> | <b>Enterprise Code</b><br>J-JIE Drive                                                                                             | <b>2</b> | <b>Product Code</b><br>RP - Planetary Gear Units                                                                                                                                                      | <b>3</b> | <b>Planetary</b><br>gear stages<br>2,3 |
| <b>4</b> | <b>Type of planetary gear</b><br>N -Standard(coaxial)<br>S-Helical gear stage<br>L-Bevel gear stage<br>K-Bevel-helical gear stage | <b>5</b> | <b>Output shaft design</b><br>A-Hollow Shaft Output with shrink disc<br>B-Solid Shaft Output with Flat Key<br>C-Hollow Shaft Output with Involute Spline<br>D-Solid Shaft Output with Involute Spline | <b>6</b> | <b>Size</b><br>9...36                  |
| <b>7</b> | <b>Ratio</b><br>page 97-99                                                                                                        | <b>8</b> | <b>Shaft Arrangements</b><br>page 120                                                                                                                                                                 | <b>9</b> | <b>Accessory</b><br>page 104-110       |

示例 JRP3NA12-160-500-00

Example JRP3NA12-160-500-00

杰牌JRP系列产品中同轴式行星齿轮箱, 3级行星齿轮传动, 带锁紧盘的空心轴输出, 12号齿轮箱, 公称传动比为160, 齿轮箱卧式安装, 无附件。

JIE Series products, Coaxial planetary gear units, 3 stages, Hollow shaft with shrink disk, Size 12, Nominal ratio 160, Horizontal mounting position, Without Accessory.

### 3. 选型说明 Selection Description

#### 3.1 符号说明 Illustration Symbols



$E_D$  = 每小时工作周期, 以 %表示 (例如  $E_D = 60\%/h$ )

$f_1$  = 工作机系数 (表1), 见第75页

$f_2$  = 原动机系数 (表2), 见第76页

$f_3$  = 峰值扭矩系数 (表3), 见第76页

$f_4$  = 环境温度系数 (表4), 见第76页

$f_5$  = 载荷利用系数 (表5), 见第76页

$f_6$  = 海拔高度系数 (表6), 见第76页

$F_{r2}$  = 容许作用在轴D2上的径向力(KN)

$E_D$  = Operating cycle per hour %, e.g.  $E_D = 60\%/h$

$f_1$  = Factor for driven machine(table 1), page 75

$f_2$  = Factor for prime mover(table 2), page 76

$f_3$  = Peak torque factor(table 3), page 76

$f_4$  = Thermal factor(table 4), page 76

$f_5$  = Utilization factor(table 5), page 76

$f_6$  = Actitude factor(table 6), page 76

$F_{r2}$  = Permissible radial forces(KN) on shaft D2

$i$  = 实际传动比

$i_n$  = 公称传动比

$i_s$  = 所需传动比

$n_1$  = 输入转速(r/min)

$n_2$  = 输出转速(r/min)

$P_G$  = 所需热容量(kW)

$P_{G1}$  = 不带辅助冷却装置的齿轮箱热容量(kW)

$i$  = Actual ratio

$i_n$  = Nominal ratio

$i_s$  = Required ratio

$n_1$  = Input speed(r/min)

$n_2$  = Output speed(r/min)

$P_G$  = Required thermal capacity(kW)

$P_{G1}$  = Thermal capacity(kW) for gear units without auxiliary cooling

$P_N$  = 齿轮箱额定功率(kW), 见功率表

$P_N$  = Nominal power rating of gear unit(kW),  
See rating tables

$P_{brf}$  = 所需功率(kW)

$P_{brf}$  = Required power rating(kW)

$P_2$  = 工作机功率(kW)

$P_2$  = Power rating of driven machine(kW)

$P_{st}$  = 起动功率(kW)

$P_{st}$  = Starting power rating(kW)

$t$  = 环境温度( $^{\circ}C$ )

$t$  = Ambient temperature( $^{\circ}C$ )

$T_A$  = 输入轴最大扭矩, 例如峰值扭矩, 启动扭矩或制动扭矩(Nm)

$T_A$  = Max. torque of input shaft, e.g. peak torque, starting- or braking torque(Nm)

$T_{2N}$  = 额定输出扭矩(Nm)

$T_{2N}$  = Nominal output torque(Nm)

$T_2$  = 工作机扭矩(Nm)

$T_2$  = Torque(Nm) of driven machine

$P_{2eq}$  = 当量功率(kW)

$P_{2eq}$  = Equivalent power (kW)

$P_1, P_{11}, P_n$  = 与载荷谱对应的功率分量(kW)

$P_1, P_{11}, P_n$  = Fractions of power rating(kW) obtained from service classification

$T_{2eq}$  = 当量扭矩(Nm)

$T_{2eq}$  = Equivalent torque(Nm)

$T_1, T_{11}, T_n$  = 与载荷谱对应的扭矩分量(Nm)

$T_1, T_{11}, T_n$  = Fractions of torque(Nm) obtained from Service classification

$X_1, X_{11}, X_n$  = 与载荷谱对应的时间分量(%)

$X_1, X_{11}, X_n$  = Fractions of time(%) obtained from Service classification

## 3.2 选型指南 Guidelines for the Selection

### 3.2.1 恒定功率 Constant Power Rating



|                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. 确定齿轮箱类型和规格<br/>Type and size</p>                                                                                                  | <p>1.1 确定传动比/Determine the ratio</p> $i_s = \frac{n_1}{n_2}$ <p>1.2 确定齿轮箱额定功率/Determine the nominal power rating of the gear unit</p> $P_N \geq P_{eff} = P_2 \times f_1 \times f_2$ <p>1.3 检验是否满足下列条件/Verify that the following conditions.<br/>如果不满足下列条件请与我们联系/If not, please contact us:</p> $3.33 \times P_2 \geq P_N$ <p>1.4 校核最大扭矩, 例如峰值工作扭矩, 起动扭矩或制动扭矩<br/>Check the maximum torque, e.g. peak torque, starting- or braking torque</p> $P_N \geq P_{st} = \frac{T_A \times n_1}{9550} \times f_3$ <p>根据额定功率表中<math>i_n</math>和<math>P_n</math>值确定齿轮箱的规格和传动级数<br/>Confirm the sizes and stages according to the <math>i_n</math> and <math>P_n</math> in the power table.</p> |
| <p>2. 确定齿轮箱载荷利用率和所需的热容量<math>P_G</math>。<br/>Determination of gear unit utilization and required thermal capacity <math>P_G</math>.</p> | <p>2.1 用于热容量计算的齿轮箱载荷利用率<br/>Gear unit load utilization coefficient to calculate the thermal capacity<br/>载荷利用率(%) / load utilization coefficient % = <math>P_2 / P_N \times 100</math></p> <p>根据载荷利用率由第76页表5中查得系数<math>f_5</math><br/>Factor can be selected from table 5, page 76, as per the loading utilization coefficient</p> <p>2.2 齿轮箱不带辅助冷却装置可以满足要求, 如果:<br/>The gear unit can meet the requirement without auxiliary cooling, if:</p> $P_2 \leq P_G = P_{G1} \times f_4 \times f_5 \times f_6$ <p>2.3 为了达到较高的热容量, 需要通过气-油冷却器或水-油冷却器进行冷却, 敬请垂询<br/>For higher thermal capacities, through the air-oil or water-oil cooling</p>                                              |



### 3.2.2 可变功率 Variable Power Rating



对于以恒定转速和可变功率运行的工作机，其齿轮箱是根据当量功率确定的。在一个工作周期中，其不同阶段 I、II...n 所需要的功率分别为  $P_I, P_{II} \dots P_n$ ，所对应的时间分量分别为  $X_I, X_{II} \dots X_n$ ，当量功率即可根据这些参数按以下公式计算。

For driven machines with constant speeds and variable power ratings, the gear unit can be designed according to the equivalent power rating. During one, a working cycle, phases I, II...n require power  $P_I, P_{II} \dots P_n$  and the respective time weight are  $X_I, X_{II} \dots X_n$ .

The equivalent power rating can be calculated from following parameter and formula.

$$P_{2eq} = \sqrt[6.6]{P_I^{6.6} \times \frac{X_I}{100} + P_{II}^{6.6} \times \frac{X_{II}}{100} + \dots + P_n^{6.6} \times \frac{X_n}{100}}$$

然后按照第 1.1...1.5 项和第 2.1...2.3 项确定齿轮箱规格，需满足：

The size of the gear unit can then be determined after 1.1...1.5 and 2.1...2.3, need to be met.

$$P_N \geq P_{erf} = P_{2eq} \times f_1 \times f_2$$

然后，在  $P_N$  确定后，按照以下条件检验各个时间分量及其相对应的功率分量：

Then, when  $P_N$  has been determined, the power and time fractions must be checked by following conditions:

1) 各个功率分量  $P_I, P_{II} \dots P_n$  应大于  $0.4 \times P_N$

1) The individual power fractions  $P_I, P_{II} \dots P_n$  must be greater than  $0.4 \times P_N$ .

2) 各个功率分量  $P_I, P_{II} \dots P_n$  不能超过  $1.4 \times P_N$

2) The individual power fractions  $P_I, P_{II} \dots P_n$  must not exceed  $1.4 \times P_N$ .

3) 功率分量  $P_I, P_{II} \dots P_n$ ，中大于  $P_N$  的分量所对应的时间分量  $X_I, X_{II} \dots X_n$  总和，不超过 10%。

3) The fraction greater than  $P_N$  if among the power fractions  $P_I, P_{II} \dots P_n$ , the sum of the respective time fractions  $X_I, X_{II} \dots X_n$ , must not exceed 10%.

如果以上三个条件中的任何一项不满足，则必须重新计算  $P_{2eq}$  和  $P_{erf}$ 。

If any one of the three conditions is not met,  $P_{2eq}$  and  $P_{erf}$ , must be recalculated again.

特别应加以注意的是在计算  $P_{2eq}$  时没有计入的短时峰值功率不能大于  $P_{max} = 2 \times P_N$ 。

It should be noted in particular that a brief peak power rating not included in the calculation of  $P_{2eq}$  must not be greater than  $P_{max} = 2 \times P_N$ .

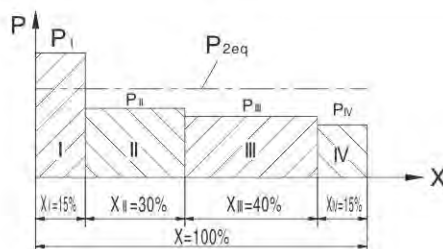
在可变扭矩和恒定转速的应用情况下，齿轮箱按所谓的当量扭矩计算。

In applications where the torque is variable but the speed is constant the gear unit can be designed on the basis of the so-called equivalent torque.

对某些特定的应用，按有限抗疲劳寿命设计的齿轮箱就足以满足应用了，如偶尔动作（闸门锁定机构）或慢速输出（ $n_2 < 4 \text{ r/min}$ ）等。

A gear unit design according to anti-fatigue can be sufficient for certain applications, for example, stop-and-go operation (lock-gate drives) or slow output speeds ( $n_2 < 4 \text{ r/min}$ ).

示例 / Example:  
载荷谱 / Load spectrum





### 3.3 服务系数 Service Factors

| 表1 Table 1             |                                        | 工作机系数 Factor for driven machine                                     |         |     |                        |                               | f <sub>i</sub>                                                      |         |     |
|------------------------|----------------------------------------|---------------------------------------------------------------------|---------|-----|------------------------|-------------------------------|---------------------------------------------------------------------|---------|-----|
| 工作机<br>Driven machines |                                        | 日带载运行时间(小时)<br>Effective daily operating period under load in hours |         |     | 工作机<br>Driven machines |                               | 日带载运行时间(小时)<br>Effective daily operating period under load in hours |         |     |
|                        |                                        | 0.5                                                                 | >0.5~10 | >10 |                        |                               | 0.5                                                                 | >0.5~10 | >10 |
| 污水处理                   | Waste water treatment                  |                                                                     |         |     | 输送机械                   | Conveyors                     |                                                                     |         |     |
| 浓缩器(中心传动)              | Thickeners(central drive)              | —                                                                   | —       | 1.2 | 斗式输送机                  | Bucket conveyors              | —                                                                   | 1.5     | 1.8 |
| 压滤器                    | Filter presses                         | 1.0                                                                 | 1.3     | 1.5 | 绞车                     | Hauling winches               | 1.4                                                                 | 1.6     | 1.8 |
| 絮凝器                    | Flocculation apparata                  | 0.8                                                                 | 1.0     | 1.3 | 卷扬机                    | Hoists                        | —                                                                   | 1.5     | 1.8 |
| 曝气机                    | Aerators                               | —                                                                   | 1.8     | 2.0 | 皮带输送机≤150kW            | Belt conveyors 150kW          | 1.0                                                                 | 1.3     | 1.5 |
| 搂集设备                   | Raking equipment                       | 1.0                                                                 | 1.2     | 1.3 | 皮带输送机≥150kW            | Belt conveyors 150kW          | 1.1                                                                 | 1.3     | 1.6 |
| 纵向、回转组                 | Combined longitudinal and rotary rakes | 1.0                                                                 | 1.3     | 1.5 | 货用电梯*                  | Goods lifts                   | —                                                                   | 1.2     | 1.5 |
| 合式接集装置                 | Pre-thickeners                         | —                                                                   | 1.1     | 1.3 | 客用电梯*                  | Passenger lifts               | —                                                                   | 1.5     | 1.8 |
| 浓缩器                    | Screw pumps                            | —                                                                   | 1.4     | 1.6 | 刮板式输送机                 | Apron conveyors               | —                                                                   | 1.2     | 1.5 |
| 螺杆泵                    | Water turbines                         | —                                                                   | —       | 2.0 | 自动扶梯                   | Escalators                    | 1.0                                                                 | 1.2     | 1.4 |
| 水轮机                    | Pumps                                  | 1.1                                                                 | 1.3     | 1.5 | 轨道行走机构                 | Rail traveling gears          | —                                                                   | 1.6     | —   |
| 泵                      | Centrifugal pumps                      | 1.3                                                                 | 1.4     | 1.8 | 变频装置                   | Frequency converters          | —                                                                   | 1.8     | 2.0 |
| 离心泵                    | Positive-displacement pumps            | 1.2                                                                 | 1.4     | 1.5 | 往复式压缩机                 | Reciprocating compressors     | —                                                                   | 1.8     | 1.9 |
| 容积式泵                   | 1 piston                               | —                                                                   | —       | —   | 起重机械**                 | Cranes                        |                                                                     |         |     |
| 1个活塞                   | >1 piston                              | —                                                                   | 1.6     | 1.8 | 回转机构*                  | Slewing gears                 | 1.0                                                                 | 1.4     | 1.8 |
| >1个活塞                  |                                        | 1.2                                                                 | 1.4     | 1.5 | 俯仰机构                   | Luffing gears                 | 1.0                                                                 | 1.1     | 1.4 |
|                        |                                        |                                                                     |         |     | 行走机构                   | Travelling gears              | 1.1                                                                 | 1.6     | 2.0 |
|                        |                                        |                                                                     |         |     | 提升机构                   | Hoisting gears                | 1.0                                                                 | 1.2     | 1.5 |
|                        |                                        |                                                                     |         |     | 转臂式起重机                 | Derricking jib cranes         | 1.0                                                                 | 1.2     | 1.6 |
| 挖泥机                    | Dredgers                               |                                                                     |         |     | 冷却塔                    | Cooling towers                |                                                                     |         |     |
| 斗式运输机                  | Bucket conveyors                       | —                                                                   | 1.6     | 1.8 | 冷却塔风扇                  | Cooling tower fans            | —                                                                   | —       | 2.0 |
| 履带式行走机构                | Carterpillar travelling gears          | 1.2                                                                 | 1.6     | 1.8 | 风机(轴流和离心式)             | Blowers(axial and radial)     | —                                                                   | 1.4     | 1.6 |
| 斗轮式挖掘机                 | Bucket wheel excavators                | —                                                                   | 1.7     | 1.7 | 食品工业                   | Food industry                 |                                                                     |         |     |
| 用于拾拾                   | as pick-up                             | —                                                                   | 2.2     | 2.2 | 蔗糖生产                   | Cane sugar production         | —                                                                   | —       | 1.7 |
| 用于粗料                   | for primitive material                 | —                                                                   | 2.2     | 2.2 | 甘蔗切碎机*                 | Cane knives                   | —                                                                   | —       | 1.7 |
| 切碎机                    | Cutter heads                           | —                                                                   | 2.2     | 2.2 | 甘蔗碾磨机                  | Cane mills                    | —                                                                   | —       | 1.7 |
| 采掘臂回转*                 | Slewing gears*                         | —                                                                   | 1.4     | 1.8 | 甜菜糖生产                  | Beet sugar production         | —                                                                   | —       | 1.2 |
|                        |                                        |                                                                     |         |     | 甜菜绞碎机                  | Beet cossettes macerators     | —                                                                   | —       | 1.2 |
|                        |                                        |                                                                     |         |     | 榨取机, 机械致               | Extraction plants, Mechanical | —                                                                   | —       | 1.4 |
|                        |                                        |                                                                     |         |     | 冷机、煮糖机                 | refrigerators, Juice boilers, | —                                                                   | —       | 1.4 |
|                        |                                        |                                                                     |         |     | 甜菜清洗机                  | Sugar beet washing machines,  | —                                                                   | —       | 1.5 |
|                        |                                        |                                                                     |         |     | 甜菜切碎机                  | Sugar beet cutters            | —                                                                   | —       | 1.5 |
| 弯板机*                   | Plate bending machines*                | —                                                                   | 1.0     | 1.0 | 造纸机械                   | Paper machines                |                                                                     |         |     |
|                        |                                        |                                                                     |         |     | 各种类型***                | of all kind                   | —                                                                   | 1.8     | 2.0 |
|                        |                                        |                                                                     |         |     | 碎浆机驱动装置                | Pulper drives                 | 根据客户要求供货 On request                                                 |         |     |
| 化学工业                   | Chemical industry                      |                                                                     |         |     | 离心式压缩机                 | Centrifugal compressors       | —                                                                   | 1.4     | 1.5 |
| 挤压机                    | Extruders                              | —                                                                   | —       | 1.6 | 索道缆车                   | Cableways                     |                                                                     |         |     |
| 调浆机                    | Dough mills                            | —                                                                   | 1.8     | 1.8 | 运货索道                   | Material ropeways             | —                                                                   | 1.3     | 1.4 |
| 橡胶研光机                  | Rubber calenders                       | —                                                                   | 1.5     | 1.5 | 往返系统空中索道               | To-and fro system             | —                                                                   | 1.6     | 1.8 |
| 冷却圆筒                   | Cooling drums                          | —                                                                   | 1.3     | 1.4 | T型杆升降机                 | T-bar lifts                   | —                                                                   | 1.3     | 1.4 |
| 混料机, 用于                | Mixers for                             | 1.0                                                                 | 1.3     | 1.5 | 连续索道                   | Continuous ropeways           | —                                                                   | 1.4     | 1.6 |
| 均匀介质                   | uniform media                          | 1.4                                                                 | 1.6     | 1.7 | 水泥工业                   | Cement industry               |                                                                     |         |     |
| 非均匀介质                  | non-uniform media                      | 1.0                                                                 | 1.3     | 1.5 | 混凝土搅拌机                 | Concrete mixers               | —                                                                   | 1.5     | 1.5 |
| 搅拌机, 用于                | Agitators for media with               | 1.2                                                                 | 1.5     | 1.7 | 破碎机*                   | Breakers                      | —                                                                   | 1.2     | 1.4 |
| 密度均匀介质                 | uniform density                        | 1.4                                                                 | 1.6     | 1.8 | 回转窑                    | Rotary kilns                  | —                                                                   | —       | 2.0 |
| 不均匀介质                  | non-uniform density                    | 1.0                                                                 | 1.3     | 1.5 | 管式磨机                   | Tube mills                    | —                                                                   | —       | 2.0 |
| 不均匀气体吸收                | non-uniform gas absorption             | 1.2                                                                 | 1.5     | 1.7 | 选粉机                    | Separators                    | —                                                                   | 1.6     | 1.6 |
| 烘炉                     | Toasters                               | 1.0                                                                 | 1.3     | 1.5 | 辊压机                    | Roll crushers                 | —                                                                   | —       | 2.0 |
| 离心机                    | Centrifuges                            | 1.0                                                                 | 1.2     | 1.3 |                        |                               |                                                                     |         |     |
| 金属加工设备                 | Metal working mills                    |                                                                     |         |     |                        |                               |                                                                     |         |     |
| 翻板机                    | Plate filters                          | 1.0                                                                 | 1.0     | 1.2 |                        |                               |                                                                     |         |     |
| 推钢机                    | Ingot pushers                          | 1.0                                                                 | 1.2     | 1.2 |                        |                               |                                                                     |         |     |
| 绕线机                    | Winding machines                       | —                                                                   | 1.6     | 1.6 |                        |                               |                                                                     |         |     |
| 冷床横移架                  | Cooling bed transfer frames            | —                                                                   | 1.5     | 1.5 |                        |                               |                                                                     |         |     |
| 辊式矫直机                  | Roller straighteners                   | —                                                                   | 1.6     | 1.6 |                        |                               |                                                                     |         |     |
| 辊道                     | Roller tables                          | —                                                                   | 1.5     | 1.5 |                        |                               |                                                                     |         |     |
| 连续式                    | continuous                             | —                                                                   | 2.0     | 2.0 |                        |                               |                                                                     |         |     |
| 间歇式                    | intermittent                           | —                                                                   | 1.8     | 1.8 |                        |                               |                                                                     |         |     |
| 可逆式轧管机                 | Reversing tube mills                   | —                                                                   | 1.5     | 1.5 |                        |                               |                                                                     |         |     |
| 剪切机                    | Shears                                 | —                                                                   | 1.5     | 1.5 |                        |                               |                                                                     |         |     |
| 连续式*                   | continuous                             | 1.0                                                                 | 1.0     | 1.0 |                        |                               |                                                                     |         |     |
| 曲柄式*                   | crank type                             | —                                                                   | 1.4     | 1.4 |                        |                               |                                                                     |         |     |
| 连铸机驱动装置                | Continuous casting drivers             | —                                                                   | 2.5     | 2.5 |                        |                               |                                                                     |         |     |
| 轧机                     | Rolls                                  | —                                                                   | 2.5     | 2.5 |                        |                               |                                                                     |         |     |
| 可逆式开坯机                 | Reversing blooming mills               | —                                                                   | 1.8     | 1.8 |                        |                               |                                                                     |         |     |
| 可逆式板坯轧机                | Reversing slabbing mills               | —                                                                   | 2.0     | 2.0 |                        |                               |                                                                     |         |     |
| 可逆式线材轧机                | Reversing wire mills                   | —                                                                   | 1.8     | 1.8 |                        |                               |                                                                     |         |     |
| 可逆式薄板轧机                | Reversing sheet mills                  | —                                                                   | 1.8     | 1.8 |                        |                               |                                                                     |         |     |
| 可逆式中厚板轧机               | Reversing plate mills                  | 0.9                                                                 | 1.0     | —   |                        |                               |                                                                     |         |     |
| 辊缝调节驱动装置               | Roll adjustment drives                 |                                                                     |         |     |                        |                               |                                                                     |         |     |

1. 工作机额定功率P<sub>2</sub>的确定:

\*) 按最大的扭矩确定额定功率。

\*\*) 可将载荷准确地分类。

\*\*\*) 检验热容量是绝对必要的。

2. 所列各项系数均为经验值。使用这些系数的前提条件是, 所述机械设备应符合通常的设计规范和载荷条件。如遇特殊情况, 请及时与我们取得联系。

3. 对于那些未列入此表的工作机械, 请咨询杰牌。

1.Design for power rating of driven machine P<sub>2</sub>

\*)Designed power corresponding to max.torque

\*\*)Load can be exactly classified.

\*\*\*)A check for thermal capacity is absolutely essential

2.The listed factors are empirical values.Prerequisite for their application is thatthe machinery and equipment mentioned correspond to generally accepted design and load specifications.In case of deviations from standard conditions,please refer to us.

3.For driven machines which are not listed in this table,please refer to us.





| 表 2                      | 原动机系数 | $f_2$ |
|--------------------------|-------|-------|
| 电机, 液压马达, 汽轮机            |       | 1.0   |
| 4-6缸活塞发动机周期变化1:100至1:200 |       | 1.25  |
| 1-3缸活塞发动机周期变化最高达1:100    |       | 1.5   |

| Table 2                                                      | Factor for prime mover | $f_2$ |
|--------------------------------------------------------------|------------------------|-------|
| Electric motors, hydraulic motors, turbines                  |                        | 1.0   |
| Piston engines 4-6 cylinders cyclic variation 1:100 to 1:200 |                        | 1.25  |
| Piston engines 1-3 cylinders cyclic variation up to 1:100    |                        | 1.5   |

| 表 3  |           | 峰值扭矩系数 |        |      | $f_3$ |
|------|-----------|--------|--------|------|-------|
|      | 每小时峰值载荷次数 |        |        |      |       |
|      | 1-5       | 6-30   | 31-100 | >100 |       |
| 单向载荷 | 0.5       | 0.65   | 0.7    | 0.85 |       |
| 交变载荷 | 0.7       | 0.95   | 1.10   | 1.25 |       |

| Table 3                       | Peak torque factor  |      |        |      | $f_3$ |
|-------------------------------|---------------------|------|--------|------|-------|
|                               | Load peaks per hour |      |        |      |       |
|                               | 1-5                 | 6-30 | 31-100 | >100 |       |
| Steady direction of load      | 0.5                 | 0.65 | 0.7    | 0.85 |       |
| Alternating direction of load | 0.7                 | 0.95 | 1.10   | 1.25 |       |

| 表 4      | 环境温度系数                  |      |      |      |      | $f_4$ |
|----------|-------------------------|------|------|------|------|-------|
| 不带辅助冷却装置 |                         |      |      |      |      |       |
| 环境温度     | 每小时工作周期 ( $E_D$ ), 以%表示 |      |      |      |      |       |
|          | 100                     | 80   | 60   | 40   | 20   |       |
| 10℃      | 1.14                    | 1.20 | 1.32 | 1.54 | 2.04 |       |
| 20℃      | 1.00                    | 1.06 | 1.16 | 1.35 | 1.79 |       |
| 30℃      | 0.87                    | 0.93 | 1.00 | 1.18 | 1.56 |       |
| 40℃      | 0.71                    | 0.75 | 0.82 | 0.96 | 1.27 |       |
| 50℃      | 0.55                    | 0.58 | 0.64 | 0.74 | 0.98 |       |

| Table 4                   |                                   | Thermal factor |      |      |      | $f_4$ |
|---------------------------|-----------------------------------|----------------|------|------|------|-------|
| Without auxiliary cooling |                                   |                |      |      |      |       |
| Ambient temperature       | Operating cycle per hour(ED) in % |                |      |      |      |       |
|                           | 100                               | 80             | 60   | 40   | 20   |       |
| 10°C                      | 1.14                              | 1.20           | 1.32 | 1.54 | 2.04 |       |
| 20°C                      | 1.00                              | 1.06           | 1.16 | 1.35 | 1.79 |       |
| 30°C                      | 0.87                              | 0.93           | 1.00 | 1.18 | 1.56 |       |
| 40°C                      | 0.71                              | 0.75           | 0.82 | 0.96 | 1.27 |       |
| 50°C                      | 0.55                              | 0.58           | 0.64 | 0.74 | 0.98 |       |

| 表 5 载荷利用率系数 $f_s$ |      |      |      |      |      |     |      |
|-------------------|------|------|------|------|------|-----|------|
| 30%               | 40%  | 50%  | 60%  | 70%  | 80%  | 90% | 100% |
| 0.66              | 0.77 | 0.83 | 0.90 | 0.90 | 0.95 | 1.0 | 1.0  |

| Table 5 |      |      | Utilization factor |      |      |     | $f_5$ |
|---------|------|------|--------------------|------|------|-----|-------|
| 30%     | 40%  | 50%  | 60%                | 70%  | 80%  | 90% | 100%  |
| 0.66    | 0.77 | 0.83 | 0.90               | 0.90 | 0.95 | 1.0 | 1.0   |

| 表 6      |                | 海拔高度       |            |            | $f_6$      |
|----------|----------------|------------|------------|------------|------------|
| 不带辅助冷却装置 |                |            |            |            |            |
| 系数       | 海拔高度 (m,高于海平面) |            |            |            |            |
|          | 高达<br>1000     | 高达<br>2000 | 高达<br>3000 | 高达<br>4000 | 高达<br>5000 |
| $f_6$    | 1.0            | 0.95       | 0.90       | 0.85       | 0.80       |

| Table 6                   |                            | Factor for altitude |               |               | $f_6$         |
|---------------------------|----------------------------|---------------------|---------------|---------------|---------------|
| Without auxiliary cooling |                            |                     |               |               |               |
| Factor                    | Altitude(metres above MSL) |                     |               |               |               |
|                           | up to<br>1000              | up to<br>2000       | up to<br>3000 | up to<br>4000 | up to<br>5000 |
| $f_6$                     | 1.0                        | 0.95                | 0.90          | 0.85          | 0.80          |

### 3.4 选型举例 1

#### Selection Example 1

已知条件:

原动机

电机功率:  $P_1 = 55\text{kW}$ 电机转速:  $n_1 = 1500\text{ r/min}$ 最大起动扭矩:  $T_A = 660\text{ Nm}$ 

工作机

刮板式输送机扭矩:  $T_2 = 300\,000\text{ Nm}$ 转速:  $n_2 = 1.65\text{ r/min}$ 

每天运行时间: 24小时 / 天

每小时起动次数: 7

每小时工作周期:  $E_D = 100\%$ 环境温度:  $30^\circ\text{C}$ 

室外安装

海拔高度: 800m

1. 确定齿轮箱类型

1.1 确定传动比

$$i_s = n_1 / n_2 = 1500 / 1.65 = 909.09$$

1.2 确定齿轮箱类型

选择类型 JRP3K.. (实际传动比 见第99页)

2. 确定齿轮箱规格

2.1 确定工作机额定功率

$$P_2 = T_2 \times n_2 / 9550 = 300\,000 \times 1.65 / 9550 = 51.83\text{ kW}$$

2.2 确定齿轮箱额定功率

$$P_N \geq P_{\text{erf}} = P_2 \times f_1 \times f_2 = 51.83 \times 1.5 \times 1 = 77.75\text{ kW} \quad P_N = 80\text{ kW} > P_{\text{erf}} = 77.75\text{ kW}$$

从功率表中选择类型 JRP3K.., 齿轮箱

规格22, 额定功率  $P_N = 80\text{ kW}$ 。(见第94页)

$$3.33 \times P_2 = 3.33 \times 51.83 = 172.59\text{ kW} > P_N = 80\text{ kW}$$

满足要求!

2.3 校核起动功率

$$P_N \geq P_{\text{sl}} = T_A \times n_1 \times f_3 / 9550 = 660 \times 1500 \times 0.65 / 9550 = 67.38\text{ kW} \quad P_N = 80\text{ kW} > P_{\text{sl}} = 67.38\text{ kW}$$

3. 确定热容量

3.1 齿轮箱载荷利用率

$$\text{载荷利用率}(\%) / \text{Utilization in } \% = P_2 / P_N \times 100 = 51.83 / 80 \times 100 = 65\%$$

3.2 从类型 JRP3K.. 参数表中得到热容量

(见第94页)

$$P_G = P_{G1} \times f_4 \times f_5 \times f_6 = 128 \times 0.87 \times 0.9 \times 1 = 100.22\text{ kW} \quad P_2 = 51.83\text{ kW} < P_G = 100.22\text{ kW}$$

所以齿轮箱不需要辅助冷却装置。

4. 确定齿轮箱布置型式

直交轴行星齿轮箱: JRP3KA

型式: “00”

安装方式: 卧式安装

输入轴d1布置型式: “522” (见第120页)

输出轴d2旋转方向: 逆时针, 从轴端面观察

输出轴d2形式: 带锁紧盘的空心轴输出

型号表示为: JRP3KA22-900-522-00

Known criteria

Prime mover

Electric motor:  $P_1 = 55\text{ kW}$ Motor speed:  $n_1 = 1500\text{ r/min}$ Max. starting torque:  $T_A = 660\text{ Nm}$ 

Driven machine

Apron conveyor:  $T_2 = 300\,000\text{ Nm}$ Speed:  $n_2 = 1.65\text{ r/min}$ 

Duty: 24h / day

Starts per hour: 7

Operating cycle per hour:  $E_D = 100\%$ Ambient temperature:  $30^\circ\text{C}$ 

Installation in the open

Altitude: 800m

1. Selection of gear unit type

1.1 Calculation of transmission ratio

$$i_s = 900$$

1.2 Determination of gear unit type

Type JRP3K.. selected (for actual ratio, see page 99)

2. Determination of gear unit size

2.1 Determination of power rating of driven machine

2.2 Determination of nominal power rating of gear unit

Selected from power rating table: type JRP3K.., gear

unit size 22, with  $P_N = 80\text{ kW}$ . (See Page 94)

It is not necessary to consult us.

2.3 Checking the starting power rating

3. Determination of thermal capacity

3.1 Gear unit utilization

3.2 Thermal capacity acc. To table for type JRP3K..

(See Page 94)

So auxiliary cooling device is unnecessary.

4. Determination of gear unit arrangement.

Bevel-helical planetary gear unit: JRP3KA

Variant: “00”

Mounting position: horizontal

Pos. of the input shaft d1: e.g. “522” (See Page 120)

Direct. of rotation of output shaft d2: ccw, viewing on shaft end face

Design d2: hollow shaft with shrink disk

Model: JRP3KA22-900-522-00





## 选型举例 2 Selection Example 2



已知条件:

原动机

电机功率:  $P_1 = 130\text{kW}$

电机转速:  $n_1 = 1000\text{ r/min}$

最大起动扭矩:  $T_A = 2000\text{ Nm}$

工作机

搅拌机, 均匀介质

转速:  $n_2 = 12.5\text{ r/min}$

每天运行时间: 12小时 / 天

每小时工作周期:  $E_D = 60\%$

环境温度:  $20^\circ\text{C}$

室外安装

海拔高度: 600m

载荷谱

$T_I$  在20%的时间分量中为47 000 Nm

$T_{II}$  在40%的时间分量中为50 000 Nm

$T_{III}$  在30%的时间分量中为53 000 Nm

$T_{IV}$  在10%的时间分量中为100 000 Nm

1. 确定齿轮箱类型

1.1 确定传动比

$i_s = n_1 / n_2 = 1000 / 12.5 = 80 \quad i_N = 80$

1.2 确定齿轮箱类型

选择类型 JRP2S.. (实际传动比见第97页)

2. 确定齿轮箱规格

2.1 从给出的载荷谱中确定当量扭矩

Known criteria:

Prime mover

Electric motor:  $P_1 = 130\text{kW}$

Motor speed:  $n_1 = 1000\text{ r/min}$

Max.starting torque:  $T_A = 2000\text{ Nm}$

Driven machine

Mixer, uniform media

Speed:  $n_2 = 12.5\text{ r/min}$

Duty: 12h / day

Operating cycle per hour:  $E_D = 60\%$

Ambient temperature:  $20^\circ\text{C}$

Installation in the open

Altitude: 600m

Service classification

$T_I$  47 000 Nm at 20% of time

$T_{II}$  50 000 Nm at 40% of time

$T_{III}$  53 000 Nm at 30% of time

$T_{IV}$  100 000 Nm at 10% of time

1. Selection of gear unit type

1.1 Calculation of transmission ratio

1.2 Determination of gear unit type

Type JRP2S.. selected (for actual ratio See Page97)

2. Determination of gear unit size

2.1 Determination of equivalent torque from the given service classification

$$T_{Zeq} = \sqrt[6.6]{T_I^{6.6} \times \frac{X_I}{100} + T_{II}^{6.6} \times \frac{X_{II}}{100} + \dots + T_n^{6.6} \times \frac{X_n}{100}}$$

$$T_{Zeq} = \sqrt[6.6]{47000^{6.6} \times \frac{20}{100} + 50000^{6.6} \times \frac{40}{100} + 53000^{6.6} \times \frac{30}{100} + 100000^{6.6} \times \frac{10}{100}} = 71577.84\text{ Nm}$$

请注意第73页选型指南的条件1),2),3)

$T_{II}$

Observe conditions 1),2),3), of the guidelines for

$T_{III}$

The selection, page 73

$T_{IV}$

2.2 Determination of power rating of driven machine

2.2 确定工作机额定功率

$P_{Zeq} = T_{Zeq} \times n_2 / 9550 = 71577.84 \times 12.5 / 9550 = 93.69\text{ kW}$

2.3 确定齿轮箱额定功率

$P_{grf} = P_{Zeq} \times f_1 \times f_2 = 93.69 \times 1.4 \times 1.0 = 131.17\text{ kW}$

从功率表中选择JRP2S.., 齿轮箱规格14,

额定功率 $P_N = 153\text{ kW}$ , (见第86页)

$3.33 \times P_{Zeq} = 3.33 \times 93.69 = 311.99\text{ kW} > P_N = 153\text{ kW}$

满足要求!

It is not necessary to consult us.

2.4 校核起动扭矩

2.4 Checking the starting torque

$P_N \geq P_{s1} = T_A \times n_1 \times f_3 / 9550 = 2000 \times 1000 \times 0.5 / 9550 = 104.71\text{ kW} \quad P_N = 153\text{ kW} > P_{s1} = 104.71\text{ kW}$

3. 确定热容量

3. Determination of thermal capacity

## 3.1 齿轮箱载荷利用率

载荷利用率(%) / Utilization in % =  $P_{\text{req}} / P_N \times 100 = 93.69 / 153 \times 100 = 61\%$

## 3.2 从类型 JRP2S.. 参照表中得到热容量

(见第86页)

$$P_G = P_{G1} \times f_4 \times f_5 \times f_6 = 94 \times 1.16 \times 0.9 \times 1 = 98.13 \text{ kW} \quad P_{\text{req}} = 93.69 \text{ kW} < P_G = 98.13 \text{ kW}$$

不需要辅助冷却装置!

## 4. 确定齿轮箱布置型式

平行轴行星齿轮箱: JRP2SA

型式: "00"

安装方式: 卧式安装

输入轴d1布置型式: "512"

(见第120页)

输出轴d2旋转方向: 双向

输出轴d2形式: 带锁紧盘的空心轴输出

型号表示为: JRP2SA14-80-512-00

## 3.1 Gear unit utilization

## 3.2 Thermal capacity acc. To table for type JRP2S..

(See Page 86)

No auxiliary cooling required!

## 4. Determination of the design

Helical planetary gear unit: JRP2SA

Variant: "00"

Mounting position: horizontal

Pos. of the input shaft d1: e.g. "512"

(See Page 120)

Direct. of rotation of output shaft d2: in both directions

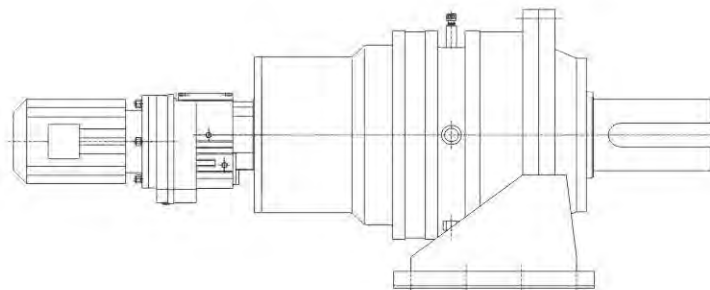
Design d2: hollow shaft with

shrink disc

Model: JRP2SA14-80-512-00

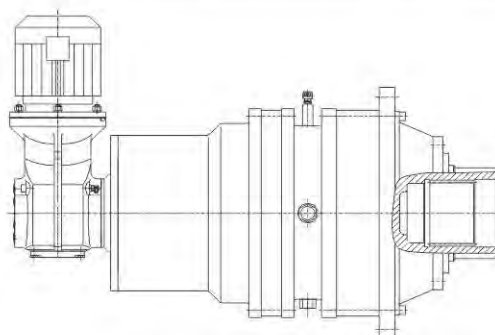


## 4. 组合形式 Combinations



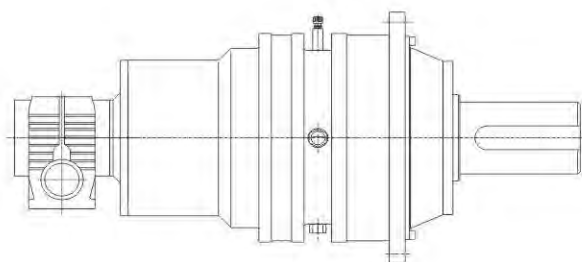
JRP.../R组合，详情请咨询杰牌。

JRP.../R combination upon request



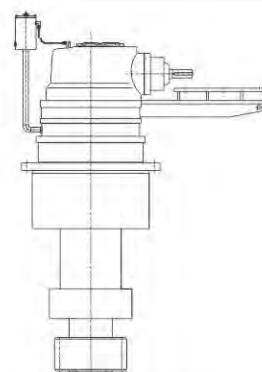
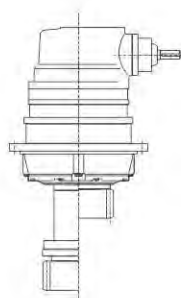
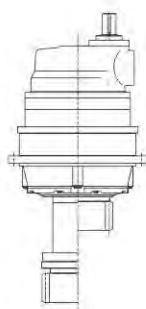
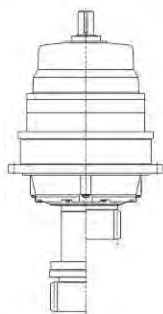
JRP.../K组合，详情请咨询杰牌。

JRP.../K combination upon request



JRP.../S 组合，详情请咨询杰牌。

JRP.../S combination upon request



JRP.../H回转机构，详情请咨询杰牌。

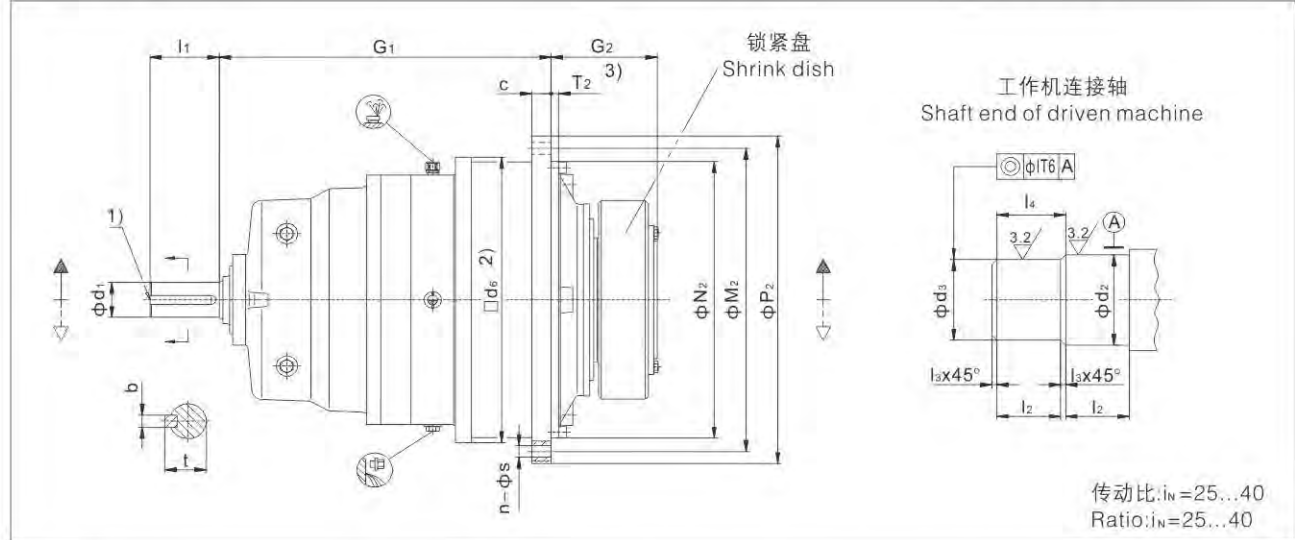
JRP.../H combination (Slewing Gears) upon request



## 5. 技术参数 Technical Data

外形尺寸和重量  
类型 JRP2NA..

Dimension and Weight  
Type JRP2NA..



| JRP2NA..<br>规格<br>Size | 额定输出扭矩<br>Nominal<br>Output Torques<br>$T_{2N}$<br>(Nm) | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |       |        |     |      | $d_2$ | $d_3$ | $l_2$ | $l_1$ | $l_3$ | $P_2$ | $C$ | $M_2$ | $N_2$  | $T_2$        | $G_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |     | 重量<br>Weight<br>(kg)<br>4) |
|------------------------|---------------------------------------------------------|-----------------------------------------|-------|--------|-----|------|-------|-------|-------|-------|-------|-------|-----|-------|--------|--------------|-------|-------|-----------------------|-----|----------------------------|
|                        |                                                         | $d_1$                                   | $l_1$ | $G_1$  | $b$ | $t$  |       |       |       |       |       |       |     |       |        |              |       |       | $n$                   | $s$ |                            |
|                        |                                                         |                                         |       |        |     |      |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |
| 9                      | 22000                                                   | 55m6                                    | 90    | 469    | 16  | 59   | 120h6 | 115h6 | 65    | 2.5   | 67.5  | 428   | 24  | 388   | 350h7  | $6 \pm 1.5$  | 165   | 356   | 24                    | 18  | 240                        |
| 10                     | 31000                                                   | 55m6                                    | 90    | 489    | 16  | 59   | 130h6 | 125h6 | 70    | 2.5   | 72.5  | 472   | 28  | 436   | 394h7  | $8 \pm 1.5$  | 174   | 400   | 28                    | 18  | 290                        |
| 11                     | 42000                                                   | 70m6                                    | 120   | 579    | 20  | 74.5 | 140h6 | 135h6 | 82.5  | 2.5   | 85    | 525   | 32  | 485   | 425h7  | $8 \pm 1.5$  | 204   | 436   | 20                    | 22  | 350                        |
| 12                     | 60000                                                   | 70m6                                    | 120   | 593    | 20  | 74.5 | 160h6 | 155h6 | 90    | 2.5   | 92.5  | 605   | 34  | 555   | 495h7  | $9 \pm 1.5$  | 224   | 510   | 20                    | 26  | 490                        |
| 13                     | 83000                                                   | 80m6                                    | 140   | 714    | 22  | 85   | 180g6 | 175g6 | 95    | 2.5   | 97.5  | 645   | 39  | 595   | 535h7  | $11 \pm 1.5$ | 241   | 554   | 24                    | 26  | 590                        |
| 14                     | 117000                                                  | 80m6                                    | 140   | 737    | 22  | 85   | 210g6 | 205g6 | 105   | 2.5   | 107.5 | 720   | 42  | 665   | 610h7  | 9            | 278   | 629   | 32                    | 26  | 820                        |
| 16                     | 160000                                                  | 95m6                                    | 160   | 851    | 25  | 100  | 230g6 | 225g6 | 110   | 2.5   | 112.5 | 770   | 44  | 715   | 660h7  | 10           | 285   | 680   | 36                    | 26  | 1030                       |
| 17                     | 202000                                                  | 95m6                                    | 160   | 877    | 25  | 100  | 250g6 | 245g6 | 120   | 2.5   | 122.5 | 895   | 50  | 830   | 750h7  | 10           | 294   | 775   | 24                    | 33  | 1500                       |
| 18                     | 244000                                                  | 110n6                                   | 180   | 1006   | 28  | 116  | 260g6 | 255g6 | 120   | 2.5   | 122.5 | 930   | 50  | 865   | 785h7  | 10           | 303   | 815   | 32                    | 33  | 1900                       |
| 19                     | 295000                                                  | 110n6                                   | 180   | 1029.5 | 28  | 116  | 280g6 | 275g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2000                       |
| 20                     | 354000                                                  | 110n6                                   | 180   | 1029.5 | 28  | 116  | 300g6 | 295g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2100                       |
| 21                     | 392000                                                  | 120n6                                   | 210   | 1046   | 32  | 127  | 310g6 | 305g6 | 152   | 2.5   | 154.5 | 1115  | 62  | 1025  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 2650                       |
| 22                     | 450000                                                  | 120n6                                   | 210   | 1046   | 32  | 127  | 330g6 | 325g6 | 152   | 2.5   | 154.5 | 1115  | 62  | 1025  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 2800                       |
| 23                     | 513000                                                  | 130n6                                   | 210   | 1150   | 32  | 137  | 350g6 | 345g6 | 164   | 2.5   | 166.5 | 1210  | 68  | 1120  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 3450                       |
| 24                     | 592000                                                  | 130n6                                   | 210   | 1150   | 32  | 137  | 360g6 | 355g6 | 164   | 2.5   | 166.5 | 1210  | 68  | 1120  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 3900                       |
| 25                     | 684000                                                  | 140n6                                   | 240   | 1241   | 36  | 148  | 380g6 | 375g6 | 180   | 2.5   | 182.5 | 1320  | 74  | 1220  | 1115h7 | 29           | 407   | 1150  | 36                    | 45  | 4750                       |
| 26                     | 763000                                                  | 140n6                                   | 240   | 1241   | 36  | 148  | 400g6 | 395g6 | 180   | 2.5   | 182.5 | 1320  | 74  | 1220  | 1115h7 | 29           | 407   | 1150  | 36                    | 45  | 5150                       |
| 27                     | 852000                                                  | 150n6                                   | 240   | 1379   | 36  | 158  | 430g6 | 425g6 | 191   | 2.5   | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1248  | 32                    | 52  | 6100                       |
| 28                     | 950000                                                  | 150n6                                   | 240   | 1379   | 36  | 158  | 450g6 | 445g6 | 191   | 2.5   | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1248  | 32                    | 52  | 6550                       |
| 29                     | 1060000                                                 | 160n6                                   | 270   | 1457   | 40  | 169  | 460g6 | 450g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 7800                       |
| 30                     | 1200000                                                 | 160n6                                   | 270   | 1457   | 40  | 169  | 480g6 | 470g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 8300                       |
| 31                     | 1330000                                                 | 170n6                                   | 270   | 1607   | 40  | 179  | 480g6 | 470g6 | 232   | 5     | 237   | 1665  | 94  | 1545  | 1400h7 | 36           | 538   | 1443  | 32                    | 62  | 10200                      |
| 32                     | 1500000                                                 | 170n6                                   | 270   | 1607   | 40  | 179  | 510g6 | 500g6 | 232   | 5     | 237   | 1665  | 94  | 1545  | 1400h7 | 36           | 538   | 1443  | 32                    | 62  | 10700                      |
| 33                     | 1680000                                                 | 180n6                                   | 310   | 1683   | 45  | 190  | 530g6 | 520g6 | 242   | 5     | 247   | 1755  | 100 | 1635  | 1495h7 | 36           | 573   | 1536  | 36                    | 62  | 12350                      |
| 34                     | 1920000                                                 | 180n6                                   | 310   | 1683   | 45  | 190  | 570g6 | 560g6 | 242   | 5     | 247   | 1755  | 100 | 1635  | 1495h7 | 36           | 573   | 1536  | 36                    | 62  | 13150                      |
| 35                     | 2240000                                                 | 190n6                                   | 310   | 1899   | 45  | 200  | 600g6 | 590g6 | 272   | 5     | 277   | 1945  | 112 | 1825  | 1685h7 | 40           | 656   | 1720  | 40                    | 62  | 17300                      |
| 36                     | 2600000                                                 | 190n6                                   | 310   | 1899   | 45  | 200  | 640g6 | 630g6 | 272   | 5     | 277   | 1945  | 112 | 1825  | 1685h7 | 40           | 656   | 1720  | 40                    | 62  | 18400                      |

1) 轴伸 $d_1$ 中心孔, 见第96页。

2) 所需安装空间。

3) 请注意联接螺栓和凸缘。

4) 不包括锁紧盘和润滑油的重量。

1) For shaft end  $d_1$  with centre hole, see page 96

2) Space required.

3) Observe bolted connection and boss.

4) Weight without shrink disc and oil.

传动比, 转速, 功率  
类型 JRP2N..

Ratio, Speed, Power Rating  
Type JRP2N..



| 传动比 <i>i</i> <sub>N</sub> , 转速 <i>n</i> <sub>1</sub> 和 <i>n</i> <sub>2</sub> , 额定功率 <i>P</i> <sub>N</sub> /Ratio <i>i</i> <sub>N</sub> , speeds <i>n</i> <sub>1</sub> and <i>n</i> <sub>2</sub> , nominal power ratings <i>P</i> <sub>N</sub> |                       |                       |                                                                                      |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |   |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|---|---|---|---|--|--|
| <i>i</i> <sub>N</sub>                                                                                                                                                                                                                         | <i>n</i> <sub>1</sub> | <i>n</i> <sub>2</sub> | 齿轮箱规格 / Gear unit sizes                                                              |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |   |  |  |
|                                                                                                                                                                                                                                               |                       |                       | 9                                                                                    | 10  | 11  | 12  | 13  | 14  | 16  | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   | 33   | 34   | 35    | 36    |   |   |   |   |  |  |
|                                                                                                                                                                                                                                               |                       |                       | 额定功率 <i>P</i> <sub>N</sub> (kW)/ Nominal power ratings <i>P</i> <sub>N</sub> in (kW) |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |   |  |  |
| 25                                                                                                                                                                                                                                            | 1500                  | 60                    | 137                                                                                  | 193 | 261 | 373 | 516 | 728 | 995 | 1256 | 1517 | 1834 | 2201 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | — | — | — | — |  |  |
|                                                                                                                                                                                                                                               | 1000                  | 40                    | 91                                                                                   | 129 | 174 | 249 | 344 | 485 | 663 | 837  | 1012 | 1223 | 1468 | 1625 | 1866 | 2127 | 2454 | 2863 | 3163 | 3532 | 3938 | 4394 | 4975 | 5514 | 6218 | 6965 | 7960 | 9286  | 10779 | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 750                   | 30                    | 68                                                                                   | 96  | 131 | 187 | 258 | 364 | 497 | 628  | 759  | 917  | 1101 | 1219 | 1399 | 1595 | 1841 | 2127 | 2372 | 2649 | 2954 | 3296 | 3731 | 4135 | 4664 | 5223 | 5970 | 6965  | 8084  | — | — | — |   |  |  |
| 28                                                                                                                                                                                                                                            | 1500                  | 54                    | 123                                                                                  | 173 | 235 | 336 | 465 | 655 | 895 | 1131 | 1366 | 1651 | 1981 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | — | — | — | — |  |  |
|                                                                                                                                                                                                                                               | 1000                  | 36                    | 82                                                                                   | 116 | 157 | 224 | 310 | 437 | 597 | 754  | 910  | 1101 | 1321 | 1463 | 1679 | 1914 | 2209 | 2552 | 2847 | 3179 | 3544 | 3955 | 4477 | 4962 | 5597 | 6268 | 7164 | 8358  | 9701  | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 750                   | 27                    | 62                                                                                   | 87  | 118 | 168 | 232 | 327 | 448 | 565  | 683  | 825  | 991  | 1097 | 1259 | 1436 | 1657 | 1914 | 2135 | 2384 | 2658 | 2966 | 3358 | 3722 | 4197 | 4701 | 5373 | 6268  | 7276  | — | — | — |   |  |  |
| 31.5                                                                                                                                                                                                                                          | 1500                  | 48                    | 109                                                                                  | 154 | 209 | 298 | 413 | 582 | 796 | 1005 | 1214 | 1468 | 1761 | 1950 | 2239 | 2552 | 2945 | 3403 | 3796 | 4238 | 4726 | 5273 | 5970 | 6616 | 7462 | 8358 | 9551 | 11143 | 12934 | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 1000                  | 32                    | 73                                                                                   | 103 | 139 | 199 | 275 | 388 | 531 | 670  | 809  | 978  | 1174 | 1300 | 1492 | 1701 | 1963 | 2268 | 2530 | 2826 | 3151 | 3515 | 3980 | 4411 | 4975 | 5572 | 6368 | 7429  | 8623  | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 750                   | 24                    | 55                                                                                   | 77  | 104 | 149 | 206 | 291 | 398 | 502  | 607  | 734  | 881  | 975  | 1119 | 1276 | 1473 | 1701 | 1898 | 2129 | 2363 | 2637 | 2985 | 3308 | 3731 | 4179 | 4776 | 5572  | 6467  | — | — | — |   |  |  |
| 35.5                                                                                                                                                                                                                                          | 1500                  | 42                    | 96                                                                                   | 135 | 183 | 261 | 361 | 509 | 696 | 879  | 1062 | 1284 | 1541 | 1706 | 1959 | 2233 | 2577 | 2977 | 3321 | 3709 | 4135 | 4614 | 5223 | 5789 | 6529 | 7313 | 8358 | 9750  | 11317 | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 1000                  | 28                    | 64                                                                                   | 90  | 122 | 174 | 241 | 340 | 464 | 586  | 708  | 856  | 1027 | 1138 | 1306 | 1489 | 1718 | 1985 | 2214 | 2472 | 2757 | 3076 | 3482 | 3860 | 4353 | 4875 | 5572 | 6500  | 7545  | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 750                   | 21                    | 48                                                                                   | 67  | 91  | 131 | 181 | 255 | 348 | 440  | 531  | 642  | 770  | 853  | 979  | 1117 | 1288 | 1489 | 1661 | 1854 | 2068 | 2307 | 2612 | 2895 | 3265 | 3656 | 4179 | 4875  | 5659  | — | — | — |   |  |  |
| 40                                                                                                                                                                                                                                            | 1500                  | 38                    | 87                                                                                   | 122 | 165 | 236 | 327 | 461 | 630 | 796  | 961  | 1162 | 1394 | 1544 | 1772 | 2020 | 2331 | 2694 | 3005 | 3355 | 3741 | 4175 | 4726 | 5238 | 5907 | 6616 | 7562 | 8822  | 10240 | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 1000                  | 25                    | 57                                                                                   | 80  | 109 | 155 | 215 | 303 | 415 | 523  | 632  | 764  | 917  | 1016 | 1166 | 1329 | 1534 | 1772 | 1977 | 2208 | 2461 | 2746 | 3109 | 3446 | 3886 | 4353 | 4975 | 5804  | 6737  | — | — | — |   |  |  |
|                                                                                                                                                                                                                                               | 750                   | 19                    | 43                                                                                   | 61  | 83  | 118 | 163 | 230 | 315 | 398  | 480  | 581  | 697  | 772  | 886  | 1010 | 1166 | 1347 | 1502 | 1678 | 1871 | 2087 | 2363 | 2619 | 2954 | 3308 | 3781 | 4411  | 5120  | — | — | — |   |  |  |

— = 请咨询杰牌

— = On request

| 热容量 <i>P</i> <sub>G1</sub> (kW)/ Thermal capacities <i>P</i> <sub>G1</sub> in (kW) *)       |                                                                                    |    |    |    |    |     |     |     |     |       |       |       |       |       |       |       |       |       |  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|----|----|----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                                                             | 齿轮箱规格 / Gear unit sizes                                                            |    |    |    |    |     |     |     |     |       |       |       |       |       |       |       |       |       |  |
|                                                                                             | 9                                                                                  | 10 | 11 | 12 | 13 | 14  | 16  | 17  | 18  | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31/32 | 33/34 | 35/36 |  |
|                                                                                             | 热容量 <i>P</i> <sub>G1</sub> (kW)/ Thermal capacities <i>P</i> <sub>G1</sub> in (kW) |    |    |    |    |     |     |     |     |       |       |       |       |       |       |       |       |       |  |
| 1) <i>P</i> <sub>G1</sub> 室内小空间安装<br><i>P</i> <sub>G1</sub> for small confined spaces       | 21                                                                                 | 26 | 32 | 42 | 49 | 65  | 75  | 92  | 100 | 119   | 142   | 174   | 201   | 242   | 287   | 326   | 366   | 437   |  |
| 2) <i>P</i> <sub>G1</sub> 室内大空间安装<br><i>P</i> <sub>G1</sub> for large halls, workshops etc. | 29                                                                                 | 37 | 45 | 60 | 69 | 92  | 106 | 130 | 147 | 169   | 201   | 246   | 285   | 343   | 406   | 462   | 519   | 619   |  |
| 3) <i>P</i> <sub>G1</sub> 室外安装<br><i>P</i> <sub>G1</sub> in the open                        | 39                                                                                 | 50 | 60 | 80 | 93 | 125 | 143 | 175 | 191 | 228   | 272   | 333   | 386   | 464   | 550   | 626   | 702   | 838   |  |

\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

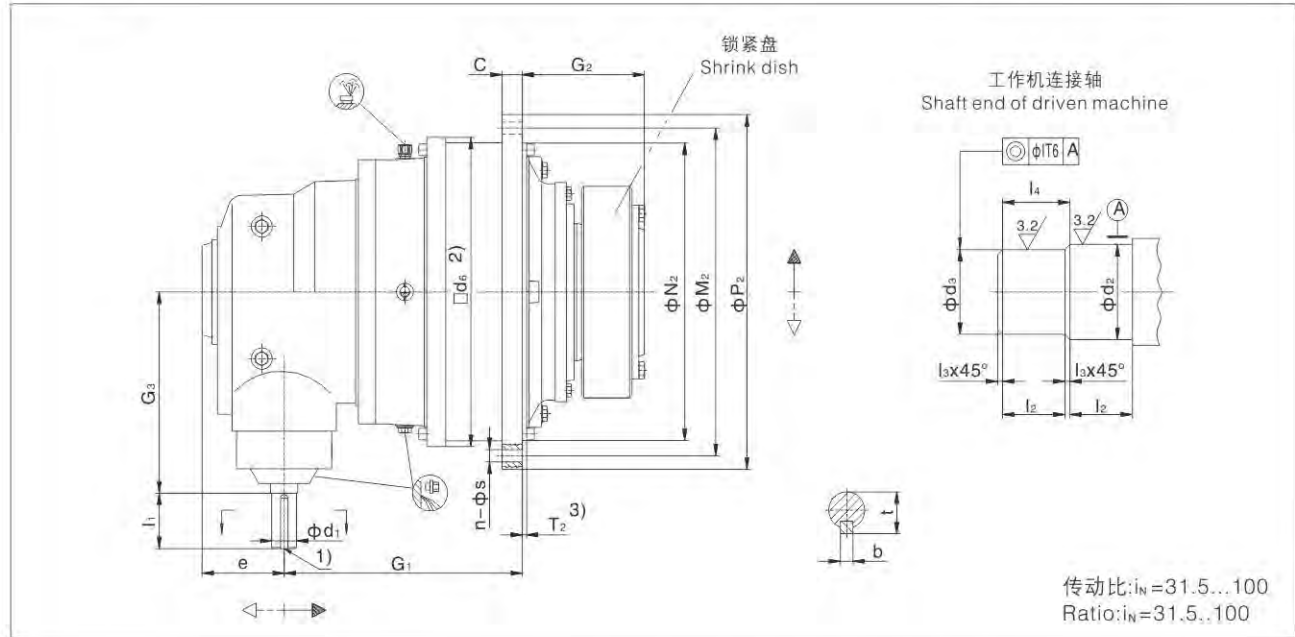
\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) 风速 ≥ 0.5m/s
- 2) 风速 ≥ 1.4m/s
- 3) 风速 ≥ 3.7m/s

- 1) Wind velocity ≥ 0.5m/s
- 2) Wind velocity ≥ 1.4m/s
- 3) Wind velocity ≥ 3.7m/s

外形尺寸和重量  
类型 JRP2LA..

Dimension and Weight  
Type JRP2LA..



| JRP2LA..<br>规格<br>Size | 额定输出扭矩<br>Nominal<br>Output Torques<br>$T_{2N}$<br>(Nm) | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |       |     |      |                |       |     |      |       |       |     | $d_2$ | $d_3$ | $l_2$ | $l_3$ | $l_4$ | $P_2$ | $C$ | $M_2$ | $N_2$  | $T_2$        | $G_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |     | 重量<br>Weight<br>(kg)<br>4) |
|------------------------|---------------------------------------------------------|-----------------------------------------|-------|-----|------|----------------|-------|-----|------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|--------|--------------|-------|-------|-----------------------|-----|----------------------------|
|                        |                                                         | $i_N \leq 90$                           |       |     |      | $i_N \geq 100$ |       |     |      | $G_1$ | $G_3$ | $e$ |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |
|                        |                                                         | $d_1$                                   | $l_1$ | $b$ | $t$  | $d_1$          | $l_1$ | $b$ | $t$  |       |       |     |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |
|                        |                                                         |                                         |       |     |      |                |       |     |      |       |       |     |       |       |       |       |       |       |     |       |        |              |       |       | $n$                   | $s$ |                            |
| 9                      | 22000                                                   | 45m6                                    | 100   | 14  | 48.5 | 35m6           | 80    | 10  | 38   | 425   | 305   | 185 | 120h6 | 115h6 | 65    | 25    | 67.5  | 428   | 24  | 388   | 350h7  | $6 \pm 1.5$  | 165   | 356   | 24                    | 18  | 260                        |
| 10                     | 31000                                                   | 45m6                                    | 100   | 14  | 48.5 | 35m6           | 80    | 10  | 38   | 446   | 305   | 185 | 130h6 | 125h6 | 70    | 25    | 72.5  | 472   | 28  | 436   | 394h7  | $8 \pm 1.5$  | 174   | 400   | 28                    | 18  | 310                        |
| 11                     | 42000                                                   | 55m6                                    | 110   | 16  | 59   | 40m6           | 100   | 12  | 43   | 501   | 350   | 210 | 140h6 | 135h6 | 82.5  | 25    | 85    | 525   | 32  | 485   | 425h7  | $8 \pm 1.5$  | 204   | 436   | 20                    | 22  | 380                        |
| 12                     | 60000                                                   | 55m6                                    | 110   | 16  | 59   | 40m6           | 100   | 12  | 43   | 515   | 350   | 210 | 160h6 | 155h6 | 90    | 25    | 92.5  | 605   | 34  | 555   | 495h7  | $9 \pm 1.5$  | 224   | 510   | 20                    | 26  | 520                        |
| 13                     | 83000                                                   | 70m6                                    | 135   | 20  | 74.5 | 50m6           | 110   | 14  | 53.5 | 619   | 415   | 250 | 180g6 | 175g6 | 95    | 25    | 97.5  | 645   | 39  | 595   | 535h7  | $11 \pm 1.5$ | 241   | 554   | 24                    | 26  | 650                        |
| 14                     | 117000                                                  | 70m6                                    | 135   | 20  | 74.5 | 50m6           | 110   | 14  | 53.5 | 630   | 415   | 250 | 210g6 | 205g6 | 105   | 25    | 107.5 | 720   | 42  | 665   | 610h7  | 9            | 278   | 629   | 32                    | 26  | 910                        |
| 16                     | 160000                                                  | 80m6                                    | 165   | 22  | 85   | 60m6           | 140   | 18  | 64   | 705   | 490   | 295 | 230g6 | 225g6 | 110   | 25    | 112.5 | 770   | 44  | 715   | 660h7  | 10           | 285   | 680   | 36                    | 26  | 1140                       |
| 17                     | 202000                                                  | 80m6                                    | 165   | 22  | 85   | 60m6           | 140   | 18  | 64   | 731   | 490   | 295 | 250g6 | 245g6 | 120   | 25    | 122.5 | 895   | 50  | 830   | 750h7  | 10           | 294   | 775   | 24                    | 33  | 1660                       |
| 18                     | 244000                                                  | 90m6                                    | 165   | 25  | 95   | 70m6           | 140   | 20  | 74.5 | 882   | 605   | 350 | 260g6 | 255g6 | 120   | 25    | 122.5 | 930   | 50  | 865   | 785h7  | 10           | 303   | 815   | 32                    | 33  | 2100                       |
| 19                     | 295000                                                  | 90m6                                    | 165   | 25  | 95   | 70m6           | 140   | 20  | 74.5 | 905.5 | 605   | 350 | 280g6 | 275g6 | 135   | 25    | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2200                       |
| 20                     | 354000                                                  | 90m6                                    | 165   | 25  | 95   | 70m6           | 140   | 20  | 85   | 905.5 | 700   | 350 | 300g6 | 295g6 | 135   | 25    | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2300                       |
| 21                     | 392000                                                  | 110n6                                   | 205   | 28  | 116  | 80m6           | 170   | 22  | 85   | 996   | 700   | 400 | 310g6 | 305g6 | 152   | 25    | 154.5 | 1115  | 62  | 1025  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 2930                       |
| 22                     | 450000                                                  | 110n6                                   | 205   | 28  | 116  | 80m6           | 170   | 22  | 85   | 996   | 700   | 400 | 330g6 | 325g6 | 152   | 25    | 154.5 | 115   | 62  | 1120  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 3100                       |
| 23                     | 513000                                                  | 110n6                                   | 205   | 28  | 116  | 80m6           | 170   | 22  | 85   | 1055  | 700   | 400 | 350g6 | 345g6 | 164   | 25    | 166.5 | 1210  | 68  | 1120  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 3800                       |
| 24                     | 592000                                                  | 110n6                                   | 205   | 28  | 116  | 80m6           | 170   | 22  | 106  | 1055  | 700   | 400 | 360g6 | 355g6 | 164   | 25    | 166.5 | 1210  | 68  | 1220  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 4300                       |
| 25                     | 684000                                                  | 130n6                                   | 245   | 32  | 137  | 100m6          | 210   | 28  | 106  | 1138  | 835   | 475 | 380g6 | 375g6 | 180   | 25    | 182.5 | 1320  | 74  | 1220  | 1115h7 | 29           | 407   | 1056  | 36                    | 45  | 5250                       |
| 26                     | 763000                                                  | 130n6                                   | 245   | 32  | 137  | 100m6          | 210   | 28  | 106  | 1138  | 835   | 475 | 400g6 | 395g6 | 180   | 25    | 182.5 | 1320  | 74  | 1345  | 1115h7 | 29           | 407   | 1150  | 36                    | 45  | 5660                       |
| 27                     | 852000                                                  | 130n6                                   | 245   | 32  | 137  | 100m6          | 210   | 28  | 106  | 1272  | 835   | 475 | 430g6 | 425g6 | 191   | 25    | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1150  | 32                    | 52  | 6680                       |
| 28                     | 950000                                                  | 130n6                                   | 245   | 32  | 137  | 100m6          | 210   | 28  | 106  | 1272  | 835   | 475 | 450g6 | 445g6 | 191   | 25    | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1248  | 32                    | 52  | 7180                       |
| 29                     | 1060000                                                 | 150n6                                   | 245   | 36  | 158  | 110n6          | 210   | 28  | 116  | 1367  | 945   | 530 | 460g6 | 450g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 8500                       |
| 30                     | 1200000                                                 | 150n6                                   | 245   | 36  | 158  | 110n6          | 210   | 28  | 116  | 1367  | 945   | 530 | 480g6 | 470g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 9070                       |
| 31~36                  |                                                         | 请咨询杰牌<br>Please consult JIE             |       |     |      |                |       |     |      |       |       |     |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |

- 1) 轴伸 $d_1$ 中心孔, 见第96页。
- 2) 所需安装空间。
- 3) 请注意联接螺栓和凸缘。
- 4) 不包括锁紧盘和润滑油的重量。

- 1) For shaft end  $d_1$  with centre hole, see page 96
- 2) Space required.
- 3) Observe bolted connection and boss.
- 4) Weight without shrink disc and oil.



传动比, 转速, 功率  
类型 JRP2L..

Ratio, Speed, Power Rating  
Type JRP2L..



| 传动比 <i>i<sub>N</sub></i> , 转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> , 额定功率 <i>P<sub>N</sub></i> / Ratio <i>i<sub>N</sub></i> , speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> , nominal power ratings <i>P<sub>N</sub></i> |                      |                      |                                                                                     |     |     |     |     |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                                   | <i>n<sub>1</sub></i> | <i>n<sub>2</sub></i> | 齿轮箱规格 / Gear unit sizes                                                             |     |     |     |     |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        |                      |                      | 9                                                                                   | 10  | 11  | 12  | 13  | 14  | 16  | 17  | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31-36 |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        |                      |                      | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |     |     |     |     |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
| 31.5                                                                                                                                                                                                                                   | 1500                 | 47.6                 | 111                                                                                 | 156 | 212 | 302 | 418 | 510 | 806 | 865 | 1230* | 1487* | 1517* | 1976* | 2268* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 31.7                 | 74                                                                                  | 104 | 141 | 202 | 279 | 340 | 538 | 577 | 820   | 991   | 1011  | 1317* | 1512* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 23.8                 | 55                                                                                  | 78  | 106 | 151 | 209 | 255 | 403 | 433 | 615   | 743   | 758   | 988   | 1134  | 1293  | 1492  | 1724* | 1989* | 2298* | 2564* | 2863* | 2937* | 2203  |       |  |  |  |  |  |  |  |  |  |  |
| 35.5                                                                                                                                                                                                                                   | 1500                 | 42.3                 | 98                                                                                  | 139 | 188 | 268 | 345 | 487 | 716 | 858 | 1091* | 1319* | 1504* | 1753* | 2013* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 28.2                 | 66                                                                                  | 92  | 125 | 179 | 247 | 324 | 477 | 572 | 728   | 880   | 1003  | 1169* | 1342* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 21.1                 | 49                                                                                  | 69  | 94  | 134 | 173 | 243 | 358 | 429 | 546   | 660   | 752   | 877   | 1006  | 1530* | 1712* | 2040* | 2275* | 2540* | 2833* | 2833* | 2203  |       |       |  |  |  |  |  |  |  |  |  |  |
| 40                                                                                                                                                                                                                                     | 1500                 | 37.5                 | 87                                                                                  | 123 | 167 | 238 | 306 | 432 | 635 | 802 | 969*  | 1171* | 1405* | 1556* | 1786* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 25.0                 | 58                                                                                  | 82  | 111 | 159 | 204 | 288 | 423 | 535 | 646   | 781   | 937   | 1037* | 1191* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 18.8                 | 44                                                                                  | 62  | 83  | 119 | 153 | 216 | 318 | 401 | 484   | 585   | 703   | 778   | 883   | 1358* | 1567* | 1810* | 2019* | 2255* | 2514* | 1691  | 1885  |       |       |  |  |  |  |  |  |  |  |  |  |
| 45                                                                                                                                                                                                                                     | 1500                 | 33.3                 | 78                                                                                  | 109 | 148 | 212 | 293 | 413 | 565 | 713 | 861*  | 1041* | 1249* | 1383* | 1588* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 22.2                 | 52                                                                                  | 73  | 99  | 141 | 195 | 275 | 376 | 475 | 574   | 694   | 833   | 922*  | 1059* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 16.7                 | 39                                                                                  | 55  | 74  | 106 | 146 | 206 | 282 | 356 | 430   | 520   | 625   | 692   | 794   | 905   | 1044  | 1207  | 1346  | 1503  | 1676  | 1870  | 2117  |       |       |  |  |  |  |  |  |  |  |  |  |
| 50                                                                                                                                                                                                                                     | 1500                 | 30.0                 | 70                                                                                  | 98  | 133 | 191 | 264 | 372 | 508 | 641 | 775   | 937   | 1124  | 1245* | 1429* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 20.0                 | 47                                                                                  | 66  | 89  | 127 | 176 | 248 | 339 | 428 | 517   | 625   | 749   | 830   | 953   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 15.0                 | 35                                                                                  | 49  | 67  | 95  | 132 | 186 | 254 | 321 | 387   | 468   | 562   | 622   | 714   | 815   | 940   | 1086  | 1253  | 1448* | 1615* | 1804* | 2011* | 1683  | 1905  |  |  |  |  |  |  |  |  |  |  |
| 56                                                                                                                                                                                                                                     | 1500                 | 26.8                 | 62                                                                                  | 88  | 119 | 170 | 235 | 332 | 454 | 573 | 692   | 836   | 1004  | 1111* | 1276* |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 17.9                 | 42                                                                                  | 59  | 79  | 113 | 157 | 221 | 302 | 382 | 461   | 558   | 669   | 741   | 851   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 13.4                 | 31                                                                                  | 44  | 60  | 85  | 118 | 166 | 227 | 286 | 346   | 418   | 502   | 556   | 638   | 727   | 839   | 970   | 1119  | 1293* | 1442* | 1610* | 1796* | 2004* | 2268* |  |  |  |  |  |  |  |  |  |  |
| 63                                                                                                                                                                                                                                     | 1500                 | 23.8                 | 55                                                                                  | 78  | 106 | 151 | 209 | 295 | 403 | 509 | 615   | 743   | 892   | 988   | 1134  |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 15.9                 | 37                                                                                  | 52  | 71  | 101 | 139 | 197 | 269 | 339 | 410   | 496   | 595   | 659   | 756   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 11.9                 | 28                                                                                  | 39  | 53  | 76  | 105 | 147 | 202 | 255 | 307   | 372   | 446   | 494   | 567   | 646   | 746   | 862   | 961   | 1074  | 1197  | 1336  | 1512  |       |       |  |  |  |  |  |  |  |  |  |  |
| 71                                                                                                                                                                                                                                     | 1500                 | 21.1                 | 49                                                                                  | 69  | 94  | 134 | 186 | 262 | 358 | 452 | 546   | 660   | 792   | 877   | 1006  |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 14.1                 | 33                                                                                  | 46  | 63  | 89  | 124 | 174 | 239 | 301 | 364   | 440   | 528   | 584   | 671   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 10.6                 | 25                                                                                  | 35  | 47  | 67  | 93  | 131 | 179 | 226 | 273   | 330   | 396   | 438   | 503   | 574   | 662   | 765   | 853   | 953   | 1062  | 1185  | 1342  |       |       |  |  |  |  |  |  |  |  |  |  |
| 80                                                                                                                                                                                                                                     | 1500                 | 18.8                 | 44                                                                                  | 62  | 83  | 119 | 165 | 232 | 318 | 401 | 484   | 585   | 703   | 778   | 893   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 12.5                 | 29                                                                                  | 41  | 56  | 79  | 110 | 155 | 212 | 267 | 323   | 390   | 468   | 519   | 595   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 9.4                  | 22                                                                                  | 31  | 42  | 60  | 82  | 116 | 159 | 200 | 242   | 293   | 351   | 389   | 447   | 509   | 587   | 679   | 757   | 845   | 943   | 1053  | 1191  |       |       |  |  |  |  |  |  |  |  |  |  |
| 90                                                                                                                                                                                                                                     | 1500                 | 16.7                 | 39                                                                                  | 55  | 74  | 106 | 146 | 206 | 282 | 356 | 430   | 520   | 625   | 692   | 794   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 11.1                 | 26                                                                                  | 36  | 49  | 71  | 98  | 138 | 188 | 238 | 287   | 347   | 416   | 461   | 529   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 8.3                  | 19                                                                                  | 27  | 37  | 53  | 73  | 103 | 141 | 178 | 215   | 260   | 312   | 346   | 397   | 453   | 522   | 603   | 673   | 752   | 838   | 935   | 1059  |       |       |  |  |  |  |  |  |  |  |  |  |
| 100                                                                                                                                                                                                                                    | 1500                 | 15.0                 | 35                                                                                  | 49  | 67  | 95  | 132 | 186 | 254 | 321 | 387   | 468   | 562   | 622   | 714   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 10.0                 | 23                                                                                  | 33  | 44  | 64  | 88  | 124 | 169 | 214 | 258   | 312   | 375   | 415   | 476   |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 7.5                  | 17                                                                                  | 25  | 33  | 48  | 66  | 93  | 127 | 160 | 194   | 234   | 281   | 311   | 357   | 407   | 470   | 543   | 627   | 724   | 808   | 902   | 1006  | 1122  | 1270  |  |  |  |  |  |  |  |  |  |  |

请咨询杰牌

\* 需要强制润滑

\* Forced lubrication required

请咨询杰牌

| 热容量 $P_{G1}$ (kW) / Thermal capacities $P_{G1}$ in (kW) *       |                                                         |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |
|-----------------------------------------------------------------|---------------------------------------------------------|----|----|----|----|----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|
|                                                                 | 齿轮箱规格 / Gear unit sizes                                 |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |
|                                                                 | 9                                                       | 10 | 11 | 12 | 13 | 14 | 16  | 17  | 18  | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31/36 |
|                                                                 | 热容量 $P_{G1}$ (kW) / Thermal capacities $P_{G1}$ in (kW) |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |
| 1) $P_{G1}$ 室内小空间安装<br>$P_{G1}$ for small confined spaces       | 14                                                      | 18 | 22 | 29 | 34 | 46 | 52  | 64  | 70  | 83    | 99    | 121   | 141   | 169   | 200   |       |
| 2) $P_{G1}$ 室内大空间安装<br>$P_{G1}$ for large halls, workshops etc. | 20                                                      | 26 | 31 | 41 | 48 | 64 | 74  | 91  | 99  | 118   | 140   | 172   | 199   | 240   | 284   |       |
| 3) $P_{G1}$ 室外安装<br>$P_{G1}$ in the open                        | 28                                                      | 35 | 42 | 56 | 65 | 87 | 100 | 123 | 133 | 159   | 190   | 233   | 269   | 324   | 384   |       |

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\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

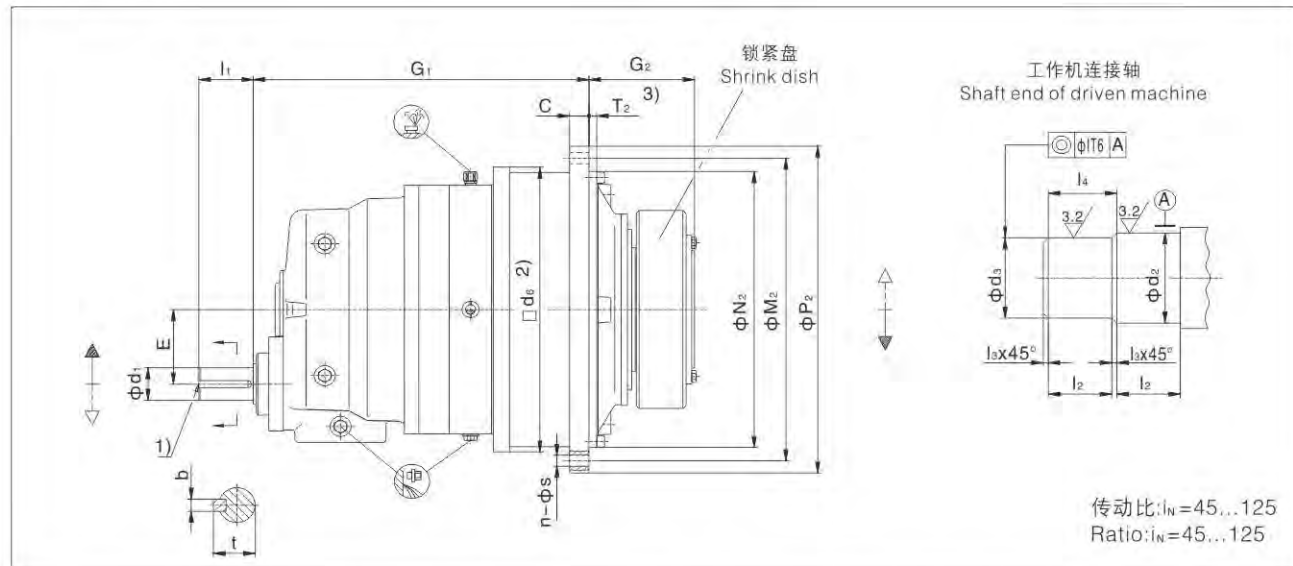
\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) 风速  $\geq 0.5$  m/s
- 2) 风速  $\geq 1.4$  m/s
- 3) 风速  $\geq 3.7$  m/s

- 1) Wind velocity  $\geq 0.5$  m/s
- 2) Wind velocity  $\geq 1.4$  m/s
- 3) Wind velocity  $\geq 3.7$  m/s

外形尺寸和重量  
类型 JRP2SA..

Dimension and Weight  
Type JRP2SA..



| JRP2SA...<br>规格<br>Size | 额定输出扭矩<br>Nominal<br>Output Torques | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |                |                |    |      |     | d <sub>2</sub> | d <sub>3</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | P <sub>2</sub> | C   | M <sub>2</sub> | N <sub>2</sub> | T <sub>2</sub> | G <sub>2</sub> | d <sub>6</sub> | 法兰孔尺寸<br>Flange bolts |    | 重量<br>Weight<br>(kg)<br>4) |
|-------------------------|-------------------------------------|-----------------------------------------|----------------|----------------|----|------|-----|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|-----------------------|----|----------------------------|
|                         | T <sub>2N</sub><br>(Nm)             | d <sub>1</sub>                          | l <sub>1</sub> | G <sub>1</sub> | b  | t    | E   |                |                |                |                |                |                |     |                |                |                |                |                | n                     | s  |                            |
|                         |                                     |                                         |                |                |    |      |     |                |                |                |                |                |                |     |                |                |                |                |                |                       |    |                            |
| 9                       | 22000                               | 38m6                                    | 60             | 469            | 10 | 41   | 90  | 120h6          | 115h6          | 65             | 2.5            | 67.5           | 428            | 24  | 388            | 350h7          | 6±1.5          | 165            | 356            | 24                    | 18 | 260                        |
| 10                      | 31000                               | 38m6                                    | 60             | 489            | 10 | 41   | 90  | 130h6          | 125h6          | 70             | 2.5            | 72.5           | 472            | 28  | 436            | 394h7          | 8±1.5          | 174            | 400            | 28                    | 18 | 310                        |
| 11                      | 42000                               | 55m6                                    | 90             | 579            | 16 | 59   | 115 | 140h6          | 135h6          | 82.5           | 2.5            | 85             | 525            | 32  | 485            | 425h7          | 8±1.5          | 204            | 436            | 20                    | 22 | 380                        |
| 12                      | 60000                               | 55m6                                    | 90             | 593            | 16 | 59   | 115 | 160h6          | 155h6          | 90             | 2.5            | 92.5           | 605            | 34  | 555            | 495h7          | 9±1.5          | 224            | 510            | 20                    | 26 | 520                        |
| 13                      | 83000                               | 70m6                                    | 120            | 714            | 20 | 74.5 | 140 | 180g6          | 175g6          | 95             | 2.5            | 97.5           | 645            | 39  | 595            | 535h7          | 11±1.5         | 241            | 554            | 24                    | 26 | 660                        |
| 14                      | 117000                              | 70m6                                    | 120            | 737            | 20 | 74.5 | 140 | 210g6          | 205g6          | 105            | 2.5            | 107.5          | 720            | 42  | 665            | 610h7          | 9              | 278            | 629            | 32                    | 26 | 920                        |
| 16                      | 160000                              | 80m6                                    | 140            | 851            | 22 | 85   | 170 | 230g6          | 225g6          | 110            | 2.5            | 112.5          | 770            | 44  | 715            | 660h7          | 10             | 285            | 680            | 36                    | 26 | 1150                       |
| 17                      | 202000                              | 80m6                                    | 140            | 877            | 22 | 85   | 170 | 250g6          | 245g6          | 120            | 2.5            | 122.5          | 895            | 50  | 830            | 750h7          | 10             | 294            | 775            | 24                    | 33 | 1650                       |
| 18                      | 244000                              | 90m6                                    | 160            | 1006           | 25 | 95   | 200 | 260g6          | 255g6          | 120            | 2.5            | 122.5          | 930            | 50  | 865            | 785h7          | 10             | 303            | 815            | 32                    | 33 | 1950                       |
| 19                      | 295000                              | 90m6                                    | 160            | 1029.5         | 25 | 95   | 200 | 280g6          | 275g6          | 135            | 2.5            | 137.5          | 980            | 56  | 915            | 840h7          | 12             | 327.5          | 870            | 36                    | 33 | 2400                       |
| 20                      | 354000                              | 90m6                                    | 160            | 1029.5         | 25 | 95   | 200 | 300g6          | 295g6          | 135            | 2.5            | 137.5          | 980            | 56  | 915            | 840h7          | 12             | 327.5          | 870            | 36                    | 33 | 2500                       |
| 21                      | 392000                              | 100m6                                   | 180            | 1076           | 28 | 106  | 230 | 310g6          | 305g6          | 152            | 2.5            | 154.5          | 1115           | 62  | 1025           | 935h7          | 24             | 354            | 960            | 32                    | 39 | 2900                       |
| 22                      | 450000                              | 100m6                                   | 180            | 1076           | 28 | 106  | 230 | 330g6          | 325g6          | 152            | 2.5            | 154.5          | 1115           | 62  | 1025           | 935h7          | 24             | 354            | 960            | 32                    | 39 | 3100                       |
| 23                      | 513000                              | 120n6                                   | 210            | 1175           | 32 | 127  | 265 | 350g6          | 345g6          | 164            | 2.5            | 166.5          | 1210           | 68  | 1120           | 1025h7         | 28             | 380            | 1056           | 36                    | 39 | 3800                       |
| 24                      | 592000                              | 120n6                                   | 210            | 1175           | 32 | 127  | 265 | 360g6          | 355g6          | 164            | 2.5            | 166.5          | 1210           | 68  | 1120           | 1025h7         | 28             | 380            | 1056           | 36                    | 39 | 4100                       |
| 25                      | 684000                              | 130n6                                   | 210            | 1291           | 32 | 137  | 300 | 380g6          | 375g6          | 180            | 2.5            | 182.5          | 1320           | 74  | 1220           | 1115h7         | 29             | 407            | 1150           | 36                    | 45 | 4950                       |
| 26                      | 763000                              | 130n6                                   | 210            | 1291           | 32 | 137  | 300 | 400g6          | 395g6          | 180            | 2.5            | 182.5          | 1320           | 74  | 1220           | 1115h7         | 29             | 407            | 1150           | 36                    | 45 | 5350                       |
| 27                      | 852000                              | 140n6                                   | 240            | 1429           | 36 | 148  | 320 | 430g6          | 425g6          | 191            | 2.5            | 193.5          | 1460           | 81  | 1345           | 1215h7         | 31             | 453            | 1248           | 32                    | 52 | 6800                       |
| 28                      | 950000                              | 140n6                                   | 240            | 1429           | 36 | 148  | 320 | 450g6          | 445g6          | 191            | 2.5            | 193.5          | 1460           | 81  | 1345           | 1215h7         | 31             | 453            | 1248           | 32                    | 52 | 7200                       |
| 29                      | 1060000                             | 150n6                                   | 240            | 1507           | 36 | 158  | 360 | 460g6          | 450g6          | 197.5          | 5              | 202.5          | 1565           | 87  | 1450           | 1320h7         | 34             | 483            | 1355           | 36                    | 52 | 8500                       |
| 30                      | 1200000                             | 150n6                                   | 240            | 1507           | 36 | 158  | 360 | 480g6          | 470g6          | 197.5          | 5              | 202.5          | 1565           | 87  | 1450           | 1320h7         | 34             | 483            | 1355           | 36                    | 52 | 9000                       |
| 31                      | 1330000                             | 160n6                                   | 270            | 1662           | 40 | 169  | 400 | 480g6          | 470g6          | 232            | 5              | 237            | 1665           | 94  | 1545           | 1400h7         | 36             | 538            | 1443           | 32                    | 62 | 10500                      |
| 32                      | 1500000                             | 160n6                                   | 270            | 1662           | 40 | 169  | 400 | 510g6          | 500g6          | 232            | 5              | 237            | 1665           | 94  | 1545           | 1400h7         | 36             | 538            | 1443           | 32                    | 62 | 11200                      |
| 33                      | 1680000                             | 170n6                                   | 270            | 1743           | 40 | 179  | 400 | 530g6          | 520g6          | 242            | 5              | 247            | 1755           | 100 | 1635           | 1495h7         | 36             | 573            | 1536           | 36                    | 62 | 12700                      |
| 34                      | 1920000                             | 170n6                                   | 270            | 1743           | 40 | 179  | 400 | 570g6          | 560g6          | 242            | 5              | 247            | 1755           | 100 | 1635           | 1495h7         | 36             | 573            | 1536           | 36                    | 62 | 13500                      |
| 35                      | 2240000                             | 180n6                                   | 310            | 1960           | 45 | 190  | 442 | 600g6          | 590g6          | 272            | 5              | 277            | 1945           | 112 | 1825           | 1685h7         | 40             | 656            | 1720           | 40                    | 62 | 17800                      |
| 36                      | 2600000                             | 180n6                                   | 310            | 1960           | 45 | 190  | 442 | 640g6          | 630g6          | 272            | 5              | 277            | 1945           | 112 | 1825           | 1685h7         | 40             | 656            | 1720           | 40                    | 62 | 18900                      |

1) 轴伸 $d_1$ 中心孔, 见第96页。

2) 所需安装空间。

3) 请注意联接螺栓和凸缘。

4) 不包括锁紧盘和润滑油的重量。

1) For shaft end  $d_1$  with centre hole, see page 96

2) Space required.

3) Observe bolted connection and boss.

4) Weight without shrink disc and oil.



传动比, 转速, 功率  
类型 JRP2S..

Ratio, Speed, Power Rating  
Type JRP2S..



| 传动比 <i>i<sub>N</sub></i> , 转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> , 额定功率 <i>P<sub>N</sub></i> / Ratio <i>i<sub>N</sub></i> , speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> , nominal power ratings <i>P<sub>N</sub></i> |                      |                      |                                                                                     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |   |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|--|--|--|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                                   | <i>n<sub>1</sub></i> | <i>n<sub>2</sub></i> | 齿轮箱规格 / Gear unit sizes                                                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |   |  |  |  |
|                                                                                                                                                                                                                                        |                      |                      | 9                                                                                   | 10  | 11  | 12  | 13  | 14  | 16  | 17  | 18  | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   | 33   | 34   | 35   | 36   |   |   |   |  |  |  |
|                                                                                                                                                                                                                                        |                      |                      | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |   |  |  |  |
| 45                                                                                                                                                                                                                                     | 1500                 | 33.3                 | 77                                                                                  | 108 | 147 | 209 | 290 | 408 | 558 | 705 | 852 | 1030 | 1236 | 1368 | 1571 | 1790 | 2066 | 2387 | 2663 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 22.2                 | 51                                                                                  | 72  | 98  | 140 | 193 | 272 | 372 | 470 | 568 | 686  | 824  | 912  | 1047 | 1194 | 1377 | 1592 | 1775 | 1982 | 2210 | 2466 | 2792 | 3095 | 3490 | 3909 | 4467 | 5212 | 6050 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 16.7                 | 38                                                                                  | 54  | 73  | 105 | 145 | 204 | 279 | 353 | 426 | 515  | 618  | 684  | 785  | 895  | 1033 | 1194 | 1332 | 1487 | 1658 | 1850 | 2094 | 2321 | 2618 | 2932 | 3351 | 3909 | 4537 | — |   |   |  |  |  |
| 50                                                                                                                                                                                                                                     | 1500                 | 30.0                 | 69                                                                                  | 97  | 132 | 188 | 261 | 368 | 503 | 635 | 766 | 927  | 1112 | 1231 | 1414 | 1611 | 1860 | 2149 | 2397 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 20.0                 | 46                                                                                  | 65  | 88  | 126 | 174 | 245 | 335 | 423 | 511 | 618  | 741  | 821  | 942  | 1074 | 1240 | 1432 | 1598 | 1784 | 1989 | 2220 | 2513 | 2785 | 3141 | 3518 | 4021 | 4691 | 5445 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 15.0                 | 35                                                                                  | 49  | 66  | 94  | 130 | 184 | 251 | 317 | 383 | 463  | 556  | 616  | 707  | 806  | 930  | 1074 | 1198 | 1338 | 1492 | 1665 | 1885 | 2089 | 2356 | 2639 | 3016 | 3518 | 4084 | — |   |   |  |  |  |
| 56                                                                                                                                                                                                                                     | 1500                 | 26.8                 | 62                                                                                  | 87  | 118 | 168 | 233 | 328 | 449 | 567 | 684 | 827  | 993  | 1099 | 1262 | 1439 | 1660 | 1918 | 2140 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 17.9                 | 41                                                                                  | 58  | 79  | 112 | 155 | 219 | 299 | 378 | 456 | 552  | 662  | 733  | 841  | 959  | 1107 | 1279 | 1427 | 1593 | 1776 | 1982 | 2244 | 2487 | 2805 | 3141 | 3590 | 4188 | 4861 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 13.4                 | 31                                                                                  | 43  | 59  | 84  | 116 | 164 | 224 | 283 | 342 | 414  | 496  | 550  | 631  | 719  | 830  | 959  | 1070 | 1195 | 1332 | 1486 | 1683 | 1865 | 2103 | 2356 | 2692 | 3141 | 3646 | — |   |   |  |  |  |
| 63                                                                                                                                                                                                                                     | 1500                 | 23.8                 | 55                                                                                  | 77  | 105 | 150 | 207 | 292 | 399 | 504 | 608 | 735  | 883  | 977  | 1122 | 1279 | 1476 | 1705 | 1902 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 15.9                 | 37                                                                                  | 52  | 70  | 100 | 138 | 194 | 266 | 336 | 406 | 490  | 588  | 651  | 748  | 853  | 984  | 1137 | 1268 | 1416 | 1579 | 1762 | 1994 | 2210 | 2493 | 2792 | 3171 | 3723 | 4321 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 11.9                 | 27                                                                                  | 39  | 52  | 75  | 103 | 146 | 199 | 252 | 304 | 368  | 441  | 489  | 561  | 639  | 738  | 853  | 951  | 1062 | 1184 | 1321 | 1496 | 1658 | 1870 | 2094 | 2393 | 2792 | 3241 | — |   |   |  |  |  |
| 71                                                                                                                                                                                                                                     | 1500                 | 21.1                 | 49                                                                                  | 69  | 93  | 133 | 184 | 259 | 354 | 447 | 540 | 653  | 783  | 887  | 995  | 1135 | 1310 | 1513 | 1688 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 14.1                 | 32                                                                                  | 46  | 62  | 88  | 122 | 173 | 236 | 298 | 360 | 435  | 522  | 578  | 664  | 757  | 873  | 1009 | 1125 | 1256 | 1401 | 1563 | 1770 | 1961 | 2212 | 2478 | 2831 | 3303 | 3834 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 10.6                 | 24                                                                                  | 34  | 46  | 66  | 92  | 129 | 177 | 223 | 270 | 326  | 392  | 434  | 498  | 567  | 655  | 757  | 844  | 942  | 1051 | 1172 | 1327 | 1471 | 1659 | 1858 | 2124 | 2478 | 2876 | — |   |   |  |  |  |
| 80                                                                                                                                                                                                                                     | 1500                 | 18.8                 | 43                                                                                  | 61  | 82  | 118 | 163 | 230 | 314 | 397 | 479 | 579  | 695  | 770  | 883  | 1007 | 1162 | 1343 | 1498 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 12.5                 | 29                                                                                  | 41  | 50  | 79  | 109 | 153 | 209 | 264 | 319 | 386  | 463  | 513  | 589  | 671  | 775  | 895  | 999  | 1115 | 1243 | 1387 | 1571 | 1741 | 1963 | 2199 | 2513 | 2932 | 3403 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 9.4                  | 22                                                                                  | 30  | 41  | 59  | 81  | 115 | 157 | 198 | 240 | 290  | 347  | 385  | 442  | 504  | 581  | 671  | 749  | 836  | 933  | 1041 | 1178 | 1306 | 1472 | 1649 | 1885 | 2199 | 2552 | — |   |   |  |  |  |
| 90                                                                                                                                                                                                                                     | 1500                 | 16.7                 | 38                                                                                  | 54  | 73  | 105 | 145 | 204 | 279 | 353 | 426 | 515  | 618  | 684  | 785  | 895  | 1033 | 1194 | 1332 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 11.1                 | 26                                                                                  | 36  | 49  | 70  | 97  | 136 | 186 | 235 | 284 | 343  | 412  | 456  | 524  | 597  | 689  | 796  | 888  | 991  | 1105 | 1233 | 1396 | 1547 | 1745 | 1954 | 2234 | 2606 | 3025 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 8.3                  | 19                                                                                  | 27  | 37  | 52  | 72  | 102 | 140 | 176 | 213 | 257  | 309  | 342  | 393  | 448  | 517  | 597  | 666  | 743  | 829  | 925  | 1047 | 1160 | 1309 | 1466 | 1675 | 1954 | 2269 | — |   |   |  |  |  |
| 100                                                                                                                                                                                                                                    | 1500                 | 15.0                 | 35                                                                                  | 49  | 66  | 94  | 130 | 184 | 251 | 317 | 383 | 463  | 556  | 616  | 707  | 806  | 930  | 1074 | 1198 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 10.0                 | 23                                                                                  | 32  | 44  | 63  | 87  | 123 | 168 | 212 | 255 | 309  | 371  | 410  | 471  | 537  | 620  | 716  | 799  | 892  | 995  | 1110 | 1256 | 1393 | 1571 | 1759 | 2010 | 2345 | 2722 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 7.5                  | 17                                                                                  | 24  | 33  | 47  | 65  | 92  | 126 | 159 | 192 | 232  | 278  | 308  | 353  | 403  | 465  | 537  | 599  | 669  | 746  | 832  | 942  | 1044 | 1178 | 1319 | 1508 | 1759 | 2042 | — |   |   |  |  |  |
| 112                                                                                                                                                                                                                                    | 1500                 | 13.4                 | 31                                                                                  | 43  | 59  | 84  | 116 | 164 | 224 | 283 | 342 | 414  | 496  | 550  | 631  | 719  | 830  | 959  | 1070 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 8.9                  | 21                                                                                  | 29  | 39  | 56  | 78  | 109 | 150 | 189 | 228 | 276  | 331  | 366  | 421  | 480  | 553  | 639  | 713  | 797  | 888  | 991  | 1122 | 1243 | 1402 | 1571 | 1795 | 2094 | 2431 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 6.7                  | 15                                                                                  | 22  | 29  | 42  | 58  | 82  | 112 | 142 | 171 | 207  | 248  | 275  | 316  | 360  | 415  | 480  | 535  | 597  | 666  | 743  | 841  | 933  | 1052 | 1178 | 1346 | 1571 | 1823 | — |   |   |  |  |  |
| 125                                                                                                                                                                                                                                    | 1500                 | 12.0                 | 28                                                                                  | 39  | 53  | 75  | 104 | 147 | 201 | 254 | 307 | 371  | 445  | 493  | 565  | 645  | 744  | 859  | 959  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | — | — |  |  |  |
|                                                                                                                                                                                                                                        | 1000                 | 8.0                  | 18                                                                                  | 26  | 35  | 50  | 70  | 98  | 134 | 169 | 204 | 247  | 297  | 328  | 377  | 430  | 496  | 573  | 639  | 714  | 796  | 888  | 1005 | 1114 | 1256 | 1407 | 1608 | 1876 | 2178 | — |   |   |  |  |  |
|                                                                                                                                                                                                                                        | 750                  | 6.0                  | 14                                                                                  | 19  | 26  | 38  | 52  | 74  | 101 | 127 | 153 | 185  | 222  | 246  | 283  | 322  | 372  | 430  | 479  | 535  | 597  | 666  | 754  | 836  | 942  | 1055 | 1206 | 1407 | 1633 | — |   |   |  |  |  |

- = 请咨询杰牌

- = On request

| 热容量 <i>P<sub>G1</sub></i> (kW) / Thermal capacities <i>P<sub>G1</sub></i> in (kW) *)      |                                                                                   |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                                                           | 齿轮箱规格 / Gear unit sizes                                                           |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
|                                                                                           | 9                                                                                 | 10 | 11 | 12 | 13 | 14 | 16  | 17  | 18  | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31/32 | 33/34 | 35/36 |  |
|                                                                                           | 热容量 <i>P<sub>G1</sub></i> (kW) / Thermal capacities <i>P<sub>G1</sub></i> in (kW) |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
| 1) <i>P<sub>G1</sub></i> 室内小空间安装<br><i>P<sub>G1</sub></i> for small confined spaces       | 15                                                                                | 20 | 24 | 32 | 36 | 49 | 56  | 69  | 75  | 89    | 106   | 130   | 151   | 182   | 215   | 245   | 275   | 328   |  |
| 2) <i>P<sub>G1</sub></i> 室内大空间安装<br><i>P<sub>G1</sub></i> for large halls, workshops etc. | 22                                                                                | 28 | 34 | 45 | 52 | 69 | 79  | 97  | 106 | 127   | 151   | 185   | 214   | 257   | 305   | 347   | 389   | 464   |  |
| 3) <i>P<sub>G1</sub></i> 室外安装<br><i>P<sub>G1</sub></i> in the open                        | 29                                                                                | 38 | 45 | 60 | 70 | 94 | 107 | 132 | 143 | 171   | 204   | 250   | 289   | 348   | 412   | 469   | 527   | 628   |  |

\*) 表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

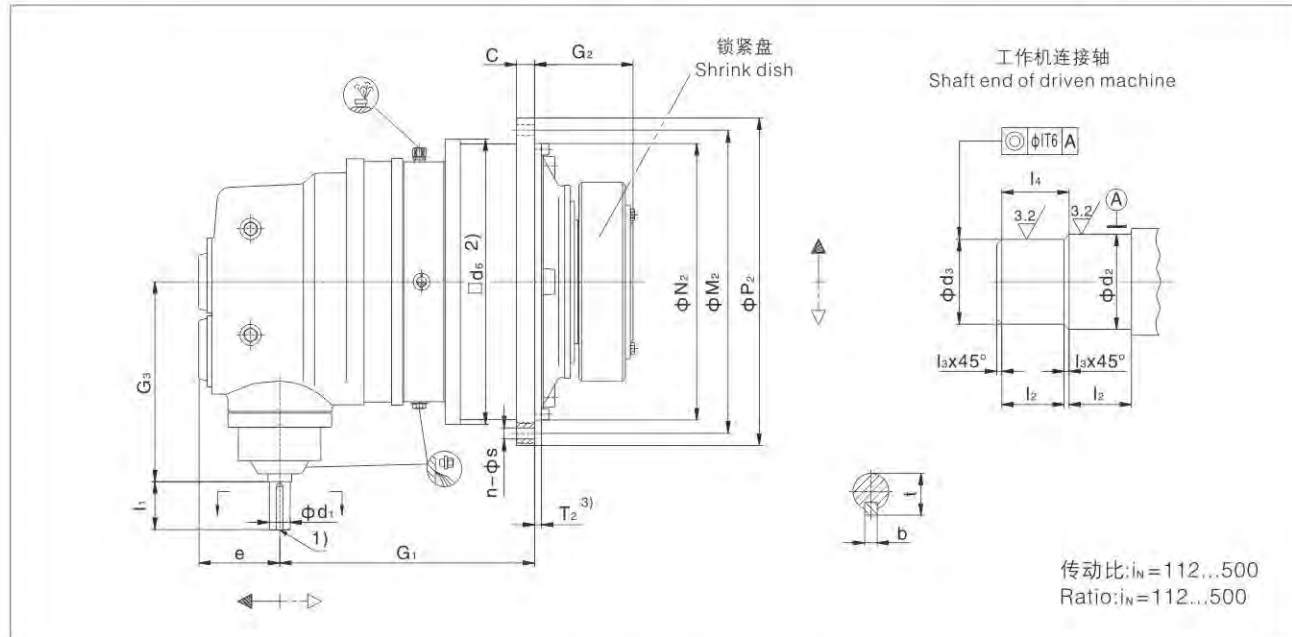
\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) 风速 ≥ 0.5m/s
- 2) 风速 ≥ 1.4m/s
- 3) 风速 ≥ 3.7m/s

- 1) Wind velocity ≥ 0.5m/s
- 2) Wind velocity ≥ 1.4m/s
- 3) Wind velocity ≥ 3.7m/s

外形尺寸和重量  
类型 JRP2KA..

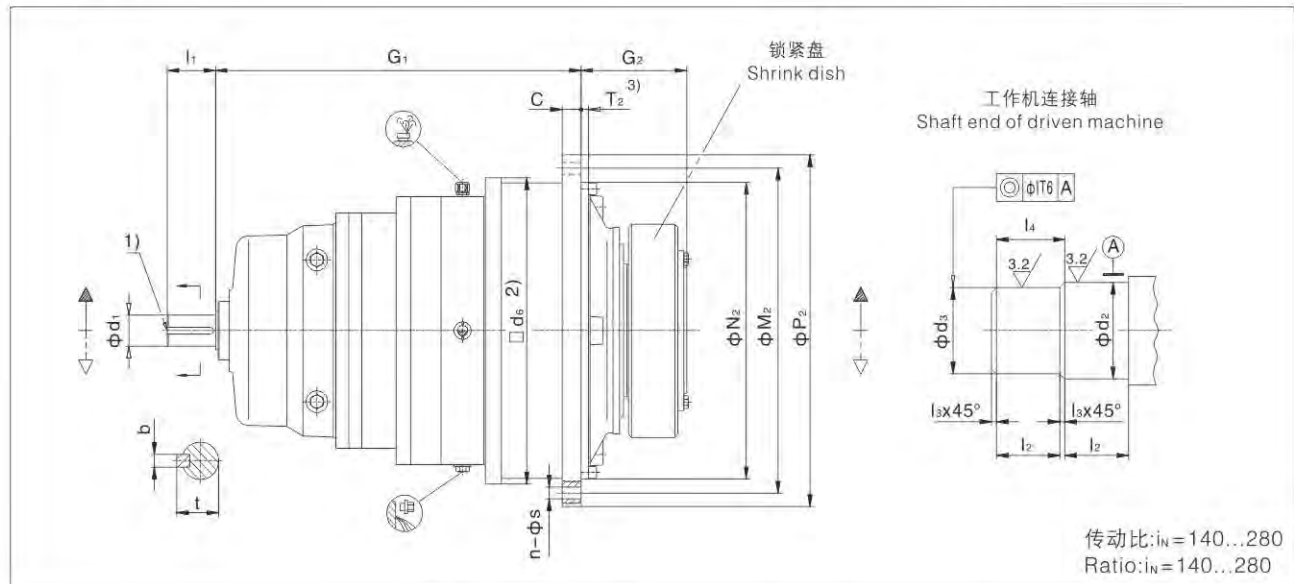
Dimension and Weight  
Type JRP2KA..



| JRP2KA<br>规格<br>Size | 额定输出扭矩<br>Nominal<br>Output Torques<br>$T_{2N}$<br>(Nm) | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |       |     |      |               |       |     |      |       |       |     | $d_2$ | $d_3$ | $l_2$ | $l_3$ | $l_4$ | $P_2$ | $C$ | $M_2$ | $N_2$ | $T_2$        | $G_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |     | 重量<br>Weight<br>(kg)<br>4) |
|----------------------|---------------------------------------------------------|-----------------------------------------|-------|-----|------|---------------|-------|-----|------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|--------------|-------|-------|-----------------------|-----|----------------------------|
|                      |                                                         | $iN \leq 360$                           |       |     |      | $iN \geq 400$ |       |     |      | $G_1$ | $G_3$ | $e$ |       |       |       |       |       |       |     |       |       |              |       |       | $n$                   | $s$ |                            |
|                      |                                                         | $d_1$                                   | $l_1$ | $b$ | $t$  | $d_1$         | $l_1$ | $b$ | $t$  |       |       |     |       |       |       |       |       |       |     |       |       |              |       |       |                       |     |                            |
|                      |                                                         |                                         |       |     |      |               |       |     |      |       |       |     |       |       |       |       |       |       |     |       |       |              |       |       |                       |     |                            |
| 9                    | 22000                                                   | 30m6                                    | 70    | 8   | 33   | 25m6          | 60    | 8   | 28   | 339   | 320   | 119 | 120h6 | 115h6 | 65    | 2.5   | 67.5  | 428   | 24  | 388   | 350h7 | $6 \pm 1.5$  | 165   | 356   | 24                    | 18  | 270                        |
| 10                   | 31000                                                   | 30m6                                    | 70    | 8   | 33   | 25m6          | 60    | 8   | 28   | 359   | 320   | 119 | 130h6 | 125h6 | 70    | 2.5   | 72.5  | 472   | 28  | 436   | 394h7 | $8 \pm 1.5$  | 174   | 400   | 28                    | 18  | 320                        |
| 11                   | 42000                                                   | 35m6                                    | 80    | 10  | 38   | 28m6          | 60    | 8   | 31   | 419   | 375   | 137 | 140h6 | 135h6 | 82.5  | 2.5   | 85    | 525   | 32  | 485   | 425h7 | $8 \pm 1.5$  | 204   | 436   | 20                    | 22  | 390                        |
| 12                   | 60000                                                   | 35m6                                    | 80    | 10  | 38   | 28m6          | 60    | 8   | 31   | 433   | 375   | 137 | 160h6 | 155h6 | 90    | 2.5   | 92.5  | 605   | 34  | 555   | 495h7 | $9 \pm 1.5$  | 224   | 510   | 20                    | 26  | 540                        |
| 13                   | 83000                                                   | 45m6                                    | 100   | 14  | 48.5 | 35m6          | 80    | 10  | 38   | 518.5 | 445   | 172 | 180g6 | 175g6 | 95    | 2.5   | 97.5  | 645   | 39  | 595   | 535h7 | $11 \pm 1.5$ | 241   | 554   | 24                    | 26  | 690                        |
| 14                   | 117000                                                  | 45m6                                    | 100   | 14  | 48.5 | 35m6          | 80    | 10  | 38   | 541.5 | 445   | 172 | 210g6 | 205g6 | 105   | 2.5   | 107.5 | 720   | 42  | 665   | 610h7 | $g$          | 278   | 629   | 32                    | 26  | 950                        |
| 16                   | 160000                                                  | 55m6                                    | 110   | 16  | 59   | 40m6          | 100   | 12  | 43   | 632   | 520   | 194 | 230g6 | 225g6 | 110   | 2.5   | 112.5 | 770   | 44  | 715   | 660h7 | $10$         | 285   | 680   | 36                    | 26  | 1200                       |
| 17                   | 202000                                                  | 55m6                                    | 110   | 16  | 59   | 40m6          | 100   | 12  | 43   | 658   | 520   | 194 | 250g6 | 245g6 | 120   | 2.5   | 122.5 | 895   | 50  | 830   | 750h7 | $10$         | 294   | 775   | 24                    | 33  | 1700                       |
| 18                   | 244000                                                  | 70m6                                    | 135   | 20  | 74.5 | 50m6          | 110   | 14  | 53.5 | 741.5 | 615   | 240 | 260g6 | 255g6 | 120   | 2.5   | 122.5 | 930   | 50  | 865   | 785h7 | $10$         | 303   | 815   | 32                    | 33  | 2010                       |
| 19                   | 295000                                                  | 70m6                                    | 135   | 20  | 74.5 | 50m6          | 110   | 14  | 53.5 | 764.5 | 615   | 240 | 280g6 | 275g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7 | $12$         | 327.5 | 870   | 36                    | 33  | 2470                       |
| 20                   | 354000                                                  | 70m6                                    | 135   | 20  | 74.5 | 50m6          | 110   | 14  | 53.5 | 764.5 | 615   | 240 | 300g6 | 295g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7 | $12$         | 327.5 | 870   | 36                    | 33  | 2550                       |
| 21~26                | 请咨询杰牌<br>Please consult JIE                             |                                         |       |     |      |               |       |     |      |       |       |     |       |       |       |       |       |       |     |       |       |              |       |       |                       |     |                            |

- 1) 轴伸 $d_1$ 中心孔, 见第96页。  
2) 所需安装空间。  
3) 请注意联接螺栓和凸缘。  
4) 不包括锁紧盘和润滑油的重量。

- 1) For shaft end  $d_1$  with centre hole, see page 96  
2) Space required.  
3) Observe bolted connection and boss.  
4) Weight without shrink disc and oil.

外形尺寸和重量  
类型 JRP3NA..Dimension and Weight  
Type JRP3NA..

| JRP3NA...<br>规格<br>Size | 额定输出扭矩<br>Nominal<br>Output Torques<br>$T_{2N}$<br>(Nm) | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |       |        |     |      | $d_2$ | $d_3$ | $l_2$ | $l_3$ | $l_4$ | $P_2$ | $C$ | $M_2$ | $N_2$  | $T_2$        | $G_2$ | $d_6$ | 法兰孔尺寸<br>Flange bolts |     | 重量<br>Weight<br>(kg)<br>4) |
|-------------------------|---------------------------------------------------------|-----------------------------------------|-------|--------|-----|------|-------|-------|-------|-------|-------|-------|-----|-------|--------|--------------|-------|-------|-----------------------|-----|----------------------------|
|                         |                                                         | $d_1$                                   | $l_1$ | $G_1$  | $b$ | $t$  |       |       |       |       |       |       |     |       |        |              |       |       | $n$                   | $s$ |                            |
|                         |                                                         |                                         |       |        |     |      |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |
| 9                       | 22000                                                   | 55m6                                    | 90    | 565    | 16  | 59   | 120h6 | 115h6 | 65    | 2.5   | 67.5  | 428   | 24  | 388   | 350h7  | $6 \pm 1.5$  | 165   | 356   | 24                    | 18  | 250                        |
| 10                      | 31000                                                   | 55m6                                    | 90    | 585    | 16  | 59   | 130h6 | 125h6 | 70    | 2.5   | 72.5  | 472   | 28  | 436   | 394h7  | $8 \pm 1.5$  | 174   | 400   | 28                    | 18  | 300                        |
| 11                      | 42000                                                   | 55m6                                    | 90    | 616    | 16  | 59   | 140h6 | 135h6 | 82.5  | 2.5   | 85    | 525   | 32  | 485   | 425h7  | $8 \pm 1.5$  | 204   | 436   | 20                    | 22  | 370                        |
| 12                      | 60000                                                   | 55m6                                    | 90    | 630    | 16  | 59   | 160h6 | 155h6 | 90    | 2.5   | 92.5  | 605   | 34  | 555   | 495h7  | $9 \pm 1.5$  | 224   | 510   | 20                    | 26  | 500                        |
| 13                      | 83000                                                   | 55m6                                    | 90    | 688    | 16  | 59   | 180g6 | 175g6 | 95    | 2.5   | 97.5  | 645   | 39  | 595   | 535h7  | $11 \pm 1.5$ | 241   | 554   | 24                    | 26  | 620                        |
| 14                      | 117000                                                  | 55m6                                    | 90    | 711    | 16  | 59   | 210g6 | 205g6 | 105   | 2.5   | 107.5 | 720   | 42  | 665   | 610h7  | 9            | 278   | 629   | 32                    | 26  | 880                        |
| 16                      | 160000                                                  | 70m6                                    | 120   | 853    | 20  | 74.5 | 230g6 | 225g6 | 110   | 2.5   | 112.5 | 770   | 44  | 715   | 660h7  | 10           | 285   | 680   | 36                    | 26  | 1100                       |
| 17                      | 202000                                                  | 70m6                                    | 120   | 879    | 20  | 74.5 | 250g6 | 245g6 | 120   | 2.5   | 122.5 | 895   | 50  | 830   | 750h7  | 10           | 294   | 775   | 24                    | 33  | 1580                       |
| 18                      | 244000                                                  | 80m6                                    | 140   | 1013.5 | 22  | 85   | 260g6 | 255g6 | 120   | 2.5   | 122.5 | 930   | 50  | 865   | 785h7  | 10           | 303   | 815   | 32                    | 33  | 2000                       |
| 19                      | 295000                                                  | 80m6                                    | 140   | 1036.5 | 22  | 85   | 280g6 | 275g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2100                       |
| 20                      | 354000                                                  | 80m6                                    | 140   | 1036.5 | 22  | 85   | 300g6 | 295g6 | 135   | 2.5   | 137.5 | 980   | 56  | 915   | 840h7  | 12           | 327.5 | 870   | 36                    | 33  | 2200                       |
| 21                      | 392000                                                  | 80m6                                    | 140   | 1093   | 22  | 85   | 310g6 | 305g6 | 152   | 2.5   | 154.5 | 1115  | 62  | 1025  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 2785                       |
| 22                      | 450000                                                  | 80m6                                    | 140   | 1093   | 22  | 85   | 330g6 | 325g6 | 152   | 2.5   | 154.5 | 1115  | 62  | 1025  | 935h7  | 24           | 354   | 960   | 32                    | 39  | 2950                       |
| 23                      | 513000                                                  | 95m6                                    | 160   | 1222   | 25  | 100  | 350g6 | 345g6 | 164   | 2.5   | 166.5 | 1210  | 68  | 1120  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 3625                       |
| 24                      | 592000                                                  | 95m6                                    | 160   | 1222   | 25  | 100  | 360g6 | 355g6 | 164   | 2.5   | 166.5 | 1210  | 68  | 1120  | 1025h7 | 28           | 380   | 1056  | 36                    | 39  | 4100                       |
| 25                      | 684000                                                  | 95m6                                    | 160   | 1284.5 | 25  | 100  | 380g6 | 375g6 | 180   | 2.5   | 182.5 | 1320  | 74  | 1220  | 1115h7 | 29           | 407   | 1150  | 36                    | 45  | 5000                       |
| 26                      | 763000                                                  | 95m6                                    | 160   | 1284.5 | 25  | 100  | 400g6 | 395g6 | 180   | 2.5   | 182.5 | 1320  | 74  | 1220  | 1115h7 | 29           | 407   | 1150  | 36                    | 45  | 5400                       |
| 27                      | 852000                                                  | 110n6                                   | 180   | 1470   | 28  | 116  | 430g6 | 425g6 | 191   | 2.5   | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1248  | 32                    | 52  | 6400                       |
| 28                      | 950000                                                  | 110n6                                   | 180   | 1470   | 28  | 116  | 450g6 | 445g6 | 191   | 2.5   | 193.5 | 1460  | 81  | 1345  | 1215h7 | 31           | 453   | 1248  | 32                    | 52  | 6875                       |
| 29                      | 1060000                                                 | 110n6                                   | 180   | 1516.5 | 28  | 116  | 460g6 | 450g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 8190                       |
| 30                      | 1200000                                                 | 110n6                                   | 180   | 1516.5 | 28  | 116  | 480g6 | 470g6 | 197.5 | 5     | 202.5 | 1565  | 87  | 1450  | 1320h7 | 34           | 483   | 1355  | 36                    | 52  | 8715                       |
| 31                      | 1330000                                                 | 120n6                                   | 210   | 1585   | 32  | 127  | 480g6 | 470g6 | 232   | 5     | 237   | 1665  | 94  | 1545  | 1400h7 | 36           | 538   | 1443  | 32                    | 62  | 10700                      |
| 32                      | 1500000                                                 | 120n6                                   | 210   | 1585   | 32  | 127  | 510g6 | 500g6 | 232   | 5     | 237   | 1665  | 94  | 1545  | 1400h7 | 36           | 538   | 1443  | 32                    | 62  | 11200                      |
| 33                      | 1680000                                                 | 130n6                                   | 210   | 1710   | 32  | 137  | 530g6 | 520g6 | 242   | 5     | 247   | 1755  | 100 | 1635  | 1495h7 | 36           | 573   | 1536  | 36                    | 62  | 12950                      |
| 34                      | 1920000                                                 | 130n6                                   | 210   | 1710   | 32  | 137  | 570g6 | 560g6 | 242   | 5     | 247   | 1755  | 100 | 1635  | 1495h7 | 36           | 573   | 1536  | 36                    | 62  | 13800                      |
| 35+36                   | 请咨询杰牌<br>Please consult JIE                             |                                         |       |        |     |      |       |       |       |       |       |       |     |       |        |              |       |       |                       |     |                            |

- 1) 轴伸 $d_1$ 中心孔, 见第96页。
- 2) 所需安装空间。
- 3) 请注意联接螺栓和凸缘。
- 4) 不包括锁紧盘和润滑油的重量。

- 1) For shaft end  $d_1$  with centre hole, see page 96
- 2) Space required.
- 3) Observe bolted connection and boss.
- 4) Weight without shrink disc and oil.



传动比, 转速, 功率  
类型 JRP2K..

Ratio, Speed, Power Rating  
Type JRP2K..



| 传动比 <i>i<sub>N</sub></i> , 转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> , 额定功率 <i>P<sub>N</sub></i> / Ratio <i>i<sub>N</sub></i> , speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> , nominal power ratings <i>P<sub>N</sub></i> |                      |                      |                                                                                     |      |      |    |     |     |     |     |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|------|------|----|-----|-----|-----|-----|-----|-----|-----|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                                   | <i>n<sub>1</sub></i> | <i>n<sub>2</sub></i> | 齿轮箱规格 / Gear unit sizes                                                             |      |      |    |     |     |     |     |     |     |     |
|                                                                                                                                                                                                                                        |                      |                      | 9                                                                                   | 10   | 11   | 12 | 13  | 14  | 16  | 17  | 18  | 19  | 20  |
|                                                                                                                                                                                                                                        |                      |                      | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |      |      |    |     |     |     |     |     |     |     |
| 112                                                                                                                                                                                                                                    | 1500                 | 13.4                 | 30.9                                                                                | 43.6 | 59.0 | 84 | 117 | 164 | 225 | 284 | 343 | 415 | 498 |
|                                                                                                                                                                                                                                        | 1000                 | 8.9                  | 20.6                                                                                | 29.0 | 39.4 | 56 | 78  | 110 | 150 | 189 | 229 | 276 | 332 |
|                                                                                                                                                                                                                                        | 750                  | 6.7                  | 15.5                                                                                | 21.8 | 29.5 | 42 | 58  | 82  | 112 | 142 | 171 | 207 | 249 |
| 125                                                                                                                                                                                                                                    | 1500                 | 12.0                 | 27.7                                                                                | 39.0 | 52.9 | 76 | 105 | 147 | 201 | 254 | 307 | 372 | 446 |
|                                                                                                                                                                                                                                        | 1000                 | 8.0                  | 18.5                                                                                | 26.0 | 35.3 | 50 | 70  | 98  | 134 | 170 | 205 | 248 | 297 |
|                                                                                                                                                                                                                                        | 750                  | 6.0                  | 13.9                                                                                | 19.5 | 26.4 | 38 | 52  | 74  | 101 | 127 | 154 | 186 | 223 |
| 140                                                                                                                                                                                                                                    | 1500                 | 10.7                 | 24.7                                                                                | 34.9 | 47.2 | 67 | 93  | 132 | 180 | 227 | 274 | 332 | 398 |
|                                                                                                                                                                                                                                        | 1000                 | 7.1                  | 16.5                                                                                | 23.2 | 31.5 | 45 | 62  | 88  | 120 | 151 | 183 | 221 | 265 |
|                                                                                                                                                                                                                                        | 750                  | 5.4                  | 12.4                                                                                | 17.4 | 23.6 | 34 | 47  | 66  | 90  | 114 | 137 | 166 | 199 |
| 160                                                                                                                                                                                                                                    | 1500                 | 9.4                  | 21.6                                                                                | 30.5 | 41.3 | 59 | 82  | 115 | 157 | 199 | 240 | 290 | 348 |
|                                                                                                                                                                                                                                        | 1000                 | 6.3                  | 14.4                                                                                | 20.3 | 27.5 | 39 | 54  | 77  | 105 | 132 | 160 | 193 | 232 |
|                                                                                                                                                                                                                                        | 750                  | 4.7                  | 10.8                                                                                | 15.3 | 20.7 | 30 | 41  | 58  | 79  | 99  | 120 | 145 | 174 |
| 180                                                                                                                                                                                                                                    | 1500                 | 8.3                  | 19.2                                                                                | 27.1 | 36.7 | 52 | 73  | 102 | 140 | 177 | 213 | 258 | 310 |
|                                                                                                                                                                                                                                        | 1000                 | 5.6                  | 12.8                                                                                | 18.1 | 24.5 | 35 | 48  | 68  | 93  | 118 | 142 | 172 | 206 |
|                                                                                                                                                                                                                                        | 750                  | 4.2                  | 9.6                                                                                 | 13.6 | 18.4 | 26 | 36  | 51  | 70  | 88  | 107 | 129 | 155 |
| 200                                                                                                                                                                                                                                    | 1500                 | 7.5                  | 17.3                                                                                | 24.4 | 33.1 | 47 | 65  | 92  | 126 | 159 | 192 | 232 | 279 |
|                                                                                                                                                                                                                                        | 1000                 | 5.0                  | 11.5                                                                                | 16.3 | 22.0 | 31 | 44  | 61  | 84  | 106 | 128 | 155 | 186 |
|                                                                                                                                                                                                                                        | 750                  | 3.8                  | 8.7                                                                                 | 12.2 | 16.5 | 24 | 33  | 46  | 63  | 79  | 96  | 116 | 139 |
| 225                                                                                                                                                                                                                                    | 1500                 | 6.7                  | 15.4                                                                                | 21.7 | 29.4 | 42 | 58  | 82  | 112 | 141 | 171 | 206 | 248 |
|                                                                                                                                                                                                                                        | 1000                 | 4.4                  | 10.3                                                                                | 14.5 | 19.6 | 28 | 39  | 55  | 75  | 94  | 114 | 138 | 165 |
|                                                                                                                                                                                                                                        | 750                  | 3.3                  | 7.7                                                                                 | 10.8 | 14.7 | 21 | 29  | 41  | 56  | 71  | 85  | 103 | 124 |
| 250                                                                                                                                                                                                                                    | 1500                 | 6.0                  | 13.9                                                                                | 19.5 | 26.4 | 38 | 52  | 74  | 101 | 127 | 154 | 186 | 223 |
|                                                                                                                                                                                                                                        | 1000                 | 4.0                  | 9.2                                                                                 | 13.0 | 17.6 | 25 | 35  | 49  | 67  | 85  | 102 | 124 | 149 |
|                                                                                                                                                                                                                                        | 750                  | 3.0                  | 6.9                                                                                 | 9.8  | 13.2 | 19 | 26  | 37  | 50  | 64  | 77  | 93  | 111 |
| 280                                                                                                                                                                                                                                    | 1500                 | 5.4                  | 12.4                                                                                | 17.4 | 23.6 | 34 | 47  | 66  | 90  | 114 | 137 | 166 | 199 |
|                                                                                                                                                                                                                                        | 1000                 | 3.6                  | 8.2                                                                                 | 11.6 | 15.7 | 22 | 31  | 44  | 60  | 76  | 91  | 111 | 133 |
|                                                                                                                                                                                                                                        | 750                  | 2.7                  | 6.2                                                                                 | 8.7  | 11.8 | 17 | 23  | 33  | 45  | 57  | 69  | 83  | 100 |
| 320                                                                                                                                                                                                                                    | 1500                 | 4.7                  | 10.8                                                                                | 15.3 | 20.7 | 30 | 41  | 58  | 79  | 99  | 120 | 145 | 174 |
|                                                                                                                                                                                                                                        | 1000                 | 3.1                  | 7.2                                                                                 | 10.2 | 13.8 | 20 | 27  | 38  | 52  | 66  | 80  | 97  | 116 |
|                                                                                                                                                                                                                                        | 750                  | 2.3                  | 5.4                                                                                 | 7.6  | 10.3 | 15 | 20  | 29  | 39  | 50  | 60  | 73  | 87  |
| 360                                                                                                                                                                                                                                    | 1500                 | 4.2                  | 9.6                                                                                 | 13.6 | 18.4 | 26 | 36  | 51  | 70  | 88  | 107 | 129 | 155 |
|                                                                                                                                                                                                                                        | 1000                 | 2.8                  | 6.4                                                                                 | 9.0  | 12.2 | 17 | 24  | 34  | 47  | 59  | 71  | 86  | 103 |
|                                                                                                                                                                                                                                        | 750                  | 2.1                  | 4.8                                                                                 | 6.8  | 9.2  | 13 | 18  | 26  | 35  | 44  | 53  | 64  | 77  |
| 400                                                                                                                                                                                                                                    | 1500                 | 3.8                  | 8.7                                                                                 | 12.2 | 16.5 | 24 | 33  | 46  | 63  | 79  | 96  | 116 | 139 |
|                                                                                                                                                                                                                                        | 1000                 | 2.5                  | 5.8                                                                                 | 8.1  | 11.0 | 16 | 22  | 31  | 42  | 53  | 64  | 77  | 93  |
|                                                                                                                                                                                                                                        | 750                  | 1.9                  | 4.3                                                                                 | 6.1  | 8.3  | 12 | 16  | 23  | 31  | 40  | 48  | 58  | 70  |
| 450                                                                                                                                                                                                                                    | 1500                 | 3.3                  | 7.7                                                                                 | 10.8 | 14.7 | 21 | 29  | 41  | 56  | 71  | 85  | 103 | 124 |
|                                                                                                                                                                                                                                        | 1000                 | 2.2                  | 5.1                                                                                 | 7.2  | 9.8  | 14 | 19  | 27  | 37  | 47  | 57  | 69  | 83  |
|                                                                                                                                                                                                                                        | 750                  | 1.7                  | 3.8                                                                                 | 5.4  | 7.3  | 10 | 15  | 20  | 28  | 35  | 43  | 52  | 62  |
| 500                                                                                                                                                                                                                                    | 1500                 | 3.0                  | 6.9                                                                                 | 9.8  | 13.2 | 19 | 26  | 37  | 50  | 64  | 77  | 93  | 111 |
|                                                                                                                                                                                                                                        | 1000                 | 2.0                  | 4.6                                                                                 | 6.5  | 8.8  | 13 | 17  | 25  | 34  | 42  | 51  | 62  | 74  |
|                                                                                                                                                                                                                                        | 750                  | 1.5                  | 3.5                                                                                 | 4.9  | 6.6  | 9  | 13  | 18  | 25  | 32  | 38  | 46  | 56  |
| 560                                                                                                                                                                                                                                    | 请咨询杰牌                |                      |                                                                                     |      |      |    |     |     |     |     |     |     |     |

| 热容量 <i>P<sub>G1</sub></i> (kW) / Thermal capacities <i>P<sub>G1</sub></i> in (kW) *       |                                                                                   |    |    |    |    |    |    |     |     |       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|-----|-----|-------|
|                                                                                           | 齿轮箱规格 / Gear unit sizes                                                           |    |    |    |    |    |    |     |     |       |
|                                                                                           | 9                                                                                 | 10 | 11 | 12 | 13 | 14 | 16 | 17  | 18  | 19/20 |
|                                                                                           | 热容量 <i>P<sub>G1</sub></i> (kW) / Thermal capacities <i>P<sub>G1</sub></i> in (kW) |    |    |    |    |    |    |     |     |       |
| 1) <i>P<sub>G1</sub></i> 室内小空间安装<br><i>P<sub>G1</sub></i> for small confined spaces       | 12                                                                                | 15 | 18 | 24 | 28 | 38 | 44 | 53  | 58  | 69    |
| 2) <i>P<sub>G1</sub></i> 室内大空间安装<br><i>P<sub>G1</sub></i> for large halls, workshops etc. | 17                                                                                | 22 | 26 | 35 | 40 | 54 | 62 | 76  | 82  | 98    |
| 3) <i>P<sub>G1</sub></i> 室外安装<br><i>P<sub>G1</sub></i> in the open                        | 23                                                                                | 29 | 35 | 47 | 54 | 73 | 83 | 102 | 111 | 133   |

\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) 风速 ≥ 0.5m/s
- 2) 风速 ≥ 1.4m/s
- 3) 风速 ≥ 3.7m/s

- 1) Wind velocity ≥ 0.5m/s
- 2) Wind velocity ≥ 1.4m/s
- 3) Wind velocity ≥ 3.7m/s

传动比, 转速, 功率  
类型 JRP3N..

Ratio, Speed, Power Rating  
Type JRP3N..



| 传动比 <i>i<sub>N</sub></i> , 转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> , 额定功率 <i>P<sub>N</sub></i> / Ratio <i>i<sub>N</sub></i> , speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> , nominal power ratings <i>P<sub>N</sub></i> |                      |                      |                                                                                     |      |      |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |   |   |   |   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|------|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|---|---|---|---|--|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                                   | <i>n<sub>1</sub></i> | <i>n<sub>2</sub></i> | 齿轮箱规格 / Gear unit sizes                                                             |      |      |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |   |   |   |   |  |
|                                                                                                                                                                                                                                        |                      |                      | 9                                                                                   | 10   | 11   | 12 | 13 | 14  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32   | 33   | 34   | 35   | 36   |   |   |   |   |  |
|                                                                                                                                                                                                                                        |                      |                      | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |      |      |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |   |   |   |   |  |
| 140                                                                                                                                                                                                                                    | 1500                 | 10.7                 | 24.8                                                                                | 34.9 | 47.3 | 68 | 94 | 132 | 180 | 228 | 275 | 332 | 399 | 442 | 507 | 578 | 667 | 711 | 860 | —   | —   | —   | —   | —   | —    | —    | —    | —    | —    | — | — | — | — |  |
|                                                                                                                                                                                                                                        | 1000                 | 7.1                  | 16.5                                                                                | 23.3 | 31.5 | 45 | 62 | 88  | 120 | 152 | 183 | 222 | 266 | 294 | 338 | 385 | 445 | 514 | 573 | 640 | 714 | 796 | 901 | 999 | 1127 | 1262 | 1442 | 1682 | 1953 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 5.4                  | 12.4                                                                                | 17.5 | 23.7 | 34 | 47 | 66  | 90  | 114 | 137 | 166 | 199 | 221 | 253 | 289 | 333 | 385 | 430 | 480 | 535 | 597 | 676 | 749 | 845  | 946  | 1082 | 1262 | 1465 | — | — |   |   |  |
| 160                                                                                                                                                                                                                                    | 1500                 | 9.4                  | 21.7                                                                                | 30.6 | 41.4 | 59 | 82 | 115 | 158 | 199 | 241 | 291 | 349 | 386 | 444 | 506 | 584 | 674 | 752 | —   | —   | —   | —   | —   | —    | —    | —    | —    | —    | — | — | — |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 6.3                  | 14.5                                                                                | 20.4 | 27.6 | 39 | 55 | 77  | 105 | 133 | 160 | 194 | 233 | 258 | 296 | 337 | 389 | 450 | 501 | 560 | 624 | 697 | 789 | 874 | 986  | 1104 | 1262 | 1472 | 1709 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 4.7                  | 10.8                                                                                | 15.3 | 20.7 | 30 | 41 | 58  | 79  | 100 | 120 | 145 | 174 | 193 | 222 | 253 | 292 | 337 | 376 | 420 | 468 | 522 | 591 | 656 | 739  | 828  | 946  | 1104 | 1281 | — | — |   |   |  |
| 180                                                                                                                                                                                                                                    | 1500                 | 8.3                  | 19.3                                                                                | 27.2 | 36.8 | 53 | 73 | 103 | 140 | 177 | 214 | 258 | 310 | 343 | 394 | 450 | 519 | 599 | 669 | —   | —   | —   | —   | —   | —    | —    | —    | —    | —    | — | — | — |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 5.6                  | 12.9                                                                                | 18.1 | 24.5 | 35 | 48 | 68  | 93  | 118 | 143 | 172 | 207 | 229 | 263 | 300 | 346 | 400 | 446 | 498 | 555 | 619 | 701 | 777 | 876  | 981  | 1122 | 1309 | 1519 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 4.2                  | 9.6                                                                                 | 13.6 | 18.4 | 26 | 36 | 51  | 70  | 88  | 107 | 129 | 155 | 172 | 197 | 225 | 259 | 300 | 334 | 373 | 416 | 464 | 526 | 583 | 657  | 736  | 841  | 981  | 1139 | — | — |   |   |  |
| 200                                                                                                                                                                                                                                    | 1500                 | 7.5                  | 17.3                                                                                | 24.4 | 33.1 | 47 | 65 | 92  | 126 | 159 | 192 | 233 | 279 | 309 | 355 | 405 | 467 | 539 | 602 | —   | —   | —   | —   | —   | —    | —    | —    | —    | —    | — | — | — |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 5.0                  | 11.6                                                                                | 16.3 | 22.1 | 32 | 44 | 62  | 84  | 106 | 128 | 155 | 186 | 206 | 237 | 270 | 311 | 360 | 401 | 448 | 499 | 557 | 631 | 699 | 789  | 883  | 1009 | 1178 | 1367 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 3.8                  | 8.7                                                                                 | 12.2 | 16.6 | 24 | 33 | 46  | 63  | 80  | 96  | 116 | 140 | 155 | 177 | 202 | 233 | 270 | 301 | 336 | 375 | 418 | 473 | 524 | 591  | 662  | 757  | 883  | 1025 | — | — |   |   |  |
| 225                                                                                                                                                                                                                                    | 1500                 | 6.7                  | 15.4                                                                                | 21.7 | 29.4 | 42 | 58 | 82  | 112 | 142 | 171 | 207 | 248 | 275 | 315 | 360 | 415 | 479 | 535 | 597 | 666 | 743 | 841 | 932 | 1051 | 1178 | 1346 | 1570 | 1823 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 4.4                  | 10.3                                                                                | 14.5 | 19.6 | 28 | 39 | 55  | 75  | 94  | 114 | 138 | 165 | 183 | 210 | 240 | 277 | 320 | 357 | 398 | 444 | 495 | 561 | 622 | 701  | 785  | 897  | 1047 | 1215 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 3.3                  | 7.7                                                                                 | 10.9 | 14.7 | 21 | 29 | 41  | 56  | 71  | 86  | 103 | 124 | 137 | 158 | 180 | 207 | 240 | 267 | 299 | 333 | 372 | 421 | 466 | 526  | 589  | 673  | 785  | 911  | — | — |   |   |  |
| 250                                                                                                                                                                                                                                    | 1500                 | 6.0                  | 13.9                                                                                | 19.6 | 26.5 | 38 | 52 | 74  | 101 | 127 | 154 | 186 | 223 | 247 | 284 | 324 | 373 | 432 | 481 | 538 | 599 | 669 | 757 | 839 | 946  | 1060 | 1211 | 1413 | 1640 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 4.0                  | 9.3                                                                                 | 13.0 | 17.7 | 25 | 35 | 49  | 67  | 85  | 103 | 124 | 149 | 165 | 189 | 216 | 249 | 288 | 321 | 358 | 400 | 446 | 505 | 559 | 631  | 707  | 808  | 942  | 1094 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 3.0                  | 6.9                                                                                 | 9.8  | 13.2 | 19 | 26 | 37  | 50  | 64  | 77  | 93  | 112 | 124 | 142 | 162 | 187 | 216 | 241 | 269 | 300 | 334 | 379 | 420 | 473  | 530  | 606  | 707  | 820  | — | — |   |   |  |
| 280                                                                                                                                                                                                                                    | 1500                 | 5.4                  | 12.4                                                                                | 17.5 | 23.7 | 34 | 47 | 66  | 90  | 114 | 137 | 166 | 199 | 221 | 253 | 289 | 333 | 385 | 430 | 480 | 535 | 597 | 676 | 749 | 845  | 946  | 1082 | 1262 | 1465 | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 1000                 | 3.6                  | 8.3                                                                                 | 11.6 | 15.8 | 23 | 31 | 44  | 60  | 76  | 92  | 111 | 133 | 147 | 169 | 193 | 222 | 257 | 287 | 320 | 357 | 398 | 451 | 499 | 563  | 631  | 721  | 841  | 976  | — | — |   |   |  |
|                                                                                                                                                                                                                                        | 750                  | 2.7                  | 6.2                                                                                 | 8.7  | 11.8 | 17 | 23 | 33  | 45  | 57  | 69  | 83  | 100 | 110 | 127 | 144 | 167 | 193 | 215 | 240 | 268 | 299 | 338 | 375 | 422  | 473  | 541  | 631  | 732  | — | — |   |   |  |

— = 请咨询杰牌

— = On request

| 热容量 P <sub>G1</sub> (kW)/ Thermal capacities P <sub>G1</sub> in (kW) *)       |                                                                     |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|----|----|----|----|----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                                               | 齿轮箱规格 / Gear unit sizes                                             |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
|                                                                               | 9                                                                   | 10 | 11 | 12 | 13 | 14 | 16  | 17  | 18  | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31/32 | 33/34 | 35/36 |  |
|                                                                               | 热容量 P <sub>G1</sub> (kW)/ Thermal capacities P <sub>G1</sub> in(kW) |    |    |    |    |    |     |     |     |       |       |       |       |       |       |       |       |       |  |
| 1) P <sub>G1</sub> 室内小空间安装<br>P <sub>G1</sub> for small confined spaces       | 14                                                                  | 18 | 22 | 29 | 34 | 46 | 52  | 64  | 70  | 83    | 99    | 121   | 141   | 169   | 200   | 228   | 256   | 305   |  |
| 2) P <sub>G1</sub> 室内大空间安装<br>P <sub>G1</sub> for large halls, workshops etc. | 20                                                                  | 26 | 31 | 41 | 48 | 64 | 74  | 91  | 99  | 118   | 140   | 172   | 199   | 240   | 284   | 323   | 362   | 432   |  |
| 3) P <sub>G1</sub> 室外安装<br>P <sub>G1</sub> in the open                        | 28                                                                  | 35 | 42 | 56 | 65 | 87 | 100 | 123 | 133 | 159   | 190   | 233   | 269   | 324   | 384   | 437   | 490   | 585   |  |

\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

- 1) 风速  $\geq 0.5\text{m/s}$
- 2) 风速  $\geq 1.4\text{m/s}$
- 3) 风速  $\geq 3.7\text{m/s}$

\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) Wind velocity  $\geq 0.5\text{m/s}$
- 2) Wind velocity  $\geq 1.4\text{m/s}$
- 3) Wind velocity  $\geq 3.7\text{m/s}$

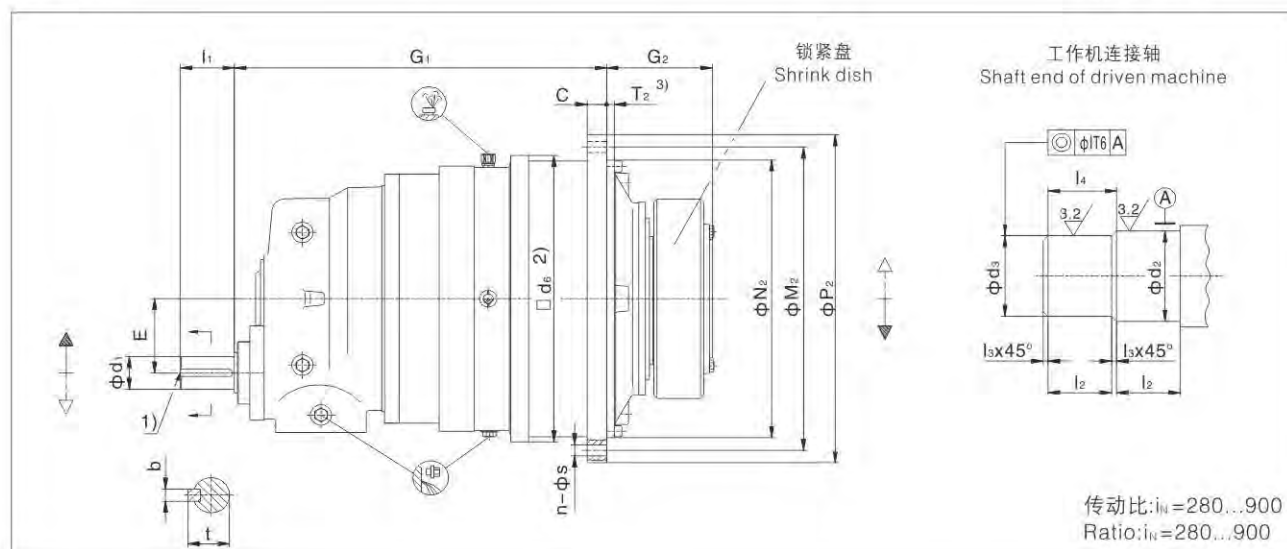


### 外形尺寸和重量

类型 JRP3SA..

### Dimension and Weight

Type JRP3SA..



| JRP3SA | 额定输出扭矩<br>Nominal       | 输入轴尺寸(mm)<br>Input shaft Dimension (mm) |                |                |    |      |     | d <sub>2</sub> | d <sub>3</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | P <sub>2</sub> | C   | M <sub>2</sub> | N <sub>2</sub> | T <sub>2</sub> | G <sub>2</sub> | d <sub>u</sub> | 法兰孔尺寸<br>Flange bolts |    | 重量<br>Weight<br>(kg)<br>4) |
|--------|-------------------------|-----------------------------------------|----------------|----------------|----|------|-----|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|-----------------------|----|----------------------------|
| 规格     | Output Torques          | d <sub>1</sub>                          | l <sub>1</sub> | G <sub>1</sub> | b  | t    | E   |                |                |                |                |                |                |     |                |                |                |                |                | n                     | s  |                            |
| Size   | T <sub>2N</sub><br>(Nm) |                                         |                |                |    |      |     |                |                |                |                |                |                |     |                |                |                |                |                |                       |    |                            |
| 9      | 22000                   | 38m6                                    | 60             | 565            | 10 | 41   | 90  | 120h6          | 115h6          | 65             | 2.5            | 67.5           | 428            | 24  | 388            | 350h7          | 6±1.5          | 165            | 356            | 24                    | 18 | 270                        |
| 10     | 31000                   | 38m6                                    | 60             | 585            | 10 | 41   | 90  | 130h6          | 125h6          | 70             | 2.5            | 72.5           | 472            | 28  | 436            | 394h7          | 8±1.5          | 174            | 400            | 28                    | 18 | 320                        |
| 11     | 42000                   | 38m6                                    | 60             | 616            | 10 | 41   | 90  | 140h6          | 135h6          | 82.5           | 2.5            | 85             | 525            | 32  | 485            | 425h7          | 8±1.5          | 204            | 436            | 20                    | 22 | 390                        |
| 12     | 60000                   | 38m6                                    | 60             | 630            | 10 | 41   | 90  | 160h6          | 155h6          | 90             | 2.5            | 92.5           | 605            | 34  | 555            | 495h7          | 9±1.5          | 224            | 510            | 20                    | 26 | 540                        |
| 13     | 83000                   | 38m6                                    | 60             | 688            | 10 | 41   | 90  | 180g6          | 175g6          | 95             | 2.5            | 97.5           | 645            | 39  | 595            | 535h7          | 11±1.5         | 241            | 554            | 24                    | 26 | 670                        |
| 14     | 117000                  | 38m6                                    | 60             | 711            | 10 | 41   | 90  | 210g6          | 205g6          | 105            | 2.5            | 107.5          | 720            | 42  | 665            | 610h7          | 9              | 278            | 629            | 32                    | 26 | 930                        |
| 16     | 160000                  | 55m6                                    | 90             | 853            | 16 | 59   | 115 | 230g6          | 225g6          | 110            | 2.5            | 112.5          | 770            | 44  | 715            | 660h7          | 10             | 285            | 680            | 36                    | 26 | 1115                       |
| 17     | 202000                  | 55m6                                    | 90             | 879            | 16 | 59   | 115 | 250g6          | 245g6          | 120            | 2.5            | 122.5          | 895            | 50  | 830            | 750h7          | 10             | 294            | 775            | 24                    | 33 | 1625                       |
| 18     | 244000                  | 70m6                                    | 120            | 1013.5         | 20 | 74.5 | 140 | 260g6          | 255g6          | 120            | 2.5            | 122.5          | 930            | 50  | 865            | 785h7          | 10             | 303            | 815            | 32                    | 33 | 2060                       |
| 19     | 295000                  | 70m6                                    | 120            | 1036.5         | 20 | 74.5 | 140 | 280g6          | 275g6          | 135            | 2.5            | 137.5          | 980            | 56  | 915            | 840h7          | 12             | 327.5          | 870            | 36                    | 33 | 2160                       |
| 20     | 354000                  | 70m6                                    | 120            | 1036.5         | 20 | 74.5 | 140 | 300g6          | 295g6          | 135            | 2.5            | 137.5          | 980            | 56  | 915            | 840h7          | 12             | 327.5          | 870            | 36                    | 33 | 2260                       |
| 21     | 392000                  | 70m6                                    | 120            | 1093           | 20 | 74.5 | 140 | 310g6          | 305g6          | 152            | 2.5            | 154.5          | 1115           | 62  | 1025           | 935h7          | 24             | 354            | 960            | 32                    | 39 | 2870                       |
| 22     | 450000                  | 70m6                                    | 120            | 1093           | 20 | 74.5 | 140 | 330g6          | 325g6          | 152            | 2.5            | 154.5          | 1115           | 62  | 1025           | 935h7          | 24             | 354            | 960            | 32                    | 39 | 3040                       |
| 23     | 513000                  | 80m6                                    | 140            | 1222           | 22 | 85   | 170 | 350g6          | 345g6          | 164            | 2.5            | 166.5          | 1210           | 68  | 1120           | 1025h7         | 28             | 380            | 1056           | 36                    | 39 | 3730                       |
| 24     | 592000                  | 80m6                                    | 140            | 1222           | 22 | 85   | 170 | 360g6          | 355g6          | 164            | 2.5            | 166.5          | 1210           | 68  | 1120           | 1025h7         | 28             | 380            | 1056           | 36                    | 39 | 4220                       |
| 25     | 684000                  | 80m6                                    | 140            | 1284           | 22 | 85   | 170 | 380g6          | 375g6          | 180            | 2.5            | 182.5          | 1320           | 74  | 1220           | 1115h7         | 29             | 407            | 1150           | 36                    | 45 | 5150                       |
| 26     | 763000                  | 80m6                                    | 140            | 1284           | 22 | 85   | 170 | 400g6          | 395g6          | 180            | 2.5            | 182.5          | 1320           | 74  | 1220           | 1115h7         | 29             | 407            | 1150           | 36                    | 45 | 5560                       |
| 27     | 852000                  | 90m6                                    | 160            | 1470           | 25 | 95   | 200 | 430g6          | 425g6          | 191            | 2.5            | 193.5          | 1460           | 81  | 1345           | 1215h7         | 31             | 453            | 1248           | 32                    | 52 | 6580                       |
| 28     | 950000                  | 90m6                                    | 160            | 1470           | 25 | 95   | 200 | 450g6          | 445g6          | 191            | 2.5            | 193.5          | 1460           | 81  | 1345           | 1215h7         | 31             | 453            | 1248           | 32                    | 52 | 7080                       |
| 29     | 1060000                 | 90m6                                    | 160            | 1516.5         | 25 | 95   | 200 | 460g6          | 450g6          | 197.5          | 5              | 202.5          | 1565           | 87  | 1450           | 1320h7         | 34             | 483            | 1355           | 36                    | 52 | 8400                       |
| 30     | 1200000                 | 90m6                                    | 160            | 1516.5         | 25 | 95   | 200 | 480g6          | 470g6          | 197.5          | 5              | 202.5          | 1565           | 87  | 1450           | 1320h7         | 34             | 483            | 1355           | 36                    | 52 | 8970                       |
| 31     | 1330000                 | 100m6                                   | 180            | 1617           | 28 | 106  | 230 | 480g6          | 470g6          | 232            | 5              | 237            | 1665           | 94  | 1545           | 1400h7         | 36             | 538            | 1443           | 32                    | 62 | 11000                      |
| 32     | 1500000                 | 100m6                                   | 180            | 1617           | 28 | 106  | 230 | 510g6          | 500g6          | 232            | 5              | 237            | 1665           | 94  | 1545           | 1400h7         | 36             | 538            | 1443           | 32                    | 62 | 11500                      |
| 33     | 1680000                 | 120n6                                   | 210            | 1735           | 32 | 127  | 265 | 530g6          | 520g6          | 242            | 5              | 247            | 1755           | 100 | 1635           | 1495h7         | 36             | 573            | 1536           | 36                    | 62 | 13300                      |
| 34     | 1920000                 | 120n6                                   | 210            | 1735           | 32 | 127  | 265 | 570g6          | 560g6          | 242            | 5              | 247            | 1755           | 100 | 1635           | 1495h7         | 36             | 573            | 1536           | 36                    | 62 | 14200                      |
| 35+36  |                         | 请咨询杰牌<br>Please consult JIE             |                |                |    |      |     |                |                |                |                |                |                |     |                |                |                |                |                |                       |    |                            |

- 1) 轴伸d1中心孔, 见第96页。
- 2) 所需安装空间。
- 3) 请注意联接螺栓和凸缘。
- 4) 不包括锁紧盘和润滑油的重量。

- 1) For shaft end d1 with centre hole, see page 46
- 2) Space required.
- 3) Observe bolted connection and boss.
- 4) Weight without shrink disc and oil.

传动比, 转速, 功率  
类型 JRP3S..

Ratio, Speed, Power Rating  
Type JRP3S..



| 传动比 <i>i<sub>N</sub></i> ,转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> ,额定功率 <i>P<sub>N</sub></i> /Ratio <i>i<sub>N</sub></i> ,speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> ,nominal power ratings <i>P<sub>N</sub></i> |                      |                      |                                                                                     |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|------|------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|--|--|--|--|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                              | <i>n<sub>1</sub></i> | <i>n<sub>2</sub></i> | 齿轮箱规格 / Gear unit sizes                                                             |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |  |  |  |  |
|                                                                                                                                                                                                                                   |                      |                      | 9                                                                                   | 10   | 11   | 12 | 13 | 14 | 16 | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34   | 35   | 36   |  |  |  |  |  |
|                                                                                                                                                                                                                                   |                      |                      | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |      |      |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |  |  |  |  |  |
| 280                                                                                                                                                                                                                               | 1500                 | 5.4                  | 13.5                                                                                | 17.6 | 24   | 34 | 47 | 67 | 91 | 115 | 139 | 168 | 202 | 223 | 256 | 292 | 337 | 389 | 434 | 485 | 541 | 603 | 683 | 757 | 854 | 956 | 1093 | 1275 | 1480 |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 3.6                  | 8.3                                                                                 | 12   | 16   | 23 | 31 | 44 | 61 | 77  | 93  | 112 | 134 | 149 | 171 | 195 | 225 | 260 | 290 | 323 | 361 | 402 | 455 | 505 | 569 | 638 | 729  | 850  | 987  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 2.7                  | 6.3                                                                                 | 8.8  | 12   | 17 | 24 | 33 | 46 | 57  | 69  | 84  | 101 | 112 | 128 | 146 | 168 | 195 | 217 | 242 | 270 | 302 | 342 | 379 | 427 | 478 | 546  | 638  | 740  |  |  |  |  |  |
| 315                                                                                                                                                                                                                               | 1500                 | 4.8                  | 11                                                                                  | 16   | 21   | 30 | 42 | 59 | 81 | 102 | 123 | 149 | 179 | 198 | 228 | 260 | 300 | 346 | 386 | 431 | 481 | 536 | 607 | 673 | 759 | 850 | 971  | 1133 | 1316 |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 3.2                  | 7.4                                                                                 | 10.5 | 14   | 20 | 28 | 39 | 54 | 68  | 82  | 100 | 119 | 132 | 152 | 173 | 200 | 231 | 257 | 287 | 320 | 358 | 405 | 449 | 506 | 567 | 648  | 756  | 877  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 2.4                  | 5.6                                                                                 | 7.8  | 11   | 15 | 21 | 30 | 40 | 51  | 62  | 75  | 90  | 99  | 114 | 130 | 150 | 173 | 193 | 216 | 240 | 268 | 304 | 336 | 379 | 425 | 486  | 567  | 658  |  |  |  |  |  |
| 355                                                                                                                                                                                                                               | 1500                 | 4.2                  | 10                                                                                  | 14   | 19   | 27 | 37 | 53 | 72 | 91  | 110 | 132 | 159 | 176 | 202 | 230 | 266 | 307 | 343 | 383 | 427 | 476 | 539 | 597 | 673 | 754 | 862  | 1006 | 1167 |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 2.8                  | 6.7                                                                                 | 9.3  | 13   | 18 | 25 | 35 | 48 | 60  | 73  | 88  | 106 | 117 | 135 | 154 | 177 | 205 | 228 | 255 | 284 | 317 | 359 | 398 | 449 | 503 | 575  | 670  | 778  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 2.1                  | 5                                                                                   | 7    | 9    | 13 | 19 | 26 | 36 | 45  | 55  | 66  | 79  | 88  | 101 | 115 | 133 | 154 | 171 | 191 | 213 | 238 | 269 | 299 | 337 | 377 | 431  | 503  | 584  |  |  |  |  |  |
| 400                                                                                                                                                                                                                               | 1500                 | 3.8                  | 8.8                                                                                 | 12.4 | 17   | 24 | 33 | 47 | 64 | 80  | 97  | 118 | 141 | 156 | 179 | 204 | 236 | 273 | 304 | 339 | 379 | 422 | 478 | 530 | 598 | 669 | 765  | 893  | 1036 |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 2.5                  | 5.8                                                                                 | 8.2  | 11   | 16 | 22 | 31 | 43 | 54  | 65  | 78  | 94  | 104 | 120 | 136 | 157 | 182 | 203 | 226 | 252 | 282 | 319 | 353 | 398 | 446 | 510  | 595  | 691  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.9                  | 4.4                                                                                 | 6.2  | 8    | 12 | 17 | 23 | 32 | 40  | 49  | 59  | 71  | 78  | 90  | 102 | 118 | 136 | 152 | 170 | 189 | 211 | 239 | 265 | 299 | 335 | 383  | 446  | 518  |  |  |  |  |  |
| 450                                                                                                                                                                                                                               | 1500                 | 3.3                  | 7.8                                                                                 | 11   | 15   | 21 | 29 | 41 | 57 | 72  | 86  | 104 | 125 | 139 | 159 | 182 | 210 | 242 | 270 | 302 | 336 | 375 | 425 | 471 | 531 | 595 | 680  | 793  | 921  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 2.2                  | 5.2                                                                                 | 7.3  | 10   | 14 | 20 | 28 | 38 | 48  | 58  | 70  | 84  | 93  | 106 | 121 | 140 | 162 | 180 | 201 | 224 | 250 | 283 | 314 | 354 | 397 | 453  | 529  | 614  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.7                  | 3.4                                                                                 | 5.5  | 7.4  | 11 | 15 | 21 | 28 | 36  | 43  | 52  | 63  | 69  | 80  | 91  | 105 | 121 | 135 | 151 | 168 | 188 | 213 | 236 | 266 | 298 | 340  | 397  | 460  |  |  |  |  |  |
| 500                                                                                                                                                                                                                               | 1500                 | 3.0                  | 7                                                                                   | 10   | 13.4 | 19 | 26 | 37 | 51 | 64  | 78  | 94  | 113 | 125 | 143 | 164 | 189 | 218 | 243 | 272 | 303 | 338 | 383 | 424 | 478 | 536 | 612  | 714  | 829  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 2.0                  | 4.7                                                                                 | 6.6  | 8.9  | 13 | 18 | 25 | 34 | 43  | 52  | 63  | 75  | 83  | 96  | 109 | 126 | 145 | 162 | 181 | 202 | 225 | 255 | 283 | 319 | 357 | 408  | 476  | 553  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.5                  | 3.5                                                                                 | 5    | 6.7  | 10 | 13 | 19 | 26 | 32  | 39  | 47  | 56  | 62  | 72  | 82  | 94  | 109 | 122 | 136 | 151 | 169 | 191 | 212 | 239 | 268 | 306  | 357  | 414  |  |  |  |  |  |
| 560                                                                                                                                                                                                                               | 1500                 | 2.7                  | 6.3                                                                                 | 8.8  | 12   | 17 | 24 | 33 | 46 | 57  | 69  | 84  | 101 | 112 | 128 | 146 | 168 | 195 | 217 | 242 | 270 | 302 | 342 | 379 | 427 | 478 | 546  | 638  | 740  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 1.8                  | 4.2                                                                                 | 6    | 8    | 11 | 16 | 22 | 30 | 38  | 46  | 56  | 67  | 74  | 85  | 97  | 112 | 130 | 145 | 162 | 180 | 201 | 228 | 252 | 285 | 319 | 364  | 425  | 493  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.3                  | 3.1                                                                                 | 4.4  | 6    | 9  | 12 | 17 | 23 | 29  | 35  | 42  | 50  | 56  | 64  | 73  | 84  | 97  | 109 | 121 | 135 | 151 | 171 | 189 | 213 | 239 | 273  | 319  | 370  |  |  |  |  |  |
| 630                                                                                                                                                                                                                               | 1500                 | 2.4                  | 5.6                                                                                 | 7.8  | 10.6 | 15 | 21 | 30 | 40 | 51  | 62  | 75  | 90  | 99  | 114 | 130 | 150 | 173 | 193 | 216 | 240 | 268 | 304 | 336 | 379 | 425 | 486  | 567  | 658  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 1.6                  | 3.7                                                                                 | 5.2  | 7    | 10 | 14 | 20 | 27 | 34  | 41  | 50  | 60  | 66  | 76  | 87  | 100 | 115 | 129 | 144 | 160 | 179 | 202 | 224 | 253 | 283 | 324  | 378  | 439  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.2                  | 2.8                                                                                 | 3.9  | 5.3  | 8  | 10 | 15 | 20 | 26  | 31  | 37  | 45  | 50  | 57  | 65  | 75  | 87  | 97  | 108 | 120 | 134 | 152 | 168 | 190 | 213 | 243  | 283  | 329  |  |  |  |  |  |
| 710                                                                                                                                                                                                                               | 1500                 | 2.1                  | 4.5                                                                                 | 7    | 9.4  | 13 | 19 | 26 | 36 | 45  | 55  | 66  | 79  | 88  | 101 | 115 | 133 | 154 | 171 | 191 | 213 | 238 | 269 | 299 | 337 | 377 | 431  | 503  | 584  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 1.4                  | 3.3                                                                                 | 4.5  | 6.3  | 9  | 12 | 18 | 24 | 30  | 37  | 44  | 53  | 59  | 67  | 77  | 89  | 102 | 114 | 128 | 142 | 159 | 180 | 199 | 224 | 251 | 287  | 335  | 389  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 1.1                  | 2.5                                                                                 | 3.5  | 4.7  | 7  | 9  | 13 | 18 | 23  | 27  | 33  | 40  | 44  | 51  | 58  | 66  | 77  | 86  | 96  | 107 | 119 | 135 | 149 | 168 | 189 | 215  | 251  | 292  |  |  |  |  |  |
| 800                                                                                                                                                                                                                               | 1500                 | 1.9                  | 4.4                                                                                 | 6.2  | 8.4  | 12 | 17 | 23 | 32 | 40  | 49  | 59  | 71  | 78  | 90  | 102 | 118 | 136 | 152 | 170 | 189 | 211 | 239 | 265 | 299 | 335 | 383  | 446  | 518  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 1.3                  | 2.9                                                                                 | 4.1  | 5.6  | 8  | 11 | 16 | 21 | 27  | 32  | 39  | 47  | 52  | 60  | 68  | 79  | 91  | 110 | 113 | 126 | 141 | 159 | 177 | 199 | 223 | 255  | 298  | 345  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 0.9                  | 2.2                                                                                 | 3.1  | 4.2  | 6  | 8  | 12 | 16 | 20  | 24  | 29  | 35  | 39  | 45  | 51  | 59  | 68  | 76  | 85  | 95  | 106 | 120 | 132 | 149 | 167 | 191  | 223  | 259  |  |  |  |  |  |
| 900                                                                                                                                                                                                                               | 1500                 | 1.7                  | 3.4                                                                                 | 5.5  | 7.4  | 11 | 15 | 21 | 28 | 36  | 43  | 52  | 63  | 69  | 80  | 91  | 105 | 121 | 135 | 151 | 168 | 188 | 213 | 236 | 266 | 298 | 340  | 397  | 460  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 1000                 | 1.1                  | 2.6                                                                                 | 3.7  | 5    | 7  | 10 | 14 | 19 | 24  | 29  | 35  | 42  | 46  | 53  | 61  | 70  | 81  | 90  | 101 | 112 | 125 | 142 | 157 | 177 | 198 | 227  | 264  | 307  |  |  |  |  |  |
|                                                                                                                                                                                                                                   | 750                  | 0.8                  | 1.9                                                                                 | 2.7  | 3.7  | 5  | 7  | 10 | 14 | 18  | 22  | 26  | 31  | 35  | 40  | 45  | 52  | 61  | 68  | 75  | 84  | 94  | 106 | 118 | 133 | 149 | 170  | 198  | 230  |  |  |  |  |  |

- = 请咨询杰牌

- = On request

| 热容量 $P_{G1}$ (kW) / Thermal capacities $P_{G1}$ in (kW) *       |                                                         |    |    |    |    |    |    |     |     |       |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------|---------------------------------------------------------|----|----|----|----|----|----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                 | 齿轮箱规格 / Gear unit sizes                                 |    |    |    |    |    |    |     |     |       |       |       |       |       |       |       |       |       |
|                                                                 | 9                                                       | 10 | 11 | 12 | 13 | 14 | 16 | 17  | 18  | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31/32 | 33/34 | 35/36 |
|                                                                 | 热容量 $P_{G1}$ (kW) / Thermal capacities $P_{G1}$ in (kW) |    |    |    |    |    |    |     |     |       |       |       |       |       |       |       |       |       |
| 1) $P_{G1}$ 室内小空间安装<br>$P_{G1}$ for small confined spaces       | 12                                                      | 15 | 18 | 24 | 28 | 40 | 43 | 53  | 57  | 69    | 82    | 100   | 116   | 139   | 165   | 188   | 211   | 252   |
| 2) $P_{G1}$ 室内大空间安装<br>$P_{G1}$ for large halls, workshops etc. | 17                                                      | 21 | 26 | 34 | 40 | 53 | 61 | 75  | 81  | 97    | 116   | 142   | 164   | 197   | 234   | 266   | 298   | 356   |
| 3) $P_{G1}$ 室外安装<br>$P_{G1}$ in the open                        | 23                                                      | 29 | 35 | 46 | 54 | 72 | 82 | 101 | 110 | 131   | 156   | 192   | 222   | 267   | 316   | 360   | 404   | 482   |

\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌

\*) Values apply to horizontal mounting position. For other mounting positions please refer to us.

- 1) 风速  $\geq 0.5$  m/s
- 2) 风速  $\geq 1.4$  m/s
- 3) 风速  $\geq 3.7$  m/s

- 1) Wind velocity  $\geq 0.5$  m/s
- 2) Wind velocity  $\geq 1.4$  m/s
- 3) Wind velocity  $\geq 3.7$  m/s





传动比, 转速, 功率  
类型 JRP3K..

Ratio,Speed,Power Rating  
Type JRP3K..



| 传动比 <i>i<sub>N</sub></i> , 转速 <i>n<sub>1</sub></i> 和 <i>n<sub>2</sub></i> , 额定功率 <i>P<sub>N</sub></i> /Ratio <i>i<sub>N</sub></i> , speeds <i>n<sub>1</sub></i> and <i>n<sub>2</sub></i> , nominal power ratings <i>P<sub>N</sub></i> |                               |                               |                                                                                     |     |     |     |     |     |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |       |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|--|--|--|--|--|--|--|
| <i>i<sub>N</sub></i>                                                                                                                                                                                                                  | <i>n<sub>1</sub></i><br>r/min | <i>n<sub>2</sub></i><br>r/min | 齿轮箱规格 / Gear unit sizes                                                             |     |     |     |     |     |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       |                               |                               | 9                                                                                   | 10  | 11  | 12  | 13  | 14  | 16   | 17   | 18   | 19   | 20   | 21   | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31-36 |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       |                               |                               | 额定功率 <i>P<sub>N</sub></i> (kW) / Nominal power ratings <i>P<sub>N</sub></i> in (kW) |     |     |     |     |     |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |       |  |  |  |  |  |  |  |  |
| 560                                                                                                                                                                                                                                   | 1500                          | 2.68                          | 6.3                                                                                 | 9   | 12  | 17  | 24  | 33  | 46   | 58   | 70   | 84   | 101  | 112  | 128 | 146 | 169 | 195 | 218 | 243 | 271 | 303 | 342 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.79                          | 4.2                                                                                 | 6   | 8   | 11  | 16  | 22  | 30   | 38   | 46   | 56   | 67   | 75   | 86  | 98  | 113 | 130 | 145 | 162 | 181 | 202 | 228 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 1.34                          | 3.1                                                                                 | 4   | 6   | 9   | 12  | 17  | 23   | 29   | 35   | 42   | 51   | 56   | 64  | 73  | 84  | 98  | 109 | 122 | 136 | 151 | 171 |       |  |  |  |  |  |  |  |  |
| 630                                                                                                                                                                                                                                   | 1500                          | 2.38                          | 5.6                                                                                 | 7.8 | 11  | 15  | 21  | 30  | 41   | 51   | 62   | 75   | 90   | 99   | 114 | 130 | 150 | 174 | 194 | 216 | 241 | 269 | 304 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.59                          | 3.7                                                                                 | 5.2 | 7   | 10  | 14  | 20  | 27   | 34   | 41   | 50   | 60   | 66   | 76  | 87  | 100 | 116 | 129 | 144 | 161 | 179 | 203 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 1.19                          | 2.8                                                                                 | 3.9 | 5   | 8   | 11  | 15  | 20   | 26   | 31   | 37   | 45   | 50   | 57  | 65  | 75  | 87  | 97  | 109 | 121 | 134 | 152 |       |  |  |  |  |  |  |  |  |
| 710                                                                                                                                                                                                                                   | 1500                          | 2.11                          | 5.0                                                                                 | 7   | 9   | 14  | 19  | 26  | 36   | 45   | 55   | 66   | 80   | 88   | 101 | 115 | 133 | 154 | 172 | 192 | 214 | 239 | 270 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.41                          | 3.3                                                                                 | 4.5 | 6   | 9   | 12  | 18  | 24   | 30   | 37   | 44   | 53   | 59   | 68  | 77  | 89  | 103 | 115 | 128 | 143 | 159 | 180 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 1.06                          | 2.5                                                                                 | 3.5 | 5   | 7   | 9   | 13  | 18   | 23   | 27   | 33   | 40   | 44   | 51  | 58  | 67  | 77  | 86  | 96  | 107 | 119 | 135 |       |  |  |  |  |  |  |  |  |
| 800                                                                                                                                                                                                                                   | 1500                          | 1.88                          | 4.4                                                                                 | 6   | 8   | 12  | 17  | 23  | 32   | 40   | 49   | 59   | 71   | 78   | 90  | 102 | 118 | 137 | 152 | 170 | 190 | 212 | 240 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.25                          | 2.9                                                                                 | 4   | 6   | 8   | 11  | 16  | 21   | 27   | 32   | 39   | 47   | 52   | 60  | 68  | 79  | 91  | 102 | 113 | 127 | 141 | 160 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.94                          | 2.2                                                                                 | 3   | 4   | 6   | 8   | 12  | 16   | 20   | 24   | 29   | 35   | 39   | 45  | 51  | 59  | 68  | 76  | 85  | 95  | 106 | 120 |       |  |  |  |  |  |  |  |  |
| 900                                                                                                                                                                                                                                   | 1500                          | 1.67                          | 3.9                                                                                 | 5.5 | 7.5 | 11  | 15  | 21  | 28   | 36   | 43   | 52   | 63   | 70   | 80  | 91  | 105 | 121 | 136 | 151 | 169 | 188 | 213 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.11                          | 2.6                                                                                 | 3.7 | 5   | 7   | 10  | 14  | 19   | 24   | 29   | 35   | 42   | 46   | 53  | 61  | 70  | 81  | 90  | 101 | 112 | 125 | 142 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.83                          | 2.0                                                                                 | 2.7 | 3.7 | 5   | 7   | 10  | 14   | 18   | 22   | 26   | 31   | 35   | 40  | 46  | 53  | 61  | 68  | 76  | 84  | 94  | 107 |       |  |  |  |  |  |  |  |  |
| 1000                                                                                                                                                                                                                                  | 1500                          | 1.50                          | 3.5                                                                                 | 5   | 6.7 | 10  | 13  | 19  | 26   | 32   | 39   | 47   | 57   | 63   | 72  | 82  | 95  | 109 | 122 | 136 | 152 | 169 | 192 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 1.00                          | 2.3                                                                                 | 3.3 | 4.5 | 6   | 9   | 12  | 17   | 22   | 26   | 31   | 38   | 42   | 48  | 55  | 63  | 73  | 81  | 91  | 101 | 113 | 128 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.75                          | 1.8                                                                                 | 2.5 | 3.4 | 5   | 7   | 9   | 13   | 16   | 19   | 24   | 28   | 31   | 36  | 41  | 47  | 55  | 61  | 68  | 76  | 85  | 96  |       |  |  |  |  |  |  |  |  |
| 1120                                                                                                                                                                                                                                  | 1500                          | 1.34                          | 3.1                                                                                 | 4.4 | 6   | 9   | 12  | 17  | 23   | 29   | 35   | 42   | 51   | 56   | 64  | 73  | 84  | 98  | 109 | 122 | 136 | 151 | 171 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.89                          | 2.1                                                                                 | 2.9 | 4   | 6   | 8   | 11  | 15   | 19   | 23   | 28   | 34   | 37   | 43  | 49  | 56  | 65  | 73  | 81  | 90  | 101 | 114 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.67                          | 1.6                                                                                 | 2.2 | 3   | 4.5 | 6   | 8   | 11   | 14   | 17   | 21   | 25   | 28   | 32  | 37  | 42  | 49  | 54  | 61  | 68  | 76  | 86  |       |  |  |  |  |  |  |  |  |
| 1250                                                                                                                                                                                                                                  | 1500                          | 1.20                          | 2.8                                                                                 | 4.0 | 5.4 | 8   | 11  | 15  | 20   | 26   | 31   | 38   | 45   | 50   | 58  | 66  | 76  | 87  | 98  | 109 | 121 | 136 | 153 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.80                          | 1.9                                                                                 | 2.6 | 3.6 | 5   | 7   | 10  | 14   | 17   | 21   | 25   | 30   | 33   | 38  | 44  | 50  | 58  | 65  | 73  | 81  | 90  | 102 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.60                          | 1.4                                                                                 | 2.0 | 2.7 | 4   | 5   | 7   | 10   | 13   | 16   | 19   | 23   | 25   | 29  | 33  | 38  | 44  | 49  | 54  | 61  | 68  | 77  |       |  |  |  |  |  |  |  |  |
| 1400                                                                                                                                                                                                                                  | 1500                          | 1.07                          | 2.5                                                                                 | 3.5 | 4.8 | 7   | 4.9 | 13  | 18   | 23   | 28   | 34   | 40   | 45   | 51  | 59  | 68  | 78  | 87  | 97  | 108 | 121 | 137 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.71                          | 1.7                                                                                 | 2.4 | 3.2 | 5   | 6   | 9   | 12   | 15   | 19   | 22   | 27   | 30   | 34  | 39  | 45  | 52  | 58  | 65  | 72  | 81  | 91  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.54                          | 1.3                                                                                 | 1.8 | 2.4 | 3.5 | 4.5 | 7   | 9    | 12   | 14   | 17   | 20   | 22   | 26  | 29  | 34  | 39  | 44  | 49  | 54  | 61  | 68  |       |  |  |  |  |  |  |  |  |
| 1600                                                                                                                                                                                                                                  | 1500                          | 0.94                          | 2.2                                                                                 | 3.1 | 4.2 | 6   | 8   | 12  | 16   | 20   | 24   | 29   | 35   | 39   | 45  | 51  | 59  | 68  | 76  | 85  | 95  | 106 | 120 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.63                          | 1.5                                                                                 | 2.1 | 2.8 | 4   | 6   | 8   | 11   | 13   | 16   | 20   | 24   | 26   | 30  | 34  | 39  | 46  | 51  | 57  | 63  | 71  | 80  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.47                          | 1.1                                                                                 | 1.5 | 2.1 | 3   | 4   | 6   | 8    | 10   | 12   | 15   | 18   | 20   | 22  | 26  | 30  | 34  | 38  | 43  | 47  | 53  | 60  |       |  |  |  |  |  |  |  |  |
| 1800                                                                                                                                                                                                                                  | 1500                          | 0.83                          | 2.0                                                                                 | 2.8 | 3.7 | 5   | 7   | 10  | 14   | 18   | 22   | 26   | 31   | 35   | 40  | 46  | 53  | 61  | 68  | 76  | 84  | 94  | 107 |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.56                          | 1.3                                                                                 | 1.8 | 2.5 | 4   | 5   | 7   | 9    | 12   | 14   | 17   | 21   | 23   | 27  | 30  | 35  | 40  | 45  | 50  | 56  | 63  | 71  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.42                          | 1.0                                                                                 | 1.4 | 1.9 | 2.7 | 3.7 | 5.2 | 7.1  | 9    | 11   | 13   | 16   | 17   | 20  | 23  | 26  | 30  | 34  | 38  | 42  | 47  | 53  |       |  |  |  |  |  |  |  |  |
| 2000                                                                                                                                                                                                                                  | 1500                          | 0.75                          | 1.8                                                                                 | 2.5 | 3.4 | 4.8 | 6.6 | 9.4 | 12.8 | 16   | 19   | 24   | 28   | 31   | 36  | 41  | 47  | 55  | 61  | 68  | 76  | 85  | 96  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.50                          | 1.2                                                                                 | 1.7 | 2.2 | 3.2 | 4.4 | 6.2 | 8.5  | 11   | 13   | 16   | 19   | 21   | 24  | 27  | 32  | 36  | 41  | 45  | 51  | 56  | 64  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.38                          | 0.9                                                                                 | 1.2 | 1.7 | 2.4 | 3.3 | 4.7 | 6.4  | 8    | 10   | 12   | 14   | 16   | 18  | 20  | 24  | 27  | 30  | 34  | 38  | 42  | 48  |       |  |  |  |  |  |  |  |  |
| 2240                                                                                                                                                                                                                                  | 1500                          | 0.67                          | 1.6                                                                                 | 2.2 | 3.0 | 4.3 | 5.9 | 8.3 | 11.4 | 14   | 17   | 21   | 25   | 28   | 32  | 37  | 42  | 49  | 54  | 61  | 68  | 76  | 86  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.45                          | 1.0                                                                                 | 1.5 | 2.0 | 2.9 | 3.9 | 5.6 | 7.6  | 10   | 12   | 14   | 17   | 19   | 21  | 24  | 28  | 33  | 36  | 41  | 45  | 50  | 57  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.33                          | 0.8                                                                                 | 1.1 | 1.5 | 2.1 | 3.0 | 4.2 | 5.7  | 7.2  | 8.7  | 10.5 | 12.6 | 14   | 16  | 18  | 21  | 24  | 27  | 30  | 34  | 38  | 43  |       |  |  |  |  |  |  |  |  |
| 2500                                                                                                                                                                                                                                  | 1500                          | 0.60                          | 1.4                                                                                 | 2.0 | 2.7 | 3.8 | 5.3 | 7.5 | 10.2 | 12.9 | 16   | 19   | 23   | 25   | 29  | 33  | 38  | 44  | 49  | 54  | 61  | 68  | 77  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.40                          | 0.9                                                                                 | 1.3 | 1.8 | 2.6 | 3.5 | 5.0 | 6.8  | 8.6  | 10.4 | 12.6 | 15.1 | 17   | 19  | 22  | 25  | 29  | 33  | 36  | 40  | 45  | 51  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.30                          | 0.7                                                                                 | 1.0 | 1.3 | 1.9 | 2.7 | 3.7 | 5.1  | 6.5  | 7.8  | 9.4  | 11.3 | 13   | 14  | 16  | 19  | 22  | 24  | 27  | 30  | 34  | 38  |       |  |  |  |  |  |  |  |  |
| 2800                                                                                                                                                                                                                                  | 1500                          | 0.54                          | 1.3                                                                                 | 1.8 | 2.4 | 3.4 | 4.7 | 6.7 | 9.1  | 12   | 14   | 17   | 20   | 22   | 26  | 29  | 34  | 39  | 44  | 49  | 54  | 61  | 68  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.36                          | 0.8                                                                                 | 1.2 | 1.6 | 2.3 | 3.2 | 4.5 | 6.1  | 7.7  | 9.3  | 11.2 | 13.5 | 15   | 17  | 20  | 23  | 26  | 29  | 32  | 36  | 40  | 46  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.27                          | 0.6                                                                                 | 0.9 | 1.2 | 1.7 | 2.4 | 3.3 | 4.6  | 5.8  | 7.0  | 8.4  | 10.1 | 11.2 | 13  | 15  | 17  | 20  | 22  | 24  | 27  | 30  | 34  |       |  |  |  |  |  |  |  |  |
| 3150                                                                                                                                                                                                                                  | 1500                          | 0.48                          | 1.1                                                                                 | 1.6 | 2.1 | 3.0 | 4.2 | 5.9 | 8.1  | 10.2 | 12   | 15   | 18   | 20   | 23  | 26  | 30  | 35  | 39  | 43  | 48  | 54  | 61  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.32                          | 0.7                                                                                 | 1.0 | 1.4 | 2.0 | 2.8 | 4.0 | 5.4  | 6.8  | 8.3  | 10.0 | 12   | 13.3 | 15  | 17  | 20  | 23  | 26  | 29  | 32  | 36  | 41  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.24                          | 0.6                                                                                 | 0.8 | 1.1 | 1.5 | 2.1 | 3.0 | 4.1  | 5.1  | 6.2  | 7.5  | 9    | 9.9  | 11  | 13  | 15  | 17  | 19  | 22  | 24  | 27  | 30  |       |  |  |  |  |  |  |  |  |
| 3550                                                                                                                                                                                                                                  | 1500                          | 0.42                          | 1.0                                                                                 | 1.4 | 1.9 | 2.7 | 3.7 | 5.3 | 7.2  | 9.1  | 11   | 13   | 16   | 18   | 20  | 23  | 27  | 31  | 34  | 38  | 43  | 48  | 54  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.28                          | 0.7                                                                                 | 0.9 | 1.3 | 1.8 | 2.5 | 3.5 | 4.8  | 6.1  | 7.3  | 8.9  | 10.6 | 11.8 | 14  | 15  | 18  | 21  | 23  | 26  | 29  | 32  | 36  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.21                          | 0.5                                                                                 | 0.7 | 0.9 | 1.4 | 1.9 | 2.6 | 3.6  | 4.5  | 5.5  | 6.6  | 8    | 8.8  | 10  | 12  | 13  | 15  | 17  | 19  | 21  | 24  | 27  |       |  |  |  |  |  |  |  |  |
| 4000                                                                                                                                                                                                                                  | 1500                          | 0.38                          | 0.9                                                                                 | 1.2 | 1.7 | 2.4 | 3.3 | 4.7 | 6.4  | 8.1  | 9.7  | 12   | 14   | 16   | 18  | 20  | 24  | 27  | 30  | 34  | 38  | 42  | 48  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 1000                          | 0.25                          | 0.6                                                                                 | 0.8 | 1.1 | 1.6 | 2.2 | 3.1 | 4.3  | 5.4  | 6.5  | 7.9  | 9.4  | 10.4 | 12  | 14  | 16  | 18  | 20  | 23  | 25  | 28  | 32  |       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                       | 750                           | 0.19                          | 0.4                                                                                 | 0.6 | 0.8 | 1.2 | 1.7 | 2.3 | 3.2  | 4.0  | 4.9  | 5.9  | 7.1  | 7.8  | 9   | 10  | 12  | 14  | 15  | 17  | 19  | 21  | 24  |       |  |  |  |  |  |  |  |  |

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| 热容量 P <sub>G1</sub> (kW)/ Thermal capacities P <sub>G1</sub> in (kW) *         |                                                                      |    |    |    |    |    |    |    |    |       |       |       |       |       |       |                                       |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|-------|---------------------------------------|
|                                                                                | 齿轮箱规格 / Gear unit sizes                                              |    |    |    |    |    |    |    |    |       |       |       |       |       |       |                                       |
|                                                                                | 9                                                                    | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 19/20 | 21/22 | 23/24 | 25/26 | 27/28 | 29/30 | 31~36                                 |
|                                                                                | 热容量 P <sub>G1</sub> (kW)/ Thermal capacities P <sub>G1</sub> in (kW) |    |    |    |    |    |    |    |    |       |       |       |       |       |       |                                       |
| 1) P <sub>G1</sub> 室内小、空间安装<br>P <sub>G1</sub> for small, confined spaces      | 10                                                                   | 12 | 15 | 20 | 23 | 31 | 35 | 43 | 47 | 56    | 67    | 82    | 95    | 109   | 125   | 请咨询<br>杰牌<br>Please<br>consult<br>JIE |
| 2) P <sub>G1</sub> 室内大、空间安装<br>P <sub>G1</sub> for large halls, workshops etc. | 14                                                                   | 17 | 21 | 28 | 33 | 44 | 50 | 61 | 66 | 79    | 95    | 116   | 106   | 125   | 144   |                                       |
| 3) P <sub>G1</sub> 室外安装<br>P <sub>G1</sub> in the open                         | 19                                                                   | 24 | 28 | 38 | 44 | 59 | 67 | 83 | 90 | 107   | 128   | 157   | 166   | 195   | 225   |                                       |

\*)表中数值适用于卧式安装。对于其它安装位置请咨询杰牌。

\*) Values apply to horizontal mounting position.  
For other mounting positions please refer to us.

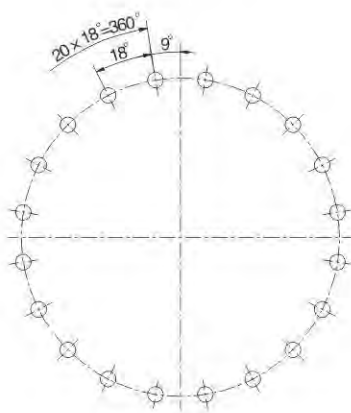
- 1) 风速  $\geq 0.5\text{m/s}$
- 2) 风速  $\geq 1.4\text{m/s}$
- 3) 风速  $\geq 3.7\text{m/s}$

- 1) Wind velocity  $\geq 0.5 \text{ m/s}$
- 2) Wind velocity  $\geq 1.4 \text{ m/s}$
- 3) Wind velocity  $\geq 3.7 \text{ m/s}$

输出法兰孔布置图:

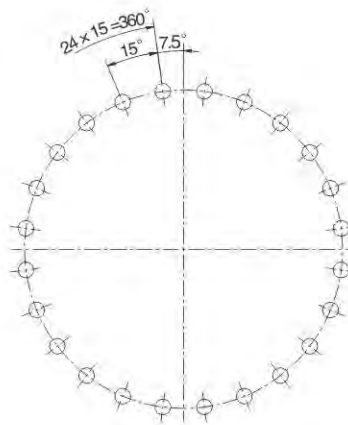
Hole Patterns on Output Flanges

从输入轴端观察

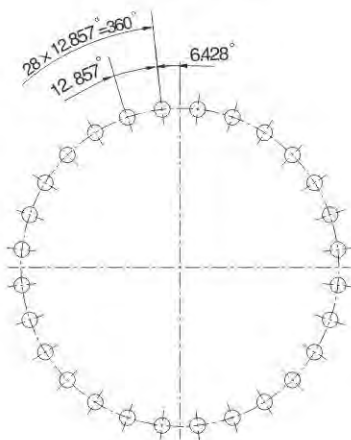


规格 / Size: 11, 12

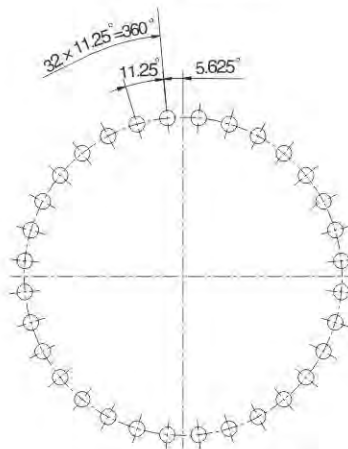
Viewing on input shaft



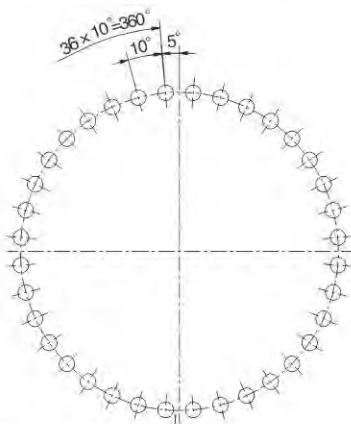
规格 / Size: 9, 13, 17



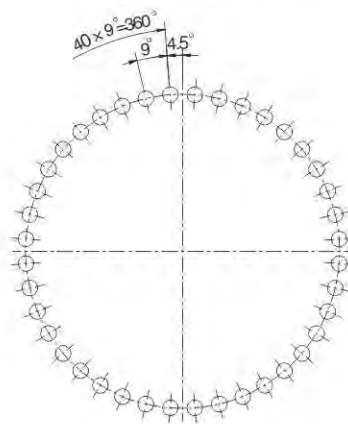
规格 / Size: 10



规格 / Size: 14, 18, 21, 22, 27, 28, 31, 32



规格 / Size: 16, 19, 20, 23, 24, 25, 26, 29, 30, 33, 34



规格 / Size: 35, 36





DS型轴端中心孔

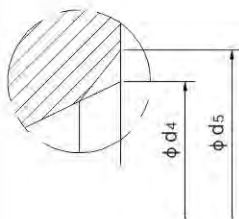
Centre Holes, Form DS On Shaft Ends



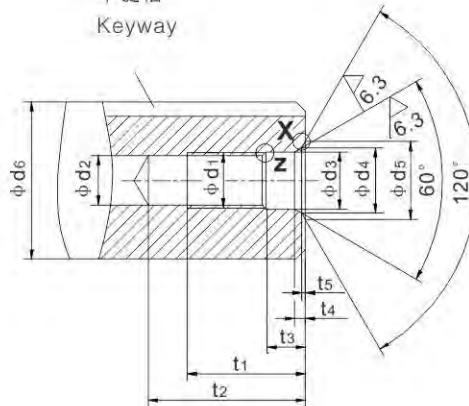
DS 型中心孔  
带螺纹孔及护锥沉孔

Form DS  
Tapped hole, with straight running  
face and counterbore

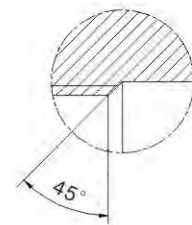
"X"局部放大  
Detail "X"



平键槽  
Keyway



"Z" 局部放大  
Detail "Z"



| 推荐直径<br>Recommended<br>diameters<br>$d_6^{1)}$ |                   | DS 型 / Form DS           |                    |                        |       |       |       |             |                    |             |            |            |     |  |
|------------------------------------------------|-------------------|--------------------------|--------------------|------------------------|-------|-------|-------|-------------|--------------------|-------------|------------|------------|-----|--|
| 大于<br>above                                    | 至<br>to           | DS 型<br>中心孔<br>Centering | $d_1$              | $d_2$<br><sup>2)</sup> | $d_3$ | $d_4$ | $d_5$ | $t_1$<br>+2 | $t_2$<br>min. max. | $t_3$<br>+1 | $t_4$<br>≈ | $t_5$<br>≈ | mm  |  |
|                                                |                   |                          |                    |                        |       |       |       |             |                    |             |            |            |     |  |
| 16                                             | 21                | DS 6                     | M6                 | 5                      | 6.4   | 9.6   | 10.5  | 16          | 20                 | 22          | 5          | 2.8        | 0.4 |  |
| 21                                             | 24                | DS 8                     | M8                 | 6.8                    | 8.4   | 12.2  | 13.2  | 19          | 25                 | 28          | 6          | 3.3        | 0.4 |  |
| 24                                             | 30                | DS 10                    | M10                | 8.5                    | 10.5  | 14.9  | 16.3  | 22          | 30                 | 34          | 7.5        | 3.8        | 0.6 |  |
| 30                                             | 38                | DS 12                    | M12                | 10.2                   | 13    | 18.1  | 19.8  | 28          | 37                 | 42          | 9.5        | 4.4        | 0.7 |  |
| 38                                             | 50                | DS 16                    | M16                | 14                     | 17    | 23    | 25.3  | 36          | 45                 | 50          | 12         | 5.2        | 1.0 |  |
| 50                                             | 85                | DS 20                    | M20                | 17.5                   | 21    | 28.4  | 31.3  | 42          | 53                 | 59          | 15         | 6.4        | 1.3 |  |
| 85                                             | 130               | DS 24                    | M24                | 21                     | 25    | 34.2  | 38    | 50          | 63                 | 68          | 18         | 8          | 1.6 |  |
| 130 <sup>3)</sup>                              | 225 <sup>3)</sup> | DS 30                    | M 30 <sup>3)</sup> | 26.5                   | 31    | 44    | 48    | 60          | 77                 | 83          | 17         | 11         | 1.9 |  |
| 225 <sup>3)</sup>                              | 320 <sup>3)</sup> | DS 36                    | M36 <sup>3)</sup>  | 32                     | 37    | 55    | 60    | 74          | 93                 | 99          | 22         | 15         | 2.3 |  |
| 320 <sup>3)</sup>                              | 500 <sup>3)</sup> | DS 42                    | M42 <sup>3)</sup>  | 37.5                   | 43    | 65    | 71    | 84          | 105                | 111         | 26         | 19         | 2.7 |  |
| 500 <sup>3)</sup>                              | 710 <sup>3)</sup> | DS 48                    | M48 <sup>3)</sup>  | 43                     | 49    | 76    | 83    | 94          | 115                | 121         | 30         | 23         | 3.2 |  |

1) 工件加工后最终尺寸

1) Diameter of the finished work piece

2) 螺纹攻丝钻头直径按照DIN336第1部分确定

2) Drill diameters for tapping-size holes acc.to DIN 336Pt.1

3) 不是按照DIN332确定的尺寸

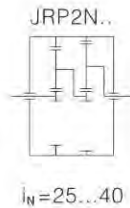
3) Dimensions not acc.to DIN332

## 6. 实际传动比 Actual Ratios

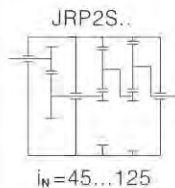
类型 JRP2N..和JRP2S..

Types JRP2N..and JRP2S..

| JRP2N..<br>规格<br>Size | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |
|-----------------------|------------------------------|--------|--------|--------|--------|
|                       | 25                           | 28     | 31.5   | 35.5   | 40     |
| 9                     | 25.634                       | 28.058 | 31.142 | 35.201 | 40.781 |
| 10                    | 25.634                       | 28.058 | 31.142 | 35.201 | 40.781 |
| 11                    | 25.875                       | 28.233 | 31.207 | 35.072 | 40.302 |
| 12                    | 24.983                       | 27.260 | 30.130 | 33.863 | 38.912 |
| 13                    | 24.958                       | 27.318 | 30.321 | 34.272 | 39.706 |
| 14                    | 24.958                       | 27.318 | 30.321 | 34.272 | 39.706 |
| 16                    | 24.750                       | 27.090 | 30.068 | 33.987 | 39.375 |
| 17                    | 24.750                       | 27.090 | 30.068 | 33.987 | 39.375 |
| 18                    | 24.958                       | 27.318 | 30.321 | 34.272 | 39.706 |
| 19/20                 | 26.622                       | 29.139 | 32.342 | 36.557 | 42.353 |
| 21/22                 | 26.622                       | 29.139 | 32.342 | 36.557 | 42.353 |
| 23/24                 | 26.872                       | 29.321 | 32.409 | 36.424 | 41.855 |
| 25/26                 | 26.872                       | 29.321 | 32.409 | 36.424 | 41.855 |
| 27/28                 | 26.622                       | 29.139 | 32.342 | 36.557 | 42.353 |
| 29/30                 | 26.622                       | 29.139 | 32.342 | 36.557 | 42.353 |
| 31/32                 | 26.872                       | 29.321 | 32.409 | 36.424 | 41.855 |
| 33/34                 | 26.622                       | 29.139 | 32.342 | 36.557 | 42.353 |
| 35/36                 | 26.872                       | 29.321 | 32.409 | 36.424 | 41.855 |



| JRP2S..<br>规格<br>Size | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |        |        |        |        |        |
|-----------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 45                           | 50     | 56     | 63     | 71     | 80     | 90     | 100    | 112    | 125    |
| 9                     | 45.601                       | 51.544 | 59.715 | 61.953 | 71.775 | 78.782 | 91.272 | 99.735 | 115.55 | 124.74 |
| 10                    | 45.601                       | 51.544 | 59.715 | 61.953 | 71.775 | 78.782 | 91.272 | 99.735 | 115.55 | 124.74 |
| 11                    | 43.209                       | 48.561 | 55.802 | 63.399 | 72.853 | 81.303 | 93.426 | 99.678 | 114.54 | 123.14 |
| 12                    | 41.719                       | 46.887 | 53.878 | 61.213 | 70.340 | 78.499 | 90.205 | 96.241 | 110.59 | 118.90 |
| 13                    | 43.797                       | 49.505 | 57.353 | 59.977 | 69.485 | 78.827 | 91.324 | 95.963 | 111.18 | 119.12 |
| 14                    | 43.797                       | 49.505 | 57.353 | 59.977 | 69.485 | 78.827 | 91.324 | 95.963 | 111.18 | 119.12 |
| 16                    | 42.318                       | 47.833 | 55.417 | 61.438 | 71.178 | 78.788 | 91.278 | 96.594 | 111.91 | 120.59 |
| 17                    | 42.318                       | 47.833 | 55.417 | 61.438 | 71.178 | 78.788 | 91.278 | 96.594 | 111.91 | 120.59 |
| 18                    | 42.867                       | 48.454 | 56.136 | 60.320 | 69.882 | 78.976 | 91.496 | 95.963 | 111.18 | 119.12 |
| 19/20                 | 45.725                       | 51.684 | 59.878 | 64.341 | 74.541 | 84.841 | 97.596 | 102.36 | 118.59 | 127.06 |
| 21/22                 | 46.357                       | 52.399 | 60.706 | 66.084 | 76.561 | 84.746 | 98.182 | 103.90 | 120.37 | 129.41 |
| 23/24                 | 45.373                       | 50.993 | 58.597 | 64.442 | 74.051 | 82.781 | 95.124 | 101.60 | 116.75 | 125.56 |
| 25/26                 | 45.373                       | 50.993 | 58.597 | 64.442 | 74.051 | 82.781 | 95.124 | 101.60 | 116.75 | 125.56 |
| 27/28                 | 46.948                       | 53.067 | 61.480 | 66.345 | 76.863 | 84.241 | 97.596 | 102.36 | 118.59 | 127.06 |
| 29/30                 | 46.948                       | 53.067 | 61.480 | 66.345 | 76.863 | 84.241 | 97.596 | 102.36 | 118.59 | 127.06 |
| 31/32                 | 45.575                       | 51.221 | 58.858 | 66.102 | 75.958 | 83.932 | 96.448 | 104.30 | 119.86 | 127.56 |
| 33/34                 | 45.481                       | 51.409 | 59.559 | 66.345 | 76.863 | 84.241 | 97.596 | 104.69 | 121.28 | 129.08 |
| 35/36                 | 45.373                       | 50.993 | 58.597 | 65.562 | 75.338 | 81.252 | 93.368 | 100.53 | 115.52 | 129.20 |

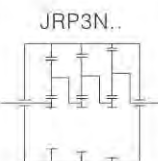


类型 JRP3N..和JRP3S..

Types JRP3N..and JRP3S..



| JRP3N..<br>规格<br>Size | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |        |        |  |
|-----------------------|------------------------------|--------|--------|--------|--------|--------|--------|--|
|                       | 140                          | 160    | 180    | 200    | 225    | 250    | 280    |  |
| 9                     | 146.81                       | 165.95 | 192.25 | 210.43 | 233.57 | 264.01 | 305.86 |  |
| 10                    | 146.81                       | 165.95 | 192.25 | 210.43 | 233.57 | 264.01 | 305.86 |  |
| 11                    | 147.12                       | 165.34 | 189.99 | 207.96 | 230.82 | 260.90 | 302.26 |  |
| 12                    | 142.04                       | 159.64 | 183.44 | 200.79 | 222.86 | 251.90 | 291.84 |  |
| 13                    | 142.94                       | 161.57 | 187.19 | 204.88 | 227.41 | 257.04 | 297.79 |  |
| 14                    | 142.94                       | 161.57 | 187.19 | 204.88 | 227.41 | 257.04 | 297.79 |  |
| 16                    | 143.08                       | 161.73 | 187.37 | 204.45 | 225.98 | 253.97 | 291.84 |  |
| 17                    | 143.08                       | 161.73 | 187.37 | 204.45 | 225.98 | 253.97 | 291.84 |  |
| 18                    | 142.94                       | 161.57 | 187.19 | 204.88 | 227.41 | 257.04 | 297.79 |  |
| 19/20                 | 152.47                       | 172.34 | 199.66 | 218.54 | 242.57 | 274.18 | 317.65 |  |
| 21/22                 | 152.47                       | 172.34 | 199.66 | 218.54 | 242.57 | 274.18 | 317.65 |  |
| 23/24                 | 152.79                       | 171.71 | 197.32 | 215.97 | 239.71 | 270.95 | 313.91 |  |
| 25/26                 | 152.79                       | 171.71 | 197.32 | 215.97 | 239.71 | 270.95 | 313.91 |  |
| 27/28                 | 152.47                       | 172.34 | 199.66 | 218.54 | 242.57 | 274.18 | 317.65 |  |
| 29/30                 | 152.47                       | 172.34 | 199.66 | 218.54 | 242.57 | 274.18 | 317.65 |  |
| 31/32                 | 152.79                       | 171.71 | 197.32 | 215.97 | 239.71 | 270.95 | 313.91 |  |
| 33/34                 | 153.90                       | 173.96 | 201.54 | 219.91 | 243.07 | 273.18 | 313.91 |  |
| 35/36                 | 154.22                       | 173.33 | 199.17 | 217.32 | 240.21 | 269.96 | 310.22 |  |

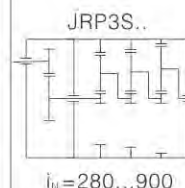


$i_N = 140 \dots 280^*)$

\*)传动比90...140, 请咨询杰牌

\*)Ratios 90...140 on request

| JRP3S..<br>规格<br>Size | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |        |        |        |        |        |        |  |
|-----------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                       | 280                          | 315    | 355    | 400    | 450    | 500    | 560    | 630    | 710    | 800    | 900    |  |
| 9                     | 295.21                       | 333.68 | 386.58 | 401.07 | 464.65 | 510.01 | 590.87 | 645.65 | 748.01 | 807.55 | 935.57 |  |
| 10                    | 295.21                       | 333.68 | 386.58 | 401.07 | 464.65 | 510.01 | 590.87 | 645.65 | 748.01 | 807.55 | 935.57 |  |
| 11                    | 295.82                       | 332.46 | 382.03 | 399.60 | 459.18 | 508.15 | 583.92 | 643.29 | 739.21 | 798.04 | 924.56 |  |
| 12                    | 285.62                       | 320.99 | 368.86 | 385.82 | 443.35 | 490.62 | 563.78 | 621.11 | 713.72 | 770.53 | 892.68 |  |
| 13                    | 287.42                       | 324.88 | 376.39 | 390.49 | 452.40 | 496.56 | 575.29 | 628.63 | 728.29 | 786.25 | 910.90 |  |
| 14                    | 287.42                       | 324.88 | 376.39 | 390.49 | 452.40 | 496.56 | 575.29 | 628.63 | 728.29 | 786.25 | 910.90 |  |
| 16                    | 268.53                       | 303.53 | 351.65 | 396.27 | 459.10 | 508.18 | 588.75 | 623.03 | 721.81 | 776.02 | 891.73 |  |
| 17                    | 268.53                       | 303.53 | 351.65 | 396.27 | 459.10 | 508.18 | 588.75 | 623.03 | 721.81 | 776.02 | 891.73 |  |
| 18                    | 283.53                       | 320.48 | 371.29 | 388.27 | 449.83 | 510.30 | 591.20 | 621.23 | 719.72 | 771.13 | 893.38 |  |
| 19/20                 | 302.43                       | 341.84 | 396.04 | 414.16 | 479.82 | 544.32 | 630.61 | 662.65 | 767.70 | 822.54 | 952.94 |  |
| 21/22                 | 302.43                       | 341.84 | 396.04 | 414.26 | 479.82 | 544.32 | 630.61 | 662.65 | 767.70 | 822.54 | 952.94 |  |
| 23/24                 | 295.28                       | 331.86 | 381.34 | 426.24 | 489.80 | 546.62 | 628.12 | 670.15 | 770.08 | 829.80 | 961.35 |  |
| 25/26                 | 295.28                       | 331.86 | 381.34 | 416.52 | 489.80 | 546.62 | 628.12 | 670.15 | 770.08 | 829.80 | 961.35 |  |
| 27/28                 | 296.01                       | 334.59 | 387.63 | 426.24 | 482.56 | 545.35 | 631.81 | 662.65 | 767.70 | 822.54 | 952.94 |  |
| 29/30                 | 296.01                       | 334.59 | 387.63 | 416.52 | 482.56 | 545.35 | 631.81 | 662.65 | 767.70 | 822.54 | 952.94 |  |
| 31/32                 | 300.72                       | 337.97 | 388.37 | 426.24 | 489.80 | 546.61 | 628.12 | 670.15 | 770.08 | 827.92 | 959.17 |  |
| 33/34                 | 292.05                       | 330.11 | 382.45 | 417.18 | 483.31 | 535.90 | 620.86 | 657.74 | 762.02 | 819.53 | 941.73 |  |
| 35/36                 | 292.66                       | 328.90 | 377.95 | 415.65 | 477.63 | 533.94 | 613.55 | 655.34 | 753.05 | 809.89 | 930.65 |  |

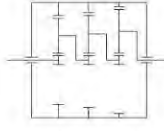


$i_N = 280 \dots 900$

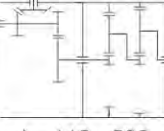


类型 JRP2L...JRP2K...和JRP3K...

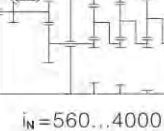
Types JRP2L...JRP2K...and JRP3K...

| <br>JRP2L...<br>规格<br>Size<br><br>$i_N = 31.5 \dots 100$ | 实际传动比 / Actual ratios<br>$i$ |         |         |         |         |         |         |         |         |         |          |       |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|
|                                                                                                                                           | 31.5                         | 35.5    | 40      | 45      | 50      | 56      | 63      | 71      | 80      | 90      | 100      |       |
|                                                                                                                                           | 9                            | 10      | 11      | 12      | 13      | 14      | 16      | 17      | 18      | 19/20   | 21/22    | 23/24 |
|                                                                                                                                           | 32.5353                      | 35.6114 | 39.5264 | 43.8820 | 50.4204 | 55.7278 | 60.4521 | 69.6115 | 79.0528 | 86.2394 | 98.2171  |       |
|                                                                                                                                           | 32.5353                      | 35.6114 | 39.5264 | 43.8820 | 50.4204 | 55.7278 | 60.4521 | 69.6115 | 79.0528 | 86.2394 | 98.2171  |       |
|                                                                                                                                           | 32.8413                      | 35.8344 | 39.6083 | 43.4177 | 50.5248 | 55.8432 | 60.5773 | 69.7557 | 79.9667 | 86.4180 | 98.4205  |       |
|                                                                                                                                           | 31.7089                      | 34.5987 | 38.2424 | 41.9206 | 48.7826 | 53.9176 | 58.4884 | 67.3503 | 77.2092 | 83.4380 | 95.0266  |       |
|                                                                                                                                           | 31.6775                      | 34.6723 | 38.4842 | 42.1856 | 49.0910 | 54.2585 | 62.3263 | 67.7761 | 77.6973 | 83.9656 | 95.6275  |       |
|                                                                                                                                           | 31.6775                      | 34.6723 | 38.4842 | 42.1856 | 49.0910 | 54.2585 | 62.3263 | 67.7761 | 77.6973 | 83.9656 | 95.6275  |       |
|                                                                                                                                           | 31.4135                      | 34.3835 | 38.1635 | 41.8340 | 48.6818 | 53.8063 | 61.8069 | 67.2113 | 77.0498 | 83.2658 | 94.8305  |       |
|                                                                                                                                           | 31.4135                      | 34.3835 | 38.1635 | 41.8340 | 48.6818 | 53.8063 | 61.8069 | 67.2113 | 77.0498 | 83.2658 | 94.8305  |       |
|                                                                                                                                           | 31.4286                      | 34.3999 | 38.1819 | 43.1490 | 49.0910 | 54.8664 | 62.3263 | 67.7761 | 77.6973 | 83.9656 | 95.6275  |       |
|                                                                                                                                           | 33.5237                      | 34.6933 | 40.7272 | 46.0254 | 52.3636 | 58.5240 | 66.4812 | 72.2943 | 82.8769 | 89.5630 | 102.0023 |       |
|                                                                                                                                           | 33.5237                      | 34.6933 | 40.7272 | 46.0254 | 52.3636 | 58.5240 | 66.4812 | 72.2943 | 82.8769 | 89.5630 | 102.0023 |       |
|                                                                                                                                           | 33.8391                      | 34.9231 | 40.8116 | 46.1208 | 52.4720 | 58.6452 | 66.6189 | 72.4441 | 83.0486 | 89.7486 | 102.2136 |       |
|                                                                                                                                           | 33.8391                      | 34.9231 | 40.8116 | 46.1208 | 52.1365 | 58.6452 | 66.6189 | 72.4441 | 83.0486 | 89.7486 | 102.2136 |       |
|                                                                                                                                           | 33.5237                      | 36.6933 | 40.7272 | 46.0254 | 52.0288 | 58.5240 | 66.4812 | 72.2943 | 82.8769 | 89.5630 | 102.0023 |       |
|                                                                                                                                           | 33.5237                      | 36.6933 | 40.7272 | 46.0254 | 52.0288 | 58.5240 | 66.4812 | 72.2943 | 82.8769 | 89.5630 | 102.0023 |       |

| <br>JRP2K...<br>规格<br>Size<br><br>$i_N = 112 \dots 500$ | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                                                                            | 112                          | 125    | 140    | 160    | 180    | 200    | 225    | 250    | 280    | 320    | 360    | 400    | 450    | 500    |
|                                                                                                                                            | 9                            | 10     | 11     | 12     | 13     | 14     | 16     | 17     | 18     | 19/20  |        |        |        |        |
|                                                                                                                                            | 111.25                       | 125.75 | 145.69 | 157.28 | 175.77 | 203.53 | 223.22 | 242.15 | 278.84 | 316.65 | 345.44 | 393.42 | 442.27 | 487.63 |
|                                                                                                                                            | 111.25                       | 125.75 | 145.69 | 157.28 | 175.77 | 203.53 | 223.22 | 242.15 | 278.84 | 316.65 | 345.44 | 393.42 | 442.27 | 487.63 |
|                                                                                                                                            | 111.83                       | 125.68 | 144.42 | 155.27 | 173.52 | 200.92 | 220.36 | 239.04 | 275.26 | 312.60 | 341.01 | 388.38 | 436.60 | 481.38 |
|                                                                                                                                            | 107.97                       | 121.35 | 139.44 | 149.91 | 167.54 | 193.99 | 212.76 | 230.80 | 265.77 | 301.82 | 329.25 | 374.98 | 421.54 | 464.78 |
|                                                                                                                                            | 107.97                       | 121.80 | 141.11 | 151.19 | 167.85 | 192.86 | 213.16 | 231.23 | 266.26 | 302.38 | 329.86 | 375.68 | 422.33 | 465.64 |
|                                                                                                                                            | 107.76                       | 121.80 | 141.11 | 151.19 | 167.85 | 192.86 | 213.16 | 231.23 | 266.26 | 302.38 | 329.86 | 375.68 | 422.33 | 465.64 |
|                                                                                                                                            | 108.47                       | 122.60 | 142.04 | 153.05 | 167.77 | 195.23 | 215.79 | 234.08 | 269.55 | 309.00 | 333.93 | 380.31 | 427.53 | 471.38 |
|                                                                                                                                            | 108.47                       | 122.60 | 142.04 | 153.05 | 167.77 | 195.23 | 215.79 | 234.08 | 269.55 | 309.00 | 333.93 | 380.31 | 427.53 | 471.38 |
|                                                                                                                                            | 107.76                       | 121.80 | 141.11 | 151.19 | 165.73 | 192.86 | 213.16 | 244.85 | 266.26 | 305.24 | 329.86 | 375.68 | 422.33 | 465.64 |
|                                                                                                                                            | 114.94                       | 129.92 | 150.52 | 161.27 | 176.78 | 205.71 | 227.37 | 261.18 | 284.01 | 325.59 | 351.86 | 400.72 | 450.48 | 496.68 |

| <br>JRP3K...<br>规格<br>Size<br><br>$i_N = 560 \dots 4000$ | 实际传动比 / Actual ratios<br>$i$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                                                                             | 560                          | 630    | 710    | 800    | 900    | 1000   | 1120   | 1250   | 1400   | 1600   | 1800   | 2000   | 2240   | 2500   | 2800   | 3150   | 3550   | 4000   |
|                                                                                                                                             | 9                            | 10     | 11     | 12     | 13     | 14     | 16     | 17     | 18     | 19/20  | 21/22  | 23/24  | 25/26  | 27/28  | 29/30  |        |        |        |
|                                                                                                                                             | 566.22                       | 640.02 | 700.53 | 777.54 | 878.88 | 982.19 | 1137.3 | 1247.3 | 1353.1 | 1558.1 | 1769.4 | 1930.3 | 2198.4 | 2471.3 | 2724.8 | 3105.0 | 3597.2 | 4167.5 |
|                                                                                                                                             | 566.22                       | 640.02 | 700.53 | 777.54 | 878.88 | 982.19 | 1137.3 | 1247.3 | 1353.1 | 1558.1 | 1769.4 | 1930.3 | 2198.4 | 2471.3 | 2724.8 | 3104.9 | 3597.2 | 4167.5 |
|                                                                                                                                             | 567.40                       | 637.68 | 697.96 | 774.70 | 875.66 | 978.60 | 1133.1 | 1242.8 | 1348.1 | 1552.4 | 1762.9 | 1923.2 | 2190.3 | 2462.3 | 2714.8 | 3093.6 | 3584.1 | 4118.5 |
|                                                                                                                                             | 547.83                       | 615.69 | 673.90 | 747.98 | 845.46 | 944.85 | 1094.0 | 1199.9 | 1301.6 | 1498.9 | 1702.1 | 1856.9 | 2114.8 | 2377.4 | 2621.2 | 2986.9 | 3460.5 | 3976.5 |
|                                                                                                                                             | 551.29                       | 623.14 | 682.06 | 757.04 | 855.70 | 956.30 | 1107.3 | 1214.4 | 1317.4 | 1517.0 | 1722.8 | 1879.4 | 2140.4 | 2406.1 | 2652.9 | 3023.1 | 3502.4 | 4057.6 |
|                                                                                                                                             | 551.29                       | 623.14 | 682.06 | 757.04 | 855.70 | 956.30 | 1107.3 | 1214.4 | 1317.4 | 1517.0 | 1722.8 | 1879.4 | 2140.4 | 2406.1 | 2652.9 | 3023.1 | 3502.4 | 4057.6 |
|                                                                                                                                             | 551.25                       | 623.09 | 679.88 | 751.48 | 844.56 | 943.84 | 1092.9 | 1198.6 | 1300.2 | 1497.3 | 1700.3 | 1854.9 | 2112.5 | 2374.8 | 2618.4 | 2983.8 | 3428.7 | 3972.2 |
|                                                                                                                                             | 551.25                       | 623.09 | 679.88 | 751.48 | 844.56 | 943.84 | 1092.9 | 1198.6 | 1300.2 | 1497.3 | 1700.3 | 1854.9 | 2112.5 | 2374.8 | 2618.4 | 2983.8 | 3428.7 | 3972.2 |
|                                                                                                                                             | 544.28                       | 615.21 | 673.37 | 747.40 | 844.81 | 937.90 | 1077.6 | 1191.1 | 1292.1 | 1487.8 | 1689.6 | 1843.2 | 2099.2 | 2359.9 | 2601.9 | 2965.0 | 3435.0 | 3979.6 |
|                                                                                                                                             | 580.56                       | 656.22 | 718.27 | 797.23 | 901.13 | 1000.4 | 1149.5 | 1270.5 | 1378.2 | 1587.0 | 1802.3 | 1966.1 | 2239.2 | 2517.2 | 2775.4 | 3162.6 | 3664.0 | 4244.9 |
|                                                                                                                                             | 580.56                       | 656.22 | 718.27 | 797.23 | 901.13 | 1000.4 | 1149.5 | 1270.5 | 1378.2 | 1587.0 | 1802.3 | 1966.1 | 2239.2 | 2517.2 | 2775.4 | 3162.6 | 3664.0 | 4244.9 |
|                                                                                                                                             | 593.88                       | 667.44 | 730.55 | 810.87 | 916.54 | 1004.7 | 1169.1 | 1292.2 | 1401.8 | 1614.2 | 1850.4 | 1999.7 | 2277.5 | 2560.2 | 2822.8 | 3216.7 | 3726.7 | 4282.4 |
|                                                                                                                                             | 593.88                       | 667.44 | 730.55 | 810.87 | 916.54 | 1004.7 | 1169.1 | 1292.2 | 1401.8 | 1614.2 | 1850.4 | 1999.7 | 2277.5 | 2560.2 | 2822.8 | 3216.7 | 3726.7 | 4282.4 |
|                                                                                                                                             | 580.56                       | 656.22 | 718.27 | 797.23 | 901.13 | 987.8  | 1149.5 | 1270.5 | 1459.4 | 1587.0 | 1819.3 | 1966.1 | 2239.2 | 2517.2 | 2775.4 | 3162.6 | 3664.0 | 4244.9 |
|                                                                                                                                             | 580.56                       | 656.22 | 718.27 | 797.23 | 901.13 | 987.8  | 1149.5 | 1270.5 | 1459.4 | 1587.0 | 1819.3 | 1966.1 | 2239.2 | 2517.2 | 2775.4 | 3162.6 | 3664.0 | 4244.9 |

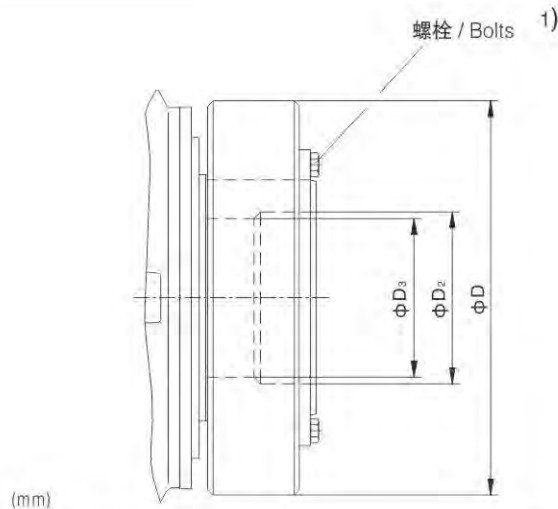
## 7. 输出轴形式 Variants of Output Shafts

带锁紧盘的空心输出轴

Hollow Shaft for Shrink Disk



JRP..A  
型式 / Variant: A



尺寸和重量 / Dimensions and weights

| 行星齿轮箱<br>Planetary gear unit | 额定输出扭矩<br>Nominal Output Torques<br>$T_{2N}$<br>(Nm) | 空心输出轴孔径<br>Hollow shaft bore diameter<br>(mm) |                | 锁紧盘 / Shrink disc  |           |                   |                      |
|------------------------------|------------------------------------------------------|-----------------------------------------------|----------------|--------------------|-----------|-------------------|----------------------|
|                              |                                                      |                                               |                | 规格<br>Size<br>(mm) | D<br>(mm) | 螺栓<br>Bolts<br>1) | 重量<br>Weight<br>(kg) |
|                              |                                                      | D <sub>2</sub>                                | D <sub>3</sub> |                    |           |                   |                      |
| 9                            | 22000                                                | 120H7                                         | 115H7          | 155                | 263       | M14               | 15.2                 |
| 10                           | 31000                                                | 130H7                                         | 125H7          | 165                | 290       | M16               | 21.5                 |
| 11                           | 42000                                                | 140H7                                         | 135H7          | 185                | 320       | M16               | 32.7                 |
| 12                           | 60000                                                | 160H7                                         | 155H7          | 220                | 370       | M20               | 53                   |
| 13                           | 83000                                                | 180H7                                         | 175H7          | 240                | 405       | M20               | 66                   |
| 14                           | 117000                                               | 210H7                                         | 205H7          | 280                | 460       | M20               | 103                  |
| 16                           | 160000                                               | 230H7                                         | 225H7          | 300                | 485       | M24               | 120                  |
| 17                           | 202000                                               | 250H7                                         | 245H7          | 320                | 520       | M24               | 138                  |
| 18                           | 244000                                               | 260H7                                         | 255H7          | 340                | 570       | M24               | 189                  |
| 19                           | 295000                                               | 280H7                                         | 275H7          | 360                | 590       | M24               | 207                  |
| 20                           | 354000                                               | 300H7                                         | 295H7          | 380                | 640       | M27               | 244                  |
| 21                           | 392000                                               | 310H7                                         | 305H7          | 390                | 650       | M27               | 249                  |
| 22                           | 450000                                               | 330H7                                         | 325H7          | 420                | 670       | M27               | 285                  |
| 23                           | 513000                                               | 350H7                                         | 345H7          | 440                | 720       | M27               | 357                  |
| 24                           | 592000                                               | 360H7                                         | 355H7          | 460                | 760       | M27               | 402                  |
| 25                           | 684000                                               | 380H7                                         | 375H7          | 480                | 800       | M30               | 492                  |
| 26                           | 763000                                               | 400H7                                         | 395H7          | 500                | 835       | M30               | 537                  |
| 27                           | 852000                                               | 430H7                                         | 425H7          | 530                | 865       | M30               | 636                  |
| 28                           | 950000                                               | 450H7                                         | 445H7          | 560                | 920       | M30               | 725                  |
| 29                           | 1060000                                              | 460H7                                         | 450H7          | 560                | 920       | M30               | 725                  |
| 30                           | 1200000                                              | 480H7                                         | 470H7          | 590                | 960       | M30               | 835                  |
| 31                           | 1330000                                              | 480H7                                         | 470H7          | 590                | 960       | M30               | 835                  |
| 32                           | 1500000                                              | 510H7                                         | 500H7          | 620                | 970       | M30               | 903                  |
| 33                           | 1680000                                              | 530H7                                         | 520H7          | 660                | 1040      | M33               | 1073                 |
| 34                           | 1920000                                              | 570H7                                         | 560H7          | 700                | 1100      | M33               | 1196                 |
| 35                           | 2240000                                              | 600H7                                         | 590H7          | 750                | 1150      | M33               | 1346                 |
| 36                           | 2600000                                              | 640H7                                         | 630H7          | 800                | 1230      | M33               | 1646                 |

1) 安装和拆卸见操作说明书

1) For assembly and disassembly, see operating instructions

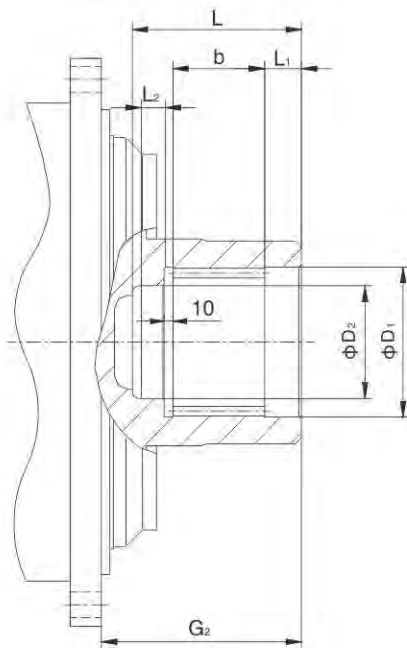


带渐开线花键的空心输出轴

Hollow Shaft with Involute Spline

JRP..C

型式 / Variant: C

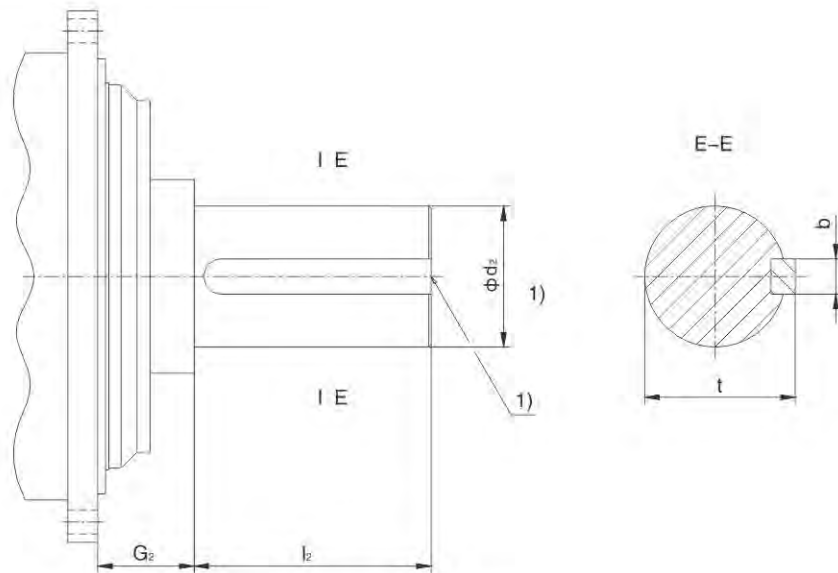


| 尺寸 / Dimensions              |                                  |                                                       |                 |                               |                        |                               |                        |                         |                        |
|------------------------------|----------------------------------|-------------------------------------------------------|-----------------|-------------------------------|------------------------|-------------------------------|------------------------|-------------------------|------------------------|
| 行星齿轮箱<br>Planetary gear unit | 额定输出扭矩<br>Nominal Output Torques | 渐开线花键按照标准 DIN 5480<br>Involute splines acc to DIN5480 | 键长<br>Facewidth | 孔1尺寸<br>Centre hole dimension |                        | 孔2尺寸<br>Centre hole dimension |                        | 总长<br>Overall dimension | G <sub>2</sub><br>(mm) |
| 规格<br>Size                   | T <sub>2N</sub><br>(Nm)          |                                                       | b<br>(mm)       | D <sub>1</sub><br>(mm)        | L <sub>1</sub><br>(mm) | D <sub>2</sub><br>(mm)        | L <sub>2</sub><br>(mm) | L<br>(mm)               |                        |
| 9                            | 22000                            | N120x5x30x22x9H                                       | 70              | 122H7                         | 40                     | 107H7                         | 20                     | 150                     | 165                    |
| 10                           | 31000                            | N130x5x30x24x9H                                       | 80              | 132H7                         | 40                     | 117H7                         | 20                     | 160                     | 174                    |
| 11                           | 42000                            | N140x5x30x26x9H                                       | 90              | 142H7                         | 45                     | 125H7                         | 25                     | 180                     | 204                    |
| 12                           | 60000                            | N160x5x30x30x9H                                       | 100             | 162H7                         | 45                     | 145H7                         | 25                     | 190                     | 223                    |
| 13                           | 83000                            | N180x5x30x34x9H                                       | 110             | 182H7                         | 45                     | 165H7                         | 25                     | 200                     | 237                    |
| 14                           | 117000                           | N210x5x30x40x9H                                       | 125             | 212H7                         | 45                     | 195H7                         | 25                     | 215                     | 264                    |
| 16                           | 160000                           | N240x8x30x28x9H                                       | 140             | 242H7                         | 50                     | 220H7                         | 25                     | 235                     | 285                    |
| 17                           | 202000                           | N250x8x30x30x9H                                       | 150             | 252H7                         | 50                     | 230H7                         | 30                     | 250                     | 290                    |
| 18                           | 244000                           | N260x8x30x31x9H                                       | 160             | 262H7                         | 50                     | 240H7                         | 30                     | 260                     | 303                    |
| 19                           | 295000                           | N280x8x30x34x9H                                       | 170             | 282H7                         | 50                     | 260H7                         | 30                     | 270                     | 327.5                  |
| 20                           | 354000                           | N300x8x30x36x9H                                       | 180             | 302H7                         | 50                     | 282H7                         | 30                     | 280                     | 327.5                  |
| 21                           | 392000                           | N310x8x30x37x9H                                       | 190             | 312H7                         | 60                     | 290H7                         | 40                     | 310                     | 354                    |
| 22                           | 450000                           | N330x8x30x40x9H                                       | 200             | 332H7                         | 60                     | 310H7                         | 40                     | 320                     | 354                    |
| 23                           | 513000                           | N340x8x30x41x9H                                       | 200             | 342H7                         | 60                     | 320H7                         | 40                     | 320                     | 348                    |
| 24                           | 592000                           | N360x8x30x44x9H                                       | 220             | 362H7                         | 60                     | 340H7                         | 40                     | 340                     | 368                    |
| 25                           | 684000                           | N380x8x30x46x9H                                       | 230             | 382H7                         | 60                     | 360H7                         | 40                     | 350                     | 372                    |
| 26                           | 763000                           | N400x8x30x48x9H                                       | 240             | 402H7                         | 60                     | 380H7                         | 40                     | 360                     | 382                    |
| 27                           | 852000                           | N440x8x30x54x9H                                       | 250             | 442H7                         | 60                     | 420H7                         | 40                     | 370                     | 423                    |
| 28                           | 950000                           | N450x8x30x55x9H                                       | 260             | 452H7                         | 65                     | 430H7                         | 40                     | 385                     | 428                    |
| 29                           | 1060000                          | N460x8x30x56x9H                                       | 270             | 462H7                         | 65                     | 440H7                         | 45                     | 400                     | 433                    |
| 30                           | 1200000                          | N480x8x30x58x9H                                       | 285             | 482H7                         | 65                     | 460H7                         | 45                     | 415                     | 448                    |

带平键的实心输出轴  
Solid Shaft with Parallel key



JRP..B  
型式 / Variant: B



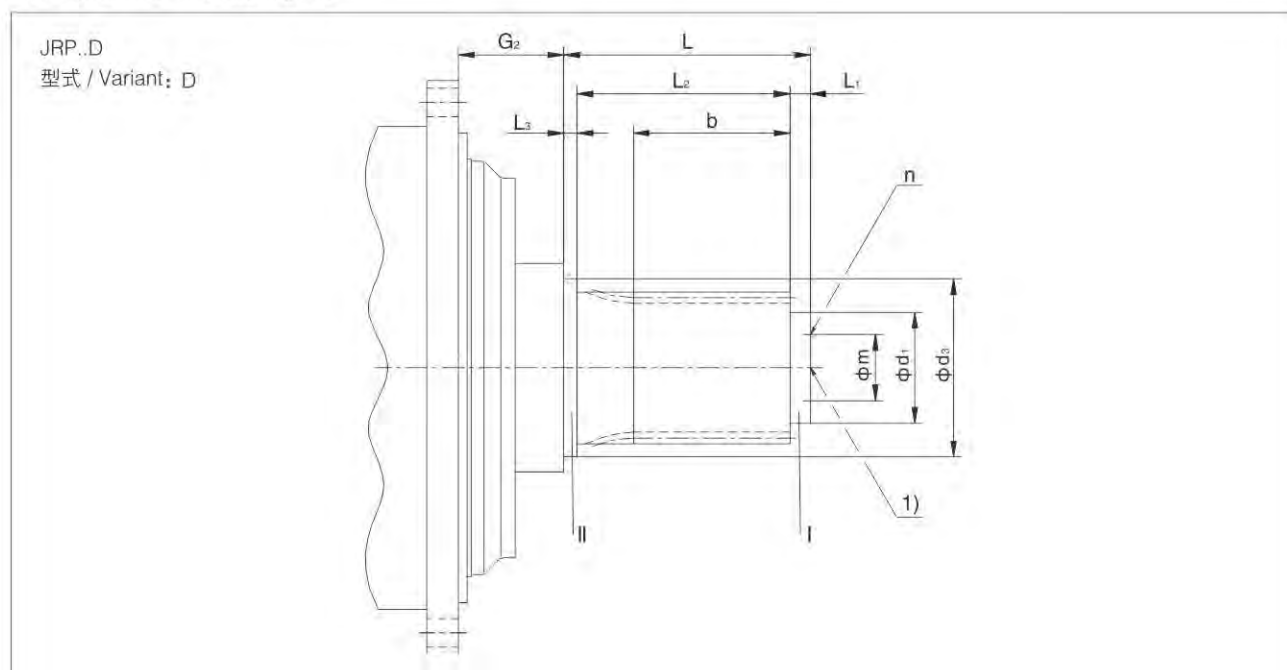
尺寸 / Dimensions

| 行星齿轮箱<br>Planetary gear unit<br>规格<br>Size | 额定输出扭矩<br>Nominal Output Torques<br>$T_{2N}$<br>(Nm) | 实心输出轴(mm)<br>Solid shaft (mm) |       |       |                             |     |
|--------------------------------------------|------------------------------------------------------|-------------------------------|-------|-------|-----------------------------|-----|
|                                            |                                                      | $d_2$                         | $l_2$ | $G_2$ | b                           | t   |
| 9                                          | 22000                                                | 120 n6                        | 210   | 95    | 32                          | 127 |
| 10                                         | 31000                                                | 130 n6                        | 210   | 95    | 32                          | 137 |
| 11                                         | 42000                                                | 150 n6                        | 240   | 109   | 36                          | 158 |
| 12                                         | 60000                                                | 160 n6                        | 270   | 106   | 40                          | 169 |
| 13                                         | 83000                                                | 180 n6                        | 310   | 118   | 45                          | 190 |
| 14                                         | 117000                                               | 210 n6                        | 350   | 139   | 50                          | 221 |
| 16                                         | 160000                                               | 230 n6                        | 350   | 142   | 50                          | 241 |
| 17                                         | 202000                                               | 250 n6                        | 400   | 139   | 56                          | 262 |
| 18                                         | 244000                                               | 260 n6                        | 400   | 134   | 56                          | 272 |
| 19                                         | 295000                                               | 280 n6                        | 450   | 148.5 | 63                          | 292 |
| 20                                         | 354000                                               | 300 n6                        | 500   | 148.5 | 70                          | 314 |
| 21                                         | 392000                                               | 310 n6                        | 500   | 158   | 70                          | 324 |
| 22                                         | 450000                                               | 330 n6                        | 500   | 158   | 70                          | 344 |
| 23                                         | 513000                                               | 350 n6                        | 550   | 175   | 80                          | 365 |
| 24                                         | 592000                                               | 360 n6                        | 590   | 175   | 80                          | 375 |
| 25                                         | 684000                                               | 380 n6                        | 590   | 182   | 80                          | 395 |
| 26                                         | 763000                                               | 400 n6                        | 650   | 182   | 90                          | 417 |
| 27                                         | 852000                                               | 430 n6                        | 690   | 196.5 | 90                          | 447 |
| 28                                         | 950000                                               | 450 n6                        | 750   | 196.5 | 100                         | 469 |
| 29                                         | 1060000                                              | 460 n6                        | 750   | 209   | 100                         | 479 |
| 30                                         | 1200000                                              | 480 n6                        | 790   | 209   | 100                         | 499 |
| 31                                         | 1330000                                              | 500 n6                        | 790   | 232   | 100                         | 519 |
| 32                                         | 1500000                                              | 510 n6                        | 850   | 232   | 请咨询杰牌<br>Please consult JIE |     |
| 33                                         | 1680000                                              | 530 n6                        | 900   | 251   |                             |     |
| 34                                         | 1920000                                              | 570 n6                        | 950   | 251   |                             |     |
| 35                                         | 2240000                                              | 600 n6                        | 1000  | 276   |                             |     |
| 36                                         | 2600000                                              | 640 n6                        | 1000  | 276   |                             |     |

1)带中心孔的轴伸见第96页

1)For shaft end with centre hole , see page 96

带渐开线花键的实心输出轴  
Solid Shaft with Involute Spline



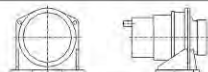
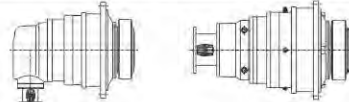
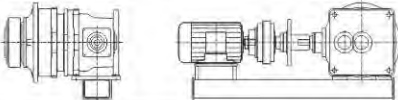
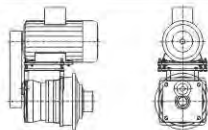
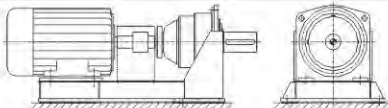
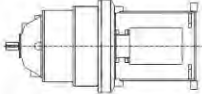
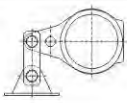
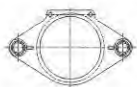
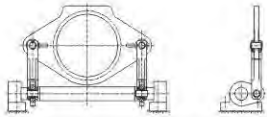
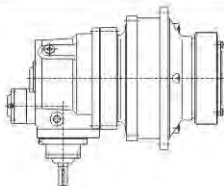
| 尺寸 / Dimensions              |                                  |                                                             |                   |                              |                        |                                |                        |                        |                        |                        |                        |          |
|------------------------------|----------------------------------|-------------------------------------------------------------|-------------------|------------------------------|------------------------|--------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------|
| 行星齿轮箱<br>Planetary gear unit | 额定输出扭矩<br>Nominal Output Torques | 渐开线花键按照标准<br>DIN 5480<br>Involute splines acc to<br>DIN5480 | 有效键长<br>Facewidth | 轴颈 I 尺寸<br>Shaft I dimension |                        | 轴颈 II 尺寸<br>Shaft II dimension |                        |                        |                        |                        |                        | n        |
| 规格<br>Size                   | T <sub>2N</sub><br>(Nm)          |                                                             | b<br>(mm)         | G <sub>2</sub><br>(mm)       | d <sub>1</sub><br>(mm) | L <sub>1</sub><br>(mm)         | d <sub>2</sub><br>(mm) | L <sub>2</sub><br>(mm) | L <sub>3</sub><br>(mm) | L <sub>2</sub><br>(mm) | L <sub>1</sub><br>(mm) |          |
| 9                            | 22000                            | W130x5x30x24x8m                                             | 70                | 95                           | 110k6                  | 20                             | 132k6                  | 20                     | 80                     | 120                    | 80                     | 3xM16x24 |
| 10                           | 31000                            | W140x5x30x26x8m                                             | 80                | 95                           | 120k6                  | 20                             | 142k6                  | 20                     | 90                     | 130                    | 90                     | 3xM16x24 |
| 11                           | 42000                            | W160x5x30x30x8m                                             | 90                | 109                          | 140k6                  | 25                             | 162k6                  | 25                     | 100                    | 150                    | 110                    | 3xM16x24 |
| 12                           | 60000                            | W180x5x30x34x8m                                             | 100               | 106                          | 90k6                   | 25                             | 182k6                  | 25                     | 110                    | 160                    | 130                    | 3xM16x24 |
| 13                           | 83000                            | W200x5x30x38x8m                                             | 110               | 118                          | 100k6                  | 30                             | 202k6                  | 25                     | 120                    | 175                    | 140                    | 3xM16x24 |
| 14                           | 117000                           | W220x5x30x42x8m                                             | 125               | 139                          | 120k6                  | 30                             | 222k6                  | 30                     | 135                    | 195                    | 160                    | 3xM16x24 |
| 16                           | 160000                           | W250x8x30x30x8m                                             | 140               | 142                          | 140k6                  | 35                             | 252k6                  | 30                     | 155                    | 220                    | 185                    | 3xM20x30 |
| 17                           | 202000                           | W260x8x30x31x8m                                             | 150               | 139                          | 155k6                  | 40                             | 262k6                  | 35                     | 165                    | 240                    | 200                    | 3xM20x30 |
| 18                           | 244000                           | W280x8x30x34x8m                                             | 160               | 134                          | 170k6                  | 40                             | 282k6                  | 35                     | 175                    | 250                    | 215                    | 3xM20x30 |
| 19                           | 295000                           | W300x8x30x36x8m                                             | 170               | 148.5                        | 180k6                  | 40                             | 302k6                  | 35                     | 185                    | 260                    | 225                    | 3xM20x30 |
| 20                           | 354000                           | W310x8x30x37x8m                                             | 180               | 148.5                        | 190k6                  | 40                             | 312k6                  | 35                     | 195                    | 270                    | 235                    | 6xM20x30 |
| 21                           | 392000                           | W320x8x30x38x8m                                             | 190               | 158                          | 200k6                  | 40                             | 322k6                  | 35                     | 205                    | 280                    | 250                    | 6xM20x30 |
| 22                           | 450000                           | W340x8x30x41x8m                                             | 200               | 158                          | 210k6                  | 40                             | 342k6                  | 35                     | 215                    | 290                    | 265                    | 6xM20x30 |
| 23                           | 513000                           | W360x8x30x44x8m                                             | 200               | 175                          | 230k6                  | 40                             | 362k6                  | 35                     | 215                    | 290                    | 275                    | 6xM20x30 |
| 24                           | 592000                           | W380x8x30x46x8m                                             | 220               | 175                          | 245k6                  | 40                             | 382k6                  | 35                     | 235                    | 310                    | 290                    | 6xM20x30 |
| 25                           | 684000                           | W400x8x30x48x8m                                             | 230               | 182                          | 260k6                  | 40                             | 402k6                  | 35                     | 245                    | 320                    | 310                    | 6xM24x36 |
| 26                           | 763000                           | W420x8x30x51x8m                                             | 240               | 182                          | 280k6                  | 40                             | 422k6                  | 35                     | 255                    | 330                    | 330                    | 6xM24x36 |
| 27                           | 852000                           | W440x8x30x54x8m                                             | 250               | 196.5                        | 310k6                  | 40                             | 442k6                  | 35                     | 265                    | 340                    | 370                    | 6xM24x36 |
| 28                           | 950000                           | W450x8x30x55x8m                                             | 260               | 196.5                        | 330k6                  | 45                             | 452k6                  | 40                     | 275                    | 360                    | 380                    | 6xM24x36 |
| 29                           | 1060000                          | W460x8x30x56x8m                                             | 270               | 209                          | 340k6                  | 45                             | 462k6                  | 40                     | 285                    | 370                    | 390                    | 6xM24x36 |
| 30                           | 1200000                          | W480x8x30x58x8m                                             | 285               | 209                          | 360k6                  | 45                             | 482k6                  | 40                     | 300                    | 385                    | 410                    | 6xM24x36 |

1)带中心孔的轴伸见第96页

1)For shaft end with centre hole, see page 96

## 8. 产品附件 Add-on Pieces

附件表 Table of Add-on Pieces

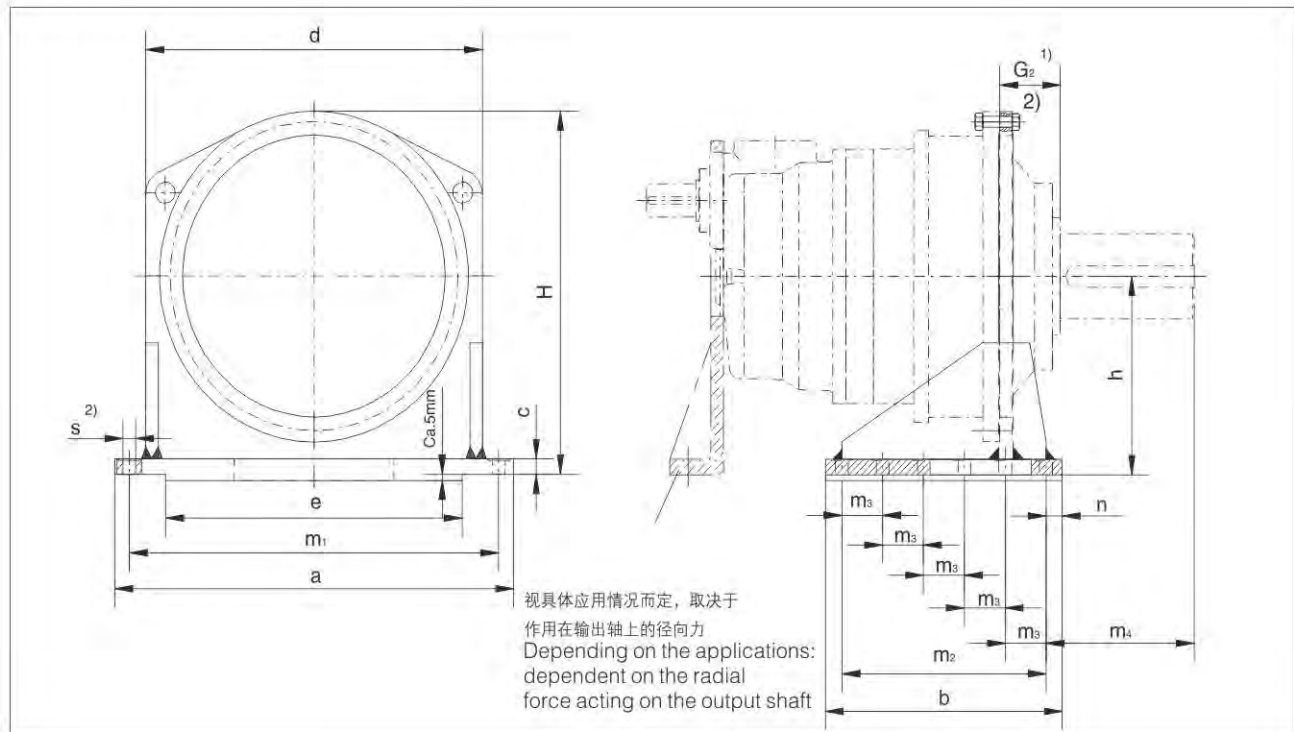
| 标记<br>Identific Cation | 附件<br>Add-on Piece                                                      |                                | 附图<br>Representation                                                                  |
|------------------------|-------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|
| 00                     | 无附件 / Without add-on Piece                                              |                                |                                                                                       |
| 01                     | 齿轮箱基座<br>Gear housing base                                              | 见第105页<br>see page 105         |    |
| 70 1)                  | 电机安装法兰 (输入端)<br>Motor bell housing (input)                              | 见第111-116页<br>see page 111-116 |    |
| 71 1)                  | 电机支架 (电动机, 联轴器)<br>Motor bracket(motor,coupling)                        | 见第109页<br>see page 109         |    |
| 72                     | 电机支架<br>Motor bracket                                                   | 见第109页<br>see page 109         |    |
| 73 1)                  | 电机浮动底座 (电动机, 联轴器, 齿轮箱)<br>Motor floating base(motor,coupling,gear unit) | 见第109页<br>see page 109         |   |
| 74 1)                  | 安装法兰 (输出端)<br>Tlange mounting(output)                                   | 请咨询杰牌<br>Please consult JIE    |  |
| 75                     | (单侧)扭矩臂<br>Torque arm(singheside)                                       | 见第106页<br>see page 106         |  |
| 76                     | (双侧)扭矩臂<br>Torque arm(two sides)                                        | 见第107页<br>see page 107         |  |
| 77                     | 扭力轴支撑<br>Torsion shaft support                                          | 见第108页<br>see page 108         |  |
| 78                     | 逆止器 (JRP2K../JRP3K..<br>Backstop ( JRP2K../JRP3K.. )                    | 请咨询杰牌<br>Please consult JIE    |  |
| 79                     | 特殊设计<br>Special design                                                  | 请咨询杰牌<br>Please consult JIE    |                                                                                       |

1)不能应用刚性联轴器

1)Not for rigid couplings

附件：齿轮箱基座

Add-on Piece: Gear Housing Base



| 尺寸 / Dimensions              |                          |      |      |      |      |      |      |                |                |                |                |      |                              |               |      |
|------------------------------|--------------------------|------|------|------|------|------|------|----------------|----------------|----------------|----------------|------|------------------------------|---------------|------|
| 行星齿轮箱<br>Planetary gear unit | a                        | b    | c    | d    | e    | h    | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | m <sub>4</sub> | n    | 地脚螺栓<br>Foundation bolt      | 重量<br>Weight  |      |
| 规格<br>Size                   | (mm)                     | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm)           | (mm)           | (mm)           | (mm)           | (mm) | s <sup>2)</sup><br>数量<br>No. | 约/ca.<br>(kg) |      |
| 9                            | 580                      | 330  | 20   | 450  | 380  | 260  | 480  | 520            | 260            | 130            | 240            | 35   | 26                           | 2x3           | 56   |
| 10                           | 630                      | 360  | 25   | 500  | 430  | 280  | 525  | 570            | 290            | 145            | 240            | 35   | 26                           | 2x3           | 82   |
| 11                           | 680                      | 400  | 30   | 550  | 480  | 315  | 585  | 620            | 330            | 110            | 274            | 35   | 26                           | 2x4           | 122  |
| 12                           | 760                      | 450  | 30   | 630  | 560  | 360  | 670  | 700            | 380            | 95             | 292            | 35   | 26                           | 2x5           | 157  |
| 13                           | 820                      | 490  | 35   | 680  | 610  | 390  | 720  | 750            | 420            | 105            | 334            | 35   | 26                           | 2x5           | 213  |
| 14                           | 920                      | 560  | 35   | 760  | 680  | 430  | 800  | 840            | 480            | 120            | 380            | 40   | 33                           | 2x5           | 270  |
| 16                           | 980                      | 580  | 40   | 820  | 700  | 470  | 865  | 900            | 500            | 125            | 374            | 40   | 33                           | 2x5           | 350  |
| 17                           | 1130                     | 670  | 45   | 940  | 810  | 540  | 998  | 1040           | 580            | 145            | 405            | 45   | 39                           | 2x5           | 520  |
| 18                           | 1180                     | 720  | 45   | 980  | 830  | 560  | 1035 | 1080           | 620            | 155            | 385            | 50   | 39                           | 2x5           | 580  |
| 19                           | 1260                     | 760  | 50   | 1050 | 880  | 590  | 1090 | 1160           | 640            | 160            | 450            | 60   | 45                           | 2x5           | 720  |
| 20                           | 1260                     | 760  | 50   | 1050 | 880  | 590  | 1090 | 1160           | 640            | 160            | 500            | 60   | 45                           | 2x5           | 720  |
| 21                           | 1440                     | 840  | 55   | 1170 | 1020 | 660  | 1228 | 1320           | 700            | 175            | 513            | 70   | 52                           | 2x5           | 940  |
| 22                           | 1440                     | 840  | 55   | 1170 | 1020 | 660  | 1228 | 1320           | 700            | 175            | 513            | 70   | 52                           | 2x5           | 940  |
| 23                           | 1540                     | 910  | 60   | 1270 | 1100 | 730  | 1345 | 1420           | 750            | 150            | 567            | 80   | 52                           | 2x6           | 1275 |
| 24                           | 1540                     | 910  | 60   | 1270 | 1100 | 730  | 1345 | 1420           | 750            | 150            | 607            | 80   | 52                           | 2x6           | 1275 |
| 25                           | 1700                     | 1000 | 65   | 1400 | 1240 | 795  | 1465 | 1550           | 860            | 215            | 574            | 70   | 62                           | 2x5           | 1670 |
| 26                           | 1700                     | 1000 | 65   | 1400 | 1240 | 795  | 1465 | 1550           | 860            | 215            | 634            | 70   | 62                           | 2x5           | 1670 |
| 27                           | 1850                     | 1100 | 70   | 1550 | 1370 | 870  | 1610 | 1700           | 950            | 190            | 664            | 75   | 62                           | 2x6           | 2170 |
| 28                           | 1850                     | 1100 | 70   | 1550 | 1370 | 870  | 1610 | 1700           | 950            | 190            | 724            | 75   | 62                           | 2x6           | 2170 |
| 29                           | 1980                     | 1180 | 75   | 1640 | 1460 | 925  | 1715 | 1820           | 1000           | 250            | 731            | 90   | 70                           | 2x5           | 2650 |
| 30                           | 1980                     | 1180 | 75   | 1640 | 1460 | 925  | 1715 | 1820           | 1000           | 250            | 771            | 90   | 70                           | 2x5           | 2650 |
| 31                           | 2150                     | 1300 | 75   | 1750 | 1570 | 1000 | 1845 | 1950           | 1100           | 220            | 773            | 100  | 70                           | 2x6           | 3100 |
| 32                           | 2150                     | 1300 | 75   | 1750 | 1570 | 1000 | 1845 | 1950           | 1100           | 220            | 833            | 100  | 70                           | 2x6           | 3100 |
| 33                           | 2230                     | 1350 | 85   | 1850 | 1630 | 1050 | 1940 | 2050           | 1150           | 230            | 883            | 100  | 78                           | 2x6           | 3850 |
| 34                           | 2230                     | 1350 | 85   | 1850 | 1630 | 1050 | 1940 | 2050           | 1150           | 230            | 933            | 100  | 78                           | 2x6           | 3850 |
| 35+36                        | 请咨询杰牌 Please consult JIE |      |      |      |      |      |      |                |                |                |                |      |                              |               |      |

1) 输出轴尺寸见第102页。

2) 见第110页

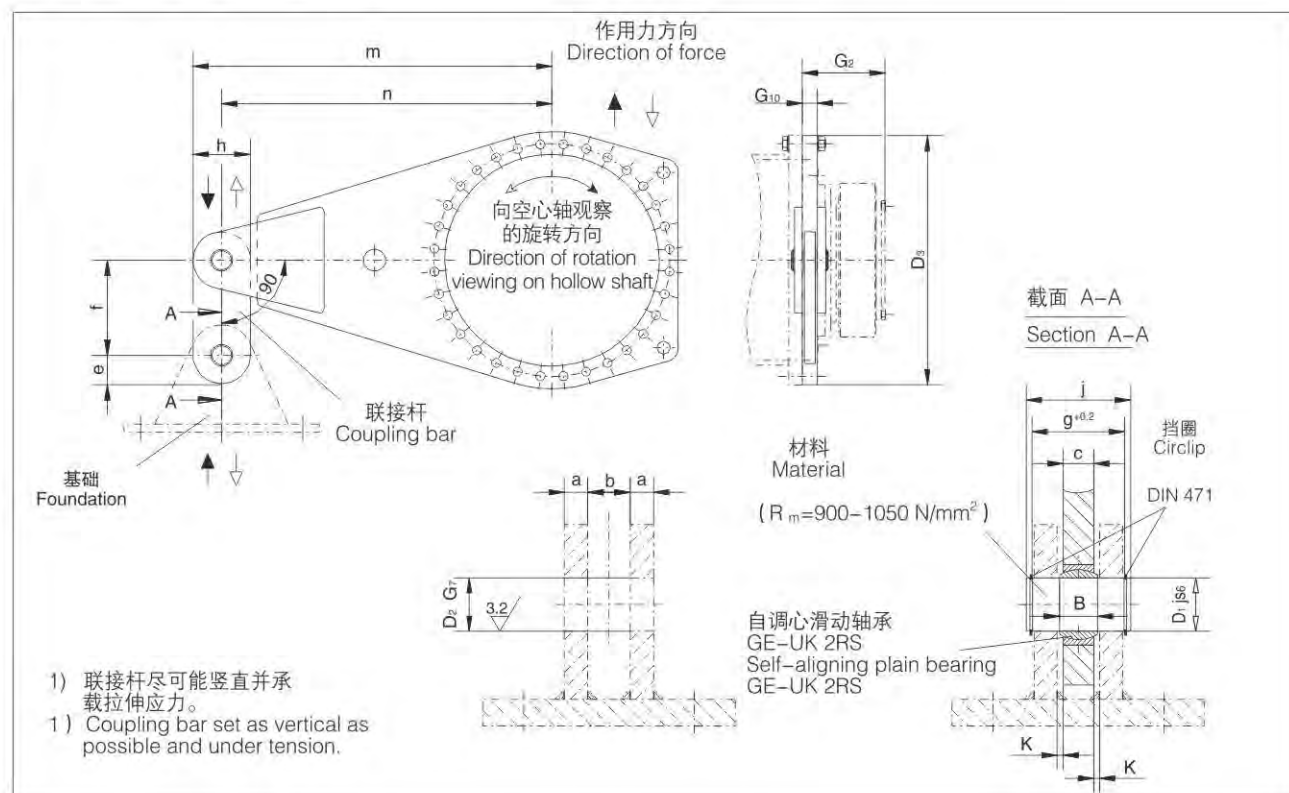
1) For output shaft dimensions, see page102

2) See page 110



附件：带联接杆的单侧扭矩臂

Add-on Piece: Torque Arms on One Sides for Coupling Bar



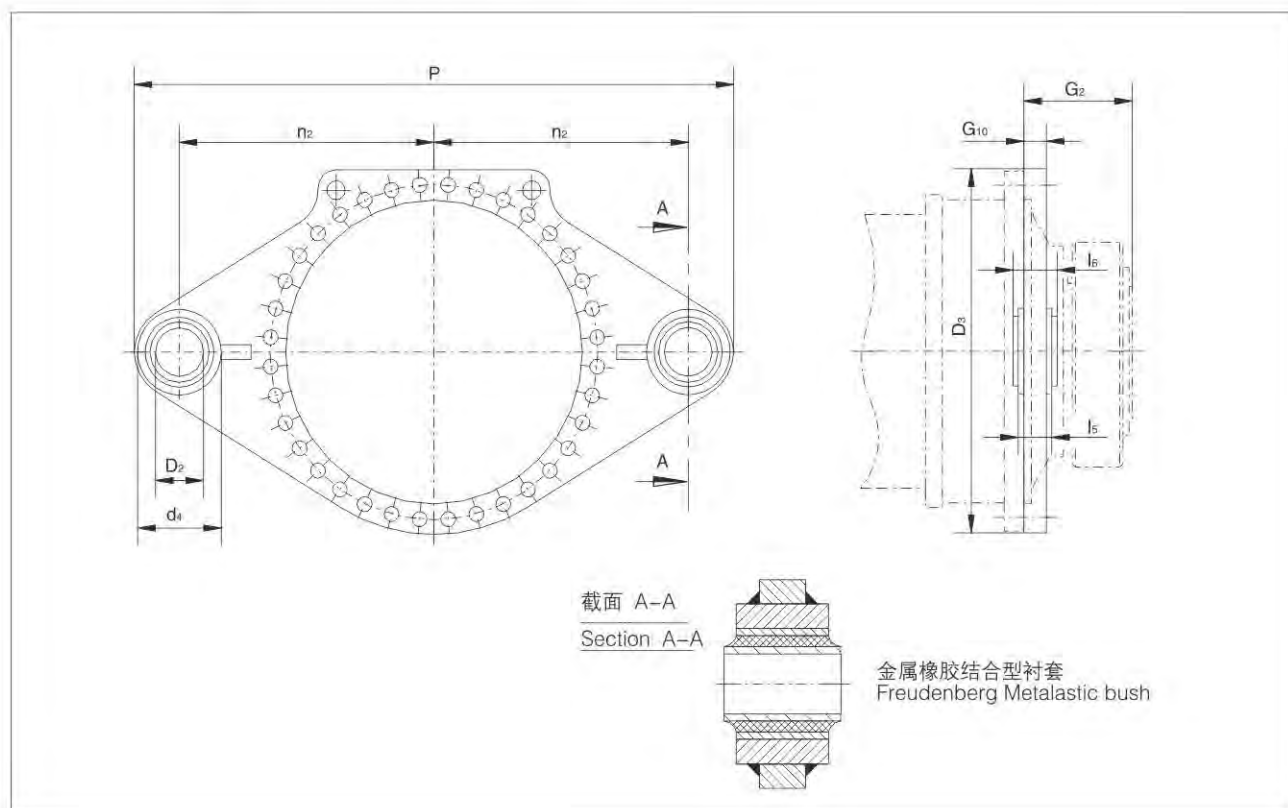
| 尺寸 / Dimensions                                   |                                                                       |                       |                      |                |                |                 |           |    |         |    |      |     |           |     |     |                           |        |      |                                                                   |                               |
|---------------------------------------------------|-----------------------------------------------------------------------|-----------------------|----------------------|----------------|----------------|-----------------|-----------|----|---------|----|------|-----|-----------|-----|-----|---------------------------|--------|------|-------------------------------------------------------------------|-------------------------------|
| 行星<br>齿轮箱<br>Planetary<br>gear unit<br>规格<br>Size | 额定输出<br>扭矩<br>Nominal<br>Output<br>Torques<br>T <sub>2H</sub><br>(Nm) | D <sub>1</sub><br>js6 | D <sub>2</sub><br>G7 | D <sub>3</sub> | G <sub>2</sub> | G <sub>10</sub> | a<br>min. | b  | B<br>2) | c  | e    | f   | g<br>+0.2 | h   | j   | 间隙<br>Clear-<br>ance<br>K | m      | n    | 自调心<br>滑动轴承<br>Self-aligning<br>plain<br>bearing<br>GE.<br>UK-2RS | 重量<br>Weight<br>约/ca.<br>(kg) |
| (mm)                                              |                                                                       |                       |                      |                |                |                 |           |    |         |    |      |     |           |     |     |                           |        |      |                                                                   |                               |
| 9                                                 | 22000                                                                 | 30                    |                      | 440            | 165            | 25              | 15        | 25 | 22      | 18 | 50   | 140 | 59.5      | 100 | 70  | 3.5                       | 605    | 555  | 30                                                                | 38                            |
| 10                                                | 31000                                                                 | 35                    |                      | 485            | 174            | 30              | 15        | 30 | 25      | 20 | 52.5 | 140 | 64.5      | 105 | 75  | 5                         | 667.5  | 615  | 35                                                                | 51                            |
| 11                                                | 42000                                                                 | 40                    |                      | 540            | 204            | 30              | 18        | 30 | 28      | 22 | 65   | 160 | 70.5      | 130 | 85  | 4                         | 750    | 685  | 40                                                                | 82                            |
| 12                                                | 60000                                                                 | 40                    |                      | 620            | 224            | 30              | 18        | 30 | 28      | 22 | 65   | 160 | 70.5      | 130 | 85  | 4                         | 850    | 785  | 40                                                                | 85                            |
| 13                                                | 83000                                                                 | 45                    |                      | 665            | 241            | 35              | 20        | 35 | 32      | 25 | 72.5 | 180 | 79.5      | 145 | 95  | 5                         | 912.5  | 840  | 45                                                                | 113                           |
| 14                                                | 117000                                                                | 50                    |                      | 740            | 278            | 40              | 20        | 40 | 35      | 30 | 72.5 | 200 | 85        | 145 | 100 | 5                         | 1012.5 | 940  | 50                                                                | 145                           |
| 16                                                | 160000                                                                | 60                    |                      | 790            | 285            | 50              | 25        | 50 | 44      | 35 | 77.5 | 240 | 105       | 155 | 120 | 7.5                       | 1077.5 | 1000 | 60                                                                | 206                           |
| 17                                                | 202000                                                                | 60                    |                      | 915            | 294            | 50              | 25        | 50 | 44      | 35 | 85   | 240 | 105       | 170 | 120 | 7.5                       | 1250   | 1165 | 60                                                                | 274                           |
| 18                                                | 244000                                                                | 70                    |                      | 955            | 303            | 55              | 30        | 55 | 49      | 40 | 115  | 280 | 120       | 210 | 135 | 7.5                       | 1315   | 1210 | 70                                                                | 365                           |
| 19                                                | 295000                                                                | 80                    |                      | 1005           | 327.5          | 60              | 30        | 60 | 55      | 45 | 115  | 320 | 125       | 210 | 145 | 7.5                       | 1405   | 1300 | 80                                                                | 423                           |
| 20                                                | 354000                                                                | 80                    |                      | 1005           | 327.5          | 60              | 30        | 60 | 55      | 45 | 115  | 320 | 125       | 210 | 145 | 7.5                       | 1405   | 1300 | 80                                                                | 423                           |
| 21                                                | 392000                                                                | 80                    |                      | 1140           | 354            | 60              | 30        | 60 | 55      | 45 | 113  | 320 | 125       | 225 | 145 | 7.5                       | 1562.5 | 1450 | 80                                                                | 530                           |
| 22                                                | 450000                                                                | 80                    |                      | 1140           | 354            | 60              | 30        | 60 | 55      | 45 | 113  | 320 | 125       | 225 | 145 | 7.5                       | 1562.5 | 1450 | 80                                                                | 530                           |
| 23                                                | 513000                                                                | 90                    |                      | 1235           | 380            | 65              | 30        | 65 | 60      | 50 | 125  | 360 | 130       | 250 | 150 | 7.5                       | 1700   | 1575 | 90                                                                | 665                           |
| 24                                                | 592000                                                                | 90                    |                      | 1235           | 380            | 65              | 30        | 65 | 60      | 50 | 125  | 360 | 130       | 250 | 150 | 7.5                       | 1700   | 1575 | 90                                                                | 665                           |
| 25                                                | 684000                                                                | 100                   |                      | 1350           | 407            | 75              | 35        | 75 | 70      | 55 | 138  | 400 | 150       | 275 | 170 | 10                        | 1857.5 | 1720 | 100                                                               | 940                           |
| 26                                                | 763000                                                                | 100                   |                      | 1350           | 407            | 75              | 35        | 75 | 70      | 55 | 138  | 400 | 150       | 275 | 170 | 10                        | 1857.5 | 1720 | 100                                                               | 940                           |
| 27                                                | 852000                                                                | 110                   |                      | 1490           | 453            | 75              | 35        | 75 | 70      | 55 | 150  | 440 | 150       | 300 | 175 | 10                        | 2050   | 1900 | 110                                                               | 1120                          |
| 28                                                | 950000                                                                | 110                   |                      | 1490           | 453            | 75              | 35        | 75 | 70      | 55 | 150  | 440 | 150       | 300 | 175 | 10                        | 2050   | 1900 | 110                                                               | 1120                          |
| 29                                                | 1060000                                                               | 110                   |                      | 1600           | 483            | 75              | 35        | 75 | 70      | 55 | 158  | 440 | 150       | 315 | 175 | 10                        | 2192.5 | 2035 | 110                                                               | 1260                          |
| 30                                                | 1200000                                                               | 110                   |                      | 1600           | 483            | 75              | 35        | 75 | 70      | 55 | 158  | 440 | 150       | 315 | 175 | 10                        | 2192.5 | 2035 | 110                                                               | 1260                          |
| 31~36                                             | 请咨询杰牌 Please consult JIE                                              |                       |                      |                |                |                 |           |    |         |    |      |     |           |     |     |                           |        |      |                                                                   |                               |

2) 公称尺寸 B=22-35 ⇒ 公差-0.12  
公称尺寸 B=44-55 ⇒ 公差-0.15  
公称尺寸 B=60-70 ⇒ 公差-0.20

2) Nominal size B=22-35 ⇒ tolerance-0.12  
Nominal size B=44-55 ⇒ tolerance-0.15  
Nominal size B=60-70 ⇒ tolerance-0.20

附件：带橡胶衬套的双侧扭矩臂

Add-on Piece: Torque Arms on Two Sides with Rubber Bushes

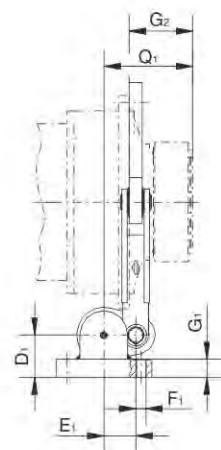
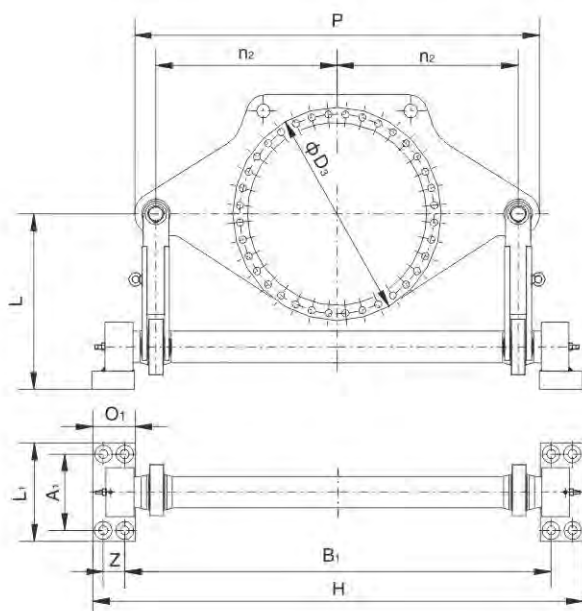


| 尺寸 / Dimensions                                   |                                                                |                                  |       |       |       |          |       |       |       |      |                                   |
|---------------------------------------------------|----------------------------------------------------------------|----------------------------------|-------|-------|-------|----------|-------|-------|-------|------|-----------------------------------|
| 行星<br>齿轮箱<br>Planetary<br>gear unit<br>规格<br>Size | 额定输出<br>扭矩<br>Nominal<br>Output<br>Torques<br>$T_{2N}$<br>(Nm) | $D_2$ <sup>1)</sup><br>$\phi H9$ | $D_3$ | $d_4$ | $G_2$ | $G_{10}$ | $l_5$ | $l_6$ | $n_2$ | P    | 重量<br>Weight<br><br>约/ca.<br>(kg) |
| (mm)                                              |                                                                |                                  |       |       |       |          |       |       |       |      |                                   |
| 9                                                 | 22000                                                          | 50                               | 440   | 115   | 165   | 30       | 100   | 110   | 500   | 1140 | 58                                |
| 10                                                | 31000                                                          | 50                               | 485   | 115   | 174   | 30       | 100   | 110   | 550   | 1240 | 72                                |
| 11                                                | 42000                                                          | 100                              | 540   | 180   | 204   | 30       | 110   | 120   | 575   | 1355 | 95                                |
| 12                                                | 60000                                                          | 100                              | 620   | 180   | 224   | 35       | 110   | 120   | 625   | 1455 | 120                               |
| 13                                                | 83000                                                          | 110                              | 665   | 210   | 241   | 35       | 170   | 180   | 600   | 1435 | 145                               |
| 14                                                | 117000                                                         | 110                              | 740   | 210   | 278   | 40       | 170   | 180   | 650   | 1535 | 170                               |
| 16                                                | 160000                                                         | 124                              | 790   | 240   | 285   | 40       | 220   | 230   | 700   | 1670 | 230                               |
| 17                                                | 202000                                                         | 124                              | 915   | 240   | 288   | 40       | 220   | 230   | 750   | 1770 | 300                               |
| 18                                                | 244000                                                         | 124                              | 955   | 240   | 303   | 50       | 220   | 230   | 900   | 2070 | 400                               |

1) 销轴:  $\phi h8$ 1) Pin:  $\phi h8$

附件：扭力轴支撑

Add-on Piece: Torsion Shaft Support



尺寸 / Dimensions

| 行星<br>齿轮箱<br>Planetary<br>gear unit<br>规格<br>Size | 额定输出<br>扭矩<br>Nominal<br>Output<br>Torques<br><br>T <sub>2N</sub><br>(Nm) | A <sub>1</sub>           | B <sub>1</sub> | D <sub>2</sub> | D <sub>1</sub> | E <sub>1</sub> | F <sub>1</sub> | 数量<br>2)<br>No. | G <sub>1</sub> | G <sub>2</sub> | H    | L    | L <sub>1</sub> | n <sub>2</sub> | O <sub>1</sub> | P    | Q <sub>1</sub> | Z   | 重量<br>Weight<br>约/ca.<br>(kg) |
|---------------------------------------------------|---------------------------------------------------------------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|------|------|----------------|----------------|----------------|------|----------------|-----|-------------------------------|
| (mm)                                              |                                                                           |                          |                |                |                |                |                |                 |                |                |      |      |                |                |                |      |                |     |                               |
| 9                                                 | 22000                                                                     | 250                      | 1320           | 610            | 120            | 105            | 33             | 8               | 48.5           | 165            | 1525 | 560  | 330            | 550            | 140            | 1230 | 247.5          | 65  | 325                           |
| 10                                                | 31000                                                                     | 250                      | 1320           | 610            | 120            | 105            | 33             | 8               | 48.5           | 174            | 1525 | 560  | 330            | 550            | 140            | 1230 | 256.5          | 65  | 325                           |
| 11                                                | 42000                                                                     | 250                      | 1320           | 610            | 120            | 105            | 33             | 8               | 48.5           | 204            | 1525 | 560  | 330            | 550            | 140            | 1230 | 286.5          | 65  | 325                           |
| 12                                                | 60000                                                                     | 250                      | 1320           | 610            | 120            | 105            | 33             | 8               | 48.5           | 224            | 1525 | 560  | 330            | 550            | 140            | 1230 | 306.5          | 65  | 325                           |
| 13                                                | 83000                                                                     | 280                      | 1547           | 775            | 155            | 145            | 39             | 8               | 68.5           | 241            | 1780 | 620  | 380            | 650            | 158            | 1450 | 358.5          | 75  | 620                           |
| 14                                                | 117000                                                                    | 280                      | 1547           | 775            | 155            | 145            | 39             | 8               | 68.5           | 278            | 1780 | 620  | 380            | 650            | 158            | 1450 | 395.5          | 75  | 620                           |
| 16                                                | 160000                                                                    | 280                      | 1547           | 775            | 155            | 145            | 39             | 8               | 68.5           | 285            | 1780 | 620  | 380            | 650            | 158            | 1450 | 402.5          | 75  | 620                           |
| 17                                                | 202000                                                                    | 315                      | 1777           | 955            | 170            | 165            | 39             | 8               | 73.5           | 294            | 2041 | 700  | 400            | 750            | 180            | 1680 | 431.5          | 84  | 900                           |
| 18                                                | 244000                                                                    | 315                      | 1777           | 955            | 170            | 165            | 39             | 8               | 73.5           | 303            | 2041 | 700  | 400            | 750            | 180            | 1680 | 440.5          | 84  | 900                           |
| 19                                                | 295000                                                                    | 350                      | 2000           | 985            | 195            | 175            | 45             | 8               | 83.5           | 328            | 2300 | 860  | 450            | 850            | 200            | 1900 | 470.5          | 100 | 1200                          |
| 20                                                | 354000                                                                    | 350                      | 2000           | 985            | 195            | 175            | 45             | 8               | 83.5           | 328            | 2300 | 860  | 450            | 850            | 200            | 1900 | 470.5          | 100 | 1200                          |
| 21                                                | 392000                                                                    | 400                      | 2254           | 1120           | 210            | 190            | 45             | 8               | 88.5           | 354            | 2591 | 900  | 530            | 950            | 225            | 2110 | 506.5          | 113 | 1500                          |
| 22                                                | 450000                                                                    | 400                      | 2254           | 1120           | 210            | 190            | 45             | 8               | 88.5           | 354            | 2591 | 900  | 530            | 950            | 225            | 2110 | 506.5          | 113 | 1500                          |
| 23                                                | 513000                                                                    | 450                      | 2496           | 1215           | 235            | 220            | 45             | 8               | 98.5           | 380            | 2871 | 1060 | 590            | 1063           | 250            | 2385 | 562.5          | 125 | 2150                          |
| 24                                                | 592000                                                                    | 450                      | 2496           | 1215           | 235            | 220            | 45             | 8               | 98.5           | 380            | 2871 | 1060 | 590            | 1063           | 250            | 2385 | 562.5          | 125 | 2150                          |
| 25                                                | 684000                                                                    | 500                      | 2816           | 1350           | 275            | 245            | 52             | 8               | 118.5          | 407            | 3236 | 1200 | 650            | 1150           | 280            | 2600 | 614.5          | 140 | 2650                          |
| 26                                                | 763000                                                                    | 500                      | 2816           | 1350           | 275            | 245            | 52             | 8               | 118.5          | 407            | 3236 | 1200 | 650            | 1150           | 280            | 2600 | 614.5          | 140 | 2650                          |
| 27                                                | 852000                                                                    | 530                      | 2887           | 1490           | 300            | 255            | 52             | 8               | 128.5          | 453            | 3327 | 1250 | 700            | 1250           | 290            | 2820 | 670.5          | 150 | 3250                          |
| 28                                                | 950000                                                                    | 530                      | 2887           | 1490           | 300            | 255            | 52             | 8               | 128.5          | 453            | 3327 | 1250 | 700            | 1250           | 290            | 2820 | 670.5          | 150 | 3250                          |
| 29                                                | 1060000                                                                   | 560                      | 3200           | 1565           | 300            | 280            | 62             | 8               | 128.5          | 483            | 3673 | 1350 | 750            | 1360           | 315            | 3080 | 718            | 158 | 3900                          |
| 30                                                | 1200000                                                                   | 560                      | 3200           | 1565           | 300            | 280            | 62             | 8               | 128.5          | 483            | 3673 | 1350 | 750            | 1360           | 315            | 3080 | 718            | 158 | 3900                          |
| 31                                                | 1330000                                                                   | 590                      | 3408           | 1695           | 340            | 300            | 70             | 8               | 148.5          | 538            | 3906 | 1400 | 790            | 1450           | 330            | 3260 | 788            | 168 | 5050                          |
| 32                                                | 1500000                                                                   | 590                      | 3408           | 1695           | 340            | 300            | 70             | 8               | 148.5          | 538            | 3906 | 1400 | 790            | 1450           | 330            | 3260 | 788            | 168 | 5050                          |
| 33                                                | 1680000                                                                   | 620                      | 3588           | 1785           | 375            | 320            | 70             | 8               | 158.5          | 573            | 4116 | 1500 | 840            | 1550           | 350            | 3520 | 840.5          | 178 | 6800                          |
| 34                                                | 1920000                                                                   | 620                      | 3588           | 1785           | 375            | 320            | 70             | 8               | 158.5          | 573            | 4116 | 1500 | 840            | 1550           | 350            | 3520 | 840.5          | 178 | 6800                          |
| 35+36                                             |                                                                           | 请咨询本牌 Please consult JIE |                |                |                |                |                |                 |                |                |      |      |                |                |                |      |                |     |                               |

35+36

请咨询杰牌 Please consult JIE

1) 标准尺寸，最高可至2000mm。

2) 螺栓强度为6.8级，按照标准DIN898。

1) Standard dimension, overall height modifiable up to 2000 mm.

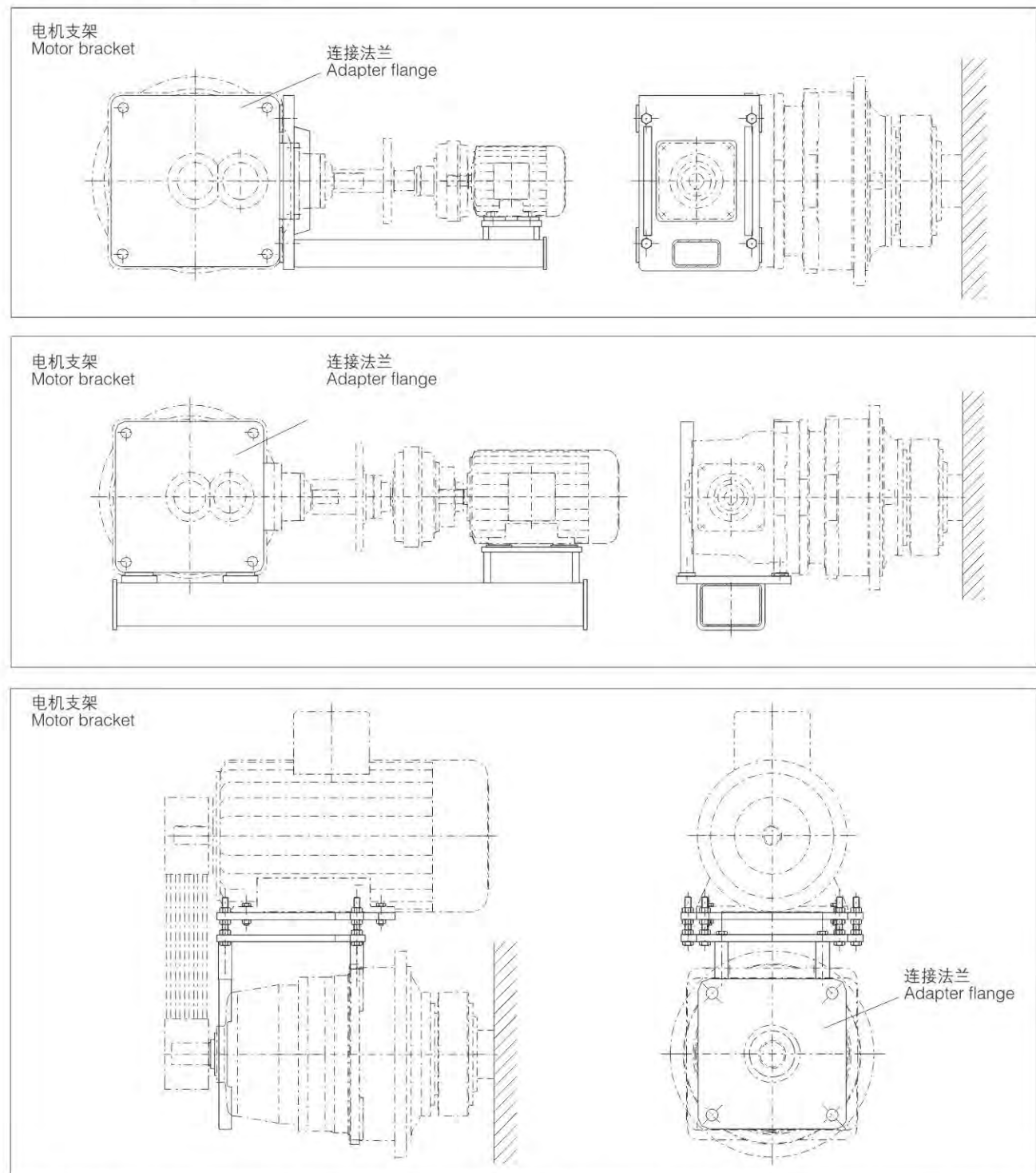
2) Use bolts of property class 6.8 acc. to DIN 898.

在标准设计型式，即DSD型中采用无需维护保养的、在轴承中内置密封装置的自调心滑动轴承。  
在特殊要求及特殊环境条件下，自调心滑动轴承可以通过附加的密封装置加以保护，在这种情况下应采用设计型式DDA。

With the standard design, type DSD, maintenance-free self-aligning plain bearings with integrated seal are used. Where there are special requirements or special ambient conditions, the self-aligning plain bearings can be protected with an additional seal. In this case, the DDA design is required.

附件：电机支架

Add-on Piece: Motor Bracket



在不能采用电机安装法兰的场合，我们使用一个连接法兰与电机支架固定。

标准箱体及其中间法兰是专门为了连接之用而准备的，并且是根据订单要求加工的。

支架连接型式及结构如上图所示。对于每一种不同类型和规格的齿轮箱，所允许使用的电机规格需与设计部门进行确认。

In cases where no motor motor flanges are provided we use an adapter flange to attach motor brackets.

The standard housings and intermediate flanges are specially prepared for connection and machined to order specifications.

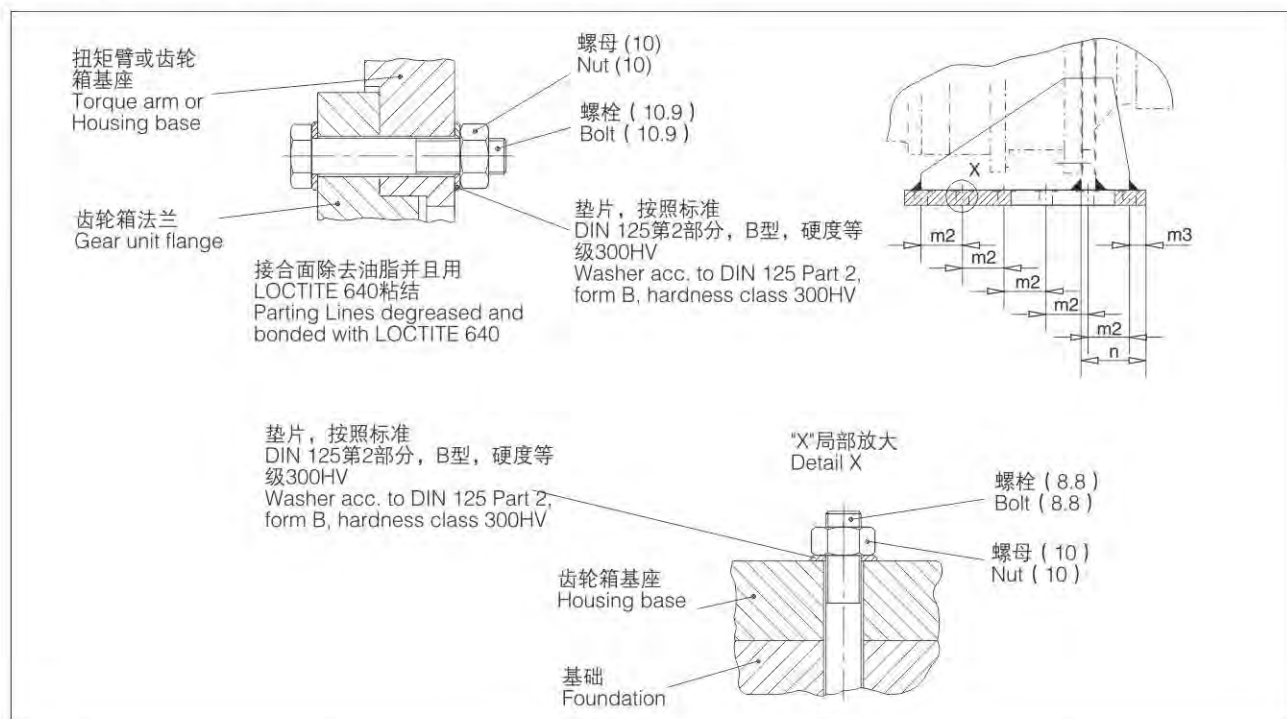
Examples of the type and design of bracket connection are shown in the above drawings. The permissible motor size for each gear unit size and design is to be agreed upon from case to case with the design department.





# 法兰连接和地脚安装的紧固力矩

## Tightening Torques for Flange Connections and Foot – mounted Design



| 尺寸 / Dimensions         |                                              |                                               |                                            |                                               |
|-------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------------|-----------------------------------------------|
| 齿轮箱规格<br>Gear unit size | 法兰连接<br>Flange attachment                    |                                               | 地脚连接 <sup>1)</sup><br>Base attachment      |                                               |
|                         | 螺纹强度等级 (10.9)<br>Thread Strength class(10.9) | 紧固力矩 <sup>2)</sup><br>Tightening torque (N·m) | 螺纹强度等级 (8.8)<br>Thread Strength class(8.8) | 紧固力矩 <sup>2)</sup><br>Tightening torque (N·m) |
| 9                       | M16                                          | 295                                           | M24                                        | 710                                           |
| 10                      | M16                                          | 295                                           | M24                                        | 710                                           |
| 11                      | M20                                          | 580                                           | M24                                        | 710                                           |
| 12                      | M24                                          | 1000                                          | M24                                        | 710                                           |
| 13                      | M24                                          | 1000                                          | M24                                        | 710                                           |
| 14                      | M24                                          | 1000                                          | M30                                        | 1450                                          |
| 16                      | M24                                          | 1000                                          | M30                                        | 1450                                          |
| 17                      | M30                                          | 2000                                          | M36                                        | 2530                                          |
| 18                      | M30                                          | 2000                                          | M36                                        | 2530                                          |
| 19/20                   | M30                                          | 2000                                          | M42                                        | 4070                                          |
| 21/22                   | M36                                          | 3560                                          | M48                                        | 6140                                          |
| 23/24                   | M36                                          | 3560                                          | M48                                        | 6140                                          |
| 25/26                   | M42                                          | 5720                                          | M56                                        | 9840                                          |
| 27/28                   | M48                                          | 8640                                          | M56                                        | 9840                                          |
| 29/30                   | M48                                          | 8640                                          | M64                                        | 14300                                         |
| 31/32                   | M56                                          | 13850                                         | M64                                        | 14300                                         |
| 33/34                   | M56                                          | 13850                                         | M64                                        | 14300                                         |
| 35/36                   | M56                                          | 13850                                         | M72                                        | 20800                                         |

1) 用户需检查联接螺栓以确保其与基础上的联接孔相匹配。

1) The bolts must be checked by the user to ensure that they are suitable for the foundation design.

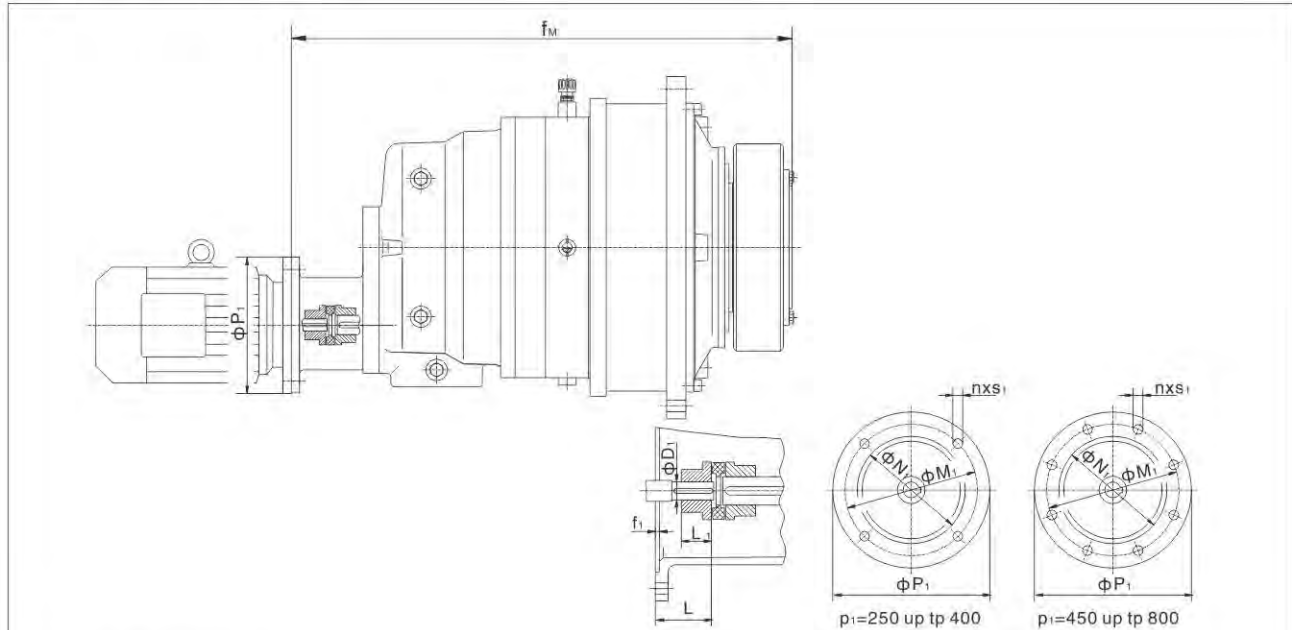
2) 紧固力矩是指当螺纹摩擦系数为0.14, 达到螺栓90%屈服极限时的力矩值。

2) Tightening torques relate to friction values 0.14 in the thread and 90% utilization of yield point.



## 9. 输入法兰尺寸 Input Flange Dimension

类型: JRP2S.. Type: JRP2S..



| JRP2S | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | D <sub>1</sub> | f <sub>1</sub> | f <sub>M</sub> | L   | L <sub>1</sub> | M <sub>1</sub> | n | N <sub>1</sub> | P <sub>1</sub> | S <sub>1</sub> |
|-------|--------------------|---------------------|----------------|----------------|----------------|-----|----------------|----------------|---|----------------|----------------|----------------|
| 9     | 160                |                     | 42             | 6              | 832            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 180                |                     | 48             | 6              | 832            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 10    | 160                |                     | 42             | 6              | 861            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 180                |                     | 48             | 6              | 861            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 11    | 160                |                     | 42             | 6              | 1010           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 180                |                     | 48             | 6              | 1010           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 200                |                     | 55             | 7              | 1010           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
| 12    | 160                |                     | 42             | 6              | 1044           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 180                |                     | 48             | 6              | 1044           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|       | 200                |                     | 55             | 7              | 1044           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
| 13    | 225                |                     | 60             | 7              | 1247           | 140 | 90             | 400            | 8 | 350h7          | 450            | M16            |
|       | 250                |                     | 65             | 8              | 1247           | 140 | 90             | 500            | 8 | 450h7          | 550            | M16            |
| 14    | 225                |                     | 60             | 7              | 1307           | 140 | 90             | 400            | 8 | 350h7          | 450            | M16            |
|       | 250                |                     | 65             | 8              | 1307           | 140 | 90             | 500            | 8 | 450h7          | 550            | M16            |
| 16    | 250                |                     | 65             | 7              | 1452           | 140 | 100            | 500            | 8 | 450h7          | 550            | M16            |
|       | 280                |                     | 75             | 8              | 1452           | 140 | 100            | 500            | 8 | 450h7          | 550            | M16            |
| 17    | 250                |                     | 65             | 7              | 1487           | 140 | 100            | 500            | 8 | 450h7          | 550            | M16            |
|       | 280                |                     | 75             | 8              | 1487           | 140 | 100            | 500            | 8 | 450h7          | 550            | M16            |
| 18    | 315                |                     | 80             | 11             | 1680           | 140 | 110            | 600            | 8 | 550h7          | 660            | M20            |
| 19-20 | 315                |                     | 80             | 11             | 1728           | 140 | 110            | 600            | 8 | 550h7          | 660            | M20            |

注:(1) “\*”所选直联电机机座号所对应的功率应满足传动能力表;

“\*\*\*”表格中所示的法兰为标准型号的法兰, 如有异同请咨询杰牌。

(2) 侧面扭矩臂组合, 请咨询杰牌。

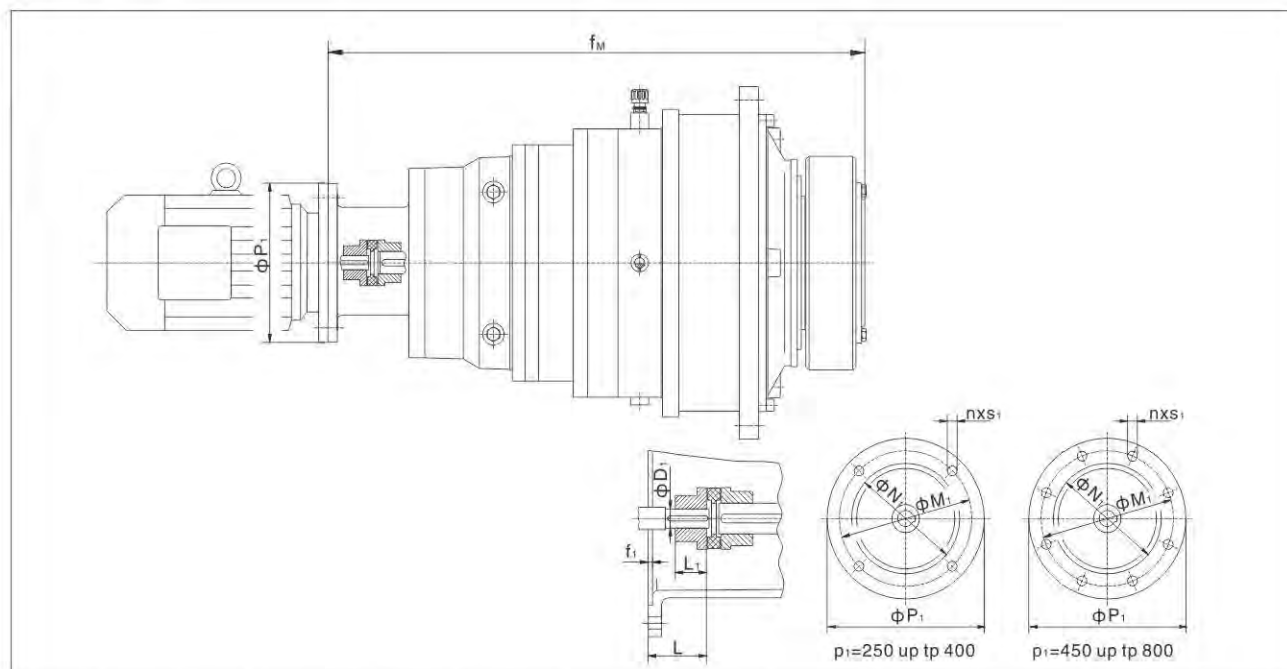
Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

“\*\*\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.

类型: JRP3N..

Type: JRP3N..



| JRP3N.. | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | D <sub>1</sub> | f <sub>1</sub> | f <sub>M</sub> | L   | L <sub>1</sub> | M <sub>1</sub> | n     | N <sub>1</sub> | P <sub>1</sub> | S <sub>1</sub> |
|---------|--------------------|---------------------|----------------|----------------|----------------|-----|----------------|----------------|-------|----------------|----------------|----------------|
| 9       | 132                | 38                  | 5              | 912            | 80             | 56  | 265            | 4              | 230h7 | 300            | M12            |                |
|         | 160                | 42                  | 6              | 960            | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 960            | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
| 10      | 132                | 38                  | 5              | 941            | 80             | 56  | 265            | 4              | 230h7 | 300            | M12            |                |
|         | 160                | 42                  | 6              | 989            | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 989            | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
| 11      | 132                | 38                  | 5              | 1002           | 80             | 56  | 265            | 4              | 230h7 | 300            | M12            |                |
|         | 160                | 42                  | 6              | 1050           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 1050           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
| 12      | 132                | 38                  | 5              | 1036           | 80             | 56  | 265            | 4              | 230h7 | 300            | M12            |                |
|         | 160                | 42                  | 6              | 1084           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 1084           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
| 13      | 160                | 42                  | 6              | 1159           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 1159           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 200                | 55                  | 7              | 1159           | 110            | 80  | 350            | 4              | 300h7 | 400            | M16            |                |
| 14      | 160                | 42                  | 6              | 1219           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 180                | 48                  | 6              | 1219           | 110            | 80  | 300            | 4              | 250h7 | 350            | M16            |                |
|         | 200                | 55                  | 7              | 1219           | 110            | 80  | 350            | 4              | 300h7 | 400            | M16            |                |
| 16      | 200                | 55                  | 7              | 1400           | 110            | 90  | 350            | 4              | 300h7 | 400            | M16            |                |
|         | 225                | 60                  | 7              | 1430           | 140            | 90  | 400            | 8              | 350h7 | 450            | M16            |                |
| 17      | 200                | 55                  | 7              | 1435           | 110            | 90  | 350            | 4              | 300h7 | 400            | M16            |                |
|         | 225                | 60                  | 7              | 1465           | 140            | 90  | 400            | 8              | 350h7 | 450            | M16            |                |
| 18      | 250                | 65                  | 7              | 1636.5         | 140            | 100 | 500            | 8              | 450h7 | 550            | M16            |                |
|         | 280                | 75                  | 8              | 1636.5         | 140            | 100 | 500            | 8              | 450h7 | 550            | M16            |                |
| 19,20   | 250                | 65                  | 7              | 1685           | 140            | 100 | 500            | 8              | 450h7 | 550            | M16            |                |
|         | 280                | 75                  | 8              | 1685           | 140            | 100 | 500            | 8              | 450h7 | 550            | M16            |                |

注:(1)“\*”所选直联电机座号所对应的功率应满足传动能力表;

“\*”表格中所指的法兰为标准型号的法兰,如有异同请咨询杰牌。

(2)侧面扭矩臂组合,请咨询杰牌。

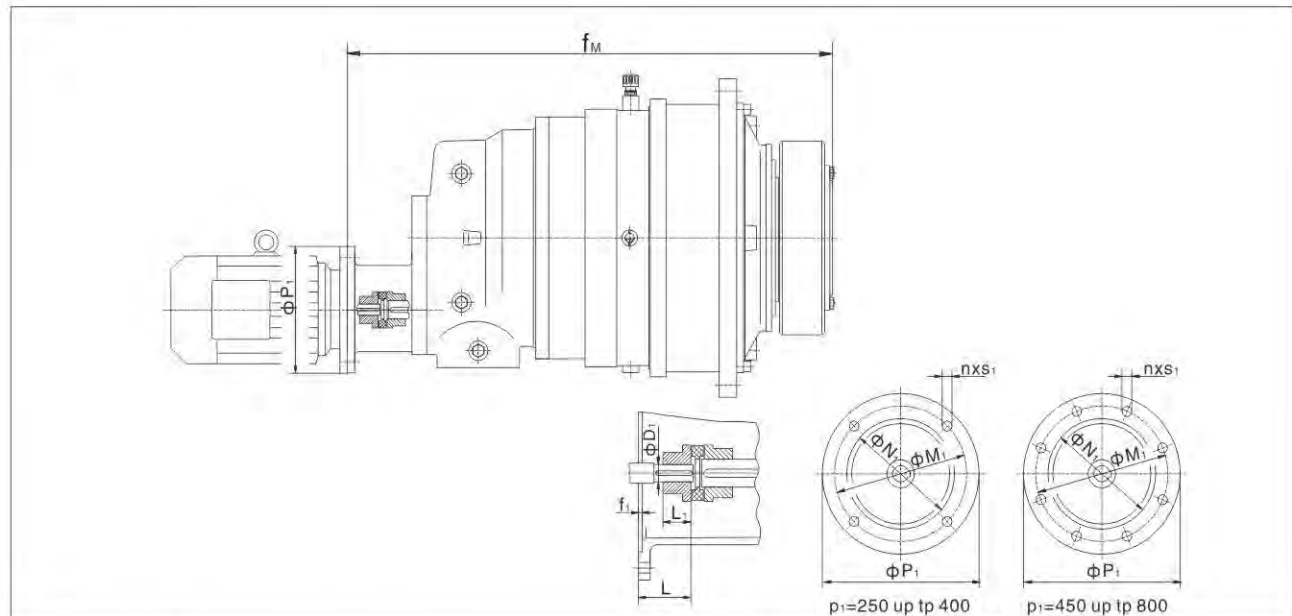
Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

“\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.

类型: JRP3S..

Type: JRP3S..



| JRP3S.. | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | D <sub>1</sub> | f <sub>T</sub> | f <sub>M</sub> | L   | L <sub>1</sub> | M <sub>1</sub> | n | N <sub>1</sub> | P <sub>1</sub> | S <sub>1</sub> |
|---------|--------------------|---------------------|----------------|----------------|----------------|-----|----------------|----------------|---|----------------|----------------|----------------|
| 9       | 100                |                     | 28             | 5              | 865            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 112                |                     | 28             | 5              | 865            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 132                |                     | 38             | 5              | 896            | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 931            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 10      | 100                |                     | 28             | 5              | 894            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 112                |                     | 28             | 5              | 894            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 132                |                     | 38             | 5              | 925            | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 957            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 11      | 112                |                     | 28             | 5              | 955            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 132                |                     | 38             | 5              | 986            | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 1018           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1018           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 12      | 112                |                     | 28             | 5              | 989            | 60  | 45             | 215            | 4 | 180h7          | 250            | M12            |
|         | 132                |                     | 38             | 5              | 1020           | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 1052           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1052           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 13      | 132                |                     | 38             | 5              | 1095           | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 1127           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1127           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1127           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 14      | 132                |                     | 38             | 5              | 1155           | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|         | 160                |                     | 42             | 6              | 1187           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1187           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1187           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 16      | 160                |                     | 42             | 6              | 1365           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1365           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 200                |                     | 55             | 7              | 1365           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
|         | 200                |                     | 55             | 7              | 1365           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
| 17      | 160                |                     | 42             | 6              | 1390           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 180                |                     | 48             | 6              | 1390           | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|         | 200                |                     | 55             | 7              | 1400           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
|         | 200                |                     | 55             | 7              | 1400           | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
| 18      | 180                |                     | 48             | 6              | 1558.5         | 110 | 90             | 300            | 4 | 250h7          | 350            | M16            |
|         | 200                |                     | 55             | 7              | 1570.5         | 110 | 90             | 350            | 4 | 300h7          | 400            | M16            |
|         | 225                |                     | 60             | 7              | 1608.5         | 110 | 90             | 400            | 8 | 350h7          | 450            | M16            |
|         | 250                |                     | 65             | 7              | 1608.5         | 110 | 90             | 500            | 8 | 450h7          | 550            | M16            |
| 19,20   | 180                |                     | 48             | 6              | 1606           | 110 | 90             | 300            | 4 | 250h7          | 350            | M16            |
|         | 200                |                     | 55             | 7              | 1618           | 110 | 90             | 350            | 4 | 300h7          | 400            | M16            |
|         | 225                |                     | 60             | 7              | 1656           | 110 | 90             | 400            | 8 | 350h7          | 450            | M16            |
|         | 250                |                     | 65             | 7              | 1656           | 110 | 90             | 500            | 8 | 450h7          | 550            | M16            |

注:(1)“\*”所选直联电机机座号所对应的功率应满足传动能力表;

“\*”表格中所指的法兰为标准型号的法兰,如有异同请咨询杰牌。

(2)侧面扭矩臂组合,请咨询杰牌。

Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

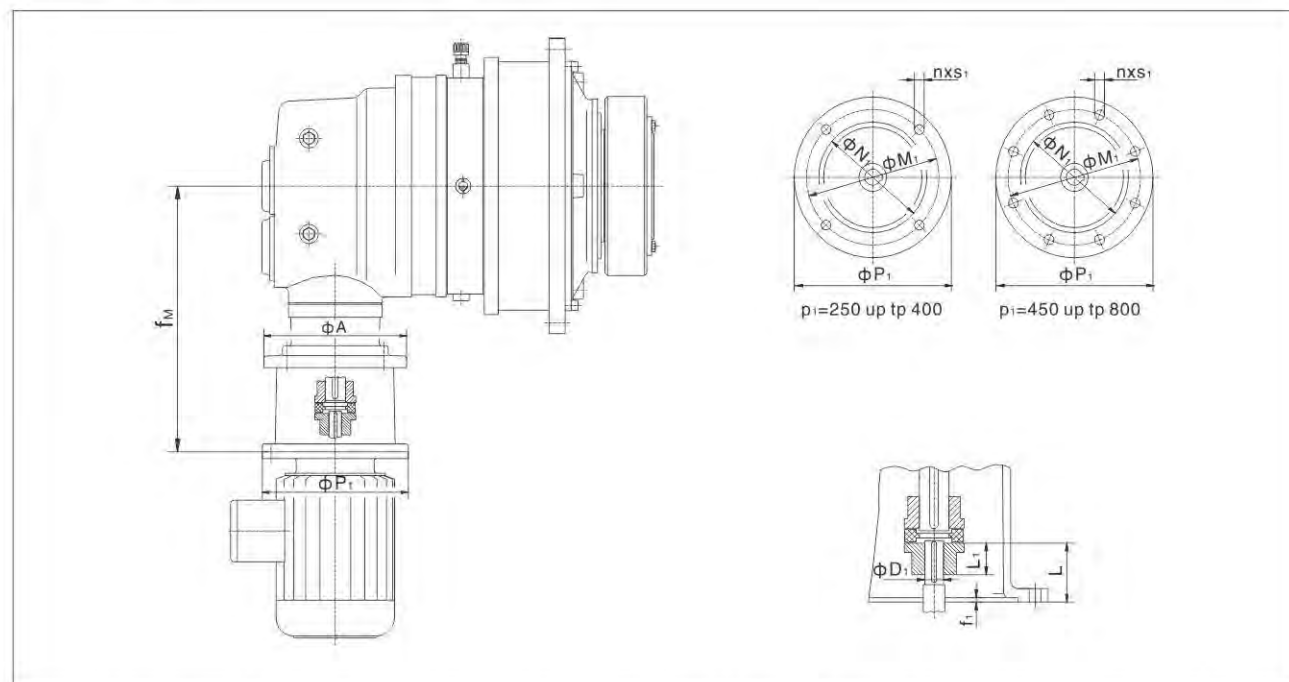
“\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.



类型: JRP2K..

Type: JRP2K..



| JRP2K..  | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | A   | D <sub>1</sub> | f <sub>1</sub> | f <sub>M</sub> | L   | L <sub>1</sub> | M <sub>1</sub> | n | N <sub>1</sub> | P <sub>1</sub> | S <sub>1</sub> |
|----------|--------------------|---------------------|-----|----------------|----------------|----------------|-----|----------------|----------------|---|----------------|----------------|----------------|
| 9,10     | 132                |                     | 250 | 38             | 5              | 486            | 80  | 70             | 265            | 4 | 230h7          | 300            | M12            |
|          | 160                |                     | 250 | 42             | 6              | 528            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
| 11,12    | 160                |                     | 300 | 42             | 6              | 593            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|          | 180                |                     | 350 | 48             | 6              | 593            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|          | 200                |                     | 350 | 55             | 7              | 593            | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
| 13,14    | 160                |                     | 440 | 42             | 6              | 663            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|          | 180                |                     | 440 | 48             | 6              | 663            | 110 | 75             | 300            | 4 | 250h7          | 350            | M16            |
|          | 200                |                     | 440 | 55             | 7              | 663            | 110 | 75             | 350            | 4 | 300h7          | 400            | M16            |
|          | 225                |                     | 440 | 60             | 7              | 695            | 140 | 80             | 400            | 8 | 350h7          | 450            | M16            |
|          | 250                |                     | 440 | 65             | 8              | 707            | 140 | 85             | 500            | 8 | 450h7          | 550            | M16            |
| 16,17    | 200                |                     | 440 | 55             | 7              | 770            | 110 | 80             | 350            | 4 | 300h7          | 400            | M16            |
|          | 225                |                     | 440 | 60             | 7              | 800            | 140 | 80             | 400            | 8 | 350h7          | 425            | M16            |
|          | 250                |                     | 440 | 65             | 8              | 812            | 140 | 85             | 500            | 8 | 450h7          | 550            | M16            |
|          | 280                |                     | 440 | 75             | 8              | 812            | 140 | 85             | 500            | 8 | 450h7          | 550            | M16            |
| 18,19,20 | 225                |                     | 440 | 60             | 7              | 932            | 140 | 80             | 400            | 8 | 350h7          | 450            | M16            |
|          | 250                |                     | 440 | 65             | 8              | 932            | 140 | 85             | 500            | 8 | 450h7          | 550            | M16            |
|          | 280                |                     | 440 | 75             | 8              | 932            | 140 | 85             | 500            | 8 | 450h7          | 550            | M16            |
|          | 315*               |                     | 440 | 80             | 11             | 967            | 170 | 100            | 600            | 8 | 550h7          | 660            | M20            |

注:(1)“\*”所选直联电机座号所对应的功率应满足传动能力表:

“\*”表格中所指的法兰为标准型号的法兰,如有异同请咨询杰牌。

(2)侧面扭矩臂组合,请咨询杰牌。

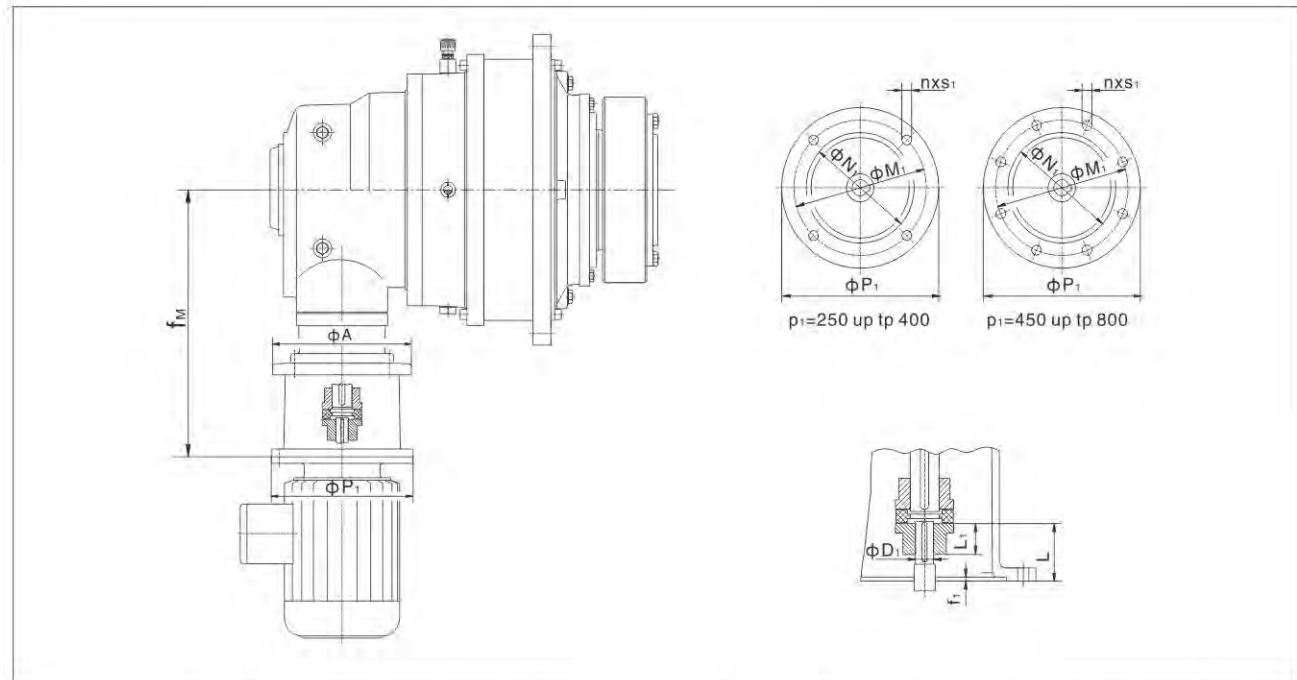
Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

“\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.

类型: JRP2L..

Type: JRP2L..



| JRP2L..     | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | A  | D <sub>1</sub> | f <sub>1</sub> | f <sub>M</sub> | L <sub>1</sub> | L   | M <sub>1</sub> | n | N <sub>1</sub> | P <sub>1</sub> | S <sub>1</sub> |
|-------------|--------------------|---------------------|----|----------------|----------------|----------------|----------------|-----|----------------|---|----------------|----------------|----------------|
| 9,10        | 160                | 440                 | 42 | 6              | 6              | 543            | 75             | 110 | 300            | 4 | 250h7          | 350            | M16            |
|             | 180                | 440                 | 48 | 6              | 6              | 543            | 75             | 110 | 300            | 4 | 250h7          | 350            | M16            |
|             | 200                | 440                 | 55 | 7              | 7              | 543            | 75             | 110 | 350            | 4 | 300h7          | 400            | M16            |
|             | 225                | 440                 | 60 | 7              | 7              | 575            | 80             | 140 | 400            | 8 | 350h7          | 450            | M16            |
| 11,12       | 200                | 440                 | 55 | 7              | 7              | 600            | 75             | 110 | 350            | 4 | 300h7          | 400            | M16            |
|             | 225                | 440                 | 60 | 7              | 7              | 630            | 80             | 140 | 400            | 8 | 350h7          | 450            | M16            |
|             | 250                | 440                 | 65 | 8              | 8              | 642            | 85             | 140 | 500            | 8 | 450h7          | 550            | M16            |
| 13,14       | 225                | 440                 | 60 | 7              | 7              | 732            | 85             | 140 | 400            | 8 | 350h7          | 450            | M16            |
|             | 250                | 440                 | 65 | 8              | 8              | 732            | 85             | 140 | 500            | 8 | 450h7          | 550            | M16            |
|             | 280                | 440                 | 75 | 8              | 8              | 732            | 85             | 140 | 500            | 8 | 450h7          | 550            | M16            |
| 16,17       | 280                | 600                 | 75 | 8              | 8              | 842            | 100            | 140 | 500            | 8 | 450h7          | 550            | M16            |
|             | 315*               | 650                 | 80 | 11             | 11             | 872            | 100            | 170 | 600            | 8 | 550h7          | 660            | M20            |
| 18,19,20    | 315*               | 650                 | 80 | 11             | 11             | 987            | 100            | 170 | 600            | 8 | 550h7          | 660            | M20            |
| 21,22,23,24 | 315                | 650                 | 80 | 11             | 11             | 1122           | 125            | 170 | 600            | 8 | 550h7          | 660            | M20            |
|             | 355                | 650                 | 95 | 11             | 11             | 1122           | 125            | 170 | 740            | 8 | 680h7          | 800            | M20            |

注:(1)“\*”所选直联电机座号所对应的功率应满足传动能力表;

“\*”表格中所示的法兰为标准型号的法兰,如有异同请咨询杰牌。

(2)侧面扭矩臂组合,请咨询杰牌。

Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

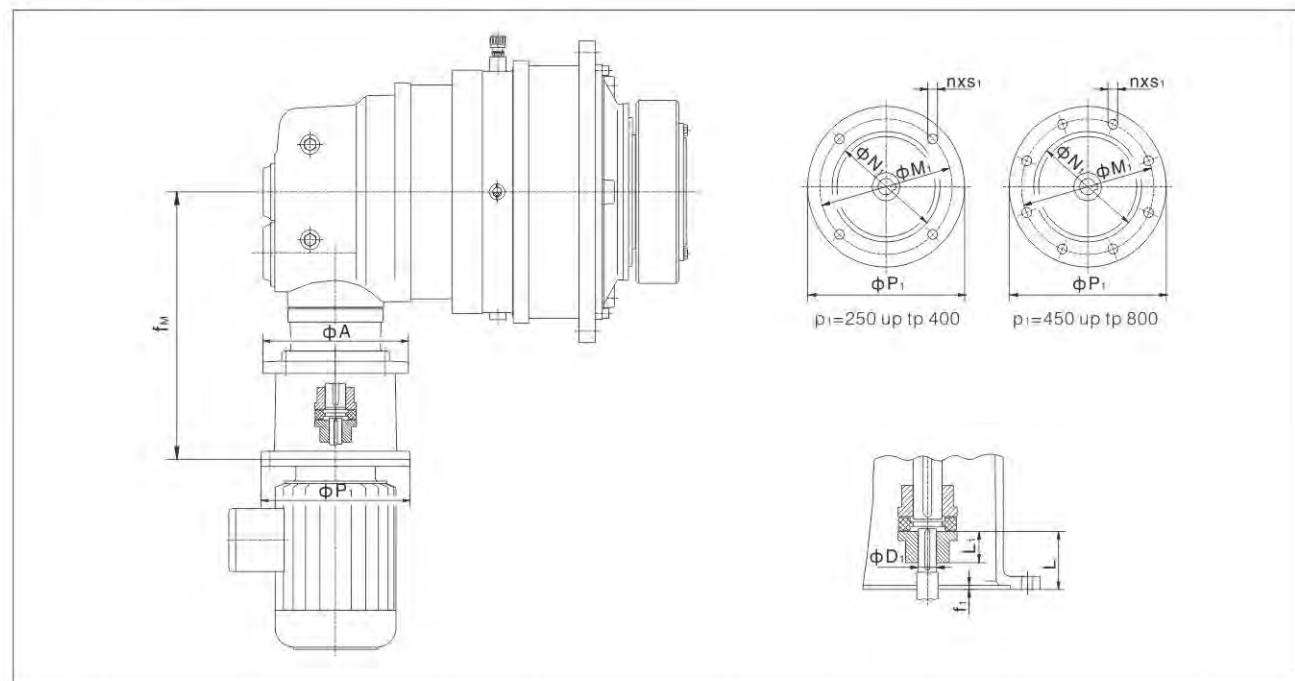
“\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.



类型: JRP3K..

Type: JRP3K..



| JRP3K..             | 电机<br>Motor<br>(Y) | 法兰<br>Flange<br>(F) | A   | D <sub>1</sub> | f <sub>1</sub> | f <sub>m</sub> | L   | L <sub>1</sub> | M <sub>1</sub> | N <sub>1</sub> | n | P <sub>1</sub> | S <sub>1</sub> |
|---------------------|--------------------|---------------------|-----|----------------|----------------|----------------|-----|----------------|----------------|----------------|---|----------------|----------------|
| 9,10,11<br>12,13,14 | 132                |                     | 250 | 38             | 5              | 486            | 80  | 70             | 265            | 230h7          | 4 | 300            | M12            |
|                     | 160                |                     | 250 | 42             | 6              | 528            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
|                     | 180                |                     | 250 | 48             | 6              | 528            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
| 16,17               | 160                |                     | 350 | 42             | 6              | 593            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
|                     | 180                |                     | 350 | 48             | 6              | 593            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
|                     | 200                |                     | 350 | 55             | 7              | 593            | 110 | 75             | 350            | 300h7          | 4 | 400            | M16            |
| 18,19,20<br>21,22   | 160                |                     | 440 | 42             | 6              | 663            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
|                     | 180                |                     | 440 | 48             | 6              | 663            | 110 | 75             | 300            | 250h7          | 4 | 350            | M16            |
|                     | 200                |                     | 440 | 55             | 7              | 663            | 110 | 75             | 350            | 300h7          | 4 | 400            | M16            |
|                     | 225                |                     | 440 | 60             | 7              | 695            | 140 | 80             | 400            | 350h7          | 8 | 450            | M16            |
|                     | 250                |                     | 440 | 65             | 8              | 707            | 140 | 85             | 500            | 450h7          | 8 | 550            | M16            |
| 23,24<br>25,26      | 200                |                     | 440 | 55             | 6              | 770            | 110 | 80             | 350            | 300h7          | 4 | 400            | M16            |
|                     | 225                |                     | 440 | 60             | 7              | 800            | 140 | 80             | 400            | 350h7          | 8 | 450            | M16            |
|                     | 250                |                     | 440 | 65             | 7              | 812            | 140 | 85             | 500            | 450h7          | 8 | 550            | M16            |
|                     | 280                |                     | 440 | 75             | 8              | 812            | 140 | 85             | 500            | 450h7          | 8 | 550            | M16            |
| 27,28<br>29,30      | 225                |                     | 440 | 60             | 7              | 932            | 140 | 80             | 400            | 350h7          | 8 | 450            | M16            |
|                     | 250                |                     | 440 | 65             | 7              | 932            | 140 | 85             | 500            | 450h7          | 8 | 550            | M16            |
|                     | 280                |                     | 440 | 75             | 8              | 932            | 140 | 85             | 500            | 450h7          | 8 | 550            | M16            |
|                     | 315*               |                     | 440 | 80             | 11             | 967            | 170 | 100            | 600            | 550h7          | 8 | 660            | M20            |

注:(1) “\*”所选直联电机座号所对应的功率应满足传动能力表:

“\*”表格中所示的法兰为标准型号的法兰,如有异同请咨询杰牌。

(2)侧面扭矩臂组合, 请咨询杰牌。

Note: (1) “\*” the power of the coupled motor in selection must be sufficient for the transmission capacity requirements;

“\*” the flanges listed in the table are standard. Consult us if any deviation exists.

(2) For combinations with side torque arm, please consult us.

## 10. 润滑方案 Lubricant Oil

用于竖直安装时的补油箱

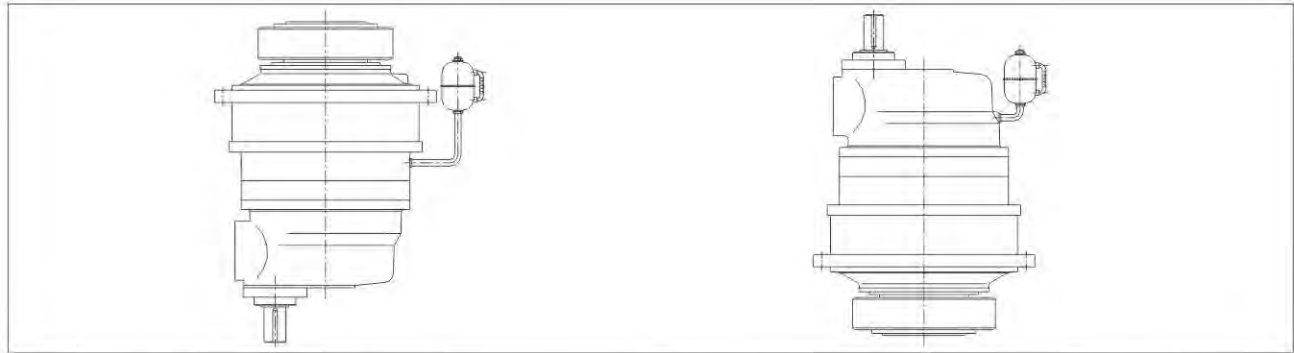
在竖直安装时通过补油箱供油润滑

-900/600,910/610,920/620,930/630

Oil Compensating Tank for Vertical Mounting Position

Oil supply by compensating tank for vertical mounting position

-900/600,910/610,920/620,930/630



在竖直安装时,标准配置中不包括用于为上方滚柱轴承供油的强制润滑。

为了保证供油,油位已作了相应的提升。

对于卧式安装的齿轮箱,其油量可以根据齿轮箱类型在相应的产品样本中查得。

对于竖直安装的齿轮箱,其所需油量约为上述油量的一倍。

齿轮箱油位可通过单独配置的补油箱观察,且补油箱的设计容积已经提前考虑到了运行状态下润滑油体积的变化,齿轮箱同时也通过补油箱透气。补油箱既可固定在齿轮箱体上,也可固定在用户设备的机架上。

补油箱底面大约在如下位置:

D<sub>2</sub> 向上: 输出端法兰的安装面

D<sub>1</sub> 向上: 齿轮箱箱体的上缘

补油箱的实际容积和最低位置应在订单中确定。

在卧式安装和上方驱动时通过电动泵供油润滑

-521, 531<sup>1)</sup> (所有规格)  
和511<sup>1)</sup> (从规格21起)

In case of vertical mounting position, no forced lubrication is provided as standard to feed the overhead rolling bearings.

To ensure the lubricant supply, the oil level is increased accordingly.

For horizontal mounting position of the gear unit, please derive the oil quantity, depending on the type, from the respective page of the brochure.

For vertical mounting position, approximately twice the oil quantity is required.

The oil level is checked via an oil compensating tank fitted separately. The dimensions are set to accommodate the anticipated change in the volume of the oil in the operating condition. The unit is also vented via the tank. The oil tank can be attached either to the gear unit or to the customer's machine frame.

The bottom of the oil compensating tank is set at approximately the following level: if

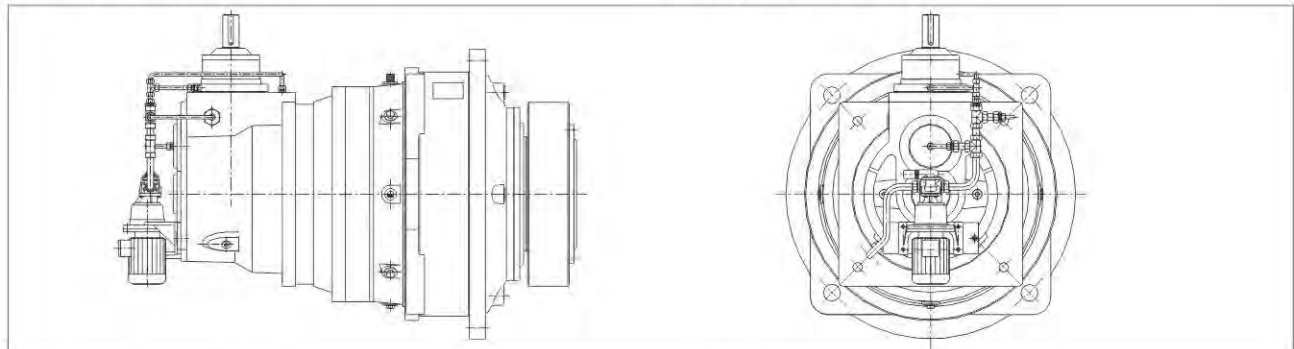
D<sub>2</sub> upwards: Mounting surface output flange

D<sub>1</sub> upwards: Upper edge primary gear housing

The actual dimension and final position will be decided when the order is placed

Oil supply by motor pumps for horizontal mounting position and drive from above

-521, 531<sup>1)</sup> (all sizes)  
and 511<sup>1)</sup> (above size 21)



1)轴的布置型式见第120页

1)For shaft arrangement, see page 120



注油量: Oil quantity:



| 油量表 Oil level (L) |         |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| 规格<br>Type        | JRP2N.. | JRP2L.. | JRP2S.. | JRP2K.. | JRP3N.. | JRP3S.. | JRP3K.. |
| 9                 | 6       | 6       | 6       | 6       | 7       | 7       | 7       |
| 10                | 8       | 8       | 8       | 8       | 9       | 9       | 9       |
| 11                | 12      | 12      | 12      | 12      | 13      | 13      | 13      |
| 12                | 16      | 16      | 16      | 16      | 17      | 17      | 17      |
| 13                | 20      | 20      | 20      | 20      | 21      | 21      | 21      |
| 14                | 32      | 32      | 32      | 32      | 33      | 33      | 33      |
| 16                | 40      | 40      | 40      | 40      | 42      | 42      | 42      |
| 17                | 56      | 56      | 56      | 56      | 60      | 60      | 60      |
| 18                | 66      | 66      | 66      | 73      | 70      | 70      | 70      |
| 19                | 82      | 82      | 82      | 82      | 85      | 85      | 85      |
| 20                | 75      | 75      | 75      | 75      | 75      | 75      | 75      |
| 21                | 110     | 110     | 110     |         | 115     | 115     | 115     |
| 22                | 95      | 95      | 95      |         | 105     | 105     | 105     |
| 23                | 130     | 130     | 130     |         | 140     | 140     | 140     |
| 24                | 125     | 125     | 125     |         | 135     | 135     | 135     |
| 25                | 190     | 190     | 190     |         | 195     | 195     | 195     |
| 26                | 160     | 160     | 160     |         | 170     | 170     | 170     |
| 27                | 245     | 245     | 245     |         | 250     | 250     | 250     |
| 28                | 205     | 205     | 205     |         | 220     | 220     | 220     |
| 29                | 305     | 305     | 305     |         | 310     | 310     | 310     |
| 30                | 255     | 255     | 255     |         | 280     | 280     | 280     |
| 31                | 380     |         | 380     |         | 390     | 390     |         |
| 32                | 315     |         | 315     |         | 360     | 360     |         |
| 33                | 460     |         | 460     |         | 470     | 470     |         |
| 34                | 380     |         | 380     |         | 430     | 430     |         |
| 35                | 645     |         | 645     |         |         |         |         |
| 36                | 535     |         | 535     |         |         |         |         |

注: 1) 在环境温度-10℃~+40℃时, JRP系列润滑油牌号为VG320 (ISO粘度等级), 附件代号V32。

2) 以上齿轮箱油量为JRP.N在500安装方位、JRP.K/JRP.L/JRP.S为5xx安装方位时的油量, 其它安装方位时的油量请咨询杰牌。

Note: 1) When ambient temperature is between -10℃~+40℃, VG320 (ISO viscosity class) should be used for JRP series and accessory code is V32.

2) The above oil levels are for JRP..N in mounting position 500 and JRP.K/ JRP.L/JRP.S in mounting position 5xx Other positions on request.

润滑油选择表

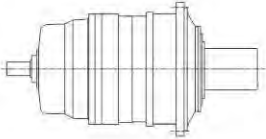
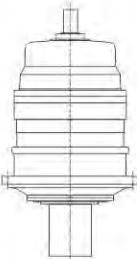
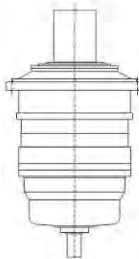
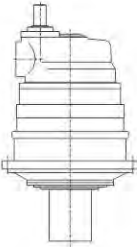
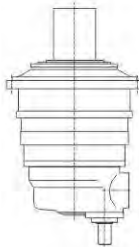
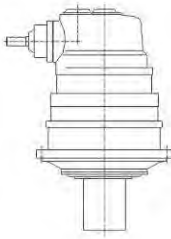
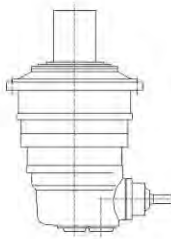
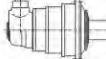
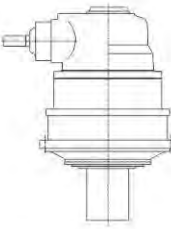
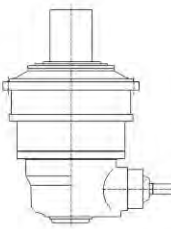
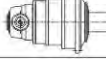
Selection of Oil Table

| 润滑油<br>Oil              | 40℃温度下<br>ISO-VG粘度<br>mm <sup>2</sup> /s标准<br>DIN51519<br>Viscosity ISO-VG<br>At 40℃ in mm <sup>2</sup> /s,<br>standard DIN 51519 | 润滑油选用实例 / Oil selection example                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                         |                                                                                                                                   |  |  |  |  |  |  |
| 合成油<br>Synthetic<br>oil | VG680                                                                                                                             | TOTAL CARTER<br>SH680                                                             | GLYGOYLE<br>HE 680                                                                | SHELL OMALA<br>HD680                                                              |                                                                                    |                                                                                     |                                                                                     |
|                         | VG460                                                                                                                             | TOTAL CARTER<br>SH460                                                             | GLYGOYLE<br>HE 460                                                                | SHELL OMALA<br>HD460                                                              | ENERSYN<br>SG-XP460                                                                |                                                                                     |                                                                                     |
|                         | VG320                                                                                                                             | TOTAL CARTER<br>SH320                                                             | GLYGOYLE<br>HE320                                                                 | SHELL OMALA<br>HD320                                                              |                                                                                    |                                                                                     |                                                                                     |
|                         | VG220                                                                                                                             | TOTAL CARTER<br>SH220                                                             | GLYGOYLE<br>30                                                                    | SHELL OMALA<br>HD220                                                              | ENERSYN<br>SG-XP220                                                                |                                                                                     |                                                                                     |
|                         | VG150                                                                                                                             |                                                                                   | GLYGOYLE<br>22                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                         | VG100                                                                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 矿物油<br>Mineral<br>oil   | VG680                                                                                                                             | TOTAL CARTER<br>EP680                                                             | MOBIL GEAR<br>636                                                                 | SHELL OMALA<br>680                                                                | ENERGOL<br>GR-XF680                                                                | CKD680                                                                              | CKD680                                                                              |
|                         | VG460                                                                                                                             | TOTAL CARTER<br>EP460                                                             | MOBIL GEAR<br>634                                                                 | SHELL OMALA<br>460                                                                | ENERGOL<br>GR-XF460                                                                | CKD460                                                                              | CKD460                                                                              |
|                         | VG320                                                                                                                             | TOTAL CARTER<br>EP320                                                             | MOBIL GEAR<br>632                                                                 | SHELL OMALA<br>320                                                                | ENERGOL<br>GR-XF320                                                                | CKD320                                                                              | CKD320                                                                              |
|                         | VG220                                                                                                                             | TOTAL CARTER<br>EP220                                                             | MOBIL GEAR<br>630                                                                 | SHELL OMALA<br>220                                                                | ENERGOL<br>GR-XF220                                                                | CKD220                                                                              | CKD220                                                                              |
|                         | VG150                                                                                                                             |                                                                                   | MOBIL GEAR<br>629                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|                         | VG100                                                                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |





## 11. 布置形式 Identifications of Shaft Arrangements

| 齿轮箱卧式安装<br>Horizontal gear unit position<br>5...                  |   |                                                                                                      | 齿轮箱立式安装<br>Vertical gear unit position<br>9... 1)<br>6...                                   |                                                                                              |
|-------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 同轴式行星齿轮箱<br>Coaxial planetary gear units                          | 0 | JRP.N.<br><br>500   | <br>900   | <br>600   |
|                                                                   |   |                                                                                                      |                                                                                             |                                                                                              |
| 平行轴-行星齿轮箱<br>Combined helical gear planetary gear units           | 1 | JRP.S.<br><br>511   | <br>910  | <br>610  |
|                                                                   |   | <br>512             |                                                                                             |                                                                                              |
|                                                                   |   | <br>513             |                                                                                             |                                                                                              |
|                                                                   |   | <br>514           |                                                                                             |                                                                                              |
| 直交轴-平行轴-行星齿轮箱<br>Combined bevel-helical gear planetary gear units | 2 | JRP.K.<br><br>521 | <br>920 | <br>620 |
|                                                                   |   | <br>522           |                                                                                             |                                                                                              |
|                                                                   |   | <br>523           |                                                                                             |                                                                                              |
|                                                                   |   | <br>524           |                                                                                             |                                                                                              |
| 直交轴-行星齿轮箱<br>Combined bevel gear planetary gear units             | 3 | JRP.L.<br><br>531 | <br>930 | <br>630 |
|                                                                   |   | <br>532           |                                                                                             |                                                                                              |
|                                                                   |   | <br>533           |                                                                                             |                                                                                              |
|                                                                   |   | <br>534           |                                                                                             |                                                                                              |
| 扭矩臂支撑<br>Torque reaction arm                                      | 5 | <br>551           | *)从输入轴端观察<br>**)请咨询杰牌                                                                       | *)Viewing on input shaft<br>**)please consult us                                             |
|                                                                   |   | <br>552           |                                                                                             |                                                                                              |
|                                                                   |   | <br>553           |                                                                                             |                                                                                              |
|                                                                   |   | <br>554           |                                                                                             |                                                                                              |
|                                                                   |   | <br>555           |                                                                                             |                                                                                              |
|                                                                   |   | <br>556           |                                                                                             |                                                                                              |

1)必须检查润滑油供给情况

1)Lubricant supply must be checked



## 12. 防爆保护 Explosion Protection



防爆要求  
按照 ATEX 95

JRP 行星齿轮箱可以根据用户的需要提供按照 94/9/EC 规范认证的改进型结构。这种齿轮箱可以在有爆炸危险的环境中使用。

应用：设备特性类型 2+3



Explosion protection  
according to ATEX 95

JRP planetary gear units are certified according to directive 94/9/EC and may be used in hazardous locations.

Surface application: categories 2+3



| 环境说明<br>Description of the surroundings                                                 |                                             | 设备特性对安全要求的适配<br>Assignment of equipment categories to safety requirements |                      |                               |                                           |
|-----------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------|----------------------|-------------------------------|-------------------------------------------|
| 爆炸危险的持续时间<br>Explosive atmospheres occurring:                                           | 爆炸危险的起因<br>Explosive atmospheres caused by: |                                                                           | 特性类型:<br>Category:   | 安全要求:<br>Safety requirements: | 在下列情况下安全;<br>Safe if taking into account  |
| 量化数据仅用于应用选型<br>The quantification serves for orientation only.                          | 气体, 雾, 蒸汽<br>Gases, vapours, mists          | 粉尘<br>Dust                                                                |                      |                               |                                           |
| 不断发生, 频繁发生, 每年大于1000小时<br>Continuously, frequently, for more than 1,000 h/yr            | Zone 0                                      | Zone 20                                                                   | 特性类型 1<br>Category 1 | 很高<br>very high               | 很少发生爆炸<br>Rarely occurring disturbances   |
| 偶尔发生, 短时发生, 每年在10和1000小时之间<br>Occasionally, for a short term, between 10 and 1,000 h/yr | Zone 1                                      | Zone 21                                                                   | 特性类型 2<br>Category 2 | 高<br>high                     | 爆炸有时发生<br>Normally occurring disturbances |
| 很少发生, 短时发生, 每年少于10小时<br>Infrequently, for a short term, less than 10 h/yr               | Zone 2                                      | Zone 22                                                                   | 特性类型 3<br>Category 3 | 一般<br>normal                  | 在正常运行条件下<br>Normal operating conditions   |

## 六. JRPH 行星齿轮箱

### JRPH Planetary Gear Units

#### 产品用途/Product application:

本系列产品主要应用于回转机构的驱动。产品结构紧凑，安装空间小，驱动扭矩大，广泛应用于塔机、风力发电、起重等设备上。该系列产品的动力输入可有各种电机和驱动泵配置，满足不同用户的各种要求。

This series of products mainly used in slew-driven system.

Compact structure, small installation space, high drive torque, and is widely used in tower cranes, wind power, hoisting equipment and other devices. The driving force for the importation of products can have a variety of motor and pump drive configurations to meet various requirements of different users.

#### 产品性能特点 ( Product performance characteristics ) :

本产品是我公司引进欧洲技术，产品遵循模块化、最优化设计理念。齿轮采用特殊修形技术并经渗碳淬火磨削加工，确保了产品的低噪音、低振动和高承载、长寿命的要求。轴承、油封采用世界知名品牌，有效地确保了整机性能。

This product is designed with the introduction of European technology, follow modular and optimization design concept. Special modification of gear technology and carburizing quenching by grinding to ensure that the products low-noise, low vibration and high load, long-life requirements. Bearings, oil seals using a world-renowned brands, ensuring the effective performance of the machine.

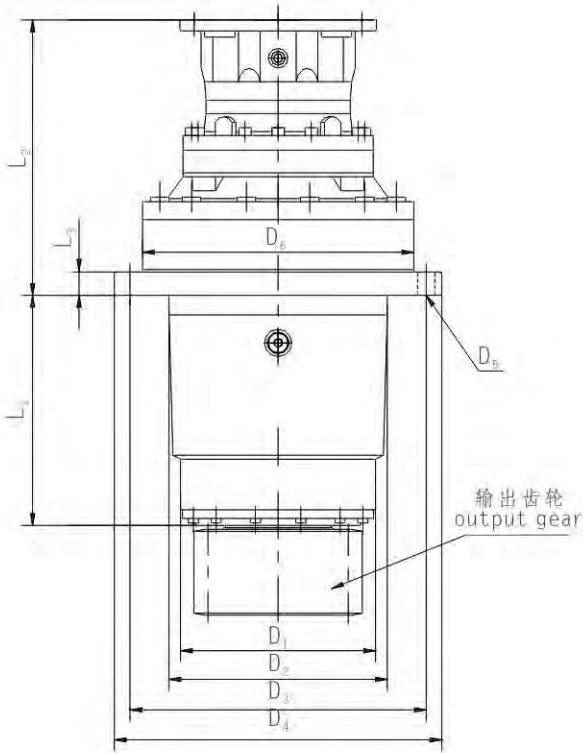
#### 技术参数/Technical parameters:

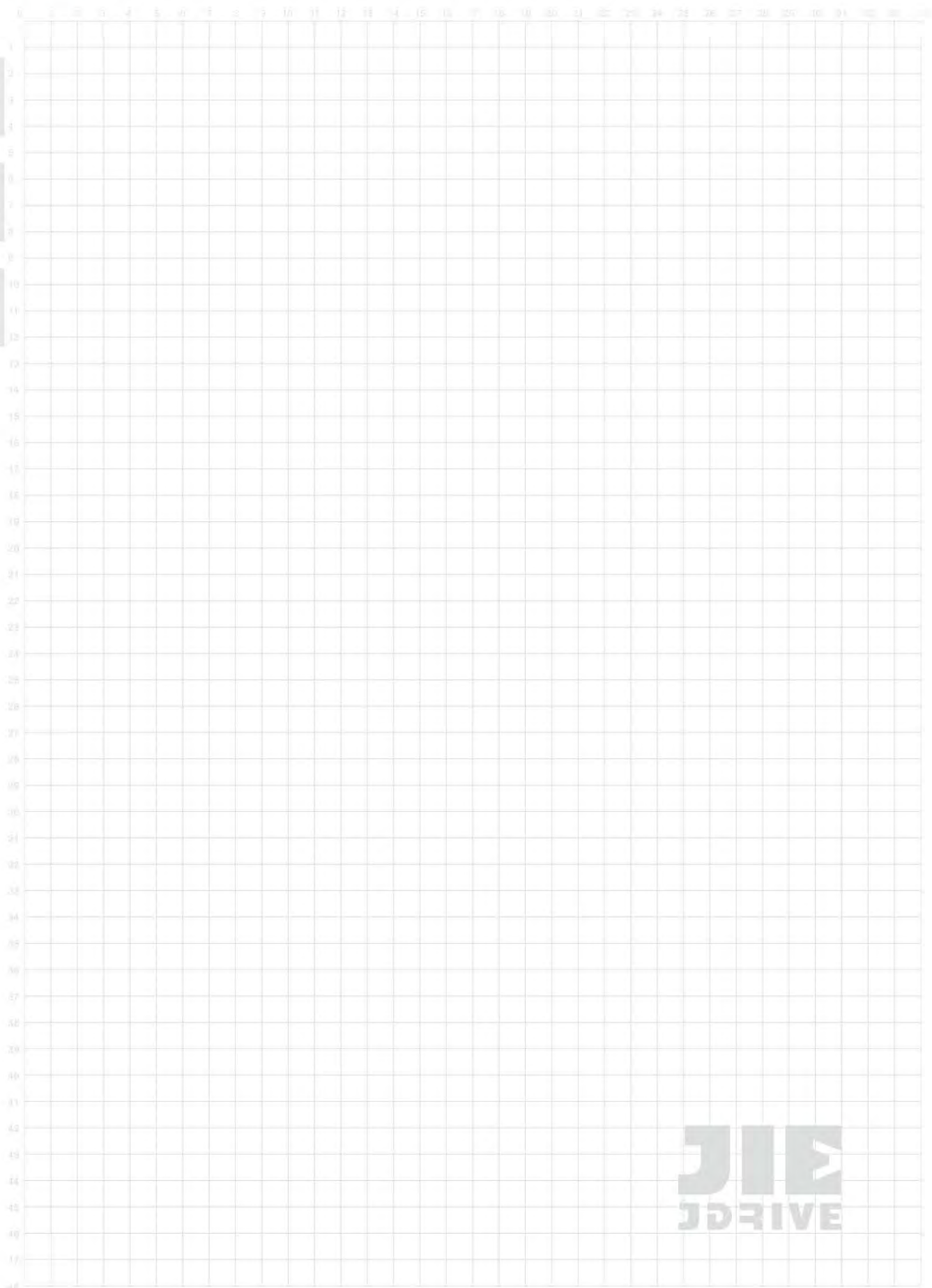
| 型号<br>Model | 额定输出扭矩<br>Rated output torque<br>(Nm) | 最大输出扭矩<br>Max. output torque<br>(Nm) | 传动比范围<br>Ratio range                                          |
|-------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------|
| JRPH08      | 8000                                  | 15000                                | 可按用户具体<br>要求生产<br><br>Can be made as per<br>user requirements |
| JRPH12      | 12000                                 | 25000                                |                                                               |
| JRPH18      | 18000                                 | 30000                                |                                                               |
| JRPH25      | 25000                                 | 50000                                |                                                               |
| JRPH35      | 35000                                 | 80000                                |                                                               |
| JRPH40      | 40000                                 | 90000                                |                                                               |
| JRPH50      | 50000                                 | 100000                               |                                                               |
| JRPH80      | 80000                                 | 140000                               |                                                               |
| JRPH100     | 100000                                | 180000                               |                                                               |

外形尺寸 ( Overall dimensions ) :

| 型 号<br>Model | D1  | D2  | D3  | D4  | D5   | D6  | L1  | L2   | L3 | 输出齿轮参数<br>Output gear parameters                                                |
|--------------|-----|-----|-----|-----|------|-----|-----|------|----|---------------------------------------------------------------------------------|
| JRPH08       | 184 | 290 | 325 | 350 | 14.5 | 290 | 289 | 196  | 26 | 输出齿轮<br>可按用户<br>要求生产<br>Output gear can<br>be made as per<br>user requirements. |
| JRPH12       | 230 | 280 | 314 | 348 | 17   | 348 | 300 | 360  | 98 |                                                                                 |
| JRPH18       | 250 | 280 | 380 | 420 | 17   | 348 | 295 | 353  | 30 |                                                                                 |
| JRPH25       | 300 | 425 | 450 | 500 | 22   | 400 | 360 | 500  | 40 |                                                                                 |
| JRPH35       | 300 | 425 | 460 | 500 | 22   | 428 | 350 | 520  | 40 |                                                                                 |
| JRPH40       | —   | 400 | 445 | 490 | 21   | 428 | 110 | 700  | 40 |                                                                                 |
| JRPH50       | 340 | 400 | 510 | 560 | 22   | 445 | 430 | 630  | 30 |                                                                                 |
| JRPH80       | 370 | 470 | 600 | 640 | 22   | 542 | 470 | 670  | 36 |                                                                                 |
| JRPH100      | —   | 555 | 600 | 645 | 28   | 542 | 100 | 1100 | 40 |                                                                                 |

注：上述尺寸仅供参考，具体安装尺寸请咨询杰牌，杰牌也可按用户要求生产。  
Note: above dimensions for reference, detail dimensions refer to JIE,JIE also can be made as perusers requirements.



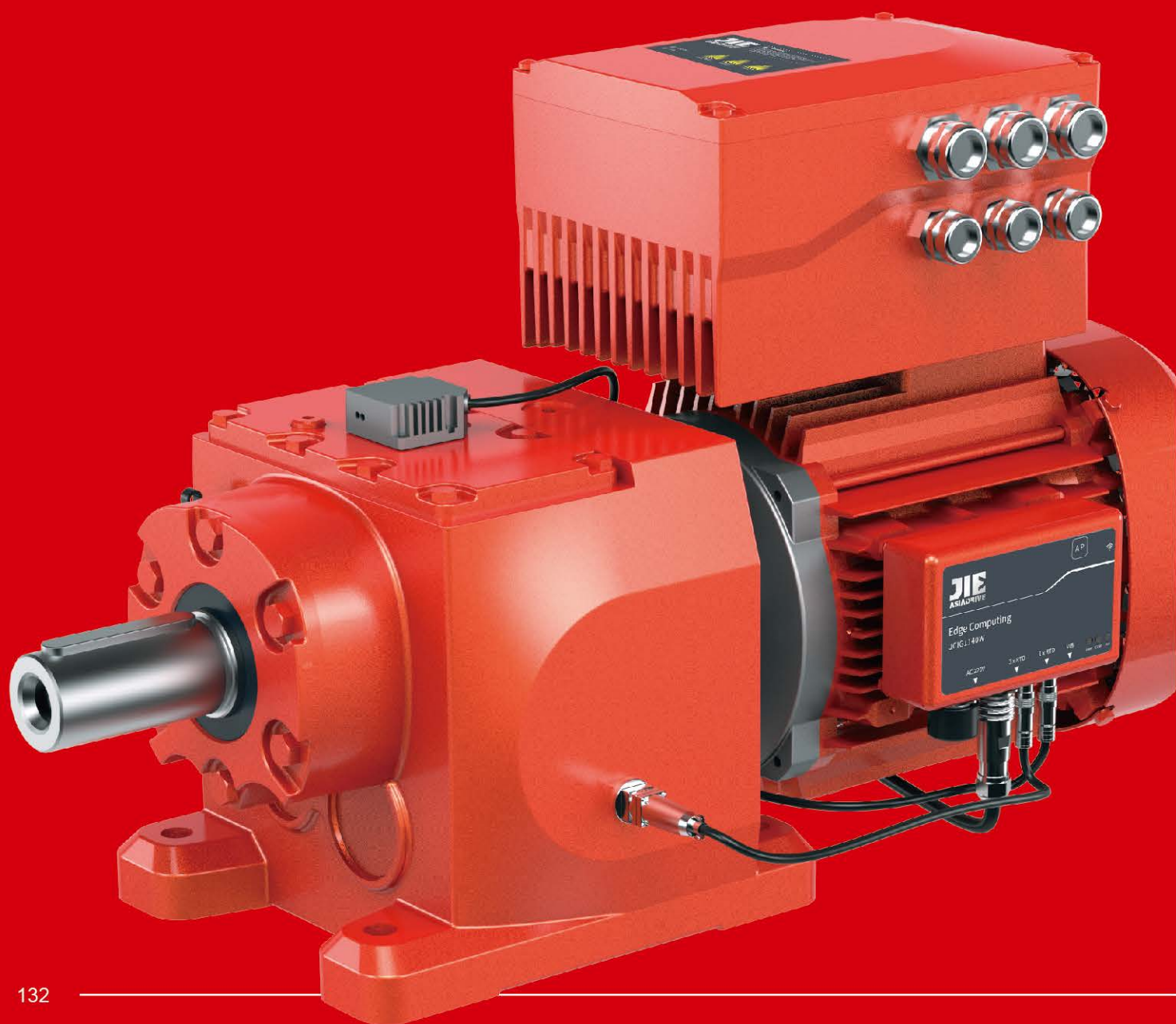




# 杰牌传动产品目录

## JIE DRIVE

## PRODUCT CATALOGUE





|            |                                                                                                                                                                                                       |                                                                                                                                                                                                |                                                                                                                                                                                                            |                                                                                                                                                                                       |                                                                                                                                                                                      |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JRT 齿轮减速电机 |  <p>JRTR<br/>齿轮减速电机<br/>规格: 17~187<br/>传动比: 3.37~289.74<br/>输入功率: 0.12~250 kW<br/>输出扭矩: 2.4~56494 Nm</p>             |  <p>JRTF<br/>平行轴-齿轮减速电机<br/>规格: 37~187<br/>传动比: 3.77~281.71<br/>输入功率: 0.12~250kW<br/>输出扭矩: 3.5~37125Nm</p>   |  <p>JRTK<br/>锥齿轮-齿轮减速电机<br/>规格: 37~187<br/>传动比: 3.98~197.37<br/>输入功率: 0.12~200kW<br/>输出扭矩: 10~62800Nm</p>               |  <p>JRST<br/>蜗杆副-齿轮减速电机<br/>规格: 37~97<br/>传动比: 6.8~288<br/>输入功率: 0.12~22kW<br/>输出扭矩: 10~4900Nm</p> |  <p>JRTRX<br/>齿轮减速电机<br/>规格: 57~107<br/>传动比: 1.3~8.65<br/>输入功率: 0.12~45kW<br/>输出扭矩: 1.4~990Nm</p> |
| JRH 工业齿轮箱  |  <p>JRHH<br/>平行轴齿轮箱<br/>规格: 3~28<br/>传动比: 1.25~450<br/>输入功率: 4.3~10515kW<br/>输出扭矩: 2300~1400000Nm</p>                |  <p>JRHB<br/>直交轴齿轮箱<br/>规格: 4~28<br/>传动比: 5~400<br/>输入功率: 2.8~4908kW<br/>输出扭矩: 5500~1400000Nm</p>            |  <p>JRHD<br/>斗提机齿轮箱<br/>规格: 5~16<br/>传动比: 25~71<br/>输入功率: 16~1305kW<br/>输出扭矩: 11000~173000Nm</p>                        |  <p>JRHO<br/>棕榈油齿轮箱<br/>规格: 310<br/>传动比: 56、80<br/>输入功率: 106、141kW<br/>输出扭矩: 75000Nm</p>           |  <p>JRHA<br/>空冷岛齿轮箱<br/>规格: 166<br/>传动比: 14<br/>输入功率: 228kW<br/>输出扭矩: 21000Nm</p>                 |
| JRP 行星齿轮箱  |  <p>JRP<br/>大型行星齿轮箱<br/>规格: 9~36<br/>传动比: 25~4000<br/>输入功率: 0.4~12934kW<br/>输出扭矩: 22000~2600000Nm</p>                |  <p>JRP<br/>小型行星齿轮箱<br/>规格: 01~8<br/>传动比: 3.08~3460<br/>输入功率: 0.02~192kW<br/>输出扭矩: 1000~13000Nm</p>          |  <p>JRPH<br/>回转行星齿轮箱<br/>规格: 08~100<br/>传动比: 3.4~2000<br/>输入功率: 75~250kW<br/>输出扭矩: 8000~100000Nm</p>                    |  <p>VR<br/>同心轴行星减速机<br/>速比: 3~100<br/>背隙: 1~3/3~5/5~7/3arc-min<br/>扭矩: 6~3300Nm</p>                |  <p>EV<br/>直角轴行星减速机<br/>速比: 3~100<br/>背隙: 4~9/6~11arc-min<br/>扭矩: 12~1920Nm</p>                   |
| JRW 蜗杆减速机  |  <p>JRW<br/>蜗杆减速机<br/>规格: 30~150<br/>传动比: 7.5~100<br/>输入功率: 0.1~25.8kW<br/>输出扭矩: 13~1550Nm</p>                      |  <p>JRWD<br/>蜗杆减速机<br/>规格: 25~150<br/>传动比: 7.5~100<br/>输入功率: 0.06~15kW<br/>输出扭矩: 2.6~1760Nm</p>             |  <p>JRWND<br/>NEMA蜗杆减速机<br/>规格: 30~150<br/>传动比: 7.5~100<br/>输入功率: 0.06~15kW<br/>输出扭矩: 2.6~1760Nm</p>                   |  <p>WPA<br/>蜗杆减速机<br/>规格: 40~250<br/>传动比: 10~60<br/>输入功率: 0.12~33.2kW<br/>输出扭矩: 19~2745Nm</p>     |  <p>WPW<br/>蜗杆减速机<br/>规格: 40~250<br/>传动比: 10~60<br/>输入功率: 0.12~33.2kW<br/>输出扭矩: 6~3025Nm</p>     |
| JD 电动机     |  <p>JD<br/>IEC电机<br/>规格: 63~315<br/>功率: 0.12~200kW<br/>能效: IE2、IE3、IE4 (0.75~200kW)</p>                            |  <p>JDP<br/>NEMA电机<br/>规格: 63~315<br/>功率: 0.12~200kW<br/>能效: IE2、IE3、IE4 (0.75~200kW)</p>                  |  <p>JDN<br/>NEMA电机<br/>规格: 63~180<br/>功率: 0.12~22kW<br/>能效: IE2、IE3、IE4</p>                                           |  <p>JDB<br/>防爆电机<br/>规格: 80~315<br/>功率: 0.75~200kW<br/>防爆等级: Exib II BT4<br/>能效: IE2、IE3</p>     |  <p>JDC<br/>伺服电机<br/>规格: 30~90<br/>功率: 0.4~7.5kW<br/>额定扭矩: 1.27~48Nm</p>                        |
| JC 智能传动方案  |  <p>JC<br/>智能传动方案<br/>减速机+电动机+变频器<br/>+传感器+物联网等行业传动方案</p>                                                          |  <p>JCI<br/>智能监测系统<br/>监测项目: 振动、温度、湿度、<br/>气压、电压、电流、地理位置等</p>                                              |  <p>JCM<br/>变频一体减速机<br/>规格: 004~0075<br/>功率: 0.4~7.5kW<br/>防护等级: IP54~IP65<br/>供电: 3AC 380~440V<br/>输出频率: 0~200Hz</p> |  <p>JCF<br/>变频器<br/>规格: 0075~0550<br/>功率: 0.75~55kW<br/>输出频率: 0~200Hz<br/>载波频率: 8~32KHz</p>      |  <p>JCS<br/>伺服驱动器<br/>规格: FSA/FSB/FSC<br/>功率: 0.4~7.5kW<br/>供电: 1AC 220V/3AC 380V</p>           |
| 其它减速机      |  <p>JRESR<br/>不锈钢齿轮减速电机<br/>规格: 37~67<br/>传动比: 3.41~199.81<br/>输入功率: 0.18~7.5kW<br/>输出扭矩: 26~670Nm</p>             |  <p>JRESK<br/>锥齿轮-不锈钢齿轮减速电机<br/>规格: 37~67<br/>传动比: 3.98~145.14<br/>输入功率: 0.18~5.5kW<br/>输出扭矩: 12~910Nm</p> |  <p>JRESS<br/>不锈钢蜗杆减速机<br/>规格: 40~90<br/>传动比: 7.5~100<br/>输入功率: 0.09~4kW<br/>输出扭矩: 19~458Nm</p>                       |  <p>JRSS<br/>丝杆升降机<br/>规格: 35~150<br/>传动比: 5~40<br/>输入功率: 0.19~16.3kW<br/>起升力: 500~26050kg</p>   |  <p>JRTM<br/>锥齿轮转向器<br/>规格: 2~25<br/>传动比: 1~5<br/>输入功率: 0.014~335kW<br/>输入转速: 10~1450r/min</p>  |
|            |  <p>JRGCE<br/>工程分动箱<br/>规格: 0401、1501<br/>传动比: 0.589、0.659、0.756、0.825<br/>输出泵最大扭矩: 1390Nm<br/>行走最大扭矩: 40000Nm</p> |  <p>JTA<br/>轴装式减速机<br/>规格: 80/90~100/120<br/>速比: 5~31.5<br/>功率: 11~45KW<br/>扭矩: 6600~10500Nm</p>           |  <p>JEC<br/>扶梯主机<br/>规格: 2~15、2~25<br/>传动比: 24.5<br/>效率: ≥96%<br/>使用寿命: 146000h<br/>输出扭矩: 3530~5150Nm</p>             |  <p>JN<br/>农机齿轮箱<br/>传动比: 0.364~2.33<br/>输入转速: 800r/min<br/>效率: ≥96%</p>                         |  <p>杰牌智能传动方案提供商<br/>更多产品敬请咨询</p>                                                                |



## 杰牌智能传动平台产品

### Platform Products of JIE Intelligent Drive

产品标准化实现平台化, 工艺标准化实现自动化, 流程标准化实现信息化。

Standardizing the products to realize platformization, Standardizing the technologies to realize automation, Standardizing the processes to realize informatization.



## 杰牌智能传动项目应用案例

### An application case of JIE Intelligent Drive Solutions

智能计划物流、箱体智能工厂、齿轮智能工厂、电机智能工厂、装配智能工厂、智能检测试验等项目传动方案。

Projects Drive Solutions incl. Intelligent Planning Logistics, Intelligent Plant of Gear Housings, Intelligent Plant of Gears, Intelligent Plant of Motors, Intelligent Plant of Assembly, Intelligent Tests, etc.



RGV 小车传动方案  
Drive Solutions for RGVs



输送线传动方案  
Drive Solutions for Transmission Lines



升降梯传动方案  
Drive Solutions for Elevators



堆垛机传动方案  
Drive Solutions for Stackers



起重机传动方案  
Drive Solutions for Cranes



FMS 生产线传动方案  
Drive Solutions for FMS Production Lines



热处理线传动方案  
Drive Solutions for Heat Treatment Lines



电机绕嵌线传动方案  
Drive Solutions for Motors Winding & Embedding



产品总装线传动方案  
Drive Solutions for Product Assembly Lines



工业吊扇传动方案  
Drive Solutions for Industrial Ceiling Fans

## 杰牌智能传动项目

### JIE Intelligent Drive Project

智能工厂+智能产品+智能服务, 推进精益生产, 建设智能工厂, 构建产业联盟, 实现合作共赢。

Intelligent Plants + Intelligent Products + Intelligent Services, to promote lean production and build intelligent plants, and to build industrial alliances and achieve win-win cooperation.



## 杰牌智能传动行业应用案例

### Industrial application cases of JIE Intelligent Drive Solutions

杰牌“新、衣、食、住、行、源、运”等行业传动方案。

JIE Industrial Drive Solutions for New Manufacturing, Clothing, Food, Residence, Traveling, Energy, Transportation, etc.



智能制造行业传动方案  
Drive Solutions for Intelligent Manufacturing Industry



物流装备行业传动方案  
Drive Solutions for Logistics Equipment Industry



纺织印染行业传动方案  
Drive Solutions for Textile & Dyeing Industry



食品饮料行业传动方案  
Drive Solutions for Food & Beverage Industry



工程机械行业传动方案  
Drive Solutions for Construction Machinery Industry



水泥建材行业传动方案  
Drive Solutions for Cement & Building Materials Industry



汽车工程行业传动方案  
Drive Solutions for Automobile Engineering Industry



电力能源行业传动方案  
Drive Solutions for Power & Energy Industry



石油化工行业传动方案  
Drive Solutions for Petrochemical Industry



起重运输行业传动方案  
Drive Solutions for Lifting & Transportation Industry



## 杰牌智能传动工业园

### JIE Intelligent Drive Industrial Zone

生产区:1号工厂、2号工厂、3号工厂、万杰工厂、5号工厂; 办公区:A座商务中心、B座创新中心、C座运营中心;  
生活区:匠心楼、群英楼、精益楼。

Production Area: No.1 Plant, No.2 Plant, No. 3 Plant, Wanjie Plant, No. 5 Plant;  
Office Area: Building A Business Center, Building B Innovation Center, Building C Operation Center;  
Living Area: Artisans Building, Elites Building, Lean Building.



## 杰牌智能传动方案提供商

### JIE Intelligent Drive Solutions Provider

杰牌智能传动项目应用智能产品、建设智能工厂、生产智能产品,为用户提供智能产品、智能服务、智能体验,实现一台减速机的智能制造之旅和智能监测运维。

JIE Intelligent Drive Project, which applies intelligent products to build intelligent plants and produce intelligent products, to serve the customers with intelligent products, intelligent services and intelligent experience, has realized a journey of intelligent manufacturing, intelligent operation & maintenance monitoring for a reducer.



## 杰牌研产供销服一体化平台

### JIE Platform integrated with research, production, supply, marketing and service

全流程的生态系统、多系统的数据中台、一体化的工业大脑。

A whole-process ecosystem, A multi-system data center and an integrated industrial brain.



## 杰牌美丽工厂

### JIE Beautiful Plants

打造“环境友好型、发展持续性、服务全球型”的小而美公司。

To build a small but excellent company of "Environment-friendly, Sustainable and Global service".





# 在专业化的路上走向胜利

## On road to specialization strive together

陈 杰 词  
Lyric: Chen Jie  
钱建隆 曲  
Music: Qian JianLong

1 =  $\text{bE}$   $\frac{4}{4}$

稍快、朝气蓬勃地  
allegretto, full of youth

||: (  $\overset{3}{111}$   $\overset{3}{111}$   $\overset{3}{111}$  1 |  $\overset{3}{111}$   $\overset{3}{111}$   $\overset{3}{111}$  1 |  $\underline{5.1123456}$  |  $\overset{3}{5} \underline{5.5.5} 1 0$  ) |

$\underline{5.1} 1 2 3 1 0$  |  $\underline{5.4} 3 2 3 1 0$  |  $\dot{1} \cdot 7 \underline{7} \underline{6} \underline{6} 5$  |  $\underline{6} 5 3 4 5 -$  |

要做 就做 一流 是我 永恒 追求 产业 联盟 我们 一起 走  
To be the star is my eternal pursue industrial union we walk together  
产业 事业 家业 共同 富裕 和谐 目标 在 前 我们 一起 走  
Estate career family harmonious with wealth for the goal ahead we walk together

$\underline{5.1} 1 2 3 1 0$  |  $\underline{5.4} 3 2 3 1 0$  |  $\dot{1} \dot{1} \dot{7} \dot{6}$  |  $\underline{5.4} 3 4 2^{\vee} 1$  |

聚 万物 之灵 造 天地 之杰 产 业 发 展 我们 一起 走 啦  
Nimbus from all beings making it outstanding industry developing we walk together La

团结 创新 专业 推动 联盟 发展 胜 利 在 前 我们 一起 走 啦  
Join Innovation Expertise enhancing the union for the victory ahead we walk together La

$\dot{1} - \dot{1} \dot{1} 7 \dot{1}$  |  $5 - - 1$  |  $6 - \underline{6} \underline{6} 7 \dot{1}$  |  $3 - - -$  |

啦 啦 啦 啦 啦 啦 啦 啦 啦 啦 啦 啦  
La La La La La La La La La La La La

(节奏强烈、有冲击力)  
(hot, powerful)

1 - 4 5 |  $\underline{6.7} \dot{1} 6 \cdot 5$  |  $6 6 \underline{5.4} 3 5$  |  $5 - - -$  |

在 专 业 化 的 路 上 我们 一起 努力  
On road to specialization we strive together

1 - 4 5 |  $\underline{6.7} \dot{1} 6 \cdot 5$  |  $4 3 \underline{2.2} 1 2$  |  $2 - - -$  |

在 专 业 化 的 路 上 我们 走向 胜 利  
On road to specialization we go to victory

1 - 4 5 |  $\underline{6.7} \dot{1} 6 \cdot 5$  |  $6 6 \underline{5.4} 3 6$  |  $6 - - -$  |

在 专 业 化 的 路 上 我们 一起 努力  
On road to specialization we strive together

1 - 4 5 |  $\underline{6.7} \dot{1} 6 \cdot 5$  |  $\overset{1}{4} 3 \underline{2.2} 3 \overset{1}{1}$  |  $1 - - -$  ||

在 专 业 化 的 路 上 我们 走向 胜 利  
On road to specialization we go to victory

$\overset{2}{4} 3 \underline{2.2} 3 1$  |  $1 0 0 \dot{1}$  |  $\dot{1} - 0 0$  |  $0 0 0 0$  ||

我 们 走 向 胜 利 胜 利  
we go to victory Victory