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五. WP 蜗杆减速机 WP Worm Gearbox

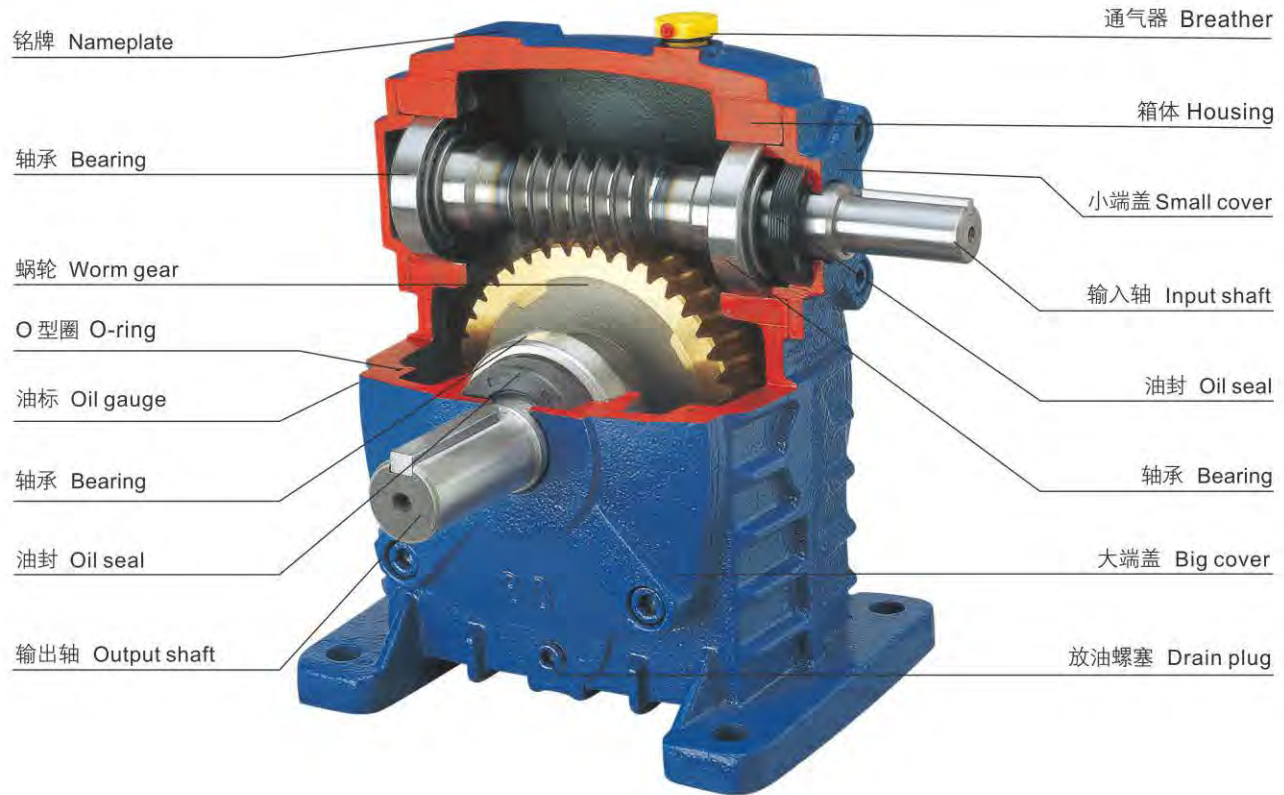
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1. 产品结构 Products Structure



2. 型号说明 Model Description

W P W E D K A 50/80 - 600 - B

1 2 3 4 5 6 7 8 9 10

1 企业代码 W -万杰公司 Enterprise code W -JIE Drive	2 箱体结构 P -整体 Housing structure P -whole	3 箱体型式 W -万能型 无代码-基本型 Housing model W -universal Non-code-basic	4 整机结构 E -双级 EE -多级 无代码-基本型 Unit structure E -double EE -multistage Non-code-basic	5 输入轴联接方式 D -带电机法兰 无代码-基本型 Connector of input shaft D -with motor flange Non-code-basic
6 输出轴结构 K -中空输出轴 无代码-基本型 Structure of output shaft K -hollow Non-code-basic	7 输出、输入轴式 A -入轴在下 S -入轴在上 O -出轴向上 X -出轴向下 T -入轴向上 V -入轴向下 无代码-万能型 Arrangement of input or output shaft A -input shaft is below S -input shaft is above O -output shaft is upward X -output shaft is downward T -input shaft is upward V -input shaft is downward Non-code-universal	8 规格 以中心距表示 50/80 Size signed by center distance 50/80	9 传动比 600 Transmission ratio 600	10 轴指向 按产品样本轴指向图选定 B Selecting it according to shaft direction figure in this manual B

3. 产品说明

Product Description

杰牌WP蜗杆减速机,拥有自主知识产权,产品采用铸铁箱体,具有坚固耐用、运转平稳、低噪音、不漏油和快交付等亮点,包括WP蜗杆减速机、WPW多置式蜗杆减速机等全系列产品。



杰牌WP蜗杆减速机,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WP蜗杆减速机,遵循模块化和最优化设计理念,产品包括蜗杆减速机,实心轴输入接口、IEC电机输入接口,实心轴输出模块、空心轴输出模块,底脚安装、法兰安装等输入接口、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!

WP worm gearbox with independent intellectual property rights. The product uses the cast iron housing, which is durable and features smooth running, low noise, no oil leakage and short lead time. It includes WP worm gearbox and WPW multi-position worm gearbox.

WP worm gearbox 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".

WP worm gearbox follows the concept of modular and optimized design. It includes worm gearbox, solid shaft input interface, IEC electric motor input interface, solid shaft output module, hollow shaft output module, foot mounting, mounting without foot and flange mounting. 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 for great clients across the world!

4. 选型说明

Selection Description

4.1 杰牌传动WP产品选型表



使用工况:

应用行业: _____ 设备名称: _____
 环境温度: _____ 环境湿度: _____
 海拔高度: _____ 使用场地: ☐室内 ☐室外
 起停频率: _____ 运行时间: _____
 负载时间: ☐15% ☐25% ☐40% ☐60% ☐100%
 现用品牌: _____ 现用型号: _____
 存在问题: _____ 需改进项: _____

产品信息:

包装附件类:
 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: ☐基座
 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
 安装尺寸类:
 产品类型: _____ (在附图中勾选)
 出轴方向: ☐A ☐B ☐C ☐D ☐E ☐F ☐G (见附图)
 出轴旋向: ☐顺时针 ☐逆时针 ☐双向
 性能指标类:
 传动比: $i =$ _____ 输出扭矩 (Nm): _____ 使用系数: _____

 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:

包装附件类:

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:

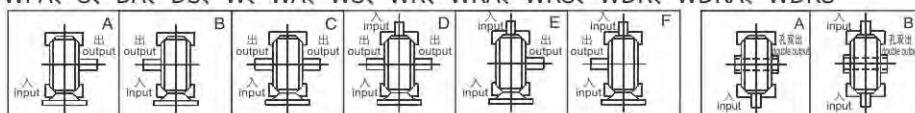
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结算价格:

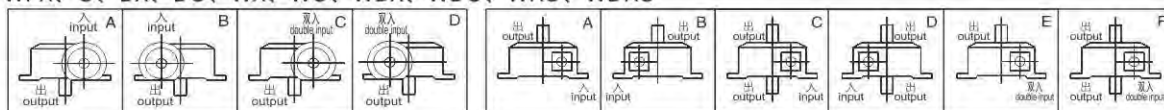
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安装方式:

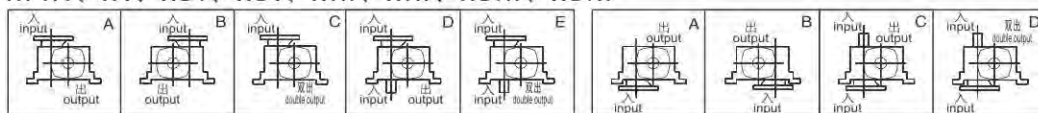
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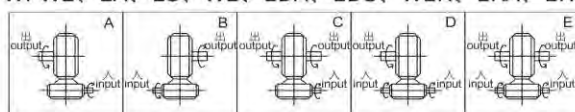
WPX、O、DX、DO、WX、WO、WDX、WDO、WKO、WDKO



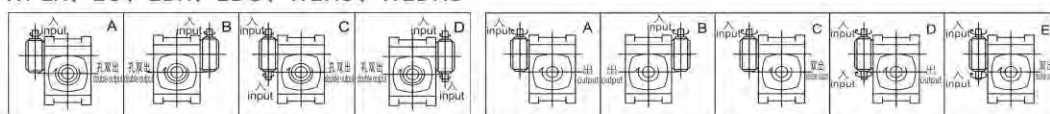
WPWT、WV、WDT、WDV、WKT、WKV、WDKT、WDKV



WPWE、EA、ES、WE、EDA、EDS、WEK、EKA、EKS、WEDK、WEDKA、WEDKS



WPXE、EO、EDX、EDO、WEKO、WEDKO



Selection Table of JIE WP 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:**

Packing accessories:

Packaging material: ☐Carton ☐Wooden case ☐Carton + Wooden case Case mark: ☐Chinese ☐EnglishRelevant data: ☐Certificate of conformity ☐Ex-factory inspection report ☐Chinese operating instruction
☐English operating instructionList of accessories: ☐Base

Appearance identification:

Paint color: ☐JMR-01 ☐JMG-01 ☐JGB-01 ☐RAL2002 ☐RAL5015 ☐RAL9003 ☐RAL7045 ☐RAL7031Nameplate requirement: ☐Chinese ☐EnglishAnti-corrosive grade: ☐Standard ☐JS1 ☐JS2 ☐JS3 ☐JS4

Installation dimension:

Product model: ____ (Check in the attached figure)

Output shaft direction: ☐A ☐B ☐C ☐D ☐E ☐F ☐GOutput shaft rotation: ☐Clockwise ☐Counterclockwise ☐Two-direction

Performance indicators:

Transmission ratio: $i=$ _____ Output torque (Nm): _____ 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 ☐8Rated voltage: ☐220/380V ☐380/660VMotor frequency: ☐50Hz ☐60Hz ☐87HzInsulation grade: ☐F ☐HProtection grade: ☐IP55 ☐IP56Working system: ☐S1 ☐S3-40%Cooling mode: ☐IC410 ☐IC411 ☐IC416Energy efficiency class: ☐IE2 ☐IE3Direction of rotation: ☐Clockwise ☐CounterclockwiseBraking voltage: ☐DC 24V ☐AC 220V ☐AC 380VBrake response: ☐Ordinary ☐FastRelease device: ☐Handle release HR ☐Screw release HF ☐NoneFan voltage: ☐DC 24V ☐AC 220V (1~) ☐AC 220V (1~) ☐AC 380V (3~)Fan frequency: ☐50Hz ☐60Hz

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 maintenance

Design selection: ☐ Participate in design ☐ Design verification ☐ Product selection

Demand confirmation: ☐ Working condition confirmation ☐ Product confirmation ☐ Service confirmation

In-sales service: ☐ On-site full inspection ☐ Process sampling ☐ Ex-factory inspection

After-sales service: ☐ Installation and commissioning ☐ Testing and maintenance ☐ Spare parts

Business information:

Transportation:

Delivery place:

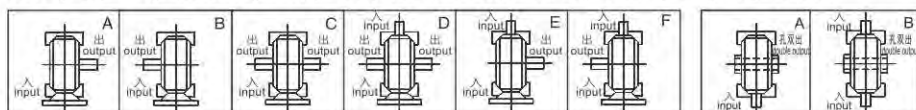
Delivery time:

Order quantity:

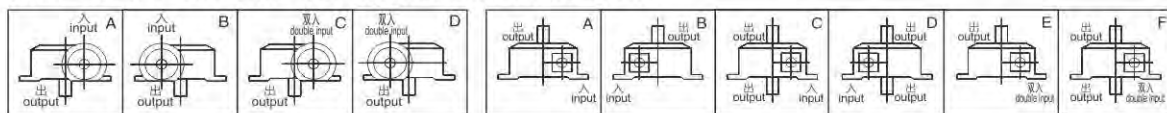
Settlement price:

Attached figure:

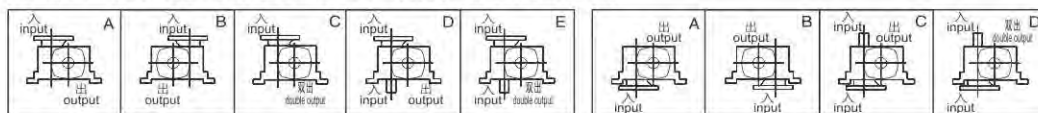
WPA、S、DA、DS、W、WA、WS、WK、WKA、WKS、WDK、WDKA、WDKS



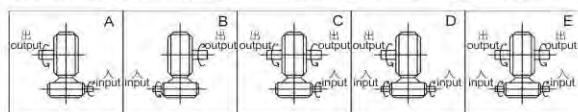
WPX、O、DX、DO、WX、WO、WDX、WDO、WKO、WDKO



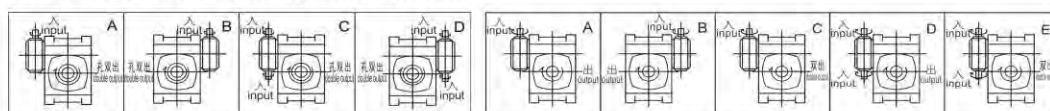
WPWT、WV、WDT、WDV、WKT、WKV、WDKT、WDKV



WPWE、EA、ES、WE、EDA、EDS、WEK、EKA、EKS、WEDK、WEDKA、WEDKS



WPX、EO、EDX、EDO、WEKO、WEDKO



4.2 选型要素 Selection points

4.2.1 输入功率、输出扭矩 Input power & output torque

输入功率和输出扭矩的转换公式如下：

The formula of transforming input power to output torque is listed as follows:

输入功率 $P(\text{kW}) = \text{输出扭矩 } T(\text{Nm}) \times \text{输出转速 } N_2(\text{r/min}) / (9549 \times \text{效率 } \eta)$
input power $P(\text{kW}) = \text{output torque } T(\text{Nm}) \times \text{output revolving speed } N_2(\text{r/min}) / (9549 \times \text{efficiency } \eta)$

减速机输入功率为减速机的输入动力容量，输出扭矩为减速机许用承载能力，均在产品的各“功率、扭矩”表中列出，可供选型时参照选用。

Input power denotes the dynamical capacity of a reducer, and output torque denotes the maximum load a reducer allows, which are both listed in power and torque tables in order to serving selection.



4.2.2 输入转速、输出转速 Revolving speed of input shaft and output shaft

输入和输出转速公式如下：

The formula of transforming input revolving speed to output is listed as follows:

输出转速 $N_2(\text{r/min}) = \text{输入转速 } N_1(\text{r/min}) / \text{传动比 } i$
Output revolving speed $N_2(\text{r/min}) = \text{input revolving speed } N_1(\text{r/min}) / \text{transmission ratio } i$

当减速机以皮带轮、链轮及联轴器传动时，输入转速不宜超过2000(r/min)，一般转速范围600~1800(r/min)，转速过高易使轴承加重磨擦而缩短寿命。

With belt-pulley, couplings or sprocket wheel shaft transmission, the input speed should not exceed 2000(r/min); the general range is 600~1800RPM. If the revolving speed is too high, the bearing will have less life due to over-friction.

注：名义传动比与实际传动比可能有差异，具体参照“实际传动比表（68）”。

Note: The actual transmission ratio may be different from transmission ratio, please see page 68 "Actual transmission ratio".

4.2.3 效率 Efficiencies

效率计算公式如下：

The efficiency calculation formula is listed as follows:

效率 $\eta = (\text{输出功率} / \text{输入功率}) \times 100\%$
Efficiency $\eta = \text{output power} \times 100\% / \text{input power}$

由于减速机运转时内部存在磨擦及振动、部分输入能量将转化为热能等非工作消耗，效率就是减速机输入能量的利用率，效率的高低取决于蜗杆头数、蜗杆转速、润滑油粘度、轴承磨擦阻力及蜗杆副材质的磨擦系数等。每种规格、传动比的减速机，其效率数值各不相同，下表列出效率的一般范围数值，可供选型时参考：

Due to the internal vibration and wear, partial input energy will be transformed to be heat energy and fade away, efficiency is the utilization ratios of input energy. The efficiency depends on worm's tooth number, revolving speed, lubricant oil viscosity, bearing friction and worm gear's material friction factor. Reducers with various model or transmission ratio have various efficiency. The following table lists the range of the efficiency value.

传动比 Ratio	1/10	1/15	1/20	1/25	1/30	1/40	1/50	1/60
效率 Efficiency	77~90%	76~88%	75~84%	72~82%	68~82%	64~75%	62~72%	60~71%

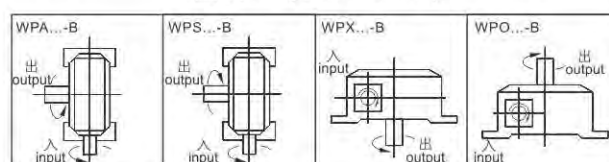
4.2.4 输入轴、输出轴回转方向

Revolving direction of input and output shaft

蜗杆减速机输出轴回转方向取决于蜗杆螺牙方向，基本型蜗杆减速机均为右旋螺牙，以杰牌的产品样本上 WPA 照片为依据，面对输入轴、输出轴观看，当输入轴顺时针方向旋转时，输出轴旋转方向为逆时针；以 WPS 照片为依据，面对输入轴、输出轴观看，当输入轴顺时针方向旋转时，输出轴旋转方向为顺时针；或参照图例 4.1。其余各种输出轴装配结构可按以上方法判定转向。当按特殊需要蜗杆螺牙方向制成左旋时，情况正好相反。

The revolving direction of output shaft relies on worm thread's direction; right-directed thread is for basic use. According to the photograph of WPA in our product manual, facing input shaft and output shaft, when input shaft is in clockwise, output shaft is in counter-clockwise; and according to the photograph of WPS, facing input shaft and output shaft, when input shaft is in clockwise, output shaft is in clockwise too; for other output shaft assembly structure, the method of ensuring revolving direction is as above or the cutline 4.1. It will be adverse when the worm shaft is left-directed.

图例4.1(Cutline 4.1)



4.2.5 工况系数

Service Factor

减速机在设计时，其输入动力容量及许用承载能力的强度计算按照每天连续运转八小时、载荷稳定不变的理想工况设定，在实际使用时，现场工况（如：是否有反复启动停止或频繁正反转，使用时间是否少于或多于八小时，冲击载荷大小及特性）可能与理想工况相差甚远，在选型时应予充分考虑，在选用减速机输入功率或输出扭矩时，可按下列公式加以修正：

When gearbox is designed, the input load capacity and allowed intensity are calculated a continual operation of 8 hours a day and the ideal conditions of a uniform load design. However, the on-site use (e.g. repetitive start-up, stop or obverse and reverse rotation, use time more or less than 8 hours a day, different value and characteristics of impact load from standard conditions and so on) may be different from ideal use which should be taken into account. While selecting reducer input power or output torque, revise them according to the following formula:

修正输出扭矩 T_2 (Nm) = 理论输出扭矩 T_1 (Nm) × 工况系数 K

Revised output torque T_2 (N·m) = theoretic output torque T_1 (N·m) × running condition factor K

工况系数 K 值表

Table of Service factor K

原动机 Prime mover	载荷状况 Load	每日运转时间（小时）Operation time per day(hour)			
		0.5~2	2~6	6~10	10~24
电动机 Electromotor	平稳载荷 Uniform	0.80	0.90	1.00	1.25
	中等冲击 Medium shock	0.90	1.00	1.25	1.50
	较大冲击 Heavy shock	1.00	1.25	1.50	1.75
注：当正反转或停开次数1小时内达10次以上时，上表K值还应乘以1.2 Annotate: when the times of start-up, stop or obverse per hour is more than 10, the value K must multiply 1.2.					

4.2.6 产品标准颜色
Standard Color Of Products

代码 code 颜色 color

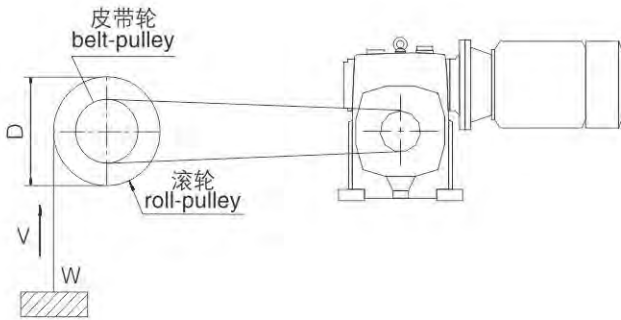
Y	
G	
B	

注：1.常规减速机颜色为Y
Colour of normal reducer is Y
2.印刷原因，颜色与实物稍有色差
Due to printing limitation, the color do not match the actual products exactly.



4.3 选型实例
Selection example

基本情况
The basic condition

传 动 结 构 Transmission structure	相 关 数 据 relative data
	● 起吊物体重量 W=600kg weight of suspended object W=600kg
	● 起吊物体速度 V=12m/min speed of suspended object V=12m/min
	● 滚轮直径 D=0.4m roll-pulley diameter D=0.4m
	● 皮带轮传动效率 $\eta_1=0.92$ efficiency of belt-pulley $\eta_1=0.92$
	● 减速机传动效率 $\eta_2=0.71$ efficiency of reducer $\eta_2=0.71$
	● 运转时间 8小时 / 日 running time 8 hours per day
	● 启动次数 2次 / 小时, 较大冲击 2 times per hour heavy shock
	● 使用电源 三相 380V,50Hz electrical source three-phase 380V, 50Hz

选型流程 Selection steps



序号 Number	内 容 Contents	计 算 公 式 Formula	计算示例 Example
1	定传动比 Calculate ratio	根据输入轴及输出轴的转速确定传动比 1.计算皮带轮转速 N_3 $N_3 = \text{起吊速度 } V / (\text{滚轮直径 } D \times \pi)$ 2.计算总传动比 i $i = \text{输入轴转速 } N_1 / \text{皮带轮转速 } N_3$ 3.计算减速机传动比 i_1 $i_1 = \text{总传动比 } i / \text{皮带轮传动比 } i_2$ Calculate the transmission ratio according to input and output shaft revolving speed 1. Get belt-pulley revolving speed N_3 $N_3 = \text{speed of suspended object } V / (\text{roll-pulley diameter } D \times \pi)$ 2. Calculate general transmission ratio i $i = \text{Input revolving speed } N_1 / \text{belt-pulley revolving speed } N_3$ 3. Calculate reducer transmission ratio i_1 $i_1 = \text{general ratio } i / \text{belt-pulley transmission ratio } i_2$	1. $N_3 = 12 / (0.4 \times 3.142)$ $= 9.6 \text{ r/min}$ 2. $i = 1440 / 9.6$ $= 150$ 3. 设定 $i_2 = 5$, 则 $i_1 = 150 / 5$ $= 30$
2	计算输出扭矩 Calculate output torque	计算减速机输出扭矩 T $T = \text{物体重量 } W \times 10 \times \text{滚轮半径 } (D/2) / (\text{皮带轮传动比 } i_2 \times \text{皮带轮传动效率 } \eta_1)$ Calculate reducer output torque T $T = \text{weight of suspended object } W \times 10 \times \text{roll-pulley radius } (D/2) / (\text{belt-pulley ratio } i_2 \times \text{belt-pulley transmission efficiency } \eta_1)$	$T = 600 \times 10 \times (0.4/2) / (5 \times 0.92)$ $= 260.9 \text{ Nm}$
3	修正输出扭矩 Revise output torque	根据使用条件, 8 小时运转、较大冲击, 工况系数 $K=1.5$ 计算修正输出扭矩 T_1 $T_1 = \text{输出扭矩 } T \times K$ According to using condition: operation 8 hours a day, heavy shock, running condition factor $K=1.5$ calculate revised torque T_1 $T_1 = \text{output torque } T \times K$	$T_1 = 260.9 \times 1.5$ $= 391 \text{ Nm}$
4	计算输入功率 Calculate input power	换算功率 P $P = \text{修正输出扭矩 } T_1 \times \text{输出轴转速 } N_2 / (9549 \times \text{减速机传动效率 } \eta_2)$ Calculate input shaft power P $P = \text{revised output torque } T_1 \times \text{output revolving speed } N_2 / (9549 \times \text{reducer transmission efficiency } \eta_2)$	$P = 391 \times (1440/30) / (9549 \times 0.71)$ $= 2.77 \text{ kW}$
5	选型号规格 Select model	根据产品样本, 选定型号120, 传动比 1/30.输入轴功率3kW.输出轴扭矩 413Nm According to product manual, the selection is, Model 120, ratio 1/30, rating input power 3kW, output torque 413Nm	

5. 技术参数

Technical Specifications

WP. WPK. WPW. WPWK (A.S.X.O.T.V) 型输入轴功率及输出轴扭矩表 Input and output
输入轴转速 Speed of input shaft: 1500r/min

功率及扭矩 transmission ratio 型号 size	输入轴功率 Input (kW)								输出轴扭矩 Output (Nm)							
	10	15	20	25	30	40	50	60	10	15	20	25	30	40	50	60
40	0.40	0.33	0.26	0.24	0.22	0.16	0.14	0.12	19	23	20	25	25	20	22	20
50	0.65	0.52	0.40	0.37	0.34	0.27	0.24	0.20	31	36	32	38	39	36	37	35
60	1.00	0.82	0.65	0.59	0.54	0.45	0.40	0.32	50	58	56	68	62	71	75	59
70	1.60	1.35	1.10	0.96	0.82	0.67	0.61	0.52	83	98	101	112	99	104	113	97
80	2.20	1.78	1.36	1.28	1.20	0.90	0.80	0.75	113	133	120	149	151	140	145	146
100	3.60	3.10	2.60	2.35	2.10	1.68	1.30	1.00	193	237	258	284	277	291	257	229
120	5.20	4.35	3.50	3.25	3.00	2.20	1.90	1.50	262	336	361	404	413	392	399	355
135	9.75	7.85	6.00	5.50	5.00	3.69	2.89	2.30	540	622	619	696	707	667	626	562
147	10.71	8.43	6.18	5.71	5.23	3.84	3.09	2.52	586	676	637	727	739	694	669	616
155	12.80	9.90	7.00	6.53	6.00	4.40	3.61	3.00	709	785	722	842	848	784	770	791
175	17.30	13.60	10.00	9.13	8.30	6.18	4.85	4.07	958	1091	1044	1221	1189	1133	1127	1078
200	22.60	18.20	13.86	12.75	11.67	8.78	6.71	5.58	1280	1477	1482	1643	1782	1654	1516	1449
250	33.20	27.40	21.60	20.00	18.43	14.00	10.43	8.62	1881	2266	2310	2579	2745	2674	2357	2371

注：型号 147 暂无 WPW (A.S.X.O.T.V)及 WPWK (A.S.O.T.V)
Note: WPWD(A.S.X.O.T.V) 147 and WPWDK(A.S.O.T.V) 147 be pending

WPD.WPK.WPWD.WPWDK.(A.S.X.O.T.V)型输入轴功率及输出轴扭矩表 Input and output
输入轴转速 Speed of input shaft: 1500r/min (配用Y系列电机 Matching electric motor series Y)

功率及扭矩 power and torque 传动比 transmission ratio 型号 size	输入轴功率 Input (kW)								输出轴扭矩 Output (Nm)							
	10	15	20	25	30	40	50	60	10	15	20	25	30	40	50	60
40	0.12								6	8	9	13	14	15	19	20
50	0.18								9	12	14	19	20	24	28	34
60	0.37								19	26	34	42	42	58	67	73
70	0.75					0.37			39	54	70	87	95	58	68	70
80	1.5					0.75			77	112	142	174	189	117	136	146
100	1.5								80	115	149	181	198	260	307	344
120	3					2.2			151	232	310	372	413	392	480	521
135	4					3			219	321	413	509	565	542	649	690
147	4					3			219	321	413	509	565	542	649	690
155	5.5					4			305	411	525	709	760	713	853	1039
175	7.5					5.5			415	602	783	1002	1074	1008	1278	1450
200	11					7.5			623	892	1176	1417	1680	1413	1695	1948
250	15					11			850	1246	1604	1933	2234	2101	2486	3025

注：型号 147 暂无 WPWD (A.S.X.O.T.V)及 WPWDK(A.S.O.T.V)
Note: WPWD(A.S.X.O.T.V) 147 and WPWDK(A.S.O.T.V) 147 be pending



WPE. WPEK. WPWE. WPWEK WPED. WPEDK. WPWED. WPWEDK (A.S.X.O) 型

输入轴功率及输出轴扭矩表 Input and output

输入轴转速 Speed of Input shaft: 1500r/min



型 号 size	功率及转矩 power and torque	WPE、WPEK、WPWE、WPWEK							WPED、WPEDK、WPWED、WPWEDK						
		传 动 比 transmission ratio							传 动 比 transmission ratio						
		200	300	400	500	600	800	900	200	300	400	500	600	800	900
40/70	输入轴功率 power (kW)	0.48	0.34	0.28	0.25	0.23	0.20	0.17	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	输出轴扭矩 torque (Nm)	250	250	250	250	250	250	250	63	88	107	120	130	150	177
50/80	输入轴功率 power (kW)	0.65	0.51	0.42	0.38	0.31	0.29	0.25	0.18	0.18	0.18	0.18	0.18	0.18	0.18
	输出轴扭矩 torque (Nm)	350	350	350	350	350	350	350	97	124	150	166	203	217	252
60/100	输入轴功率 power (kW)	0.95	0.67	0.52	0.44	0.40	0.35	0.33	0.37	0.37	0.37	0.37	0.37	0.37	0.37
	输出轴扭矩 torque (Nm)	500	500	500	500	500	500	500	195	276	356	420	463	529	561
70/120	输入轴功率 power (kW)	1.64	1.18	0.91	0.84	0.71	0.58	0.54	0.75	0.75	0.75	0.75	0.75	0.37	0.75
	输出轴扭矩 torque (Nm)	840	840	840	840	840	840	840	384	534	692	750	840	536	887
80/135	输入轴功率 power (kW)	2.50	1.75	1.39	1.19	1.08	0.98	0.85	1.5	1.5	1.5	1.5	0.75	0.75	1.5
	输出轴扭矩 torque (Nm)	1400	1400	1400	1400	1400	1400	1400	616	880	1108	1294	1010	1071	1426
80/147	输入轴功率 power (kW)	2.79	2.1	1.71	1.47	1.34	1.20	1.06	1.5	1.5	1.5	1.5	0.75	0.75	1.5
	输出轴扭矩 torque (Nm)	1575	1575	1575	1575	1575	1575	1575	662	902	1208	1316	1300	1321	1575
100/155	输入轴功率 power (kW)	3.69	2.92	2.41	2.07	1.89	1.69	1.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	输出轴扭矩 torque (Nm)	2100	2100	2100	2100	2100	2100	2100	854	1079	1307	1522	1667	1864	2100
120/175	输入轴功率 power (kW)	5.09	3.91	3.27	2.72	2.53	2.50	2.05	3	3	3	3	2.2	2.2	3
	输出轴扭矩 torque (Nm)	3050	3050	3050	3050	3050	3050	3050	1798	2340	2798	3050	2500	2685	3050
135/200	输入轴功率 power (kW)	7.22	5.41	4.46	3.83	3.46	2.91	2.71	4	4	4	4	3	3	4
	输出轴扭矩 torque (Nm)	3950	3950	3950	3950	3950	3950	3950	2188	2920	3543	3950	3950	3950	3950
155/250	输入轴功率 power (kW)	11.71	8.14	6.00	5.14	4.67	4.07	3.67	5.5	5.5	5.5	5.5	4	4	5.5
	输出轴扭矩 torque (Nm)	6050	6050	6050	6050	6050	6050	6050	2841	4087	5546	6050	6050	6050	6050

注：型号 80-147 暂无 WPWE(A.S.X.O.)及 WPWEK(A.S.O.)

Note: WPWE(A.S.X.O)80-147 and WPWEK(A.S.O) 147 be pending

润滑油注油量 (L)

Adding Capacity of lubrication oil

机 型 Type	WP(D.K)A	WP(D.K)S	WP(D.K)X.O	WPW(D)
型号 Size				
40	0.1	0.2	0.2	0.2
50	0.2	0.4	0.5	0.4
60	0.3	0.5	0.6	0.5
70	0.6	0.9	1.2	0.8
80	1	1.3	1.5	1.5
100	1.7	2.7	3.9	2.6
120	2.8	4.5	5.8	4.5
135	4.5	7.2	8.6	5.6
147	4.2	7	11.1	-
155	5.9	10.3	14.2	11.7
175	7.5	12.1	16.7	13.9
200	12.2	18.9	27.2	16.7
250	22	33.9	48.9	30

实际传动比

Actual Ratio

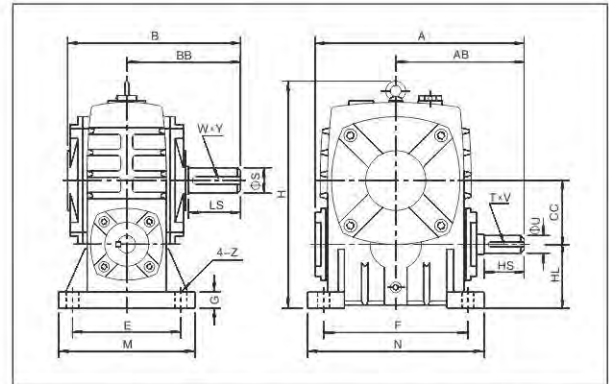
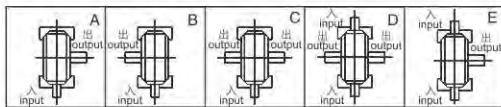
名义传动比 Ratio								
	实际传动比 Actual Ratio							
型号 Size	10	15	20	25	30	40	50	60
40	10	15	20	25	30	40	50	60
50	10	15	20	25	30	40	50	60
60	10	15	20	25	30	39	50	60
70	10	15	20	25	30	40	50	60
80	10	15	20	25	30	40	50	60
100	10	15	20	25	30	40	50	60
120	10	15	19.5	25	30	39	50	60
135	10	15	20	25	30	40	50	60
147	9.667	14.5	20	25	29	40	50	61
155	10	15	20	25	30	40	50	59
175	10	15	20	25	30	40	50	60
200	10	15	20.5	25	30	41	50	60
250	10.25	15.25	20.5	25	30.5	41	50	61

6. 安装尺寸 Mounting Dimensions

WPA 型



轴指向表示 SHAFT DIRECTION

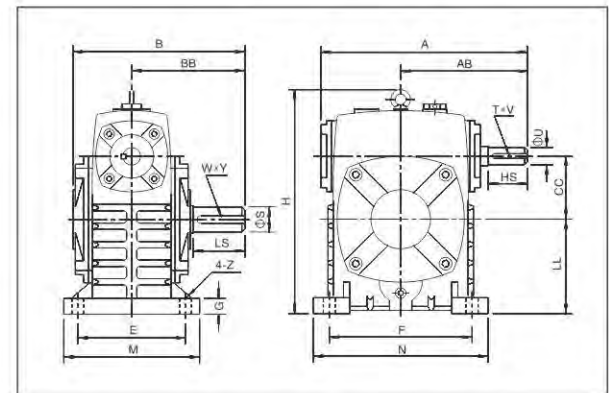
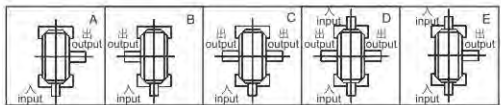


型号 size	传动比 ratio	A	AB	B	BB	CC	H	HL	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
															HS	U	T x V	LS	S	W x Y	
40	10	143	87	114	74	40	138	40	90	100	70	80	13	10	25	12	4 x 2.5	28	14	5 x 3	4
50		175	107	150	97	50	173	50	120	140	95	110	15	12	30	12	4 x 2.5	40	17	5 x 3	7
60		198	122	168	112	60	204	60	130	150	105	120	20	12	40	15	5 x 3	50	22	6 x 3.5	10
70		231	140	194	131	70	236	70	150	190	115	150	20	15	40	18	6 x 3.5	60	28	8 x 4	15
80		261	160	214	142	80	268	80	170	220	135	180	20	15	50	22	6 x 3.5	65	32	10 x 5	20
100		322	190	254	169	100	329	100	190	270	155	220	25	15	50	25	8 x 4	75	38	10 x 5	35
120		381	229	282	190	120	430	120	230	320	180	260	30	18	65	30	8 x 4	85	45	14 x 5.5	60
135		433	260	317	210	135	480	135	250	350	200	290	30	18	75	35	10 x 5	95	55	16 x 6	80
147		439	264	324	212	147	501	123	250	350	200	280	32	18	80	35	10 x 5	95	55	16 x 6	90
155		504	302	382	252	155	531	135	275	390	220	320	35	21	85	40	12 x 5	110	60	18 x 7	110
175	60	545	325	402	262	175	600	160	310	430	250	350	40	21	85	45	14 x 5.5	110	65	18 x 7	150
200		587	350	467	305	200	667	175	360	480	290	390	40	24	95	50	14 x 5.5	125	70	20 x 7.5	215
250		705	420	552	360	250	800	200	460	560	380	480	45	28	110	60	18 x 7	155	90	25 x 9	360

WPS 型



轴指向表示 SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	BB	CC	H	LL	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
															HS	U	T x V	LS	S	W x Y	
40	10	143	87	114	74	40	141	60	90	100	70	80	13	10	25	12	4 x 2.5	28	14	5 x 3	4
50		175	107	150	97	50	180	80	120	140	95	110	15	12	30	12	4 x 2.5	40	17	5 x 3	7
60		198	122	168	112	60	207	90	130	150	105	120	20	12	40	15	5 x 3	50	22	6 x 3.5	10
70		231	140	194	131	70	238	105	150	190	115	150	20	15	40	18	6 x 3.5	60	28	8 x 4	15
80		261	160	214	142	80	270	120	170	220	135	180	20	15	50	22	6 x 3.5	65	32	10 x 5	20
100		322	190	254	169	100	331	150	190	270	155	220	25	15	50	25	8 x 4	75	38	10 x 5	35
120		381	229	282	190	120	423	180	230	320	180	260	30	18	65	30	8 x 4	85	45	14 x 5.5	60
135		433	260	317	210	135	482	215	250	350	200	290	30	18	75	35	10 x 5	95	55	16 x 6	80
147		439	264	324	212	147	495	203	250	350	200	280	32	18	80	35	10 x 5	95	55	16 x 6	90
155		504	302	382	252	155	541	235	275	390	220	320	35	21	85	40	12 x 5	110	60	18 x 7	110
175	60	545	325	402	262	175	594	260	310	430	250	350	40	21	85	45	14 x 5.5	110	65	18 x 7	150
200		587	350	467	305	200	677	290	360	480	290	390	40	24	95	50	14 x 5.5	125	70	20 x 7.5	215
250		705	420	552	360	250	824	350	460	560	380	480	45	28	110	60	18 x 7	155	90	25 x 9	360

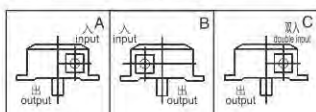
WPX 型



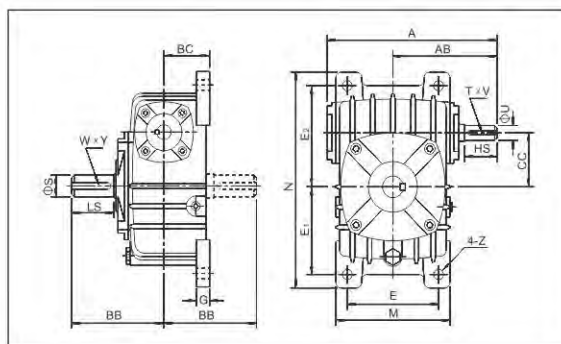
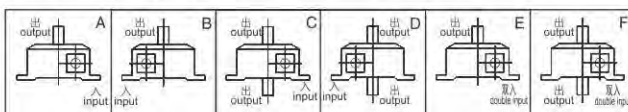
WPO 型



WPX 轴指向表示
SHAFT DIRECTION



WPO 轴指向表示
SHAFT DIRECTION

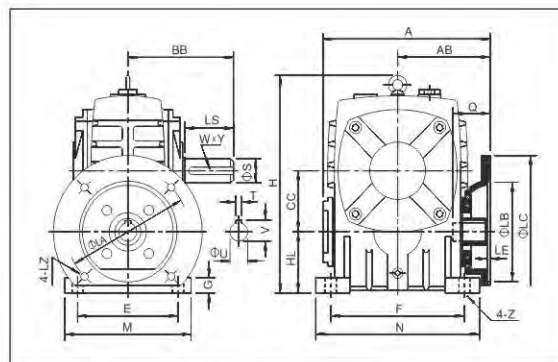
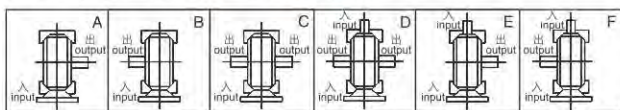


型号 size	传动比 ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
														HS	U	T×V	LS	S	W×Y	
40	10	143	87	74	45	40	94	184	70	74	86	10	10	25	12	4×2.5	28	14	5×3	5
50		175	107	97	50	50	116	220	90	93	102	15	12	30	12	4×2.5	40	17	5×3	6
60		198	122	112	55	60	126	260	100	105	120	20	12	40	15	5×3	50	22	6×3.5	10
70		231	140	131	65	70	156	295	120	120	135	20	15	40	18	6×3.5	60	28	8×4	15
80		261	160	142	70	80	175	320	140	130	150	20	15	50	22	6×3.5	65	32	10×5	20
100		322	190	169	90	100	224	375	190	155	180	26	15	50	25	8×4	75	38	10×5	35
120		381	229	190	100	120	266	450	220	185	215	30	18	65	30	8×4	85	45	14×5.5	50
135		433	260	210	110	135	306	495	260	210	235	30	18	75	35	10×5	95	55	16×6	75
147		439	264	212	113	147	310	556	250	254	254	32	18	80	35	10×5	95	55	16×6	90
155		504	302	252	140	155	350	590	290	245	295	35	21	85	40	12×5	110	60	18×7	115
175	60	545	325	262	150	175	394	640	320	267	323	40	21	85	45	14×5.5	110	65	18×7	140
200		587	350	305	175	200	440	710	370	290	360	40	24	95	50	14×5.5	125	70	20×7.5	200
250		705	420	360	200	250	510	860	440	350	440	45	28	110	60	18×7	155	90	25×9	340

WPDA 型



轴指向表示 SHAFT DIRECTION

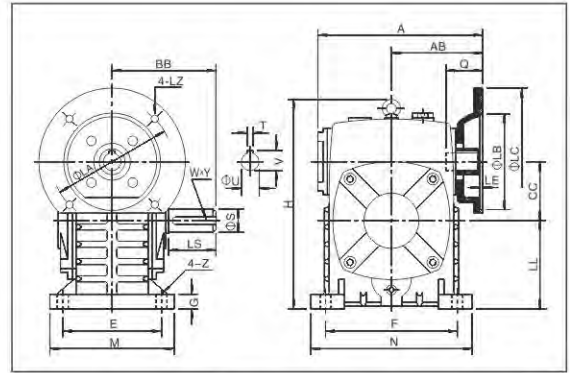
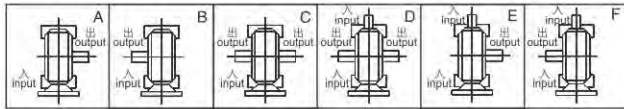


型 号 size	输入功率 input(kW)	传动比 ratio	A	AB	BB	CC	H	HL	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)
															LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y	
50	0.18	10 15 20 25 30 40 50 60	151	83	97	50	173	50	120	140	95	110	15	12	115	95	140	4	M8	31	11	4×12.8	40	17	5×3	8
60	0.37		167	91	112	60	204	60	130	150	105	120	20	12	130	110	160	4	M8	33	14	5×16.3	50	22	6×3.5	11
70	0.37 0.75		200 202	109 111	131	70	236	70	150	190	115	150	20	15	130 165	110 130	160 200	4	M8 M10	40 42	14 19	5×16.3 6×21.8	60	28	8×4	17
80	0.75 1.5		225	125	142	80	268	80	170	220	135	180	20	15	165	130	200	4.5	M10	48 52	19 24	6×21.8 8×27.3	65	32	10×5	22
100	1.5		273	140	169	100	329	100	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8×27.3	75	38	10×5	38
120	2.2 3.0		333	181	190	120	430	120	230	320	180	260	30	18	215	180	250	5	M12	63	28	8×31.3	85	45	14×5.5	64
135	3.0 4.0		367	193	210	135	480	135	250	350	200	290	30	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	85
147	3.0 4.0		371	195	212	147	501	123	250	350	200	280	32	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	96
155	4.0 5.5		417 426	215 224	252	155	531	135	275	390	220	320	35	21	215 265	180 230	250 300	5	M12	63 83	28 38	8×31.3 10×41.3	110	60	18×7	118
175	5.5 7.5		464	244	262	175	600	160	310	430	250	350	40	21	265	230	300	5	M12	83	38	10×41.3	110	65	18×7	165
200	7.5 11.0		496 523	258 285	305	200	667	175	360	480	290	390	40	24	265 300	230 250	300 350	5	M12 M16	83 114	38 42	10×41.3 12×45.3	125	70	20×7.5	236
250	11.0 15.0		615	330	360	250	800	200	460	560	380	480	45	28	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	396

WPDS 型

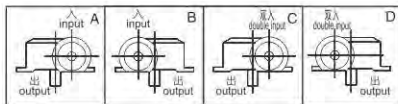


轴指向表示 SHAFT DIRECTION

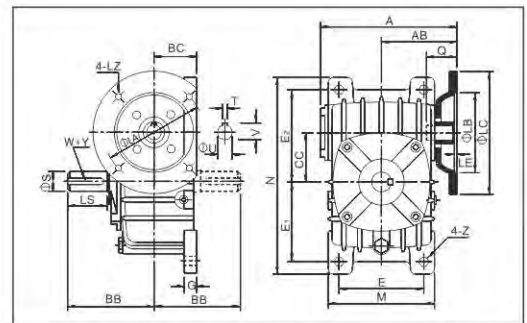
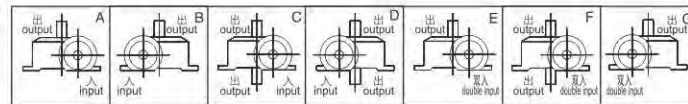


型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	CC	H	LL	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y														
50	0.18	10 15 20 25 30 40 50 60	151	83	97	50	180	80	120	140	95	110	15	12	115	95	140	4	M8	31	11	4×12.8	40	17	5×3	8	
60	0.37		167	91	112	60	207	90	130	150	105	120	20	12	130	110	160	4	M8	33	14	5×16.3	50	22	6×3.5	11	
70	0.37		200	109	131	70	238	105	150	190	115	150	20	15	130	110	160	4	M8	40	14	5×16.3	60	28	8×4	17	
	0.75		202	111																							M10
80	0.75		225	125	142	80	273	120	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6×21.8	65	32	10×5	22	
	1.5		273	140	169	100	331	150	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8×27.3	75	38	10×5	38	
100	1.5		20	333	181	190	120	423	180	230	320	180	260	30	18	215	180	250	5	M12	63	28	8×31.3	85	45	14×5.5	64
120	2.2			367	193	210	135	482	215	250	350	200	290	30	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	85
135	3.0		25	371	195	212	147	495	203	250	350	200	280	32	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	96
	4.0			417	215	252	155	541	235	275	390	220	320	35	21	215	180	250	5	M12	63	28	8×31.3	110	60	18×7	118
147	4.0		426	224	M12																						
155	4.0		30	464	244	262	175	594	260	310	430	250	350	40	21	265	230	300	5	M12	83	38	10×41.3	110	65	18×7	165
	5.5			496	258	305	200	677	290	360	480	290	390	40	24	265	230	300	5	M12	83	38	10×41.3	125	70	20×7.5	236
175	7.5		40	523	285	305	200	677	290	360	480	290	390	40	24	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	396
	11.0			615	330																						
200	11.0		50	615	330	360	250	824	350	460	560	380	480	45	28	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	396
250	15.0																										

WPDX 型

WPDX 轴指向表示
SHAFT DIRECTION

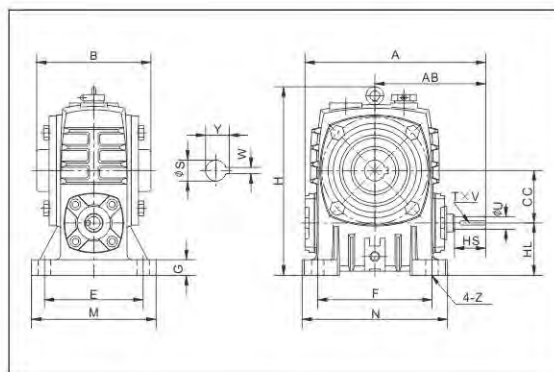
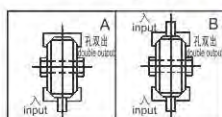
WPDO 型

WPDO 轴指向表示
SHAFT DIRECTION

型 号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 flange					入力孔input hole			输出轴output shaft			重量 weight (kg)
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y													
50	0.18	10 15 20 25 30 40 50 60	151	83	97	50	50	116	220	90	93	102	15	12	115	95	140	4	M8	31	11	4×12.8	40	17	5×3	8
60	0.37		167	91	112	55	60	126	260	100	105	120	20	12	130	110	160	4	M8	33	14	5×16.3	50	22	6×3.5	11
70	0.37		200	109	131	65	70	156	295	120	120	135	20	15	130	110	160	4	M8	40	14	5×16.3	60	28	8×4	17
	0.75		202	111																						
80	0.75		225	125	142	70	80	175	320	140	130	150	20	15	165	130	200	4.5	M10	48	19	6×21.8	65	32	10×5	22
	1.5		273	140	169	90	100	224	375	190	155	180	26	15	165	130	200	4.5	M10	52	24	8×27.3				
100	1.5		273	140	169	90	100	224	375	190	155	180	26	15	165	130	200	4.5	M10	52	24	8×27.3	75	38	10×5	38
120	2.2		333	181	190	100	120	266	450	220	185	215	30	18	215	180	250	5	M12	63	28	8×31.3	85	45	14×5.5	54
135	3.0		367	193	210	110	135	306	495	260	210	235	30	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	80
	4.0		371	195	212	113	147	310	556	250	254	254	32	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	96
155	4.0		417	215	252	140	155	350	590	290	245	295	35	21	215	180	250	5	M12	63	28	8×31.3	110	60	18×7	122
	5.5		426	224																						
175	5.5		464	244	262	150	175	394	640	320	267	323	40	21	265	230	300	5	M12	83	38	10×41.3	110	65	18×7	154
	7.5		496	258	305	175	200	440	710	370	290	360	40	24	265	230	300	5	M12	83	38	10×41.3	125	70	20×7.5	220
200	11.0		523	285																						
250	11.0		615	330	360	200	250	510	860	440	350	440	45	28	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	374
	15.0																									

WPKA 型

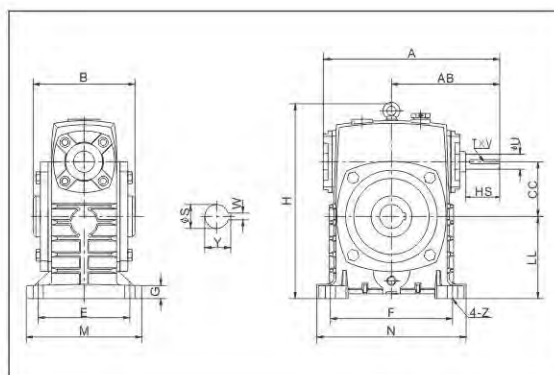
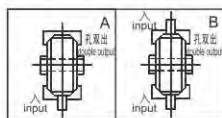
轴指向表示
SHAFT DIRECTION



型 号 size	减速比 ratio	A	AB	B	CC	H	HL	M	N	E	F	G	Z	输入轴 input shaft			输出轴 ouput shaft		重量 weight (kg)
														HS	U	T x V	S	W x Y	
50	10	175	107	110	50	173	50	120	140	95	110	15	12	30	12	4 x 2.5	20	6 x 22.8	7
60		198	122	120	60	204	60	130	150	105	120	20	12	40	15	5 x 3	25	8 x 28.3	10
70	15	231	140	132	70	236	70	150	190	115	150	20	15	40	18	6 x 3.5	30	8 x 33.3	15
80		261	160	150	80	268	80	170	220	135	180	20	15	50	22	6 x 3.5	35	10 x 38.3	20
100	20	322	190	174	100	329	100	190	270	155	220	25	15	50	25	8 x 4	40	12 x 43.3	35
120		381	229	180	120	430	120	230	320	180	260	30	18	65	30	8 x 4	45	14 x 48.8	60
135	30	433	260	214	135	480	135	250	350	200	290	30	18	75	35	10 x 5	60	18 x 64.4	80
155		504	302	256	155	531	135	275	390	220	320	35	21	85	40	12 x 5	70	20 x 74.9	110
175	50	545	325	282	175	600	160	310	430	250	350	40	21	85	45	14 x 5.5	80	22 x 85.4	150
200		587	350	324	200	667	175	360	480	290	390	40	24	95	50	14 x 5.5	85	22 x 90.4	215
250	60	705	420	400	250	800	200	460	560	380	480	45	28	110	60	18 x 7	110	28 x 116.4	360

WPKS 型

轴指向表示
SHAFT DIRECTION

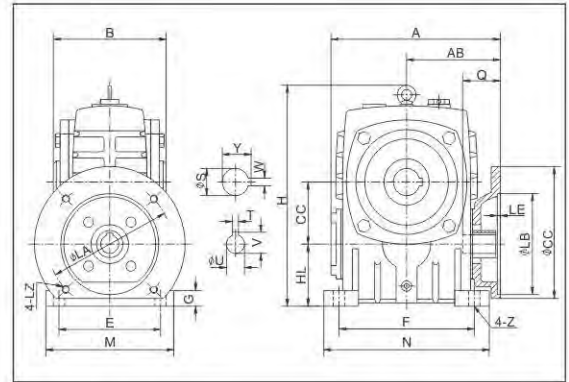
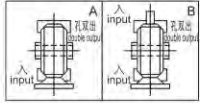


型 号 size	减速比 ratio	A	AB	B	CC	H	LL	M	N	E	F	G	Z	输入轴 input shaft			输出轴 ouput shaft		重量 weight (kg)
														HS	U	T x V	S	W x Y	
50	10	175	107	110	50	173	80	120	140	95	110	15	12	30	12	4 x 2.5	20	6 x 22.8	7
60		198	122	120	60	204	90	130	150	105	120	20	12	40	15	5 x 3	25	8 x 28.3	10
70	15	231	140	132	70	236	105	150	190	115	150	20	15	40	18	6 x 3.5	30	8 x 33.3	15
80		261	160	150	80	268	120	170	220	135	180	20	15	50	22	6 x 3.5	35	10 x 38.3	20
100	20	322	190	174	100	329	150	190	270	155	220	25	15	50	25	8 x 4	40	12 x 43.3	35
120		381	229	180	120	430	180	230	320	180	260	30	18	65	30	8 x 4	45	14 x 48.8	60
135	30	433	260	214	135	480	215	250	350	200	290	30	18	75	35	10 x 5	60	18 x 64.4	80
155		504	302	256	155	531	235	275	390	220	320	35	21	85	40	12 x 5	70	20 x 74.9	110
175	50	545	325	282	175	600	260	310	430	250	350	40	21	85	45	14 x 5.5	80	22 x 85.4	150
200		587	350	324	200	667	290	360	480	290	390	40	24	95	50	14 x 5.5	85	22 x 90.4	215
250	60	705	420	400	250	800	350	460	560	380	480	45	28	110	60	18 x 7	110	28 x 116.4	360

WPDKA 型



轴指向表示 SHAFT DIRECTION

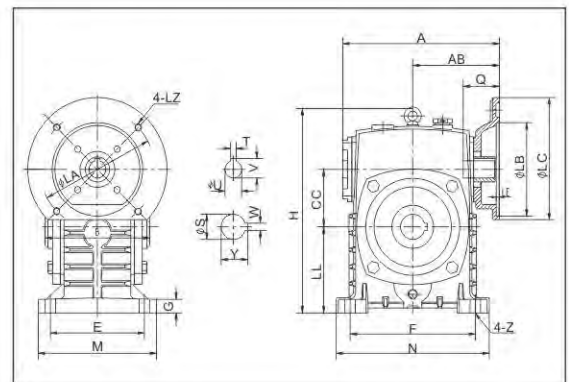
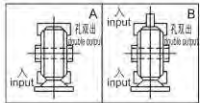


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	CC	H	HL	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)
															LA	LB	LC	LE	LZ	Q	U	T x V	S	W x Y	
50	0.18	10 15 20 25 30 40 50 60	151	83	110	50	173	50	120	140	95	110	15	12	115	95	140	4	M8	31	11	4 x 12.8	20	6 x 22.8	8
60	0.37		167	91	120	60	204	60	130	150	105	120	20	12	130	110	160	4	M8	33	14	5 x 16.3	25	8 x 28.3	11
70	0.37		200	109	132	70	236	70	150	190	115	150	20	15	130	110	160	4	M8	40	14	5 x 16.3	30	8 x 33.3	17
	0.75		202	111											165	130	200	4	M10	42	19	6 x 21.8			
80	0.75		225	125	150	80	268	80	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6 x 21.8	35	10 x 38.3	22
	1.5														52	24	8 x 27.3			52	24	8 x 27.3			
100	1.5		273	140	174	100	329	100	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8 x 27.3	40	12 x 43.3	38
120	2.2		333	181	180	120	430	120	230	320	180	260	30	18	215	180	250	5	M12	63	28	8 x 31.3	45	14 x 48.8	64
	3.0																								
135	3.0		367	193	214	135	480	135	250	350	200	290	30	18	215	180	250	5	M12	63	28	8 x 31.3	60	18 x 64.4	85
	4.0																								
155	4.0		417	215	256	155	531	135	275	390	220	320	32	21	215	180	250	5	M12	63	28	8 x 31.3	70	20 x 74.9	118
	5.5		426	224											265	230	300	5	M12	83	38	10 x 41.3			
175	5.5		464	244	282	175	600	160	310	430	250	350	40	21	265	230	300	5	M12	83	38	10 x 41.3	80	22 x 85.4	165
	7.5																								
200	7.5		496	258	324	200	667	175	360	480	290	390	40	24	265	230	300	5	M12	83	38	10 x 41.3	85	22 x 90.4	236
	11.0		523	285											300	230	300	6	M16	114	42	12 x 45.3			
250	11.0		615	330	400	250	800	200	460	560	380	480	45	28	300	250	350	6	M16	114	42	12 x 45.3	110	28 x 116.4	396
	15.0																								

WPDKS 型



轴指向表示 SHAFT DIRECTION

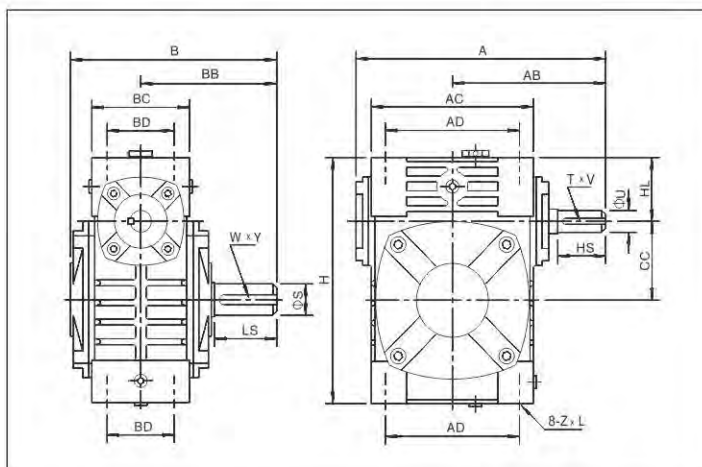
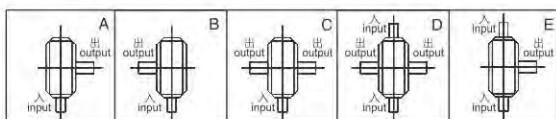


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	CC	H	LL	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)
															LA	LB	LC	LE	LZ	Q	U	T x V	S	W x Y	
50	0.18	10 15 20 25 30 40 50 60	151	83	110	50	173	80	120	140	95	110	15	12	115	95	140	4	M8	31	11	4 x 12.8	20	6 x 22.8	8
60	0.37		167	91	120	60	204	90	130	150	105	120	20	12	130	110	160	4	M8	33	14	5 x 16.3	25	8 x 28.3	11
70	0.37		200	109	132	70	236	105	150	190	115	150	20	15	130	110	160	4	M8	40	14	5 x 16.3	30	8 x 33.3	17
	0.75		202	111											165	130	200	4	M10	42	19	6 x 21.8			
80	0.75		225	125	150	80	268	120	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6 x 21.8	35	10 x 38.3	22
	1.5														52	24	8 x 27.3			52	24	8 x 27.3			
100	1.5		273	140	174	100	329	150	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8 x 27.3	40	12 x 43.3	38
120	2.2		333	181	180	120	430	180	230	320	180	260	30	18	215	180	250	5	M12	63	28	8 x 31.3	45	14 x 48.8	64
	3.0																								
135	3.0		367	193	214	135	480	215	250	350	200	290	30	18	215	180	250	5	M12	63	28	8 x 31.3	60	18 x 64.4	85
	4.0																								
155	4.0		417	215	256	155	531	235	275	390	220	320	32	21	215	180	250	5	M12	63	28	8 x 31.3	70	20 x 74.9	118
	5.5		426	224											265	230	300	5	M12	83	38	10 x 41.3			
175	5.5		464	244	282	175	600	260	310	430	250	350	40	21	265	230	300	5	M12	83	38	10 x 41.3	80	22 x 85.4	165
	7.5																								
200	7.5		496	258	324	200	667	290	360	480	290	390	40	24	265	230	300	5	M12	83	38	10 x 41.3	85	22 x 90.4	236
	11.0		523	285											300	230	300	6	M16	114	42	12 x 45.3			
250	11.0		615	330	400	250	800	350	460	560	380	480	45	28	300	250	350	6	M16	114	42	12 x 45.3	110	28 x 116.4	396
	15.0																								

WPW 型



轴指向表示 SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	BB	AC	BC	AD	BD	CC	HL	H	Z×L	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
														HS	U	T×V	LS	S	W×Y	
40	10	149	89	124	79	95	61	78	42	40	35	125	M6×12	25	12	4×2.5	28	14	5×3	4
50		175	107	150	97	111	68	85	50	50	35	150	M6×18	30	12	4×2.5	40	17	5×3	6.5
60		198	122	168	112	127	76	105	55	60	42	177	M8×20	40	15	5×3	50	22	6×3.5	9
70	15	231	140	194	131	152	86	125	65	70	55	215	M10×25	40	18	6×3.5	60	28	8×4	13
80	20	261	160	214	142	169	102	140	70	80	65	250	M12×28	50	22	6×3.5	65	32	10×5	21
100	25	322	190	254	169	216	117	180	90	100	80	310	M12×30	50	25	8×4	75	38	10×5	34
120	30	381	229	282	190	256	124	220	100	120	95	370	M14×32	65	30	8×4	85	45	14×5.5	51
135	40	433	260	317	210	296	147	260	110	135	105	425	M16×35	75	35	10×5	95	55	16×6	78
155	50	504	302	382	252	345	185	280	120	155	103	461	M16×35	85	40	12×5	110	60	18×7	102
175	60	545	325	402	262	374	192	320	140	175	123	521	M16×35	85	45	14×5.5	110	65	18×7	142
200		587	350	467	305	412	230	360	150	200	130	575	M20×36	95	50	14×5.5	125	70	20×7.5	202
250		705	420	552	360	500	285	420	190	250	150	700	M24×42	110	60	18×7	155	90	25×9	340

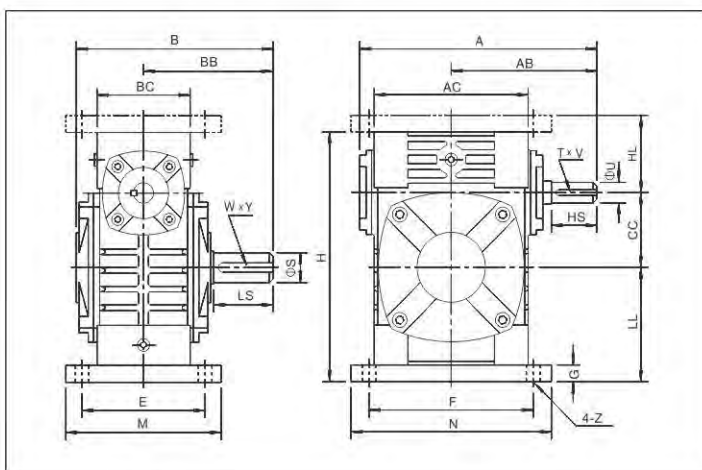
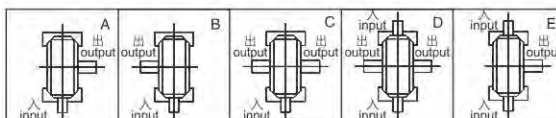
WPWA 型



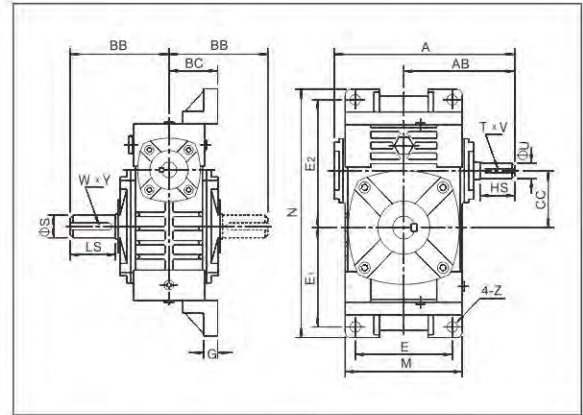
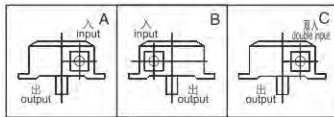
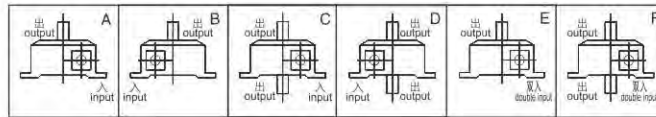
WPWS 型



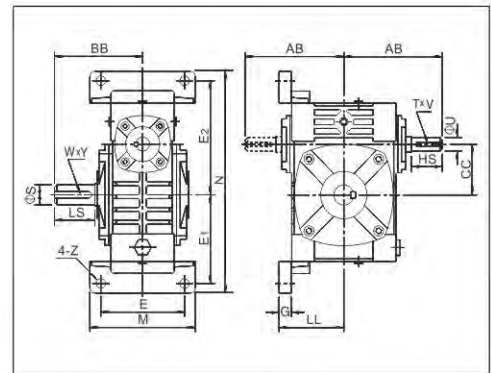
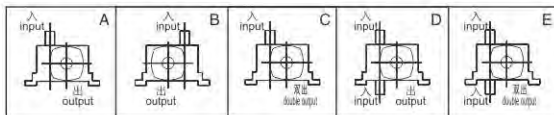
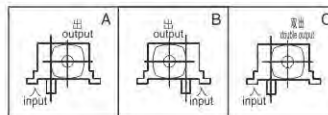
轴指向表示 SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	BB	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight (kg)
		HS	U	T×V	LS	S	W×Y																	
40	10	149	89	124	79	95	61	40	45	60	135	100	130	80	110	10	10	25	12	4×2.5	28	14	5×3	4.5
50		175	107	150	97	111	68	50	50	80	165	120	140	95	110	15	12	30	12	4×2.5	40	17	5×3	7.5
60		198	122	168	112	127	76	60	60	93	195	130	150	105	120	18	12	40	15	5×3	50	22	6×3.5	11.5
70		231	140	194	131	152	86	70	73	108	233	150	190	115	150	18	15	40	18	6×3.5	60	28	8×4	15.5
80		261	160	214	142	169	102	80	83	123	268	170	220	135	180	18	15	50	22	6×3.5	65	32	10×5	24
100		322	190	254	169	216	117	100	100	150	330	190	270	155	220	20	15	50	25	8×4	75	38	10×5	39
120		381	229	282	190	256	124	120	120	180	395	230	320	180	260	25	18	65	30	8×4	85	45	14×5.5	57
135		433	260	317	210	296	147	135	135	215	455	250	350	200	290	30	18	75	35	10×5	95	55	16×6	85
155		504	302	382	252	345	185	155	135	235	493	280	380	220	320	32	21	85	40	12×5	110	60	18×7	110
175		545	325	402	262	374	192	175	160	260	558	310	410	250	350	37	21	85	45	14×5.5	110	65	18×7	152
200	587	350	467	305	412	230	200	175	290	620	355	445	290	390	45	24	95	50	14×5.5	125	70	20×7.5	216	
250	705	420	552	360	500	285	250	200	350	750	460	560	380	480	50	28	110	60	18×7	155	90	25×9	350	

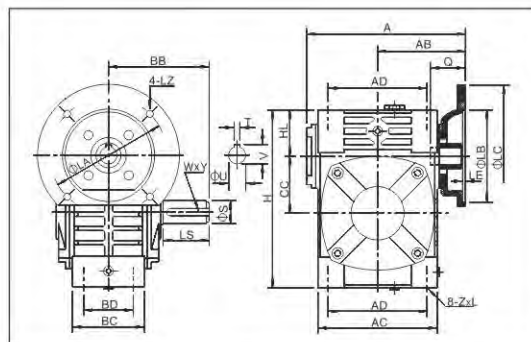
WPWX 型**WPWO 型**WPWX 轴指向表示
SHAFT DIRECTIONWPWO 轴指向表示
SHAFT DIRECTION

型号 size	传动比 ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
		HS	U	T×V	LS	S	W×Y													
40	10	149	89	79	45	40	95	187	70	72	97	12	10	25	12	4×2.5	28	14	5×3	5
50		175	107	97	50	50	111	226	90	90	110	14	12	30	12	4×2.5	40	17	5×3	8
60		198	122	112	55	60	127	257	100	102	129	15	12	40	15	5×3	50	22	6×3.5	11
70	15	231	140	131	65	70	152	305	120	120	155	20	15	40	18	6×3.5	60	28	8×4	15.5
80		261	160	142	70	80	174	350	140	140	180	20	15	50	22	6×3.5	65	32	10×5	24
100	25	322	190	169	90	100	224	410	190	165	215	22	15	50	25	8×4	75	38	10×5	38
120	30	381	229	190	100	120	264	494	220	195	255	25	18	65	30	8×4	85	45	14×5.5	56
135	40	433	260	210	110	135	304	559	260	230	285	30	18	75	35	10×5	95	55	16×6	84
155		504	302	252	140	155	345	605	290	250	305	35	21	85	40	12×5	110	60	18×7	129
175	50	545	325	262	150	175	374	675	320	273	348	40	21	85	45	14×5.5	110	65	18×7	157
200	60	587	350	305	175	200	424	749	370	305	390	40	24	95	50	14×5.5	125	70	20×7.5	224
250		705	420	360	200	250	510	920	440	375	475	45	28	110	60	18×7	155	90	25×9	374

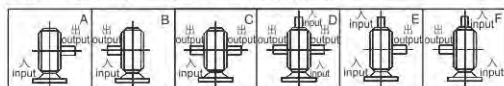
WPWT 型**WPWV 型**WPWT 轴指向表示
SHAFT DIRECTIONWPWV 轴指向表示
SHAFT DIRECTION

型号 size	传动比 ratio	AB	BB	CC	LL	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight(kg)
													HS	U	T×V	LS	S	W×Y	
40	10	87	79	40	63	90	187	70	72	97	12	10	25	12	4×2.5	28	14	5×3	5
50		107	97	50	70	120	226	95	90	110	14	12	30	12	4×2.5	40	17	5×3	8
60		122	112	60	80	130	257	105	102	129	15	12	40	15	5×3	50	22	6×3.5	11
70	15	140	131	70	95	150	305	115	120	155	20	15	40	18	6×3.5	60	28	8×4	15.5
80		160	142	80	105	170	350	135	140	180	20	15	50	22	6×3.5	65	32	10×5	24
100	25	190	169	100	135	190	410	155	165	215	22	15	50	25	8×4	75	38	10×5	38
120		229	190	120	160	230	494	180	195	255	25	18	65	30	8×4	85	45	14×5.5	56
135	40	260	210	135	185	250	559	200	230	285	30	18	75	35	10×5	95	55	16×6	84
155		302	252	155	220	275	605	220	250	305	35	21	85	40	12×5	110	60	18×7	129
175	50	325	262	175	240	310	675	250	273	348	40	21	85	45	14×5.5	110	65	18×7	157
200		350	305	200	280	360	749	290	305	390	40	24	95	50	14×5.5	125	70	20×7.5	224
250		420	360	250	315	460	920	380	375	475	45	28	110	60	18×7	155	90	25×9	374

WPWD 型



轴指向表示 SHAFT DIRECTION

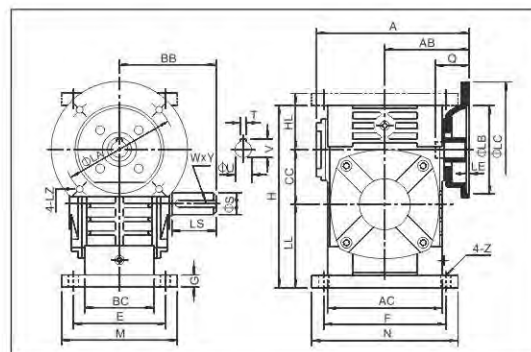


型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	AC	BC	AD	BD	CC	HL	H	Z x L	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)
														LA	LB	LC	LE	LZ	Q	U	T x V	LS	S	W x Y	
40	0.12	10	135	75	79	95	61	78	42	40	35	125	M6 x 12	115	95	140	4	M8	31	11	4 x 12.8	28	14	5 x 3	4
50	0.18		151	83	97	111	68	85	50	50	35	150	M6 x 18	115	95	140	4	M8	31	11	4 x 12.8	40	17	5 x 3	7
60	0.37		167	91	112	127	76	105	55	60	42	177	M8 x 20	130	110	160	4	M8	33	14	5 x 16.3	50	22	6 x 3.5	10
70	0.37		200	109	131	152	86	125	65	70	55	215	M10 x 25	130	110	160	4	M8	40	14	5 x 16.3	60	28	8 x 4	14.5
	0.75		202	111										165	130	200									
80	0.75		225	125	142	169	102	140	70	80	65	250	M12 x 28	165	130	200	4.5	M10	48	19	6 x 21.8	65	32	10 x 5	23
	1.5		225	125	142	169	102	140	70	80	65	250	M12 x 28	165	130	200	4.5	M10	52	24	8 x 27.3	75	38	10 x 5	36.5
100	1.5		273	140	169	216	117	180	90	100	80	310	M12 x 30	215	180	250	5	M12	63	28	8 x 31.3	85	45	14 x 5.5	54
120	2.2		333	181	190	256	124	220	100	120	95	370	M14 x 32	215	180	250	5	M12	63	28	8 x 31.3	95	55	16 x 6	83
135	3.0		367	193	210	296	147	260	110	135	105	425	M16 x 35	215	180	250	5	M12	63	28	8 x 31.3	110	60	18 x 7	110
155	4.0		417	215	252	345	185	280	120	155	103	461	M16 x 35	215	180	250	5	M12	63	28	8 x 31.3	110	65	18 x 7	156
	5.5		426	224										265	230	300	5	M12	83	38	10 x 41.3				
175	5.5	60	464	244	262	374	192	320	140	175	123	521	M16 x 35	265	230	300	5	M12	83	38	10 x 41.3	110	65	18 x 7	156
	7.5		496	258	305	412	230	360	150	200	130	575	M20 x 36	265	230	300	6	M12	83	38	10 x 41.3	125	70	20 x 7.5	222
200	11.0		523	285										300	250	350	6	M16	114	42	12 x 45.3				
250	11.0	15.0	615	330	360	500	285	420	190	250	150	700	M24 x 42	300	250	350	6	M16	114	42	12 x 45.3	155	90	25 x 9	376
	15.0		615	330	360	500	285	420	190	250	150	700	M24 x 42	300	250	350	6	M16	114	42	12 x 45.3	155	90	25 x 9	376

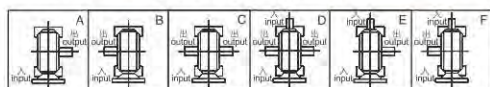
WPWDA 型



WPWDS 型



轴指向表示 SHAFT DIRECTION



型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	T x V	LS	S	W x Y	
40	0.12	10	135	75	79	95	61	40	45	60	135	100	130	80	110	10	10	115	95	140	4	M8	31	11	4 x 12.8	28	14	5 x 3	5
50	0.18		151	83	97	111	68	50	50	80	165	120	140	95	110	15	12	115	95	140	4	M8	31	11	4 x 12.8	40	17	5 x 3	8
60	0.37		167	91	112	127	76	60	60	93	195	130	150	105	120	18	12	130	110	160	4	M8	33	14	5 x 16.3	50	22	6 x 3.5	12.5
70	0.37		200	109	131	152	86	70	73	108	233	150	190	115	150	18	15	130	110	160	4	M8	40	14	5 x 16.3	60	28	8 x 4	17
	0.75		202	111														165	130	200									
80	0.75		225	125	142	169	102	80	83	123	268	170	220	135	180	18	15	165	130	200	4.5	M10	48	19	6 x 21.8	65	32	10 x 5	26
	1.5		225	125	142	169	102	80	83	123	268	170	220	135	180	18	15	165	130	200	4.5	M10	52	24	8 x 27.3	75	38	10 x 5	41.5
100	1.5		273	140	169	216	117	100	100	150	330	190	270	155	220	20	15	215	180	250	5	M12	63	28	8 x 31.3	85	45	14 x 5.5	60
120	2.2		333	181	190	256	124	120	120	180	395	230	320	180	260	25	18	215	180	250	5	M12	63	28	8 x 31.3	95	55	16 x 6	90
135	3.0		367	193	210	296	147	135	135	215	455	250	350	200	290	30	18	215	180	250	5	M12	63	28	8 x 31.3	110	60	18 x 7	118
155	4.0		417	215	252	345	185	155	135	235	493	280	380	220	320	32	21	215	180	250	5	M12	63	28	8 x 31.3	110	60	18 x 7	167
	5.5		426	224														265	230	300	5	M12	83	38	10 x 41.3				
175	5.5	60	464	244	262	374	192	175	160	260	558	310	410	250	350	37	21	265	230	300	5	M12	83	38	10 x 41.3	110	65	18 x 7	167
	7.5		496	258	305	412	230	200	175	290	620	355	445	290	390	45	24	265	230	300	6	M12	83	38	10 x 41.3	125	70	20 x 7.5	237
200	11.0		523	285														300	250	350	6	M16	114	42	12 x 45.3				
250	11.0	15.0	615	330	360	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12 x 45.3	155	90	25 x 9	395
	15.0		615	330	360	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12 x 45.3	155	90	25 x 9	395

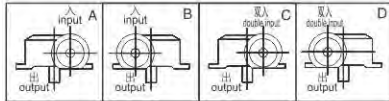
WPWDX 型



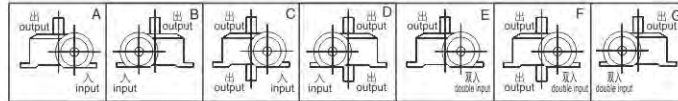
WPWDO 型



WPWDX 轴指向表示
SHAFT DIRECTION



WPWDO轴指向表示
SHAFT DIRECTION



型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight(kg)
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y													
40	0.12	10	135	75	79	45	40	95	187	70	72	97	12	10	115	95	140	4	M8	31	11	4×12.8	28	14	5×3	5.4
50	0.18		151	83	97	50	50	111	226	90	90	110	14	12	115	95	140	4	M8	31	11	4×12.8	40	17	5×3	8.5
60	0.37		167	91	112	55	60	127	257	100	102	129	15	12	130	110	160	4	M8	33	14	5×16.3	50	22	6×3.5	12
70	0.37		200	109	131	65	70	152	305	120	120	155	20	15	130	110	160	4	M8	40	14	5×16.3	60	28	8×4	17
	0.75		202	111											M10	42	19		6×21.8							
80	0.75	15	225	125	142	70	80	174	350	140	140	180	20	15	165	130	200	4.5	M10	48	19	6×21.8	65	32	10×5	26
	1.5		273	140	169	90	100	224	410	190	165	215	22	15	165	130	200	4.5	M10	52	24	8×27.3				
100	1.5	20	333	181	190	100	120	264	494	220	195	255	25	18	215	180	250	5	M12	63	28	8×31.3	85	45	14×5.5	59
120	2.2	25	367	193	210	110	135	304	559	260	230	285	30	18	215	180	250	5	M12	63	28	8×31.3	95	55	16×6	89
	3.0																									
135	3.0	40	426	224	252	140	155	345	605	290	250	305	35	21	265	230	300	5	M12	83	38	10×41.3	110	60	18×7	138
	4.0		464	244	262	150	175	374	675	320	273	348	40	21	265	230	300	5	M12	83	38	10×41.3				
155	4.0	50	496	258	305	175	200	424	749	370	305	390	40	21	265	230	300	6	M12	83	38	10×41.3	125	70	20×7.5	246
	5.5		523	285											300	250	350	6	M16	114	42	12×45.3				
175	5.5	60	615	330	360	200	250	510	920	440	375	475	45	28	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	410
	7.5																									
200	7.5	11.0	523	285	305	175	200	424	749	370	305	390	40	21	265	230	300	6	M12	83	38	10×41.3	125	70	20×7.5	246
	11.0		523	285											300	250	350	6	M16	114	42	12×45.3				
250	15.0		615	330	360	200	250	510	920	440	375	475	45	28	300	250	350	6	M16	114	42	12×45.3	155	90	25×9	410

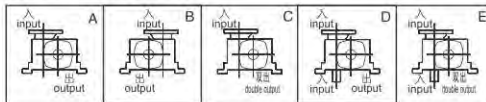
WPWDT 型



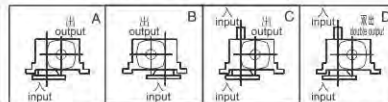
WPWDV 型



WPWDT 轴指向表示
SHAFT DIRECTION



WPWDV 轴指向表示
SHAFT DIRECTION

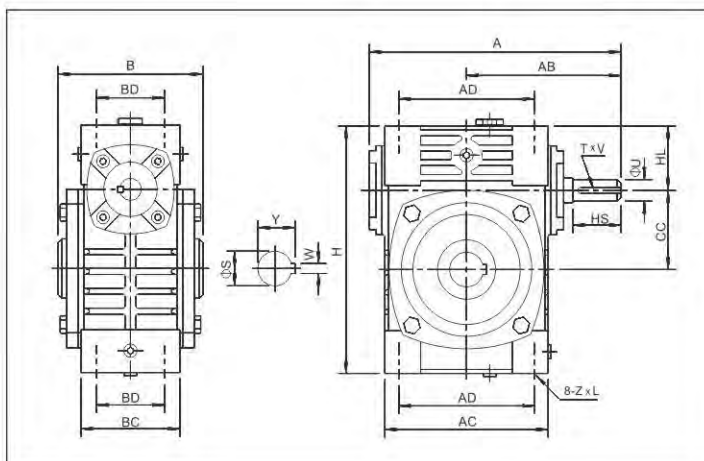
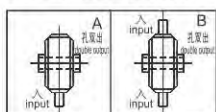
[illegible]

WPWK 型



轴指向表示

SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	AC	BC	AD	BD	CC	HL	H	Z × L	输入轴 input shaft			输出轴 output shaft		重量 weight(kg)
													HS	U	T × V	S	W × Y	
40	10	149	89	90	95	61	78	42	40	35	125	M6 × 12	25	12	4 × 2.5	16	5 × 18.3	4
50		175	107	110	111	68	85	50	50	35	150	M6 × 18	30	12	4 × 2.5	20	6 × 22.8	6.5
60		198	122	120	127	76	105	55	60	42	177	M8 × 20	40	15	5 × 3	25	8 × 28.3	9
70		231	140	132	152	86	125	65	70	55	215	M10 × 25	40	18	6 × 3.5	30	8 × 33.3	13
80		261	160	150	169	102	140	70	80	65	250	M12 × 28	50	22	6 × 3.5	35	10 × 38.3	21
100	25	322	190	174	216	117	180	90	100	80	310	M12 × 30	50	25	8 × 4	40	12 × 43.3	34
120	30	381	229	180	256	124	220	100	120	95	370	M14 × 32	65	30	8 × 4	45	14 × 48.8	51
135	40	433	260	214	296	147	260	110	135	105	425	M16 × 35	75	35	10 × 5	60	18 × 64.4	78
155	50	504	302	256	345	185	280	120	155	103	461	M16 × 35	85	40	12 × 5	70	20 × 74.9	102
175	60	545	325	282	374	192	320	140	175	123	521	M16 × 35	85	45	14 × 5.5	80	22 × 85.4	142
200		587	350	324	412	230	360	150	200	130	575	M20 × 36	95	50	14 × 5.5	85	22 × 90.4	202
250		705	420	400	500	285	420	190	250	150	700	M24 × 42	110	60	18 × 7	110	28 × 116.4	340

WPWKA 型

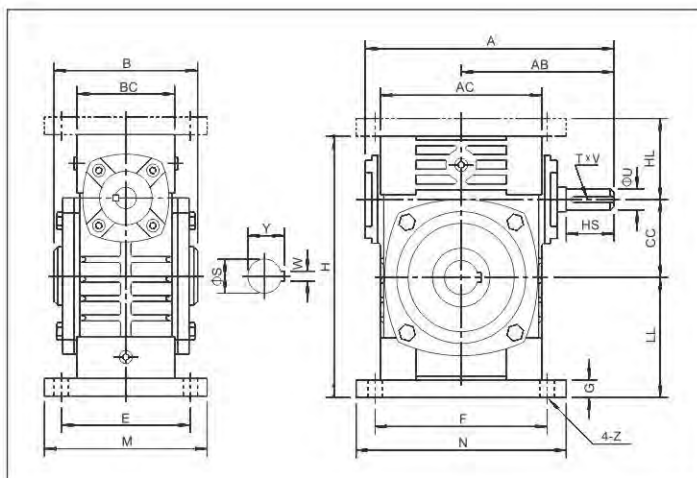
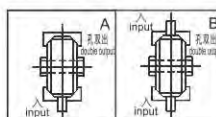


WPWKS 型



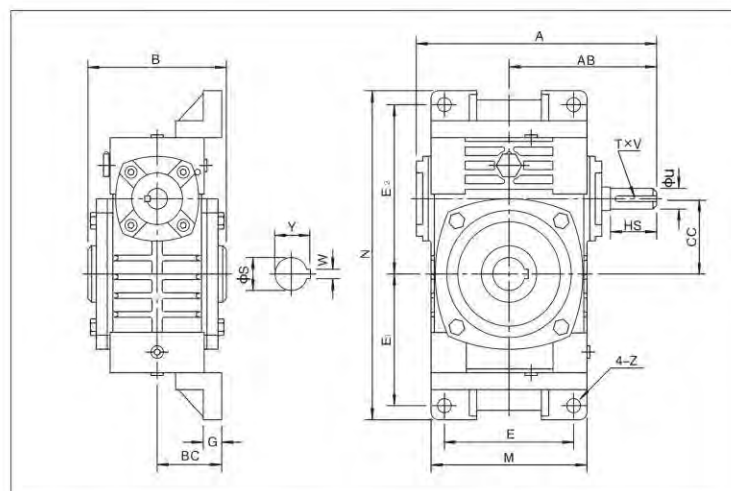
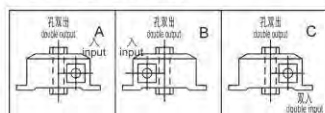
轴指向表示

SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight(kg)
		HS	U	T×V	S	W×Y																
40	10	149	89	90	95	61	40	45	60	135	100	130	80	110	10	10	25	12	4×2.5	16	5×18.3	4.5
50		175	107	110	111	68	50	50	80	165	120	140	95	110	15	12	30	12	4×2.5	20	6×22.8	7.5
60		198	122	120	127	76	60	60	93	195	130	150	105	120	18	12	40	15	5×3	25	8×28.3	11.5
70		231	140	132	152	86	70	73	108	233	150	190	115	150	18	15	40	18	6×3.5	30	8×33.3	15.5
80		261	160	150	169	102	80	83	123	268	170	220	135	180	18	15	50	22	6×3.5	35	10×38.3	24
100	25	322	190	174	216	117	100	100	150	330	190	270	155	220	20	15	50	25	8×4	40	12×43.3	39
120	30	381	229	180	256	124	120	120	180	395	230	320	180	260	25	18	65	30	8×4	45	14×48.8	57
135	40	433	260	214	296	147	135	135	215	455	250	350	200	290	30	18	75	35	10×5	60	18×64.4	85
155	50	504	302	256	345	185	155	135	235	493	280	380	220	320	32	21	85	40	12×5	70	20×74.9	110
175	60	545	325	282	374	192	175	160	260	558	310	410	250	350	37	21	85	45	14×5.5	80	22×85.4	152
200		587	350	324	412	230	200	175	290	620	355	445	290	390	45	24	95	50	14×5.5	85	22×90.4	216
250		705	420	400	500	285	250	200	350	750	460	560	380	480	50	28	110	60	18×7	110	28×116.4	350

WPWKO 型

轴指向表示
SHAFT DIRECTION

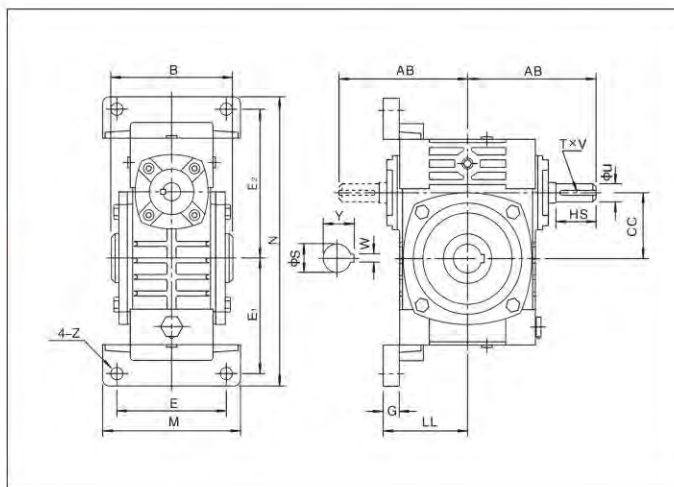
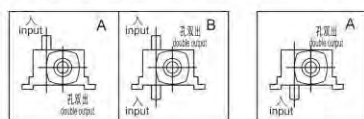
型号 size	传动比 ratio	A	AB	B	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
														HS	U	T x V	S	W x Y	
40	10	149	89	90	45	40	95	187	70	72	97	12	10	25	12	4x2.5	16	5x18.3	5
50		175	107	110	50	50	111	226	90	90	110	14	12	30	12	4x2.5	20	6x22.8	8
60		198	122	120	55	60	127	257	100	102	129	15	12	40	15	5x3	25	8x28.3	11
70		231	140	132	65	70	152	305	120	120	155	20	15	40	18	6x3.5	30	8x33.3	15.5
80	20	261	160	150	70	80	174	350	140	140	180	20	15	50	22	6x3.5	35	10x38.3	24
100		322	190	174	90	100	224	410	190	165	215	22	15	50	25	8x4	40	12x43.3	38
120		381	229	180	100	120	264	494	220	195	255	25	18	65	30	8x4	45	14x48.8	56
135		433	260	214	110	135	304	559	260	230	285	30	18	75	35	10x5	60	18x64.4	84
155	50	504	302	256	140	155	345	605	290	250	305	35	21	85	40	12x5	70	20x74.9	129
175		545	325	282	150	175	374	675	320	273	348	40	21	85	45	14x5.5	80	22x85.4	157
200		587	350	324	175	200	424	749	370	305	390	40	24	95	50	14x5.5	85	22x90.4	224
250		705	420	400	200	250	510	920	440	375	475	45	28	110	60	18x7	110	28x116.4	374

WPWKT 型

WPWKV 型



轴指向表示 SHAFT DIRECTION

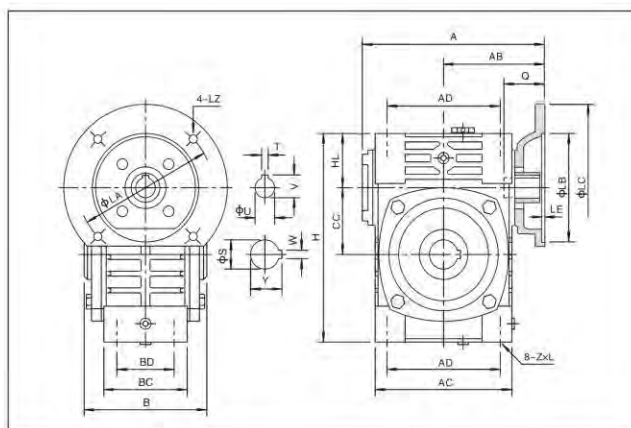
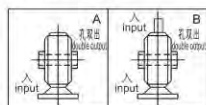


型号 size	传动比 ratio	AB	B	CC	LL	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
													HS	U	T x V	S	W x Y	
40	10	87	90	40	63	90	187	70	72	97	12	10	25	12	4x2.5	16	5x18.3	5
50		107	110	50	70	120	226	95	90	110	14	12	30	12	4x2.5	20	6x22.8	8
60		122	120	60	80	130	257	105	102	129	15	12	40	15	5x3	25	8x28.3	11
70		140	132	70	95	150	305	115	120	155	20	15	40	18	6x3.5	30	8x33.3	15.5
80	20	160	150	80	105	170	350	135	140	180	20	15	50	22	6x3.5	35	10x38.3	24
100		190	174	100	135	190	410	155	165	215	22	15	50	25	8x4	40	12x43.3	38
120		229	180	120	160	230	494	180	195	255	25	18	65	30	8x4	45	14x48.8	56
135		260	214	135	185	250	559	200	230	285	30	18	75	35	10x5	60	18x64.4	84
155	50	302	256	155	220	275	605	220	250	305	35	21	85	40	12x5	70	20x74.9	129
175		325	282	175	240	310	675	250	273	348	40	21	85	45	14x5.5	80	22x85.4	157
200		350	324	200	280	360	749	290	305	390	40	24	95	50	14x5.5	85	22x90.4	224
250		420	400	250	315	460	920	380	375	475	45	28	110	60	18x7	110	28x116.4	374

WPWDK 型



轴指向表示 SHAFT DIRECTION



型号 size	输入功率 input(kW)	传动比 ratio	A	AB	B	AC	BC	AD	BD	CC	HL	H	Z×L	电机法兰 flange				入力孔 input hole			输出轴 output shaft		重量 weight (kg)		
														LA	LB	LC	LE	LZ	Q	U	T×V	S		W×Y	
40	0.12	10	135	75	90	95	61	78	42	40	35	125	M6×12	115	95	140	4	M8	31	11	4×12.8	16	5×18.3	4	
50	0.18		151	83	110	111	68	85	50	50	35	150	M6×18	115	95	140	4	M8	31	11	4×12.8	20	6×22.8	7	
60	0.37		167	91	120	127	76	105	55	60	42	177	M8×20	130	110	160	4	M8	33	14	5×16.3	25	8×28.3	10	
70	0.37		200	109	132	152	86	125	65	70	55	215	M10×25	130	110	160	4	M8	40	14	5×16.3	30	8×33.3	14.5	
	0.75		202	111										165	130	200		M10	42	19	6×21.8				
80	0.75		15	225	125	150	169	102	140	70	80	65	250	M12×28	165	130	200	4.5	M10	48	19	6×21.8	35	10×38.3	23
	1.5			273	140	174	216	117	180	90	100	80	310	M12×30	165	130	200	4.5	M10	52	24	8×27.3			
100	1.5		20	273	140	174	216	117	180	90	100	80	310	M12×30	165	130	200	4.5	M10	52	24	8×27.3	40	12×43.3	36.5
120	2.2		25	333	181	180	256	124	220	100	120	95	370	M14×32	215	180	250	5	M12	63	28	8×31.3	45	14×48.8	54
	3.0																								
135	3.0	30	367	193	214	296	147	260	110	135	105	425	M16×35	215	180	250	5	M12	63	28	8×31.3	60	18×64.4	83	
	4.0																								
155	4.0	50	417	215	256	345	185	280	120	155	103	461	M16×35	215	180	250	5	M12	63	28	8×31.3	70	20×74.9	110	
	5.5		426	224										265	230	300	5	M12	83	38	10×41.3				
175	5.5	60	464	244	282	374	192	320	140	175	123	521	M16×35	265	230	300	5	M12	83	38	10×41.3	80	22×85.4	156	
	7.5		496	258	324	412	230	360	150	200	130	575	M20×36	265	230	300	5	M12	83	38	10×41.3				
200	7.5	523	285	300										250	350	6	M16	114	42	12×45.3	85	22×90.4	222		
250	11.0	60	615	330	400	500	285	420	190	250	150	700	M24×42	300	250	350	6	M16	114	42				12×45.3	110
	15.0																								

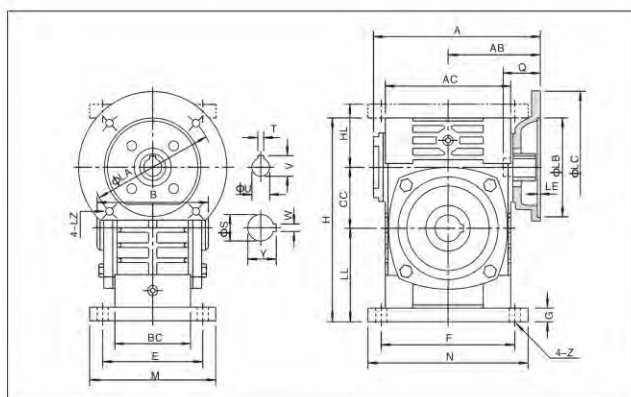
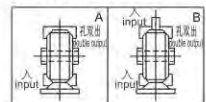
WPWDKA 型



WPWDKS 型



轴指向表示 SHAFT DIRECTION

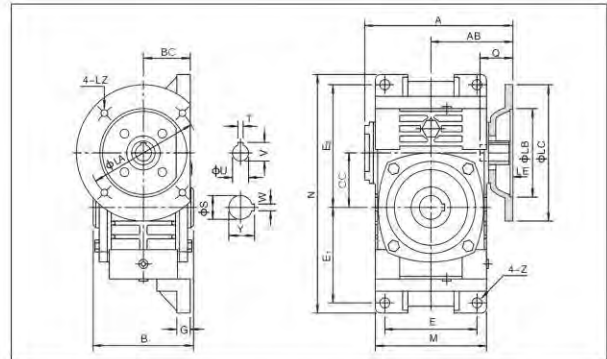
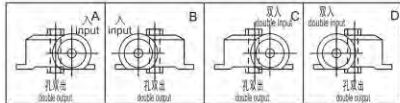


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y	
40	0.12	10	135	75	90	95	61	40	45	60	135	100	130	80	110	10	10	115	95	140	4	M8	31	11	4×12.8	16	5×18.3	5
50	0.18		151	83	110	111	68	50	50	80	165	120	140	95	110	15	12	115	95	140	4	M8	31	11	4×12.8	20	6×22.8	8
60	0.37		167	91	120	127	76	60	60	93	195	130	150	105	120	18	12	130	110	160	4	M8	33	14	5×16.3	25	8×28.3	12.5
70	0.37		200	109	132	152	86	70	73	108	233	150	190	115	150	18	15	130	110	160	4	M8	40	14	5×16.3	30	8×33.3	17
	0.75		202	111																								
80	0.75		15	225	125	150	169	102	80	83	123	268	170	220	135	180	18	15	165	130	200	4.5	M10	48	19	6×21.8	35	10×38.3
	1.5	280		140	174	216	117	100	100	150	330	190	270	155	220	20	15	165	130	200	4.5	M10	52	24	8×27.3			
100	1.5	20	280	140	174	216	117	100	100	150	330	190	270	155	220	20	15	165	130	200	4.5	M10	52	24	8×27.3	40	12×43.3	41.5
120	2.2	25	333	181	180	256	124	120	120	180	395	230	320	180	260	25	18	215	180	250	5	M12	63	28	8×31.3	45	14×48.8	60
	3.0																											
135	3.0	30	375	193	214	296	147	135	135	215	455	250	350	200	290	30	18	215	180	250	5	M12	63	28	8×31.3	60	18×64.4	90
	4.0																											
155	4.0	50	425	215	256	345	185	155	135	235	493	280	380	220	320	32	21	215	180	250	5	M12	63	28	8×31.3	70	20×74.9	118
	5.5																											
175	5.5	60	481	244	282	374	192	175	160	260	558	310	410	250	350	37	21	265	230	300	5	M12	83	38	10×41.3	80	22×85.4	167
	7.5																											
200	7.5	60	516	258	324	412	230	200	175	290	620	355	445	290	390	45	24	265	230	300	5	M12	83	38	10×41.3	85	22×90.4	237
	11.0		543	285																								
250	11.0		615	330	400	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12×45.3	110	28×116.4	395
	15.0																											

WPWDKO 型



轴指向表示 SHAFT DIRECTION

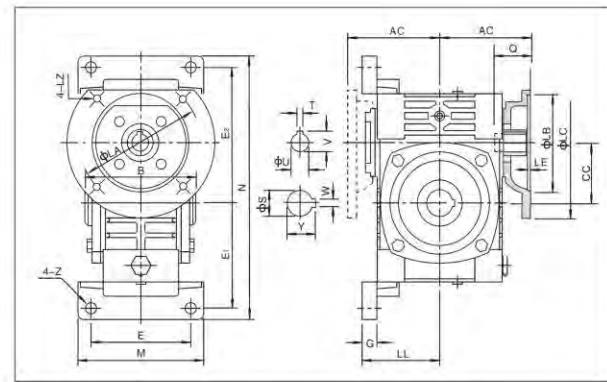
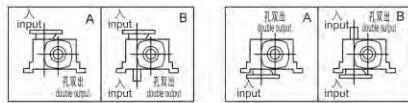


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 flange					入力孔 input hole			输出轴output shaft		重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y														
40	0.12	10	135	75	90	45	40	95	187	70	72	97	12	10	115	95	140	4	M8	31	11	4×12.8	16	5×18.3	5.4	
50	0.18		151	83	110	50	50	111	226	90	90	110	14	12	115	95	140	4	M8	31	11	4×12.8	20	6×22.8	8.5	
60	0.37		167	91	120	55	60	127	257	100	102	129	15	12	130	110	160	4	M8	33	14	5×16.3	25	8×28.3	12	
70	0.37		200	109	132	65	70	152	305	120	120	155	20	15	130	110	160	4	M8	40	14	5×16.3	30	8×33.3	17	
	0.75		202	111											165	130	200		M10	42	19	6×21.8				
80	0.75	15	225	125	150	70	80	174	350	140	140	180	20	15	165	130	200	4.5	M10	48	19	6×21.8	35	10×38.3	26	
	1.5		273	140	174	90	100	224	410	190	165	215	22	15	165	130	200	4.5	M10	52	24	8×27.3				
100	1.5	20	273	140	174	90	100	224	410	190	165	215	22	15	165	130	200	4.5	M10	52	24	8×27.3	40	12×43.3	40.5	
120	2.2	25	333	181	180	100	120	264	494	220	195	255	25	18	215	180	250	5	M12	63	28	8×31.3	45	14×48.8	59	
135	3.0		30	367	193	214	110	135	304	559	260	230	285	30	18	215	180	250	5	M12	63	28	8×31.3	60	18×64.4	89
	4.0			417	215	256	140	155	345	605	290	250	305	35	21	215	180	250	5	M12	63	28	8×31.3	70	20×74.9	138
155	4.0	426	224	265	230											300	5	M12	83	38	10×41.3					
175	5.5	60	464	244	282	150	175	374	675	320	273	348	40	21	265	230	300	5	M12	83	38	10×41.3	80	22×85.4	172	
	7.5		496	258	324	175	200	424	749	370	305	390	40	24	265	230	300	5	M12	83	38	10×41.3	85	22×90.4	246	
200	7.5	523	285	300											250	350	6	M16	114	42	12×45.3					
250	11.0	60	615	330	400	200	250	510	920	440	375	475	45	28	300	250	350	6	M16	114	42	12×45.3	110	28×116.4	410	
	15.0																									

WPWDKT 型



WPWDKV 型

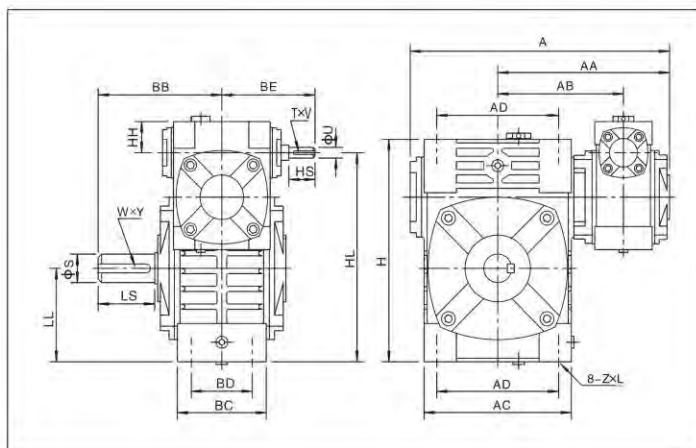
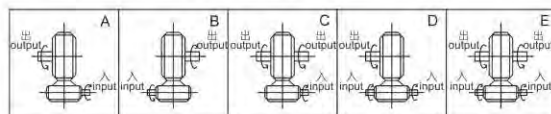
WPWDKT 轴指向表示 WPWDKV 轴指向表示
SHAFT DIRECTION SHAFT DIRECTION

型号 size	入功率 input(kW)	传动比 ratio												电机法兰 flange					入力孔 input hole				输出轴 output shaft		重量 weight (kg)
			AC	B	CC	LL	M	N	E	E ₁	E ₂	G	Z	LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y		
40	0.12	10 15 20 25 30 40 50 60	75	90	40	63	90	187	70	72	97	12	10	115	95	140	4	M8	31	11	4×12.8	16	5×18.3	5.4	
50	0.18		83	110	50	70	120	226	95	90	110	14	12	115	95	140	4	M8	31	11	4×12.8	20	6×22.8	8.5	
60	0.37		91	120	60	80	130	257	105	102	129	15	12	130	110	160	4	M8	33	14	5×16.3	25	8×28.3	12	
70	0.37		109	132	70	95	150	305	115	120	155	20	15	130	110	160	4	M8	40	14	5×16.3	30	8×33.3	17	
	0.75		111											165	130	200		M10	42	19	6×21.8				
80	0.75		125	150	80	105	170	350	135	140	180	20	15	165	130	200	4.5	M10	48	19	6×21.8	35	10×38.3	26	
	1.5		140	174	100	135	190	410	155	165	215	22	15	165	130	200	4.5	M10	52	24	8×27.3				
100	1.5		181	180	120	160	230	494	180	195	255	25	18	215	180	250	5	M12	63	28	8×31.3	45	14×48.8	59	
120	2.2		193	214	135	185	250	559	200	230	285	30	18	215	180	250	5	M12	63	28	8×31.3	60	18×64.4	89	
135	3.0		215	256	155	220	275	605	220	250	305	35	21	215	180	250	5	M12	63	28	8×31.3	70	20×74.9	138	
	4.0	224	265											230	300	5	M12	83	38	10×41.3					
155	5.5	244	282	175	240	310	675	250	273	348	40	21	265	230	300	5	M12	83	38	10×41.3	80	22×85.4	172		
175	7.5	258	324	200	280	360	749	290	305	390	40	24	265	230	300	5	M12	83	38	10×41.3	85	22×90.4	246		
	11.0	285											300	250	350	6	M16	114	42	12×45.3					
250	15.0	330	400	250	315	460	920	380	375	475	45	28	300	250	350	6	M16	114	42	12×45.3	110	28×116.4	410		

WPWE 型



轴指向表示 SHAFT DIRECTION

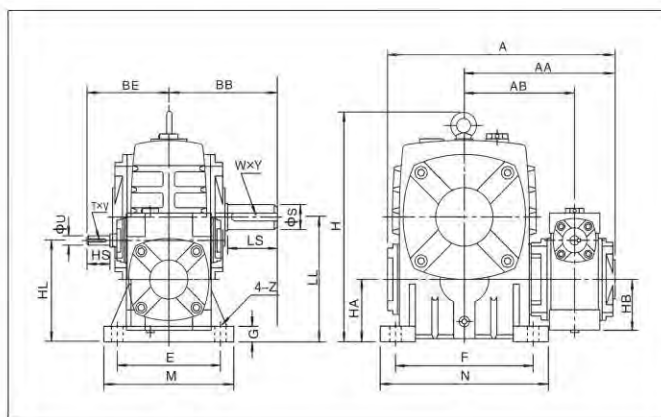
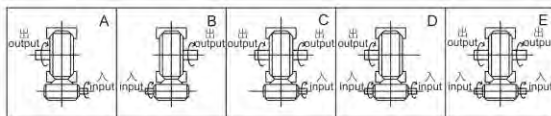


型号 size	传动比 ratio	A	AA	AB	BB	BE	AC	BC	AD	BD	HH	HL	LL	H	Z×L	输入轴 input shaft			输出轴 output shaft			重量 weight (kg)
																HS	U	T×V	LS	S	W×Y	
40/70	200 300 400 500 600 800 900	262	171	126	131	89	152	86	125	65	35	200	90	215	M10×25	25	12	4×2.5	60	28	8×4	17
50/80		297	197	144	142	107	169	102	140	70	35	235	105	250	M12×28	30	12	4×2.5	65	32	10×5	28
60/100		363	231	175	169	122	216	117	180	90	42	290	130	310	M12×30	40	15	5×3	75	38	10×5	43
70/120		408	256	193	190	140	256	124	220	100	55	345	155	370	M14×32	40	18	6×3.5	85	45	14×5.5	64
80/135		471	298	226	210	160	296	147	260	110	65	400	185	425	M16×35	50	22	6×3.5	95	55	16×6	99
100/155		555	354	269	252	190	345	185	280	120	80	458	203	461	M16×35	50	25	8×4	110	60	18×7	136
120/175		598	379	287	262	229	374	192	320	140	95	518	223	521	M16×35	65	30	8×4	110	65	18×7	193
135/200		662	425	318	305	260	412	230	360	150	105	580	245	575	M20×36	75	35	10×5	125	70	20×7.5	280
155/250		795	510	380	360	302	500	285	420	190	103	705	300	700	M24×42	85	40	12×5	155	90	25×9	442

WPEA 型



轴指向表示 SHAFT DIRECTION

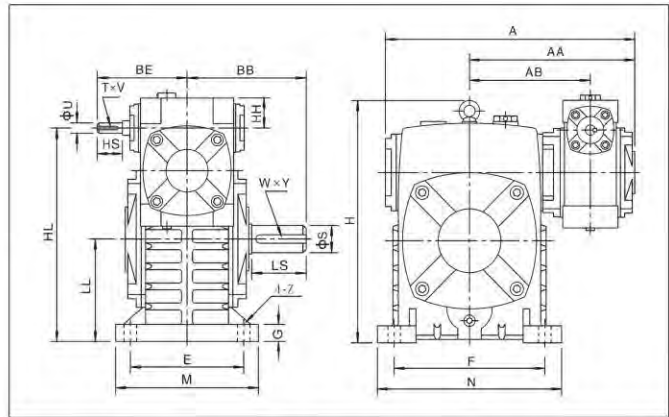
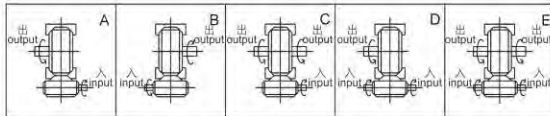


型号 size	传动比 ratio	A	AA	AB	BB	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight (kg)
		HS	U	T×V	LS	S	W×Y																	
40/70	200 300 400 500 600 800 900	262	171	126	131	89	110	140	236	70	50	150	190	115	150	20	15	25	12	4×2.5	60	28	8×4	20
50/80		297	197	144	142	107	130	160	268	80	65	170	220	135	180	20	15	30	12	4×2.5	65	32	10×5	27
60/100		363	231	175	169	122	160	200	329	100	75	190	270	155	220	25	15	40	15	5×3	75	38	10×5	44
70/120		408	256	193	190	140	190	240	430	120	90	230	320	180	260	30	18	40	18	6×3.5	85	45	14×5.5	73
80/135		471	298	226	210	160	215	270	480	135	105	250	350	200	290	30	18	50	22	6×3.5	95	55	16×6	101
80/147		476	301	229	212	160	203	270	501	123	105	250	350	200	280	32	18	50	22	6×3.5	95	55	16×6	112
100/155		555	354	269	252	190	235	290	531	135	130	275	390	220	320	35	21	50	25	8×4	110	60	18×7	144
120/175		598	379	287	262	229	280	335	600	160	155	310	430	250	350	40	21	65	30	8×4	110	65	18×7	201
135/200		662	425	318	305	260	310	375	667	175	185	360	480	290	390	40	24	75	35	10×5	125	70	20×7.5	293
155/250		795	510	380	360	302	355	450	800	200	203	460	560	380	480	45	28	85	40	12×5	155	90	25×9	462

WPES 型

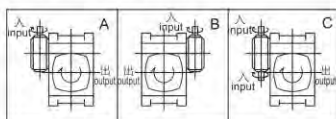


轴指向表示 SHAFT DIRECTION

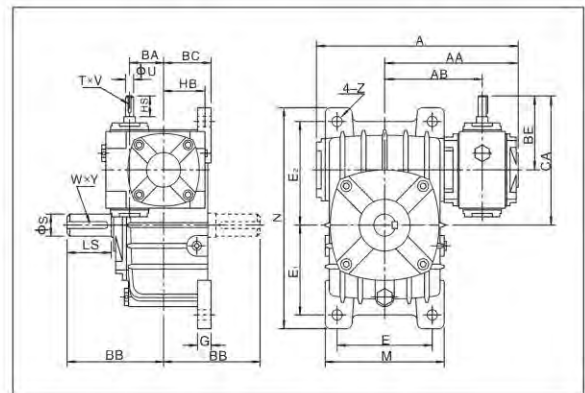
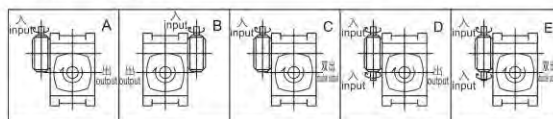


型号 size	传动比 ratio	A	AA	AB	BB	BE	HH	HL	LL	H	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight (kg)
																	HS	U	T×V	LS	S	W×Y	
40/70		262	171	126	131	89	35	215	105	238	150	190	115	150	20	15	25	12	4×2.5	60	28	8×4	20
50/80		297	197	144	142	107	35	250	120	273	170	220	135	180	20	15	30	12	4×2.5	65	32	10×5	27
60/100	200	363	231	175	169	122	42	310	150	331	190	270	155	220	25	15	40	15	5×3	75	38	10×5	44
70/120	300	408	256	193	190	140	55	370	180	423	230	320	180	260	30	18	40	18	6×3.5	85	45	14×5.5	73
80/135	400	471	298	226	210	160	65	430	215	482	250	350	200	290	30	18	50	22	6×3.5	95	55	16×6	101
80/147	500	476	301	229	212	160	65	430	203	495	250	350	200	280	32	18	50	22	6×3.5	95	55	16×6	112
100/155	600	555	354	269	252	190	80	490	235	541	275	390	220	320	35	21	50	25	8×4	110	60	18×7	144
120/175	800	598	379	287	262	229	95	555	260	594	310	430	250	350	40	21	65	30	8×4	110	65	18×7	201
135/200	900	662	425	318	305	260	105	625	290	677	360	480	290	390	40	24	75	35	10×5	125	70	20×7.5	293
155/250		795	510	380	360	302	103	755	350	824	460	560	380	480	45	28	85	40	12×5	155	90	25×9	462

WPEX 型

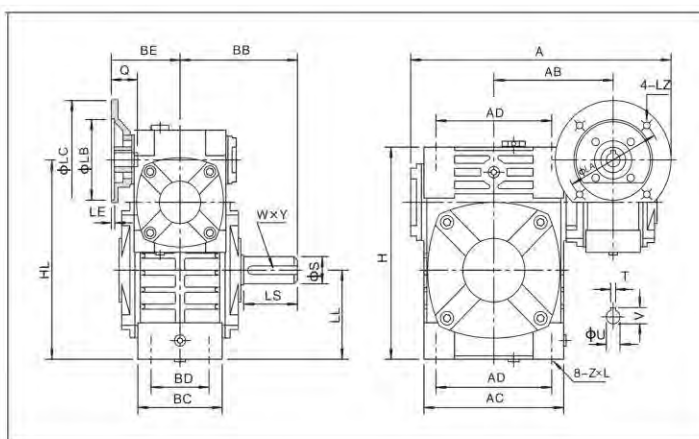
WPEX 轴指向表示
SHAFT DIRECTION

WPEO 型

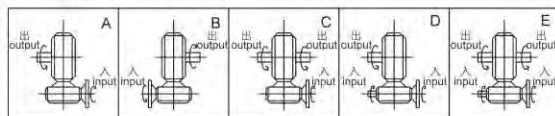
WPEO 轴指向表示
SHAFT DIRECTION

型号 size	传动比 ratio	A	AA	AB	BA	BB	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft			重量 weight (kg)
																		HS	U	T×V	LS	S	W×Y	
40/70		262	171	126	40	131	65	89	50	159	156	295	120	120	135	20	15	25	12	4×2.5	60	28	8×4	19
50/80		297	197	144	50	142	70	107	65	187	175	320	140	130	150	20	15	30	12	4×2.5	65	32	10×5	27
60/100	200	363	231	175	60	169	90	122	75	222	224	375	190	155	180	26	15	40	15	5×3	75	38	10×5	44
70/120	300	408	256	193	70	190	100	140	90	260	266	450	220	185	215	30	18	40	18	6×3.5	85	45	14×5.5	63
80/135	400	471	298	226	80	210	110	160	105	295	306	495	260	210	235	30	18	50	22	6×3.5	95	55	16×6	96
80/147	500	476	301	229	80	212	113	160	105	307	310	556	250	254	254	32	18	50	22	6×3.5	95	55	16×6	112
100/155	600	555	354	269	100	252	140	190	130	345	350	590	290	245	295	35	21	50	25	8×4	110	60	18×7	149
120/175	800	598	379	287	120	262	150	229	155	404	394	640	320	267	323	40	21	65	30	8×4	110	65	18×7	191
135/200	900	662	425	318	135	305	175	260	185	460	440	710	370	290	360	40	24	75	35	10×5	125	70	20×7.5	278
155/250		795	510	380	155	360	200	302	203	552	510	860	440	350	440	45	28	85	40	12×5	155	90	25×9	442

WPWED 型

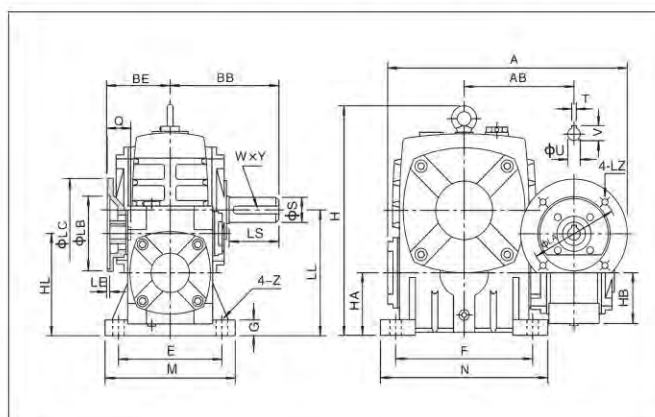


轴指向表示 SHAFT DIRECTION

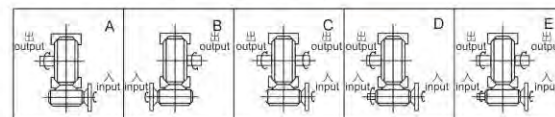


型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	BE	AC	BC	AD	BD	HL	LL	H	Z×L	电机法兰 flange					入力孔input hole			输出轴output shaft			重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y														
40/70	0.12	200	287	126	131	75	152	86	125	65	200	90	215	M10×25	115	95	140	4	M8	31	11	4×12.8	60	28	8×4	17	
50/80	0.18		314	144	142	83	169	102	140	70	235	105	250	M12×28	115	95	140	4	M8	31	11	4×12.8	65	32	10×5	28	
60/100	0.37		387	175	169	91	216	117	180	90	290	130	310	M12×30	130	110	160	4	M8	33	14	5×16.3	75	38	10×5	44	
70/120	0.37		425	193	190	109	256	124	220	100	345	155	370	M14×32	130	110	160	4	M8	40	14	5×16.3	85	45	14×5.5	66	
	0.75		445			165									130	200	M10		42	19	6×21.8						
80/135	0.75		499	226	210	125	296	147	260	110	400	185	425	M16×35	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	101	
	1.5																			52	24	8×27.3					
100/155	1.5		570	269	252	140	345	185	280	120	458	203	461	M16×35	165	130	200	4.5	M10	52	24	8×27.3	110	60	18×7	139	
120/175	2.2		800	631	287	262	181	374	192	320	140	518	223	521	M16×35	215	180	250	5	M12	63	28	8×31.3	110	65	18×7	196
135/200	3.0			680	318	305	193	412	230	360	150	580	245	575	M20×36	215	180	250	5	M12	63	28	8×31.3	125	70	20×7.5	285
	4.0																										
155/250	4.0	900	815	380	360	215	500	285	420	190	705	300	700	M24×42	215	180	250	5	M12	63	28	8×31.3	155	90	25×9	450	
	5.5					265									230	300	5	M12	83	38	10×41.3						

WPEDA 型



轴指向表示 SHAFT DIRECTION

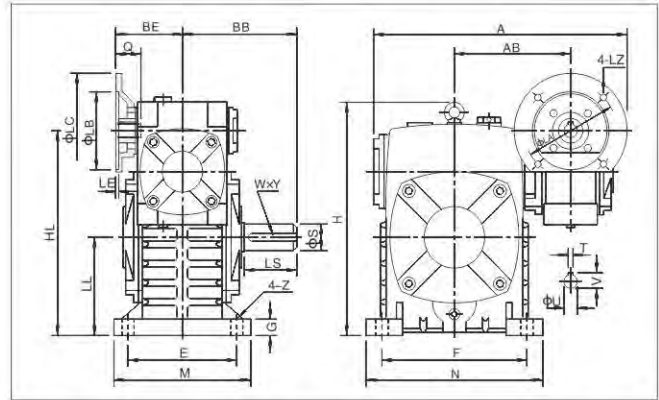
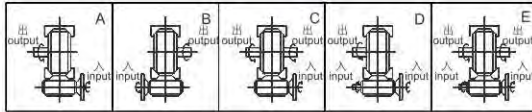


型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴output shaft			重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y																	
40/70	0.12	200	287	126	131	75	110	140	236	70	50	150	190	115	150	20	15	115	95	140	4	M8	31	11	4×12.8	60	28	8×4	19	
50/80	0.18		314	144	142	83	130	160	268	80	65	170	220	135	180	20	15	115	95	140	4	M8	31	11	4×12.8	65	32	10×5	27	
60/100	0.37		387	175	169	91	160	200	329	100	75	190	270	155	220	25	15	130	110	160	4	M8	33	14	5×16.3	75	38	10×5	45	
70/120	0.37		425	193	190	109	190	240	430	120	90	230	320	180	260	30	18	130	110	160	4	M8	40	14	5×16.3	85	45	14×5.5	75	
	0.75		445																				42	19	6×21.8					
80/135	0.75		499	226	210	125	215	270	480	135	105	250	350	200	290	30	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	103	
	1.5																						52	24	8×27.3					
80/147	0.75		504	229	212	125	203	270	501	123	105	250	350	200	280	32	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	114	
	1.5																						52	24	8×27.3					
100/155	1.5		600	570	269	252	140	235	290	531	135	130	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8×27.3	110	60	18×7	147
120/175	2.2		900	631	287	262	181	280	335	600	160	155	310	430	250	350	40	21	215	180	250	5	M12	63	28	8×31.3	110	65	18×7	204
3.0																														
135/200	4.0	680																												
155/250	4.0	5.5	815	380	360	215	355	450	800	200	203	460	560	380	480	45	28	215	180	250	5	M12	63	28	8×31.3	155	90	25×9	470	
	5.5																						265	230	300					5

WPEDS 型

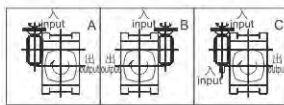


轴指向表示 SHAFT DIRECTION

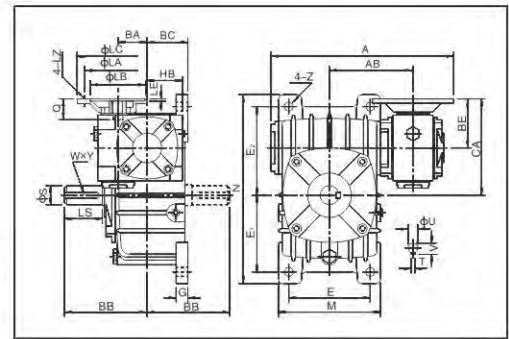
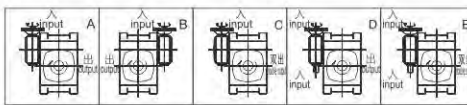


型号 size	入功率 input(kW)	传动比 ratio	A	AB	BB	BE	HL	LL	H	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y														
40/70	0.12	200	287	126	131	75	215	105	238	150	190	115	150	20	15	115	95	140	4	M8	31	11	4×12.8	60	28	8×4	19
50/80	0.18		314	144	142	83	250	120	273	170	220	135	180	20	15	115	95	140	4	M8	31	11	4×12.8	65	32	10×5	27
60/100	0.37		387	175	169	91	310	150	331	190	270	155	220	25	15	130	110	160	4	M8	33	14	5×16.3	75	38	10×5	45
70/120	0.37		425	193	190	109	370	180	423	230	320	180	260	30	18	130	110	160	4	M8	40	14	5×16.3	85	45	14×5.5	75
	0.75		445			111										165	130	200		M10	42	19	6×21.8				
80/135	0.75		499	226	210	125	430	215	482	250	350	200	290	30	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	103
	1.5																				52	24	8×27.3				
80/147	0.75		504	229	212	125	430	203	495	250	350	200	280	32	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	114
	1.5																				52	24	8×27.3				
100/155	1.5	600	570	269	252	140	490	235	541	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8×27.3	110	60	18×7	147
120/175	2.2	800	631	287	262	181	555	260	594	310	430	250	350	40	21	215	180	250	5	M12	63	28	8×31.3	110	65	18×7	204
	3.0																										
135/200	3.0	900	680	318	305	193	625	290	677	360	480	290	390	40	24	215	180	250	5	M12	63	28	8×31.3	125	70	20×7.5	298
	4.0																										
155/250	4.0		815	380	360	215	755	350	824	460	560	380	480	45	28	215	180	250	5	M12	63	28	8×31.3	155	90	25×9	470
	5.5					224																					

WPEDX 型

WPEDX 轴指向表示
SHAFT DIRECTION

WPEDO 型

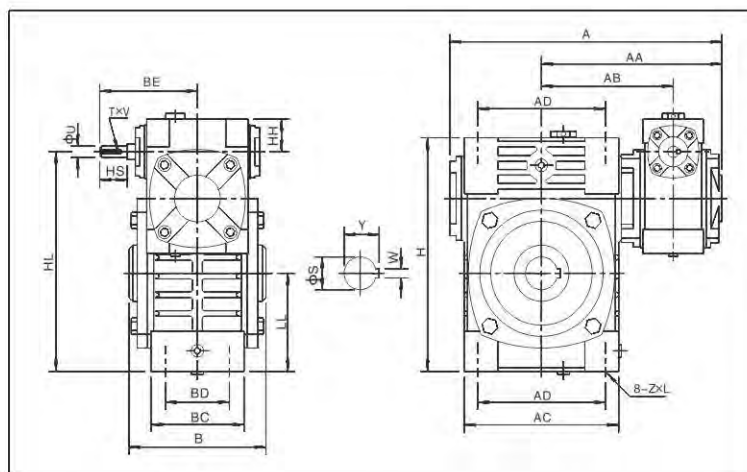
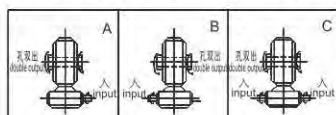
WPEDO 轴指向表示
SHAFT DIRECTION

型号 size	入功率 input(kW)	传动比 ratio	A	AB	BA	BB	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft			重量 weight (kg)
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y																
40/70	0.12	200	287	126	40	131	65	75	50	145	156	295	120	120	135	20	15	115	95	140	4	M8	31	11	4×12.8	60	28	8×4	19
50/80	0.18		314	144	50	142	70	83	65	163	175	320	140	130	150	20	15	115	95	140	4	M8	31	11	4×12.8	65	32	10×5	27
60/100	0.37		387	175	60	169	90	91	75	191	224	375	190	155	180	26	15	130	110	160	4	M8	33	14	5×16.3	75	38	10×5	45
70/120	0.37		425	193	70	190	100	109	90	229	266	450	220	185	215	30	18	130	110	160	4	M8	40	14	5×16.3	85	45	14×5.5	65
	0.75		445					111		231								165	130	200		M10	42	19	6×21.8				
80/135	0.75		499	226	80	210	110	125	105	260	306	495	260	210	235	30	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	98
	1.5																					52	24	8×27.3					
80/147	0.75		504	229	80	212	113	125	105	272	310	556	250	254	254	32	18	165	130	200	4.5	M10	48	19	6×21.8	95	55	16×6	114
	1.5																					52	24	8×27.3					
100/155	1.5	600	570	269	100	252	140	140	130	295	350	590	290	245	295	35	21	165	130	200	4.5	M10	52	24	8×27.3	110	60	18×7	152
120/175	2.2	800	631	287	120	262	150	181	155	356	394	640	320	267	323	40	21	215	180	250	5	M12	63	28	8×31.3	110	65	18×7	194
3.0																													
135/200	3.0	900	680	318	135	305	175	193	185	393	440	710	370	290	360	40	24	215	180	250	5	M12	63	28	8×31.3	125	70	20×7.5	283
4.0																													
155/250	4.0		815	380	155	360	200	215	203	465	510	860	440	350	440	45	28	215	180	250	5	M12	63	28	8×31.3	155	90	25×9	450
	5.5							224		474																			

WPWEK 型



轴指向表示 SHAFT DIRECTION

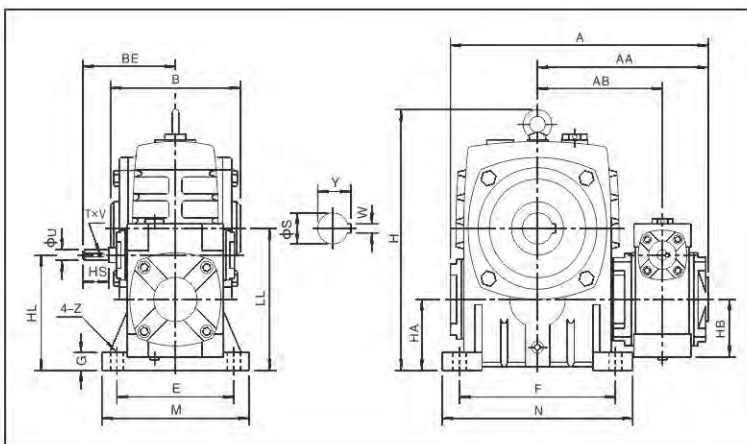
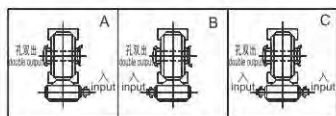


型号 size	传动比 ratio	A	AA	AB	B	BE	AC	BC	AD	BD	HH	HL	LL	H	Z × L	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
																HS	U	T × V	S	W × Y	
40/70	200	262	171	126	132	89	152	86	125	65	35	200	90	215	M10 × 25	25	12	4 × 2.5	30	8 × 33.3	17
50/80		297	197	144	150	107	169	102	140	70	35	235	105	250	M12 × 28	30	12	4 × 2.5	35	10 × 38.3	28
60/100		363	231	175	174	122	216	117	180	90	42	290	130	310	M12 × 30	40	15	5 × 3	40	12 × 43.3	43
70/120		408	256	193	180	140	256	124	220	100	55	345	155	370	M14 × 32	40	18	6 × 3.5	45	14 × 48.8	64
80/135	500	471	298	226	214	160	296	147	260	110	65	400	185	425	M16 × 35	50	22	6 × 3.5	60	18 × 64.4	99
100/155	600	555	354	269	256	190	345	185	280	120	80	458	203	461	M16 × 35	50	25	8 × 4	70	20 × 74.9	136
120/175	800	598	379	287	282	229	374	192	320	140	95	518	223	521	M16 × 35	65	30	8 × 4	80	22 × 85.4	193
135/200	900	662	425	318	324	260	412	230	360	150	105	580	245	575	M20 × 36	75	35	10 × 5	85	22 × 90.4	280
155/250		795	510	380	400	302	500	285	420	190	103	705	300	700	M24 × 42	85	40	12 × 5	110	28 × 116.4	442

WPEKA 型



轴指向表示 SHAFT DIRECTION

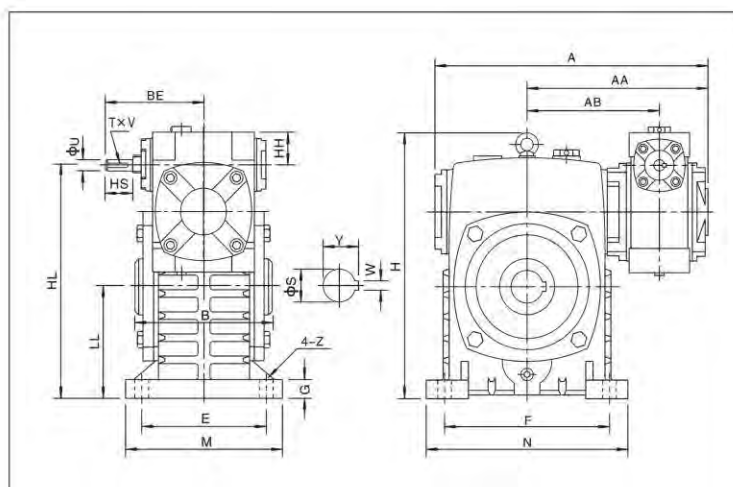
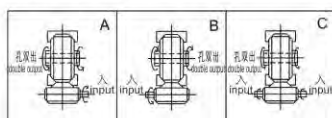


型号 size	传动比 ratio	A	AA	AB	B	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
		HS	U	T×V	S	W×Y																	
40/70	200 300 400 500 600 800 900	262	171	126	132	89	110	140	236	70	50	150	190	115	150	20	15	25	12	4×2.5	30	8×33.3	20
50/80		297	197	144	150	107	130	160	268	80	65	170	220	135	180	20	15	30	12	4×2.5	35	10×38.3	27
60/100		363	231	175	174	122	160	200	329	100	75	190	270	155	220	25	15	40	15	5×3	40	12×43.3	44
70/120		408	256	193	180	140	190	240	430	120	90	230	320	180	260	30	18	40	18	6×3.5	45	14×48.8	73
80/135		471	298	226	214	160	215	270	480	135	105	250	350	200	290	30	18	50	22	6×3.5	60	18×64.4	101
100/155		555	354	269	256	190	235	290	531	135	130	275	390	220	320	35	21	50	25	8×4	70	20×74.9	144
120/175		598	379	287	282	229	280	335	600	160	155	310	430	250	350	40	21	65	30	8×4	80	22×85.4	201
135/200		662	425	318	324	260	310	375	667	175	185	360	480	290	390	40	24	75	35	10×5	85	22×90.4	293
155/250		795	510	380	400	302	355	450	800	200	203	460	560	380	480	45	28	85	40	12×5	110	28×116.4	462

WPEKS 型



轴指向表示 SHAFT DIRECTION

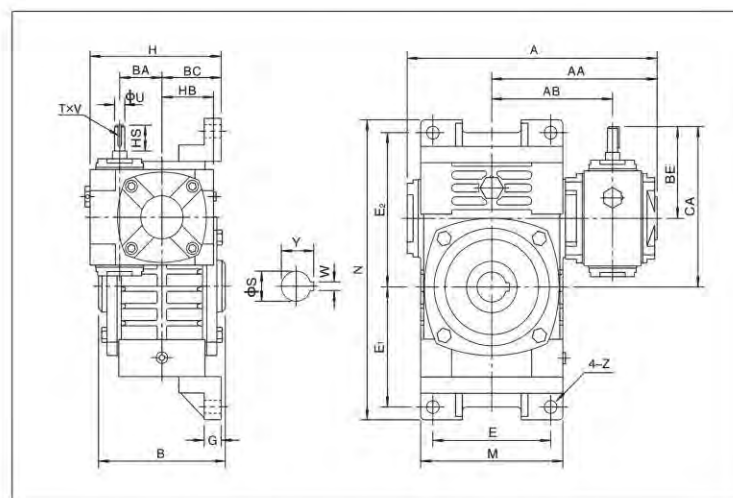
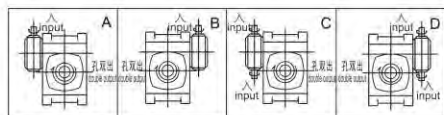


型号 size	传动比 ratio	A	AA	AB	B	BE	HH	HL	LL	H	M	N	E	F	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
																	HS	U	T×V	S	W×Y	
40/70	200 300 400 500 600 800 900	262	171	126	132	89	35	215	105	238	150	190	115	150	20	15	25	12	4×2.5	30	8×33.3	20
50/80		297	197	144	150	107	35	250	120	273	170	220	135	180	20	15	30	12	4×2.5	35	10×38.3	27
60/100		363	231	175	174	122	42	310	150	331	190	270	155	220	25	15	40	15	5×3	40	12×43.3	44
70/120		408	256	193	180	140	55	370	180	423	230	320	180	260	30	18	40	18	6×3.5	45	14×48.8	73
80/135		471	298	226	214	160	65	430	215	482	250	350	200	290	30	18	50	22	6×3.5	60	18×64.4	101
100/155		555	354	269	256	190	80	490	235	541	275	390	220	320	35	21	50	25	8×4	70	20×74.9	144
120/175		598	379	287	282	229	95	555	260	594	310	430	250	350	40	21	65	30	8×4	80	22×85.4	201
135/200		662	425	318	324	260	105	625	290	677	360	480	290	390	40	24	75	35	10×5	85	22×90.4	293
155/250		795	510	380	400	302	103	755	350	824	460	560	380	480	45	28	85	40	12×5	110	28×116.4	462

WPWEKO 型



轴指向表示 SHAFT DIRECTION

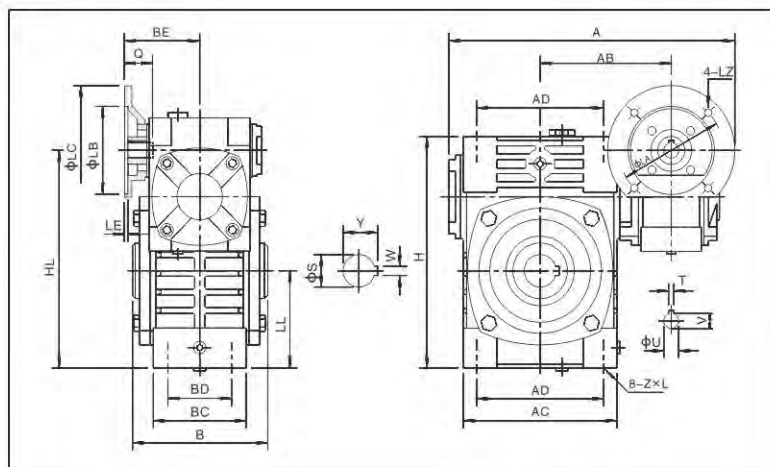
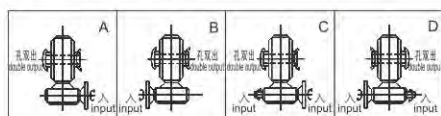


型号 size	传动比 ratio	A	AA	AB	B	BA	BC	BE	HB	CA	H	M	N	E	E ₁	E ₂	G	Z	输入轴 input shaft			输出轴 output shaft		重量 weight (kg)
																			HS	U	T×V	S	W×Y	
40/70	200 300 400 500 600 800 900	262	171	126	132	40	65	89	50	159	140	152	305	120	120	155	20	15	25	12	4×2.5	30	8×33.3	19.5
50/80		297	197	144	150	50	70	107	65	187	155	174	350	140	140	180	20	15	30	12	4×2.5	35	10×38.3	30.5
60/100		363	231	175	174	60	90	122	76	222	192	224	410	190	165	215	22	15	40	15	5×3	40	12×43.3	47
70/120		408	256	193	180	70	100	140	90	260	225	264	494	220	195	255	25	18	40	18	6×3.5	45	14×48.8	69
80/135		471	298	226	214	80	110	160	105	295	255	304	559	260	230	285	30	18	50	22	6×3.5	60	18×64.4	105
100/155		555	354	269	256	100	140	190	130	345	320	345	605	290	250	305	35	21	50	25	8×4	70	20×74.9	163
120/175		598	379	287	282	120	150	229	155	404	365	374	675	320	273	348	40	21	65	30	8×4	80	22×85.4	208
135/200		662	425	318	324	135	175	260	185	460	415	424	749	370	305	390	40	24	75	35	10×5	85	22×90.4	302
155/250		795	510	380	400	155	200	302	203	552	458	510	920	440	375	475	45	28	85	40	12×5	110	28×116.4	476

WPWEDK 型



轴指向表示
SHAFT DIRECTION

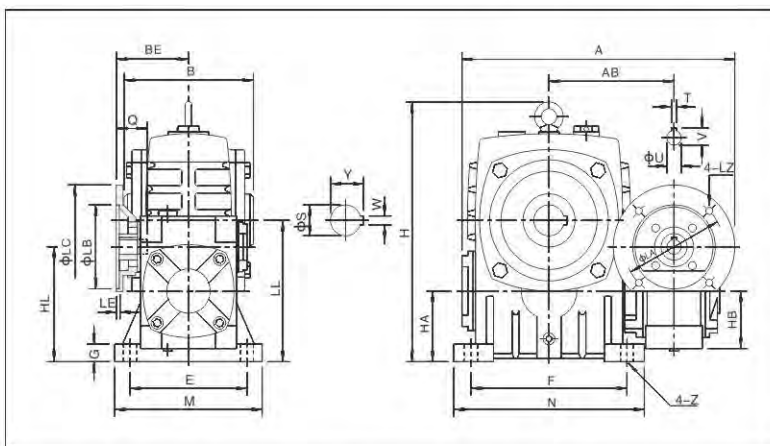
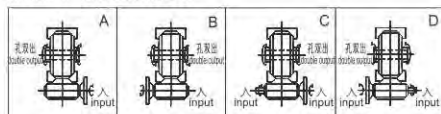


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	BE	AC	BC	AD	BD	HL	LL	H	Z × L	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)
															LA	LB	LC	LE	LZ	Q	U	T × V	S	W × Y	
40/70	0.12	200	287	126	132	75	152	86	125	65	200	90	215	M10 × 25	115	95	140	4	M8	31	11	4 × 12.8	30	8 × 33.3	17
50/80	0.18		314	144	150	83	169	102	140	70	235	105	250	M12 × 28	115	95	140	4	M8	31	11	4 × 12.8	35	10 × 38.3	28
60/100	0.37		387	175	174	91	216	117	180	90	290	130	310	M12 × 30	130	110	160	4	M8	33	14	5 × 16.3	40	12 × 43.3	44
70/120	0.37		425	193	180	109	256	124	220	100	345	155	370	M14 × 32	130	110	160	4	M8	40	14	5 × 16.3	45	14 × 48.8	66
	0.75		445			111									165	130	200		M10	42	19	6 × 21.8			
80/135	0.75		499	226	214	125	296	147	260	110	400	185	425	M16 × 35	165	130	200	4.5	M10	48	19	6 × 21.8	60	18 × 64.4	101
	1.5																			52	24	8 × 27.3			
100/155	1.5	500	570	269	256	140	345	185	280	120	458	203	461	M16 × 35	165	130	200	4.5	M10	52	24	8 × 27.3	70	20 × 74.9	139
120/175	2.2	600	631	287	282	181	374	192	320	140	518	223	521	M16 × 35	215	180	250	5	M12	63	28	8 × 31.3	80	22 × 85.4	196
135/200	3.0	900	680	318	324	193	412	230	360	150	580	245	575	M20 × 36	215	180	250	5	M12	63	28	8 × 31.3	85	22 × 90.4	285
	4.0																								
155/250	5.5		815	380	400	215	500	285	420	190	705	300	700	M24 × 42	215	180	250	5	M12	63	28	8 × 31.3	110	28 × 116.4	450
						224									265	230	300	5	M12	83	38	10 × 41.3			

WPEDKA 型



轴指向表示
SHAFT DIRECTION

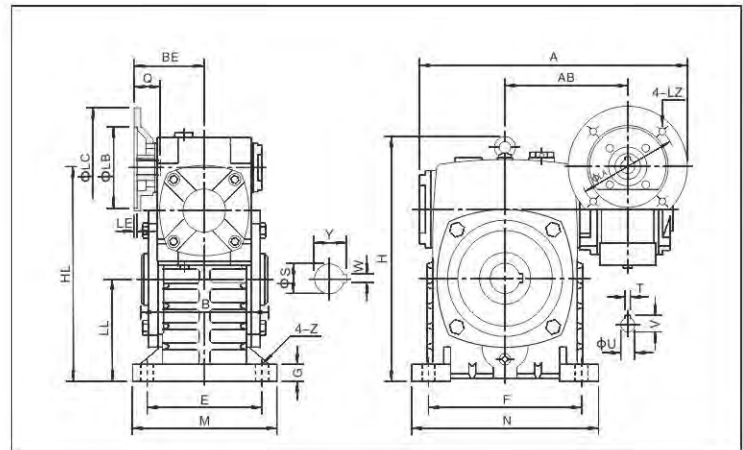
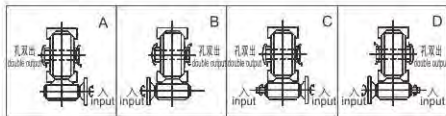


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y	
40/70	0.12	200	287	126	132	75	110	140	236	70	50	150	190	115	150	20	15	115	95	140	4	M8	31	11	4×12.8	30	8×33.3	19
50/80	0.18		314	144	150	83	130	160	268	80	65	170	220	135	180	20	15	115	95	140	4	M8	31	11	4×12.8	35	10×38.3	27
60/100	0.37		387	175	174	91	160	200	329	100	75	190	270	155	220	25	15	130	110	160	4	M8	33	14	5×16.3	40	12×43.3	45
70/120	0.37		425	193	180	109	190	240	430	120	90	230	320	180	260	30	18	130	110	160	4	M8	40	14	5×16.3	45	14×48.8	75
	0.75		445			111																						
80/135	0.75		499	226	214	125	215	270	480	135	105	250	350	200	290	30	18	165	130	200	4.5	M10	42	19	6×21.8	60	18×64.4	103
	1.5																											
100/155	1.5	500	570	269	256	140	235	290	531	135	130	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8×27.3	70	20×74.9	147
120/175	2.2	600	631	287	282	181	280	335	600	160	155	310	430	250	350	40	21	215	180	250	5	M12	63	28	8×31.3	80	22×85.4	204
135/200	3.0	900	680	318	324	193	310	375	667	175	185	360	480	290	390	40	24	215	180	250	5	M12	63	28	8×31.3	85	22×90.4	298
	4.0																											
155/250	5.5		815	380	400	215	355	450	800	200	203	460	560	380	480	45	28	215	180	250	5	M12	63	28	8×31.3	110	28×116.4	470
					224													265	230	300	5	M12	83	38	10×41.3			

WPEDKS 型



轴指向表示
SHAFT DIRECTION

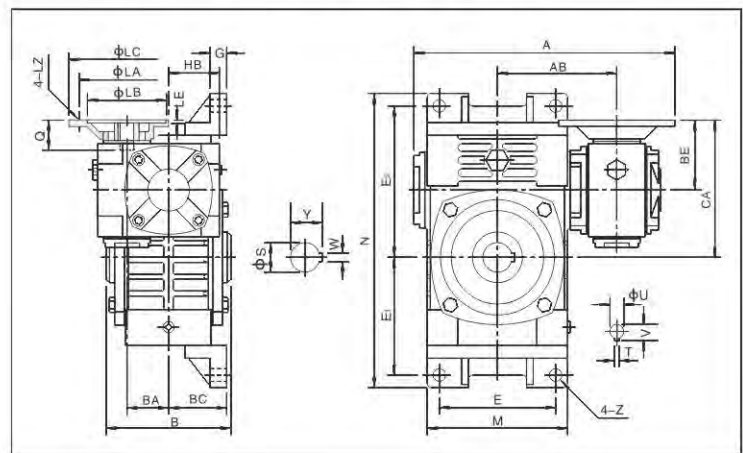
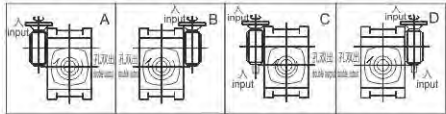


型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	BE	HL	LL	H	M	N	E	F	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T × V	S	W × Y															
40/70	0.12	200 300 400 500 600 800 900	287	126	132	75	215	105	238	150	190	115	150	20	15	115	95	140	4	M8	31	11	4 × 12.8	30	8 × 33.3	19	
50/80	0.18		314	144	150	83	250	120	273	170	220	135	180	20	15	115	95	140	4	M8	31	11	4 × 12.8	35	10 × 38.3	27	
60/100	0.37		387	175	174	91	310	150	331	190	270	155	220	25	15	130	110	160	4	M8	33	14	5 × 16.3	40	12 × 43.3	45	
70/120	0.37		425			109										130	110	160		M8	40	14	5 × 16.3				
	0.75		445	193	180	111	370	180	423	230	320	180	260	30	18	165	130	200	4	M10	42	19	6 × 21.8	45	14 × 48.8	75	
80/135	0.75																				48	19	6 × 21.8				
	1.5		499	226	214	125	430	215	482	250	350	200	290	30	18	165	130	200	4.5	M10	52	24	8 × 27.3	60	18 × 64.4	103	
100/155	1.5		570	269	256	140	490	235	541	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8 × 27.3	70	20 × 74.9	147	
120/175	2.2																										
	3.0		631	287	282	181	555	260	594	310	430	250	350	40	21	215	180	250	5	M12	63	28	8 × 31.3	80	22 × 85.4	204	
135/200	3.0																										
	4.0		680	318	324	193	625	290	677	360	480	290	390	40	24	215	180	250	5	M12	63	28	8 × 31.3	85	22 × 90.4	298	
155/250	4.0					215											215	180	250	5	M12	63	28	8 × 31.3			
	5.5		815	380	400	224	755	350	824	460	560	380	480	45	28	265	230	300	5	M12	83	38	10 × 41.3	110	28 × 116.4	470	

WPWEDKO 型



轴指向表示
SHAFT DIRECTION



型号 size	入功率 input(kW)	传动比 ratio	A	AB	B	BA	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	电机法兰 flange					入力孔 input hole			输出轴 output shaft		重量 weight (kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y																	
40/70	0.12	200 300 400 500 600 800 900	287	126	132	40	65	75	50	145	152	305	120	120	155	20	15	115	95	140	4	M8	31	11	4×12.8	30	8×33.3	20	
50/80	0.18		314	144	150	50	70	83	65	163	174	350	140	140	180	20	15	115	95	140	4	M8	31	11	4×12.8	35	10×38.3	31	
60/100	0.37		387	175	174	60	90	91	75	191	224	410	190	165	215	22	15	130	110	160	4	M8	33	14	5×16.3	40	12×43.3	48	
70/120	0.37		425					109		229								130	110	160		M8	40	14	5×16.3				
	0.75		445	193	180	70	100	111	90	231	264	494	220	195	255	25	18	165	130	200	4	M10	42	19	6×21.8	45	14×48.8	71	
80/135	0.75																					48	19	6×21.8					
	1.5		499	226	214	80	110	125	105	260	304	559	260	230	285	30	18	165	130	200	4.5	M10	52	24	8×27.3	60	18×64.4	107	
100/155	1.5		570	269	256	100	140	140	130	295	345	605	290	250	305	35	21	165	130	200	4.5	M10	52	24	8×27.3	70	20×74.9	166	
120/175	2.2		800 900																										
	3.0			631	287	282	120	150	181	155	356	374	675	320	273	348	40	21	215	180	250	5	M12	63	28	8×31.3	80	22×85.4	211
	4.0																												
135/200	4.0			680	318	324	135	175	193	185	393	424	749	370	305	390	40	24	215	180	250	5	M12	63	28	8×31.3	85	22×90.4	307
155/250	4.0																												
	5.5			815	380	400	155	200	215	203	465	510	920	440	375	475	45	28	215	180	250	5	M12	63	28	8×31.3	110	28×116.4	484

7. 使用说明 Operating Instructions

7.1 安装注意事项 Notices of installation



7.1.1 减速机须安装在平整坚固的底座上，底脚螺栓必须紧固、防震。

The base-plate must be plane and stoutness, and the base-bolts must be screwed down and shockproof.

7.1.2 原动机——减速机——工作机的各联接轴伸，安装后必须互相准确对准轴线。

The connecting shafts of prime mover, reducer and operation device must be coaxial after installation.

7.1.3 减速机输入端及输出端轴伸外径尺寸公差均按 h6 制作，与之相配的联轴器、皮带轮、链轮等传动件内孔须按合适的尺寸公差配制，避免装配过紧损坏轴承，装配过松影响正常动力传递。

The diameter tolerance zone of input and output shafts is h6, the holes of fittings (such as couplings, belt-pulley, sprocket wheel and so on)must properly mate the shaft, which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.

7.1.4 链轮、齿轮等传动件装上轴伸时，应尽量靠近轴承，以减少轴伸弯曲应力。

Drivers such as sprocket wheel and gear must be fitted close to bearings in order to reduce bending stress of hanging shaft.

7.1.5 WPD 型减速机装配电机时，应在蜗杆头部内孔孔壁及键槽处涂抹黄油，避免装配过紧，防止轴孔日久生锈。

While assembling motor of WPD reducer, it is necessary that proper amount of butter applies to the worm shaft input hole and keyway, avoiding assembling too tightly and rusting after using for a long time.

7.1.6 订购使用各类 WPD 减速机时，若电机重量偏大，应设支撑装置。

Supporting frame is required if the motor weight is bigger, When all types of WPD worm gearbox are used.

7.2 使用注意事项 Notices of usage

7.2.1 使用前应注意检查减速机型式结构、中心距规格、传动比、输入轴连接方式、输出轴结构、输入轴输出轴指向和回转方向等是否符合使用要求。

Before using, please check carefully whether the reducer model, distance, transmission ratio, input connecting method, output shaft structure, input and output shaft direction and revolving direction accord with requirement.

7.2.2 按照样本上“油品润滑”中所规定的要求，注入合适的品种牌号润滑油。加油后，旋紧顶部的通气器，拔掉通气器上之小锥塞，减速机方可开始运转，必须选用合适牌号的润滑油，必须控制适宜的加油量，必须按规定要求及时换油，尤其要重视首次使用 100 小时后的更换新油。

According to the requirement of "lubricant" in the product manual, please fill proper category and brand lubricant. And then screw on the vent-plug, uncork the small cone-plug of vent-plug. Only after doing these, reducer is ready for starting up running. The proper brand and adequate lubricant oil is required; replacing oil in time conforming to the request of product manual is also necessary, especially after using first 100 hours, it is required refilling new oil.

7.2.3 使用过程中发生不正常情况时，应及时停机检查，可参照“故障分析”表处理。（减速机的油温最高允许达到 95℃，在此温度界限下，只要油温不再上升，可以放心使用）。

When abnormal circumstances occur, please stop and check reducer per "Malfunctions Analysis" (allowable highest oil temperature is 95℃, under this temperature limit, if oil temperature no more goes up, please let reducer continue running).

8. 油品润滑 lubricant

蜗杆减速机使用前应注入 N220~N320 (环境温度 -30℃~40℃)或N320~N680(环境温度25℃~65℃)润滑油至油标中心点之上, 并取掉通气器上之小锥塞。首次使用100小时后, 洗净内部更换新油, 以后每2500小时换油一次。

Before operation,input N220~N320(Ambient temperature -30℃~40℃)、N320~N680(Ambient temperature 25℃~65℃) lubrication oil up to the center line of the oil gauge. In the meanwhile, remove the small screw of the breather. After working for 100 hours in the first time, clear the inside and add new lubrication oil in it , then renew the lubricant oil per 2500 hours.



减速机在使用时, 可按下表选用润滑油, 加油量参照润滑油注油量表。

Lubricants for a reducer are optional in foreign as the below table. Adding oil according to capacity of lubrication oil.

Worm shaft speed (r/min)		Lubricant	Operating position Worm shaft,upper Worm shaft vertical	Operating position Worm shaft,lower Output shaft vertical
over	up to			
1000	3000	Synthetic oils	PG460	PG220 PAO220
	1000		PAO460	PG460 PAO460
2000	3000	Synthetic oils Mineral oils	PG460	PG220 PAO220 Mineral220
750	2000		PAO460	PG320 PAO320 Mineral320
250	750		Mineral 460	PG320 PAO320 Mineral460
	250		PG680 PAO680 Mineral 680	PG680 PAO680 Mineral680

周围温度 Ambient Temp	负荷 Load	ISO VG	GB3141-82		Mobil	TOTAL	HOIYKER
-30℃ ~ -10℃	普通 Commonly	VG 100	N100	Shell Omila S4WE150	SHC 627	CARTER SY 100	HOIYKER SHC 100
	重载 Heavy	VG 150	N150	Shell Omila S4WE150	SHC 629	CARTER SY 150	HOIYKER SHC 150
-10℃ ~ 10℃	普通 Commonly	VG 150	N150	Shell Omila S4WE150	SHC 629	CARTER SY 150	HOIYKER SHC 150
	重载 Heavy	VG 220	N220	Shell Omila S4WE220	SHC 630	CARTER SY 220	HOIYKER SHC 220
10℃ ~ 30℃	普通 Commonly	VG 220	N220	Shell Omila S4WE220	SHC 630	CARTER SY 220	HOIYKER SHC 220
	重载 Heavy	VG 320	N320	Shell Omila S4WE320	SHC 632	CARTER SY 320	HOIYKER SHC 320
10℃ ~ 40℃	普通 Commonly	VG 320	N320	Shell Omila S4WE320	SHC 632	CARTER SY 320	HOIYKER SHC 320
	重载 Heavy	VG 460	N460	Shell Omila S4WE460	SHC 634	CARTER SY 460	HOIYKER SHC 460
40℃ ~ 65℃	普通 Commonly	VG 460	N460	Shell Omila S4WE460	SHC 634	CARTER SY 460	HOIYKER SHC 460
	重载 Heavy	VG 680	N680	Shell Omila S4WE680	SHC 636	CARTER SY 680	HOIYKER SHC 680

9. 故障分析

Malfunctions Analysis

故障情况 Fault Description	故障原因 Reasons	解决办法 Solutions
过热 Overheating	原动机、减速机、工作机连接不当 Improper connection among prime mover, reducer and the operation device	调整至适当位置，使三者相联轴线同轴 Adjust to proper position
	超负荷运转 Overloading	适当调整负荷 Adjust to proper load
	油封过度磨擦 Over friction of oil seals	在油封唇口处滴润滑油 Drop lubricant at oil seal
	润滑油过少或过多 Lubricant oil overmuch or shortage	按油标指示点调整油量 Adjust to proper oil quantity as indication
	润滑油杂质多或润滑性差 Much impurity in oil or inferior oil	更换合适新油 Refill proper oil
振动 Vibration	原动机、减速机、工作机固定不良 Prime mover, reducer and the operation device mount badly	查出固定不良部位，正确固紧 Find out the bad place, tighten it
	蜗轮副齿部磨损或损伤 Tooth surface of worm gear sets worn-out or damaged	更换蜗轮副（需要时请咨询杰牌） Replace worm gear sets (we will cooperate with you when necessary)
	轴承磨损 Bearing worn-out	更换轴承 Replace Bearing
	螺栓松脱 Bolt loose	固紧螺栓 Tighten Screw
异响 Noise	轴承损伤或间隙过大 Bearing damaged or too large clearance	更换轴承 Replace Bearing
	蜗轮副啮合不良 Worm gear sets mesh badly	修整齿面或更换蜗轮副（需要时请咨询杰牌） Mend tooth surface or replace worm gear sets (please contact to us)
	润滑油不足 Lubricant oil shortage	按油标指示点补加润滑油 Fill in adequate oil as indication
	机体内有异物 Foreign object in box	倒净润滑油带出异物，重加清洁润滑油 Discharge all the oil in order to put out foreign object, and refill clean oil
漏油 Oil leakage	油封唇口磨损 Oil seal lip worn-out	更换油封 Replace oil seal
	油封档轴颈磨损 Shaft of oil seal area worn-out	更换输出轴或输入轴 Replace input or output shaft
	油量过多 Too much oil	按油标指示点调整油量 Discharge adequate oil as indication
	放油螺塞未旋紧 Oil screw plug loose	螺纹处加密封胶、旋紧螺塞 Tighten oil screw plug
	油标破损 Oil gauge damaged	更换油标 Replace oil gauge
蜗轮副齿面 磨损过快 Tooth surface of worm gear sets abrade extra-quickly	超负荷运转 Overload	调整至适当负荷 Adjust to proper loading
	润滑油不符合要求 Lubricant oil not according with requirement	更换合适的润滑油 Replace proper lubricant oil
	润滑油不足 Lubricant oil shortage	按油标指示点加足润滑油 Fill adequate oil as indication
	未按规定适时换油，润滑油劣化 Not replacing lubricant oil in time according to requirement, oil deteriorates	按规定要求适时换油 Replacing oil in time according to requirement
	运转温度过高 Overheating while running	1. 按“过热”故障处理 2. 采取合适措施，降低环境温度 1. Deal with it as "Overheating" 2. Adopting proper measures to make environment temperature fall

注：如果发生其他故障无法解决时，请咨询杰牌。

Annotate: If other faults not listed above occur, please contact with us at any moment, we will supply thorough consultation and service.