

TMDB OILES Toughmet D Bushings

Selection Guide

Product Information

Plastic Bearing

Multi-layer Bearing

Metallic Bearing

Air Bearings

Slide Shifter

Technical Information

Corporate Profile

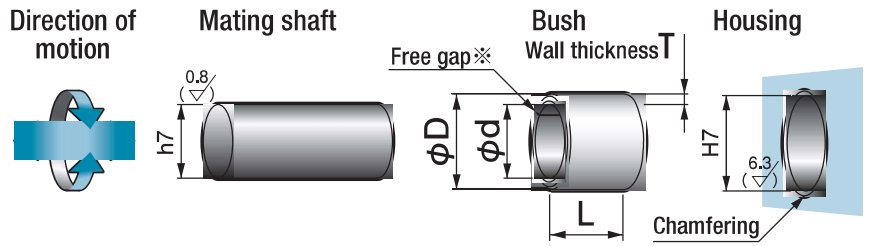


Choose Part No. by required inner diameter and length.

(e.g.) For the inner diameter of **TMDB - 3020**

30mm with 20mm length, choose

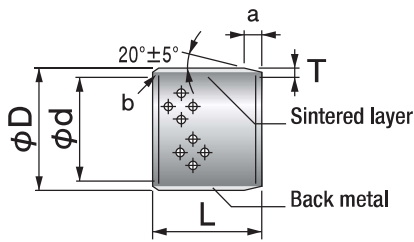
Parts No.



※Although free gap does not affect bearing rotation, please avoid maximum load point for free gap.

Mating Shaft		Mating Hole		I.D.		O.D.		Thickness		Length L Tolerance $_{-0.3}^0$					
Size	$\frac{h7}{\text{Tolerance}}$	Size	$\frac{H7}{\text{Tolerance}}$	ϕd	ϕD	Tolerance	T	Tolerance	10	15	20	25	30	40	
12	$\frac{0}{-0.018}$	14	$\frac{+0.018}{0}$	12	14	$\frac{+0.070}{+0.035}$	1.0	$\frac{-0.015}{-0.040}$	1210	1215	1220				
14	$\frac{0}{-0.018}$	16	$\frac{+0.018}{0}$	14	16	$\frac{+0.070}{+0.035}$	1.0	$\frac{-0.015}{-0.040}$	1410	1415	1420				
15	$\frac{0}{-0.018}$	17	$\frac{+0.018}{0}$	15	17	$\frac{+0.070}{+0.035}$	1.0	$\frac{-0.015}{-0.040}$	1510	1515	1520	1525			
16	$\frac{0}{-0.018}$	18	$\frac{+0.018}{0}$	16	18	$\frac{+0.070}{+0.035}$	1.0	$\frac{-0.015}{-0.040}$		1615	1620	1625			
18	$\frac{0}{-0.018}$	20	$\frac{+0.021}{0}$	18	20	$\frac{+0.085}{+0.045}$	1.0	$\frac{-0.015}{-0.045}$		1815	1820	1825			
20	$\frac{0}{-0.021}$	23	$\frac{+0.021}{0}$	20	23	$\frac{+0.085}{+0.045}$	1.5	$\frac{-0.024}{-0.054}$		2015	2020	2025	2030		
22	$\frac{0}{-0.021}$	25	$\frac{+0.021}{0}$	22	25	$\frac{+0.085}{+0.045}$	1.5	$\frac{-0.024}{-0.054}$		2215	2220	2225	2230		
24	$\frac{0}{-0.021}$	27	$\frac{+0.021}{0}$	24	27	$\frac{+0.085}{+0.045}$	1.5	$\frac{-0.024}{-0.054}$		2415	2420	2425	2430		
25	$\frac{0}{-0.021}$	28	$\frac{+0.021}{0}$	25	28	$\frac{+0.085}{+0.045}$	1.5	$\frac{-0.024}{-0.054}$		2515	2520	2525	2530		
26	$\frac{0}{-0.021}$	30	$\frac{+0.021}{0}$	26	30	$\frac{+0.085}{+0.045}$	2.0	$\frac{-0.024}{-0.054}$			2620		2630	2640	
28	$\frac{0}{-0.021}$	32	$\frac{+0.025}{0}$	28	32	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.024}{-0.054}$			2820		2830	2840	
30	$\frac{0}{-0.021}$	34	$\frac{+0.025}{0}$	30	34	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.024}{-0.054}$			3020		3030	3040	
31	$\frac{0}{-0.025}$	35	$\frac{+0.025}{0}$	31	35	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.037}{-0.072}$			3120		3130	3140	
32	$\frac{0}{-0.025}$	36	$\frac{+0.025}{0}$	32	36	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.037}{-0.072}$			3220		3230	3240	
35	$\frac{0}{-0.025}$	39	$\frac{+0.025}{0}$	35	39	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.037}{-0.072}$			3520		3530	3540	
38	$\frac{0}{-0.025}$	42	$\frac{+0.025}{0}$	38	42	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.037}{-0.072}$					3830	3840	
40	$\frac{0}{-0.025}$	44	$\frac{+0.025}{0}$	40	44	$\frac{+0.105}{+0.055}$	2.0	$\frac{-0.037}{-0.072}$					4030	4040	
42	$\frac{0}{-0.025}$	47	$\frac{+0.025}{0}$	42	47	$\frac{+0.105}{+0.055}$	2.5	$\frac{-0.037}{-0.072}$					4230	4240	
45	$\frac{0}{-0.025}$	50	$\frac{+0.025}{0}$	45	50	$\frac{+0.105}{+0.055}$	2.5	$\frac{-0.037}{-0.072}$					4530	4540	
50	$\frac{0}{-0.025}$	55	$\frac{+0.030}{0}$	50	55	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.037}{-0.072}$					5030	5040	
55	$\frac{0}{-0.030}$	60	$\frac{+0.030}{0}$	55	60	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.053}{-0.098}$						5540	
60	$\frac{0}{-0.030}$	65	$\frac{+0.030}{0}$	60	65	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.053}{-0.098}$						6040	
65	$\frac{0}{-0.030}$	70	$\frac{+0.030}{0}$	65	70	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.053}{-0.098}$						6540	
70	$\frac{0}{-0.030}$	75	$\frac{+0.030}{0}$	70	75	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.053}{-0.098}$						7040	
75	$\frac{0}{-0.030}$	80	$\frac{+0.030}{0}$	75	80	$\frac{+0.120}{+0.060}$	2.5	$\frac{-0.053}{-0.098}$						7540	

※Outer diameter is measured by exclusive gauge.



a: Chamfering on outer diameter

T	1.0	1.5	2.0	2.5	
a	0.5	0.8	1.0	1.0	(mm)

b: Chamfering on inner diameter

T	1.0	1.5	2.0	2.5	
b	0.3	0.5	0.5	0.5	(mm)

Length L				I.D. Tolerance after press fitting (Reference Value)	I.D. φd
50	60	70	80		
				+0.098 +0.030	12
				+0.098 +0.030	14
				+0.098 +0.030	15
				+0.098 +0.030	16
				+0.111 +0.030	18
				+0.129 +0.048	20
				+0.129 +0.048	22
				+0.129 +0.048	24
				+0.129 +0.048	25
				+0.129 +0.048	26
				+0.133 +0.048	28
				+0.133 +0.048	30
				+0.169 +0.074	31
				+0.169 +0.074	32
3550				+0.169 +0.074	35
3850				+0.169 +0.074	38
4050				+0.169 +0.074	40
4250				+0.169 +0.074	42
4550				+0.169 +0.074	45
5050	5060			+0.174 +0.074	50
5550	5560			+0.226 +0.106	55
6050	6060			+0.226 +0.106	60
	6560		6580	+0.226 +0.106	65
	7060		7080	+0.226 +0.106	70
	7560		7580	+0.226 +0.106	75