





INTRODUCTION

THE TAPER LOCK BUSH, ALSO REFERRED TO AS A TAPER BUSH OR TAPER FIT BUSH, IS A LOCKING MECHANISM COMMONLY USED IN POWER TRANSMISSION DRIVES FOR LOCATING PULLEYS, SPROCKETS, AND COUPLINGS TO SHAFTS.

The outside of the bush is tapered to match the component bore that is to be located on the shaft. POWERDRIVE Taperlock bushes are produced from high grade cast iron.

FEATURES

- · Manufactured from high grade cast iron.
- Slow cooling process increases resistance to cracking and breaking.
- Available in Metric & Imperial Bores.
- Splined Taperlock bushes also available.
- All bushes surface ground to ensure tolerance.
- Fixed key in relation to grub screw.
- Series range from 1008 5050.



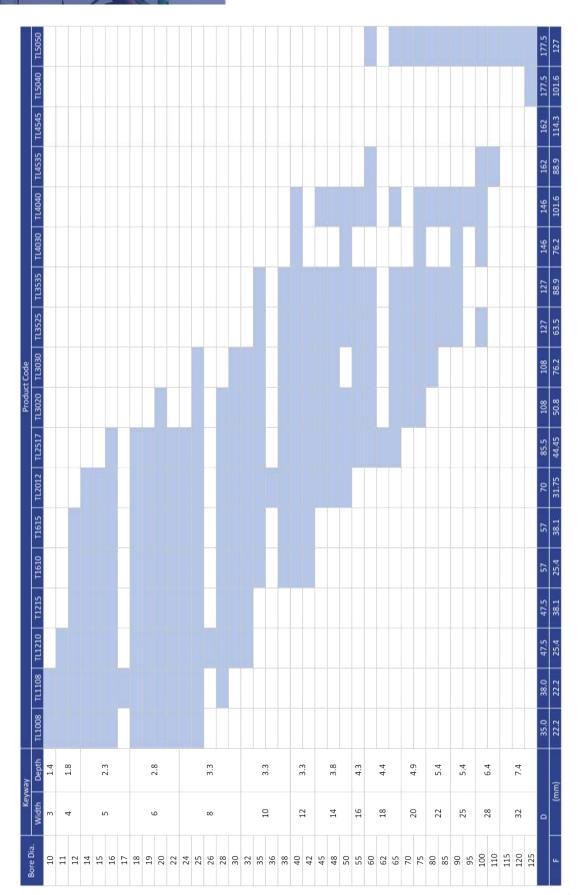


IMPERIAL BORES

	TL5050																				177.5	5"
	TL4545																				162	4 1/2"
	TL4535																				162	3 1/2"
	TL4040																				146	4"
	TL3535																				127	3 1/2"
	TL3525																				127	2 1/2"
	TL3020																				108	2"
Product Code	TL2517																				85.5	13/4"
Pro	TL2012																				70	1 1/4"
	T1615																				57	1 1/2"
	T1610																				57	1"
	T1215																				47.5	1 1/2"
	TL1210																				47.5	1"
	TL1108																				38.0	1/8"
	TL1008																				35.0	1/8"
vay	Depth	90.0	60.0	0.12		0.11	0.11	0.13	0.13		0.18			0.21			0.26	1	0.33	0.32		l (səu
Keyway	Width	0.125	0.187	0.25		0.312	0.375	0.437	0.500		0.625			0.75			0.875		1 000	T:000	O	(inches)
	Bore Dia.	3/8	5/8	3/4 7/8	1	1 1/8	13/8	15/8	17/8	2 1/8	2 1/4	2 3/8	2 5/8	23/4	3	3 1/8	3 3/8	3 1/2	3 3/4	4		ш



METRIC BORES



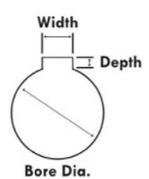


TAPER LOCK BUSH INSTALLATION

INSTRUCTIONS

TO ASSEMBLE

- Clean and de-grease the bore and taper surfaces of the bush and the tapered bore of the pulley insert the bush in the pulley hub and line up the holes (half thread holes must line up with half straight holes).
- Lightly oil the grub screws (bush size 1008 to 3030) or the cap screws (bush size 3535 to 5050) and screw them in, do not tighten yet.
- Clean and de-grease the shaft it pulley with taper bush on shaft and locate in desired position.
- When using the key it should be a top clearance between the key and the keyway in the bore.
- Using a hexagon socket wrench (DIN911) gradually tighten the grub/cap screws in accordance with the torques as listed in the schedule of screw tightening torque.
- When the drive has been operating under load for a short period (half to one hour) check and ensure that the screws remain at the appropriate tightening torque.
- In order to eliminate the ingress of dirt ill all empty holes with grease.



TO REMOVE

- Slacken all screws. Depending on the size of the bush remove one or two. After oiling point and thread of grub screws or under head and thread of cap screws insert them into the jacking off hole(s) in bush.
- Tighten screw(s) uniformly and alternately until the bush is loose in the hub and pulley is free on the shaft.
- Remove the pulley bush assembly from shaft.



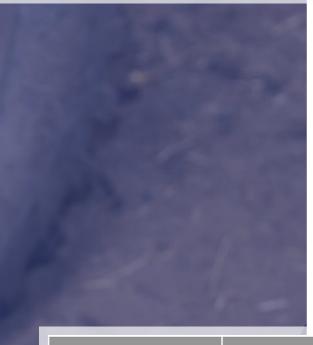
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TORQUE SETTINGS

Bush	Screw tightening	SCREW				
DUSII	Torques (Nm)	Quantity	Size			
1008	5.6	2	1/4" BSW			
1108	3.0	2				
1310	20	2	3/8" BSW			
1315	20	2	3/6 6344			
1210	20	2	3/8" BSW			
1215	20	2	3/8 B3VV			
1610	20	2	3/8" BSW			
1615	20	2				
2012	31	2	7/16" BSW			
2517	48	2	1/2" BSW			
3020	90	2	5/8" BSW			
3030	90	2	3/6 B3W			
3535	90	3	1/2" BSW			
4040	170	3	5/8" BSW			
4545	192	3	3/4" BSW			
5050	271	3	7/8" BSW			







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CODE	Description	Bore
TL1610-1 3/8 SP	Taperlock Bush 1610	1 3/8" 6 spline
TL2012-1 3/8 SP	Taperlock Bush 2012	1 3/8" 6 spline
TL2517-1 3/8 SP	Taperlock Bush 2517	1 3/8" 6 spline









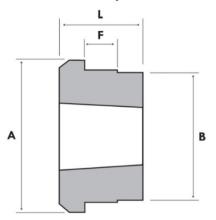
WELD-IN HUBS

INTRODUCTION



MADE FROM HIGH-QUALITY C45 STEEL, WELD IN HUBS ARE USED TO ADAPT PULLEYS, SPROCKETS, PLATE WHEELS, ROTORS, IMPELLERS, AND MANY OTHER DEVICES SO THAT THEY CAN BE FIRMLY ATTACHED TO A SHAFT.

The hubs are taper-bored, tapped and drilled, to receive standard taper-bore bushes.



Hub Reference	Bush Size	A	B+O - 0.05	F	L
WH12	1210	70	65	10	25
WH16	1610	80	75	10	25
WH20	2012	95	90	12	32
WH25	2517	115	110	15	44
WH30	3020	145	140	15	50
WH35	3525	190	180	25	65
WH40	4030	200	190	30	76
WH45	4535	210	200	30	89
WH50	5040	230	220	35	102



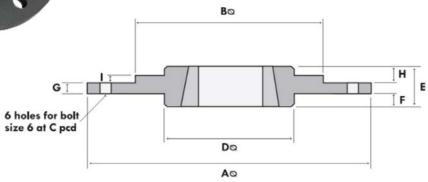


BOLT-IN HUBS

INTRODUCTION

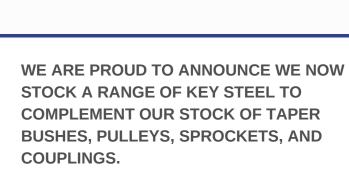


BOLT IN HUBS PERFORM A SIMILAR ROLE AS THE PREVIOUSLY DESCRIBED WELD IN HUBS BUT, AS THE NAME SUGGESTS, THE HUB IS SECURED TO THE DEVICE BEING SECURED TO THE SHAFT BY BOLTS, RATHER THAN BEING WELDED.



		Dimensions											
Hub Reference	Bush Size	A Dia	B dia	C dia	D dia	E nominal	F nominal	G nominal	H nomina I	l nominal	J clearance for		
BF12	1210	120	N/A	100	80°	25	10	5.5	9.5	N/A	M6		
BF16	1610	130	N/A	110	90°	25	10	6.5	8.5	N/A	M6		
BF20	2012	145	N/A	125	100°	32	13	8.5	10.5	N/A	M8		
BF25	2517	185	130°	155	120	44	20	11.5	12.5	2.5	M10		
BF30	3020	220	165°	190	147	50	20	11.3	18.7	2.5	M12		

KEY STEEL



ı	PLACTED BY	
ì	Code	Name
	KSM2214-304	KEY STEEL - Metric - 22mm x 14mm x 304mm
	KSM1208-304	KEY STEEL - Metric - 12mm x 8mm x 304mm
	KSM1212-304	KEY STEEL - Metric - 12mm x 12mm x 304mm
	KSM1409-304	KEY STEEL - Metric - 14mm x 9mm x 304mm
	KSM1610-304	KEY STEEL - Metric - 16mm x 10mm x 304mm
	KSM1811-304	KEY STEEL - Metric - 18mm x 11mm x 304mm
	KSM1818-304	KEY STEEL - Metric - 18mm x 18mm x 304mm
	KSM2012-304	KEY STEEL - Metric - 20mm x 12mm x 304mm
	KSM1010-304	KEY STEEL - Metric - 10mm x 10mm x 304mm
	KSM2514-304	KEY STEEL - Metric - 25mm x 14mm x 304mm
	KSM2816-304	KEY STEEL - Metric - 28mm x 16mm x 304mm
	KSM3218-304	KEY STEEL - Metric - 32mm x 18mm x 304mm
	KSM1409-40-2RE	KEY STEEL - Metric - 14mm x 9mm x 40mm 2RE
	KSI1414-12	KEY STEEL - Imperial - 1/4" x 1/4" x 12 Inch
	KSI51614-12	KEY STEEL - Imperial - 5/16" x 1/4" x 12 Inch
	KSI516516-12	KEY STEEL - Imperial - 5/16" x 5/16" x 12 Inch
	KSI3814-12	KEY STEEL - Imperial - 3/8" x 1/4" x 12 Inch
	KSM0404-304	KEY STEEL - Metric - 4mm x 4mm x 304mm
	KSM1811-35	KEY STEEL - Metric - 18mm x 11mm x 35mm
	KSM0807-304	KEY STEEL - Metric - 8mm x 7mm x 304mm
	KSM0807-20-2RE	KEY STEEL - Metric - 8mm x 7mm x 20mm 2RE
	KSI1212-4	KEY STEEL - Imperial - 1/2" x 1/2" x 4 Inch
	KSM0807-40-2RE	KEY STEEL - Metric - 8mm x 7mm x 40mm 2RE
	KSM1208-32-1RE	KEY STEEL - Metric - 12mm x 8mm x 32mm 1RE
	KSM1409-200	KEY STEEL - Metric - 14mm x 9mm x 200mm
	KSM1409-25-2RE	KEY STEEL - Metric - 14mm x 9mm x 25mm 2RE
	KSM1008-304	KEY STEEL - Metric - 10mm x 8mm x 304mm
	KSM2012-70-RE	KEY STEEL - Metric - $20mm \times 12mm \times 70mm \ 2RE$
	KSM2012-50-2RE	KEY STEEL - Metric - 20mm x 12mm x 50mm 2RE
	KSM4525-200-	KEY STEEL - Metric - 45mm x 25mm x 200mm
	KSI5812-70MM	KEY STEEL - Imperial - 5/8" x 1/2" x 70MM 2RE
	KSI5858-12	KEY STEEL - Imperial - 5/8" x 5/8" x 12 INCH
	KSI58716-60MM	KEY STEEL - Imperial - 5/8" x 7/16" x 60MM
	KSI134-458-2RE	KEY STEEL - Imperial - 1" x 3/4" x 4 & 5/8 Inch

Key steel, used in general engineering applications, and used to hold taper bushes, pulleys, sprockets, and couplings to drive shafts. Made from carbon steel, this bright drawn steel comes in square and flat bars and comes available in both imperial and metric sizes.



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