

Fix gears & pulleys to motors or shafts without expensive machining or damage.

For shaft sizes 4mm to 25mm

Low diameter boring

High gripping torque

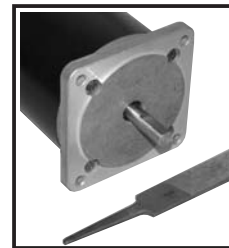
Minimal machining required



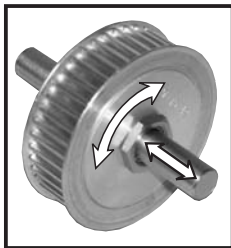
No drilling and tapping for setscrews. No loosening of setscrews due to vibration.



No time consuming and expensive machining of keyways. No backlash caused by keyway tolerance.



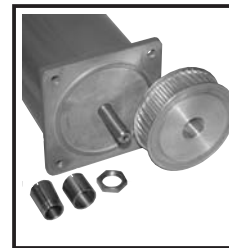
No filing flats on motor shafts, weakening and damaging shaft.



Infinite radial and axial position adjustment for synchronisation.



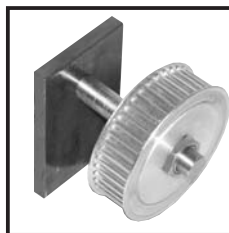
Can be used on very small pulleys, improving the reduction ratio.



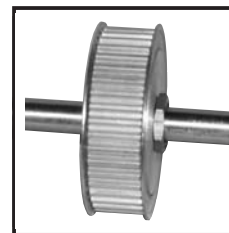
Easily removed and re-used.



No locking agents required.



Easily fitted to existing shafts. No need to dismantle for machining.



Small size allows use of narrow pulleys, saving space.

The BERVINA taper bushes are an ideal solution for fixing pulleys and gears to shafts without extensive machining or damage to the shaft. They consist of an inner tapered collet, outer sleeve and a locking nut. By tightening the nut, the assembly expands and a very high clamping force is produced.

Two ranges are available. The BS range is constructed from stainless steel and will fit into small diameter bores. The BT series are constructed from carbon steel and have higher gripping torque but require larger bore sizes. As a result, they are not suitable for very small pulleys.

INSTALLATION

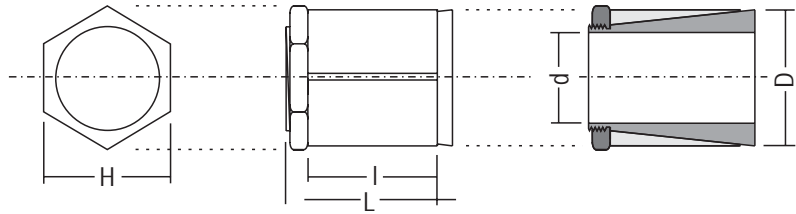
- 1 If shaft has a key in it, remove the key.
- 2 Ensure the shaft is smooth and clean.
- 3 Remove any burrs on the shaft.
- 4 Bore the pulley to the required diameter "D" and depth "I" as specified in this brochure. This must be accurate.
- 5 Assemble the taper bush. Ensure the nut is loose and the taper has not been expanded.
- 6 Insert assembled taper bush into the pulley bore.
- 7 Fit pulley onto shaft, adjust position and tighten nut.
- 8 When disassembling taper bush, loosen nut approx half a turn and tap with soft hammer to loosen taper.



Continuous development may necessitate changes in specifications without notice.

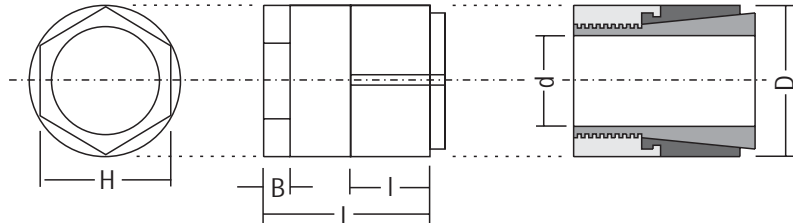
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BS Series (stainless steel)



STYLE	MODEL	d to fit shaft dia. (mm)	D bore dia. (mm)	L total length (mm)	I sleeve length (mm)	H nut AF (mm)	THREAD metric	TORQUE WORKING (Nm)	WEIGHT approx. kg
IMPERIAL	BS-6.35	6.35 (0.25")	10	15	12.5	10	M8 x 0.5	7	0.005
	BS-9.52	9.52 (0.375")	14	22	19	16	M12 x 1	14	0.015
	BS-15.88	15.88 (0.675")	23	28	23	26	M20 x 1	26	0.052
METRIC	BS-4.00	4.00	8	15	12.5	8	M6 x 0.5	3	0.004
	BS-5.00	5.00	10	15	12.5	10	M8 x 0.5	4	0.006
	BS-6.00	6.00	10	15	12.5	10	M8 x 0.5	7	0.005
	BS-7.00	7.00	12	15	12	12	M10 x 0.75	8	0.009
	BS-8.00	8.00	14	22	19	16	M12 x 1	14	0.019
	BS-9.00	9.00	14	22	19	16	M12 x 1	14	0.017
	BS-10.00	10.00	17	22	18.5	18	M15 x 1	18	0.027
	BS-11.00	11.00	17	22	18.5	18	M15 x 1	18	0.024
	BS-12.00	12.00	17	22	18.5	18	M15 x 1	18	0.020
	BS-14.00	14.00	20	28	23	20	M17 x 1	24	0.036
	BS-15.00	15.00	20	28	23	20	M17 x 1	24	0.032
	BS-16.00	16.00	23	28	23	26	M20 x 1	26	0.050
	BS-17.00	17.00	23	28	23	26	M20 x 1	26	0.047
	BS-19.00	19.00	25	28	23	27	M22 x 1	29	0.048
BS-20.00	20.00	28	28	23	30	M25 x 1	31	0.069	

BT Series (carbon steel)



MODEL	d to fit shaft dia. (mm)	D bore dia. (mm)	L total length (mm)	I sleeve length (mm)	H nut AF (mm)	B nut thickness (mm)	TORQUE WORKING (Nm)	WEIGHT kg
BT-6/16.0	6.00	16	19	9.5	13	3	16	0.020
BT-8/19.0	8.00	19	22	11	16	3	23	0.034
BT-9/19.0	9.00	19	22	11	16	3	26	0.040
BT-10/22.5	10.00	22.5	25.5	12.5	19	5	30	0.052
BT-11/22.5	11.00	22.5	25.5	12.5	19	5	34	0.051
BT-12/22.5	12.00	22.5	25.5	12.5	19	5	39	0.047
BT-15/25.5	15.00	25.5	28.5	16	22	5	45	0.064
BT-16/25.5	16.00	25.5	28.5	16	22	5	50	0.058
BT-20/45.0	20.00	45	47.5	21.5	44.5	11	290	
BT-22/45.0	22.00	45	47.5	21.5	44.5	11	315	
BT-24/45.0	24.00	45	47.5	21.5	44.5	11	380	
BT-25/45.0	25.00	45	47.5	21.5	44.5	11	390	

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