

TAPER BUSHES



PRODUCT DESCRIPTION

Welcome to the NPT Taper Bush Technical Catalogue, your comprehensive guide to our range of taper bushes. This catalogue is designed to provide you with detailed technical specifications to help you make informed decisions for your applications.


Taper bushes are essential components in mechanical power transmission, offering easy installation and removal, precise shaft mounting, and reliable performance under various operating conditions. Our taper bushes are manufactured to meet stringent quality standards, ensuring durability and optimal performance across diverse industrial applications. In this catalogue, you will find detailed information on dimensions, materials, tolerances, and other critical specifications for each taper bush we offer. This information is presented clearly and concisely to facilitate the selection process and ensure compatibility with your specific requirements.

We are committed to supporting your engineering needs with products that combine precision, reliability, and ease of use. Thank you for choosing NPT taper bushes for your power transmission solutions. We trust that this catalogue will serve as a valuable resource for your projects and applications.




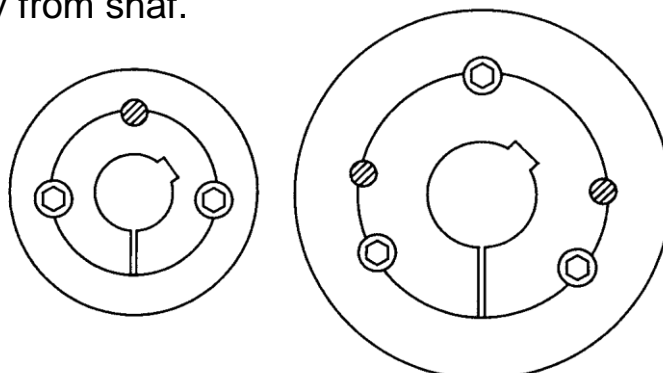
INSTRUCTION - INSTALLATION AND REMOVAL

Installation

1. Remove protective coating from the bore and outside bush, and bore of hub. After ensuring the mating tapered surfaces are completely clean, insert bush in hub so that holes line up.
2. Oil thread and point of grub screw, or thread and under head of cap screw. Place screws loosely in holes threaded in hub, shown thus  in diagram.
3. Clean shaft and fit hub and bush to shaft. Locate in position, remembering bush will nip the shaft first and then hub will be drawn on to the bush.
4. Using a hexagon wrench tighten screws gradually and alternately until all are pulled up very tightly. Use a piece of pipe on wrench to increase leverage.
5. When a key is not used, hammer against large end of bush using a block or sleeve to prevent damage. Screws will now turn a little more. Repeat this alternate hammering and screw tightening once or twice. After drive has run under load for a short time, check tightness of screws.
6. If a key is to be fitted, do so after the bush has been tightened on to the shaft, and then fit a parallel key that is side fitting with top clearance.
7. Fill empty holes with grease to exclude dirt.

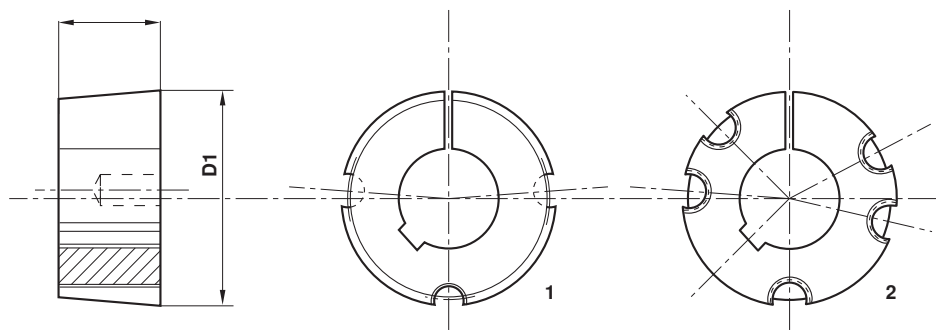
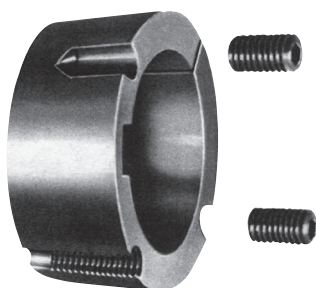
Removal

1. Slacken all screws by several turns, remove one or two according to number of jacking off holes thus  in diagram. Insert screws in jacking off holes are oiling thread and point of grub screws or thread under head of cap screws.
2. Tighten screws alternately until bush is loosened in hub and assembly is free on the shaft.
3. Remove assembly from shaft.





TAPER BUSHES · STANDART METRIC BORE



Cast iron GG25
EN-GJL-250 UNI EN 1561

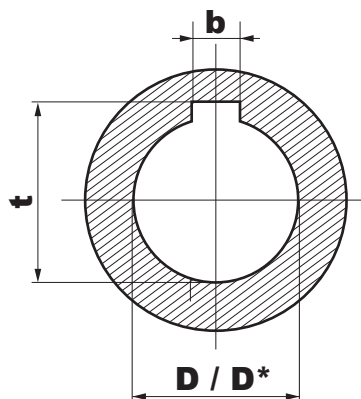
Standard stock bores
metric series

Example: Code symbol Bore
in mm Ø 14 = 1615014

Bush type	Cod.	Bore (ISO E 8)											Transmissible torque	Screws	Screw tightening torque	D1	Type	S	Weight									
		mm																		Nm	B.S.W.	Nm	mm	mm	Kg			
1008	1008...	9	10	11	12	14	15	16	18	19	20	22	24*	25*	136	1/4" x 1/2"	5,6	35,0	1	22,3	0,16							
1108	1108...	9	10	11	12	14	15	16	18	19	20	22	24	25	28*	147	1/4" x 1/2"	5,6	38,0	1	22,3	0,16						
1210	1210...	11	12	14	15	16	18	19	20	22	24	25	28	30	32	407	3/8" x 5/8"	19,6	47,5	1	25,4	0,32						
1215	1215...	14	19	20	24	25	28	407	3/8" x 5/8"	19,6	47,5	1	38,1	0,50														
1610	1610...	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42*	486	3/8" x 5/8"	19,6	57,0	1	25,4	0,41				
1615	1615...	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42*	486	3/8" x 5/8"	19,6	57,0	1	38,1	0,60					
2012	2012...	14	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	808	7/16" x 7/8"	30,4	70,0	1	31,8	0,75		
2517	2517...	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65*	1310	1/2" x 1"	48	85,5	1	44,5	1,06
3020	3020...	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	2710	5/8" x 1 1/4"	90	108,0	1	50,8	2,50				
3030	3030...	35	38	40	42	45	48	50	55	60	65	70	75	2710	5/8" x 1 1/4"	90	108,0	1	76,2	3,75								
3525	3525...	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	5060	1/2" x 1 1/2"	112	127,0	2	64,9	4,20					
3535	3535...	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	5060	1/2" x 1 1/2"	112	127,0	2	88,9	5,13					
4030	4030...	40	42	45	48	50	55	60	65	70	75	80	85	90	8740	5/8" x 1 3/4"	169	146,0	2	76,2	6,75							
4040	4040...	40	42	45	48	50	55	60	65	70	75	80	85	90	95	8740	5/8" x 1 3/4"	169	146,0	2	101,6	7,68						
4535	4535...	65	70	75	80	85	90	95	100	110	120	12400	3/4" x 2"	192	162,0	2	89,0	9,95										
4545	4545...	55	60	65	70	75	80	85	90	95	100	110	12400	3/4" x 2"	192	162,0	2	115,0	10,56									
5040	5040...	70	75	80	85	90	95	100	105	110	115	120	125	14200	7/8" x 2 1/4"	271	177,6	2	101,6	14,20								
5050	5050...	70	75	80	85	90	95	100	105	110	115	120	125	14200	7/8" x 2 1/4"	271	177,6	2	127,0	15,17								

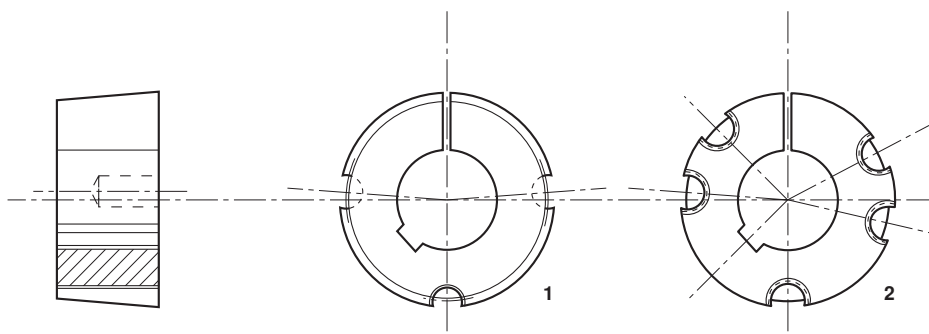
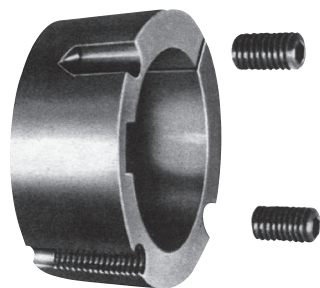
Dimensions of keyways (UNI 6604 DIN 6885) with standard bore metric series

Over	D	b	Js9	t	Dimensions of low profile keyways		
					D*	b	t
»	10 to 12	4	±0,015	D + 1,8	24*	8	D + 1,3
»	12 » 17	5		D + 2,3			
»	17 » 22	6		D + 2,8			
»	22 » 30	8	±0,018	D + 3,3	25*	8	D + 1,3
»	30 » 38	10		D + 3,3			
»	38 » 44	12	±0,021	D + 3,3	28*	8	D + 1,3
»	44 » 50	14		D + 3,8			
»	50 » 58	16		D + 4,3			
»	58 » 65	18	±0,026	D + 4,4	42*	12	D + 1,3
»	65 » 75	20		D + 4,9			
»	75 » 85	22		D + 5,4			
»	85 » 95	25	±0,031	D + 5,4	65*	18	D + 2,8
»	95 » 110	28		D + 6,4			
»	110 » 130	32		D + 7,4			





TAPER BUSHES · STANDART INCH BORE



**Cast iron GG25
EN-GJL-250 UNI EN 1561**

**Standard stock bores
series in inches**

Bush type	Cod.	Bore in inches (ISO E 8)
1008	1008...	3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"*
1108	1108...	3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1" - 1"1/8*
1210	1210...	1/2" - 5/8" - 3/4" - 7/8" - 1" - 1"1/8 - 1"1/4
1215	1215...	1/2" - 5/8" - 3/4" - 7/8" - 1" - 1"1/8 - 1"1/4
1610	1610...	1/2" - 5/8" - 3/4" - 7/8" - 1" - 1"1/8 - 1"1/4 - 1"3/8 - 1"1/2 - 1"5/8
1615	1615...	1/2" - 5/8" - 3/4" - 7/8" - 1" - 1"1/8 - 1"1/4 - 1"3/8 - 1"1/2 - 1"5/8*
2012	2012...	3/4" - 7/8" - 1" - 1"1/8 - 1"1/4 - 1"3/8 - 1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2"
2517	2517...	3/4" - 7/8" - 1" - 1"1/8 - 1"1/4 - 1"3/8 - 1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2
3020	3020...	1"1/4 - 1"3/8 - 1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3"
3030	3030...	1"1/4 - 1"3/8 - 1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3"
3525	3525...	1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2
3535	3535...	1"1/2 - 1"5/8 - 1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2
4030	4030...	1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4"
4040	4040...	1"3/4 - 1"7/8 - 2" - 2"1/8 - 2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4"
4535	4535...	2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4" - 4"1/4 - 4"1/2
4545	4545...	2"1/4 - 2"3/8 - 2"1/2 - 2"5/8 - 2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4" - 4"1/4 - 4"1/2
5040	5040...	2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4" - 4"1/4 - 4"1/2 - 4"3/4 - 5"
5050	5050...	2"3/4 - 2"7/8 - 3" - 3"1/8 - 3"1/4 - 3"3/8 - 3"1/2 - 3"3/4 - 4" - 4"1/4 - 4"1/2 - 4"3/4 - 5"

**Dimensions of keyways (B.S. 46: part. 1: 1958)
with standard bores in inches**

D		b	t		Dimensions of low profile keyways		
OVER	TO				D*	b	t
1/4"	1/2"	1/8"	D + 1/16"		1"*	1/4"	D + 1/16"
1/2"	3/4"	3/16"	D + 3/32"				
3/4"	1"	1/4"	D + 1/8"				
1"	1"1/4	5/16"	D + 1/8"		1"1/8 *	5/16"	D + 5/64"
1"1/4	1"1/2	3/8"	D + 1/8"				
1"1/2	1"3/4	7/16"	D + 5/32"				
1"3/4	2"	1/2"	D + 5/32"		1"5/8 *	7/16"	D + 1/8"
2"	2"1/2	5/8"	D + 7/32"				
2"1/2	3"	3/4"	D + 1/4"				
3"	3"1/2	7/8"	D + 5/16"				
3"1/2	4"	1"	D + 3/8"				
4"	5"	1"1/4	D + 7/16"				
5"	6"	1"1/2	D + 1/2"				
6"	7"	1"3/4	D + 5/8"				