DAIBEST DBB01

Pb Free RoHS ELV

These are oil-impregnated bearings of our own proprietary lubrication characteristics, in which lipophilic fibers and special filler material are uniformly dispersed within polyacetal plastic resin, a plastic bearing material offering excellent bearing characteristics.
Bimetal type with back metal – DBB01

Features

1.Can be used without an oil supply
2.Can be used at high-load and at high speed
3.Dimensions and shape are stabilized. Thin wall permits compact equipment design.
4.Exhibits superior wear resistant properties where oil film formation is difficult such as reciprocating motion, oscillating motion or frequent start/stop
5.Abundant standard parts such as wrapped bushes and thrust washers are available.
6.There is interchangeability with DDK05 and DBX01 bearing.

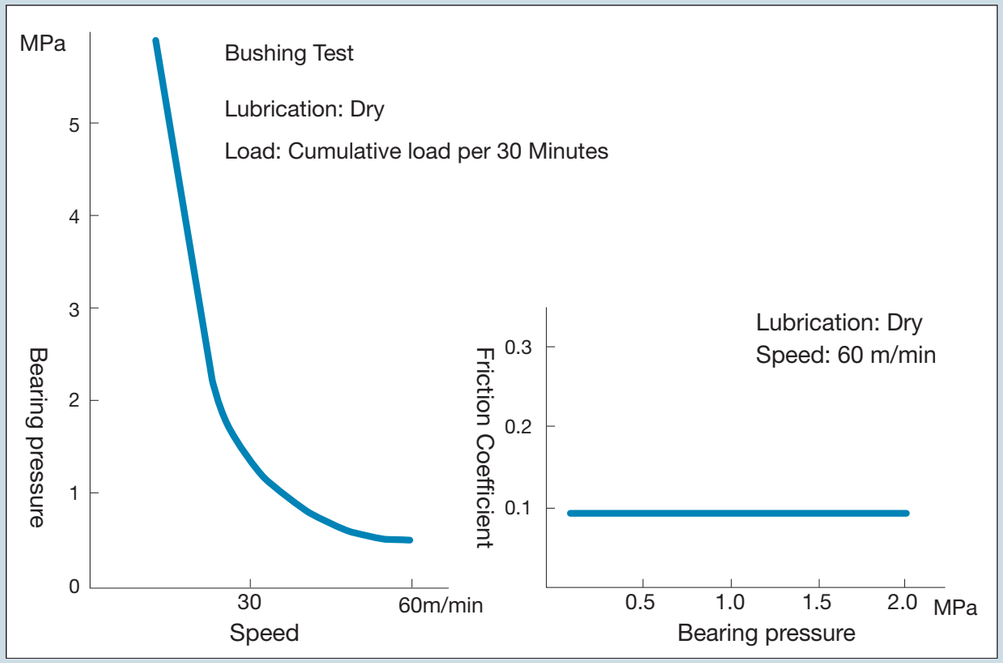
Material Characteristics DAIBEST(Typical Values)

Property of DAIBEST Bearing Resin Layer

Gravity	Coefficient of Linear Thermal Expansion($\times10^{-5}$/°C)	Heat Transfer Coefficient (Cal/sec・°C/cm)	Tensile Strength (MPa)	Elongation (%)	Oil Content (%)
1.4	8.4	5.5×10^{-4}	Above 42	Above 10	Above 4

Bearing Characteristics and Test Data

DBB01



Lubrication	No Oil supply
Allowable Max. Load MPa	68.6
Allowable Max. Speed m/min	150
Allowable Max. PV value MPa-m/min	157
Limit Service Temperature °C	-40 – +120

When the bearing is used under lubrication the bearing properties will increase depending on the condition.

DBB DBB01 Bushing (Bushing Inner Diameter: 5 to 100 mm)

Designation of Part Number

DBB ○○ ○○
- ○○ Bushing Length
- ○○ Bushing Nominal I.D.
- DBB Product Symbol

DBB 0504

Please specify by part number.

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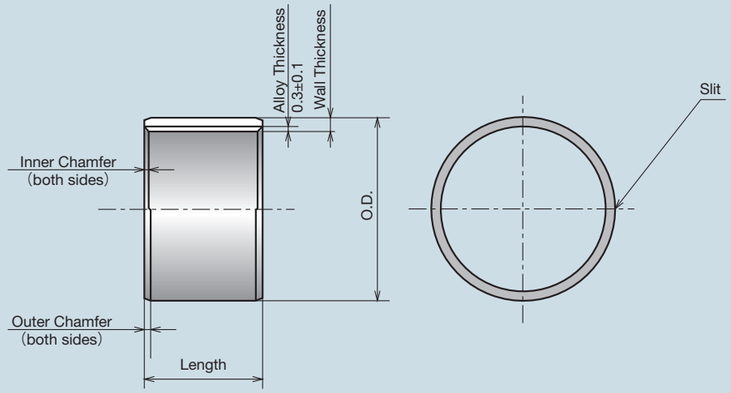

(Unit: mm)

Bushing I.D.	Recommended Dimension Mating Part		Bushing Dimensions																Bushing I.D.
	Housing I.D.	Shaft Dia.	O.D.	Wall Thickness	Part Number & Bushing Length Tolerance $^{0}_{-0.3}$														
					4	5	6	7	8		10	12	15	20	25	30	40		
5	φ7H7 $^{+0.015}_{0}$	φ5h7 $^{0}_{-0.012}$	φ7 $^{+0.053}_{+0.023}$	1.0 $^{-0.020}_{-0.060}$	0504	0505	0506		0508										5
6	φ8H7 $^{+0.015}_{0}$	φ6h7 $^{0}_{-0.012}$	φ8 $^{+0.053}_{+0.023}$	1.0 $^{-0.020}_{-0.060}$		0605	0606	0607	0608		0610								6
7	φ9H7 $^{+0.015}_{0}$	φ7h7 $^{0}_{-0.015}$	φ9 $^{+0.053}_{+0.023}$	1.0 $^{-0.020}_{-0.060}$		0705		0707			0710	0712							7
8	φ10H7 $^{+0.015}_{0}$	φ8h7 $^{0}_{-0.015}$	φ10 $^{+0.055}_{+0.025}$	1.0 $^{-0.020}_{-0.060}$			0806		0808		0810	0812							8
10	φ12H7 $^{+0.018}_{0}$	φ10h7 $^{0}_{-0.015}$	φ12 $^{+0.053}_{+0.023}$	1.0 $^{-0.020}_{-0.060}$			1006	1007	1008		1010	1012	1015	1020					10
12	φ14H7 $^{+0.018}_{0}$	φ12h7 $^{0}_{-0.018}$	φ14 $^{+0.060}_{+0.030}$	1.0 $^{-0.020}_{-0.060}$			1206		1208		1210	1212	1215	1220					12
14	φ16H7 $^{+0.018}_{0}$	φ14h7 $^{0}_{-0.018}$	φ16 $^{+0.063}_{+0.033}$	1.0 $^{-0.020}_{-0.060}$							1410	1412	1415	1420					14
15	φ17H7 $^{+0.018}_{0}$	φ15h7 $^{0}_{-0.018}$	φ17 $^{+0.073}_{+0.038}$	1.0 $^{-0.020}_{-0.060}$							1510	1512	1515	1520	1525				15
16	φ18H7 $^{+0.018}_{0}$	φ16h7 $^{0}_{-0.018}$	φ18 $^{+0.073}_{+0.038}$	1.0 $^{-0.020}_{-0.060}$							1610	1612	1615	1620	1625				16
18	φ20H7 $^{+0.021}_{0}$	φ18h7 $^{0}_{-0.018}$	φ20 $^{+0.081}_{+0.046}$	1.0 $^{-0.020}_{-0.060}$							1810	1812	1815	1820	1825				18
20	φ23H7 $^{+0.021}_{0}$	φ20h7 $^{0}_{-0.021}$	φ23 $^{+0.081}_{+0.046}$	1.5 $^{-0.025}_{-0.065}$							2010	2012	2015	2020	2025	2030			20
22	φ25H7 $^{+0.021}_{0}$	φ22h7 $^{0}_{-0.021}$	φ25 $^{+0.086}_{+0.051}$	1.5 $^{-0.025}_{-0.065}$							2210	2212	2215	2220	2225				22
24	φ27H7 $^{+0.021}_{0}$	φ24h7 $^{0}_{-0.021}$	φ27 $^{+0.086}_{+0.051}$	1.5 $^{-0.025}_{-0.065}$									2415	2420	2425	2430			24
25	φ28H7 $^{+0.021}_{0}$	φ25h7 $^{0}_{-0.021}$	φ28 $^{+0.093}_{+0.056}$	1.5 $^{-0.025}_{-0.065}$							2510	2512	2515	2520	2525	2530			25
26	φ30H7 $^{+0.021}_{0}$	φ26h7 $^{0}_{-0.021}$	φ30 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$									2615	2620		2630			26
28	φ32H7 $^{+0.025}_{0}$	φ28h7 $^{0}_{-0.021}$	φ32 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$								2812	2815	2820		2830			28
30	φ34H7 $^{+0.025}_{0}$	φ30h7 $^{0}_{-0.021}$	φ34 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$								3012	3015	3020	3025	3030	3040		30
32	φ36H7 $^{+0.025}_{0}$	φ32h7 $^{0}_{-0.025}$	φ36 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$										3220	3225	3230	3240		32
					12	15	20	25	30		40	50	60	70	80	90	95		
35	φ39H7 $^{+0.025}_{0}$	φ35h7 $^{0}_{-0.025}$	φ39 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$	3512		3520	3525	3530		3540	3550							35
38	φ42H7 $^{+0.025}_{0}$	φ38h7 $^{0}_{-0.025}$	φ42 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$			3820				3840								38
40	φ44H7 $^{+0.025}_{0}$	φ40h7 $^{0}_{-0.025}$	φ44 $^{+0.115}_{+0.075}$	2.0 $^{-0.030}_{-0.080}$	4012		4020	4025	4030		4040	4050							40
45	φ50H7 $^{+0.025}_{0}$	φ45h7 $^{0}_{-0.025}$	φ50 $^{+0.115}_{+0.075}$	2.5 $^{-0.040}_{-0.095}$			4520	4525	4530		4540	4550							45
50	φ55H7 $^{+0.030}_{0}$	φ50h7 $^{0}_{-0.025}$	φ55 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$			5020		5030		5040		5060						50
55	φ60H7 $^{+0.030}_{0}$	φ55h7 $^{0}_{-0.030}$	φ60 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$					5530		5540		5560						55
60	φ65H7 $^{+0.030}_{0}$	φ60h7 $^{0}_{-0.030}$	φ65 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$					6030		6040		6060						60
65	φ70H7 $^{+0.030}_{0}$	φ65h7 $^{0}_{-0.030}$	φ70 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$					6530		6540		6560						65
70	φ75H7 $^{+0.030}_{0}$	φ70h7 $^{0}_{-0.030}$	φ75 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$							7040		7060		7080				70
75	φ80H7 $^{+0.030}_{0}$	φ75h7 $^{0}_{-0.030}$	φ80 $^{+0.145}_{+0.095}$	2.5 $^{-0.040}_{-0.095}$					7530		7540		7560		7580				75
80	φ85H7 $^{+0.035}_{0}$	φ80h7 $^{0}_{-0.030}$	φ85 $^{+0.165}_{+0.100}$	2.5 $^{-0.040}_{-0.095}$							8040		8060		8080				80
85	φ90H7 $^{+0.035}_{0}$	φ85h7 $^{0}_{-0.035}$	φ90 $^{+0.165}_{+0.100}$	2.5 $^{-0.040}_{-0.095}$							8540		8560		8580				85
90	φ95H7 $^{+0.035}_{0}$	φ90h7 $^{0}_{-0.035}$	φ95 $^{+0.165}_{+0.100}$	2.5 $^{-0.040}_{-0.095}$							9040		9060			9090			90
100	φ105H7 $^{+0.035}_{0}$	φ100h7 $^{0}_{-0.035}$	φ105 $^{+0.180}_{+0.115}$	2.5 $^{-0.040}_{-0.095}$								10050		10070			10095		100

* Some size requires special coating to avoid lube evaporate.
* Material thickness in the list does not include special coating thickness.

DBB DBB01 Thrust Washer

Designation of Part Number

DBB ○○ W
- W — Thrust Washer
- ○○ — Nominal I.D.
- DBB — Product Symbol

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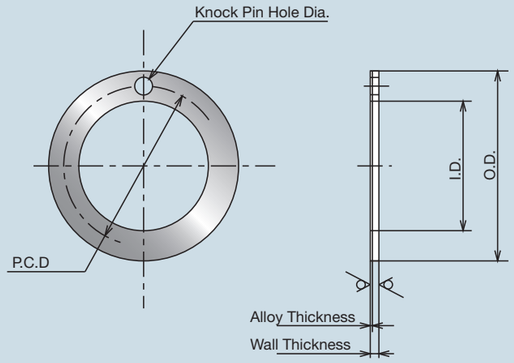
DBB 10W

Please specify by part number.

(Unit: mm)

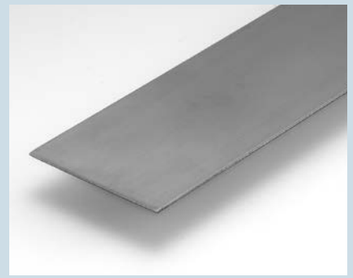
Nominal I.D.	Part Number	I.D.	O.D.	Thickness	Knock Pin Hole Dia.	Knock Pin Hole P. C. D	Recess Depth
10	**DBB10W**	12 +0.25 0	24 0 -0.25	1.5 -0.05 -0.20	1.6 +0.45 +0.20	18 ±0.12	1.1 0 -0.25
12	**DBB12W**	14 +0.25 0	26 0 -0.25			20 ±0.12	
14	**DBB14W**	16 +0.25 0	30 0 -0.25		2.0 +0.45 +0.20	23 ±0.12	
16	**DBB16W**	18 +0.25 0	32 0 -0.25			25 ±0.12	
18	**DBB18W**	20 +0.25 0	36 0 -0.25			28 ±0.12	
20	**DBB20W**	23 +0.25 0	38 0 -0.25		3.0 +0.45 +0.20	31 ±0.12	
22	**DBB22W**	25 +0.25 0	42 0 -0.25			34 ±0.12	
24	**DBB24W**	27 +0.25 0	44 0 -0.25			36 ±0.12	
25	**DBB25W**	28 +0.25 0	48 0 -0.25			38 ±0.12	
30	**DBB30W**	34 +0.25 0	54 0 -0.25		4.0 +0.45 +0.20	44 ±0.12	
35	**DBB35W**	39 +0.25 0	62 0 -0.25			51 ±0.12	
40	**DBB40W**	44 +0.25 0	66 0 -0.25			55 ±0.12	
45	**DBB45W**	50 +0.25 0	74 0 -0.25	2.5 -0.05 -0.20		62 ±0.12	1.6 0 -0.25
50	**DBB50W**	55 +0.25 0	78 0 -0.25			67 ±0.12	



DBB DBB01 Slide Plate

Designation of Part Number

SS ○○○ DBB
- DBB — Product Symbol
- ○○○ — Thickness Indication Symbol
- SS — Slide Plate



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SS150 DBB

Please specify by part number.

(Unit: mm)

Part Number	Thickness	Width	Length
SS150DBB	1.5 -0.05 -0.20	80 +2.0 0	500 +10.0 0
SS200DBB	2.0 -0.05 -0.20	100 +2.0 0	
SS250DBB	2.5 -0.05 -0.20	100 +2.0 0