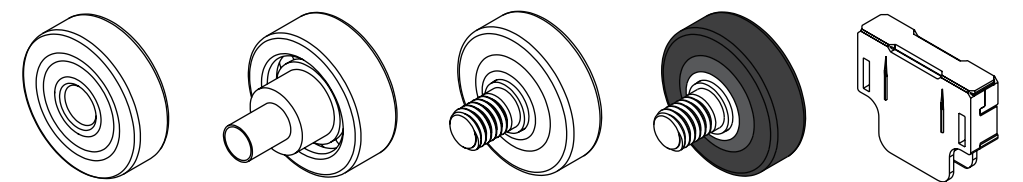


T O K



BEARINGS

PRODUCT CATALOG | ENGLISH VERSION

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			DV	31 - 34
			DH	35 - 38
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	Water resistant • Non-magnetism Heat resistant • Chemical resistance		PE	51 - 52
			PK	53 - 54
Metal bearing insert	I	IN	55 - 56	
		ID	57 - 58	
		IDS	59 - 60	
Metal bearing	High load	A		61 - 64
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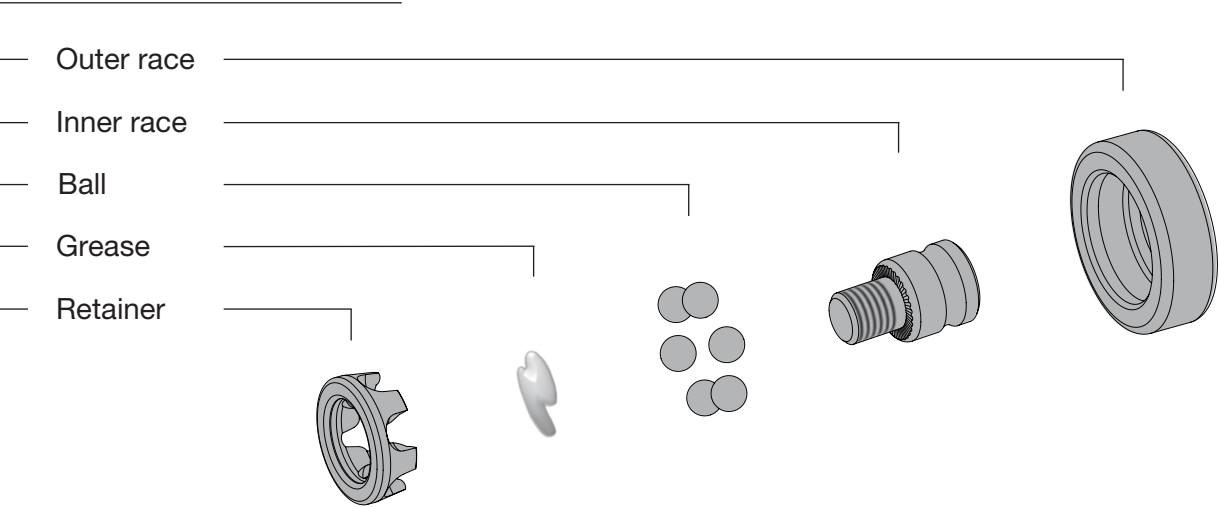
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- Questions about bearing specifications, customized products and mounting
- Questions about the design of the unit with bearing and assembly

Contact us P77

Basic structure and combination of plastic bearing

Components of bearing



Outer race and inner race types and designations

Outer race	Flat R type	Convex round O type	U-groove U type	V-groove V type	Concave groove H type	One-sided flange F type
Inner race	Inner ring H type		Riveting shaft A type (AH type)		Screw shaft B type (BH type)	

Combination examples of outer race and inner race

Outer race	Flat R type	Flat R type	Flat R type
	Inner ring H type	Riveting shaft A type	Screw shaft B type
Combination examples			

Outer race types and examples of use

TOK bearings are available with 6 different outer race shapes.
Flat type bearings are typically the most popular, but a variety of bearing are available, including convex round and U-groove type.
Please select the most suitable bearing for conditions of use and shape of running paths.

Flat	—————	Ideal for use on flat running paths including flat rails or concave groove rail.
Convex round	—————	Ideal for use with O-rings to reduce running noise, or on D-shaped rails.
U-groove	—————	Ideal for use with O-ring or use on D-shaped rails.
V-groove	—————	Ideal for use when running a wire along the bearing groove or using on V-guide rails.
Concave groove	—————	Ideal for use with square ring to reduce running noise, or on D-shaped rails.
One-sided flange	—————	Ideal for insertion into both ends of a pipe, or for use as an axial guide.

Examples of use by outer race type

Flat R type	Convex round O type	U-groove U type	V-groove V type	Concave groove H type	One-sided flange F type
Flat rail	V-guide rail	O-ring	Wire	Square ring	Pipe roller
Concave groove rail	Narrow rail	D-shaped rail	V-guide rail	Flat top guide rail	Guide role

Components of product name

D R S - 2 2 - S H S 6 - G N
(1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) Outer race material symbol	(2) Outer race shape symbol	(3) Retainer or full ball (Without retainer) type
(4) Outer race diameter	(5) Ball material symbol	(6) Inner race shape symbol
(7) Inner race material symbol	(8) Bore and clearance dimension for mounting	(9) Additional information

(1) Outer race material symbol or insert molding type				
A: Steel	C: Ceramic	D: Polyacetal resin	E: Conductive resin	PE: Polyethylene
PK: PEEK	S: Stainless steel	UT: Polyurethane resin	DT: Precision bearing insert (Polyacetal resin)	
ID: Plastic coated bearing (Polyacetal resin)	IN: Plastic coated bearing (Polyamide resin)			

(2) Outer race shape symbol		
F: One-sided flange	H: Concave groove	O: Convex round
R: Flat	U: U-groove	V: V-groove
		L: Roller

(4) Outer race diameter
Basically, it indicates the outer diameter size that bears the load. In the case of V-grooves and U-grooves, it is generally difficult to measure the groove section, so the maximum outer diameter is indicated.

(6) Inner race shape symbol	
A: Riveting shaft	AH: Inner ring with riveting shaft
B: Screw shaft	BH: Inner ring with screw shaft
H: Inner ring	

(8) Bore and clearance dimension for mounting
Inner ring type: Specifies bore and inner race protrusion width from the outer race.
Riveting shaft and screw type: Specifies clearance between bearing and mounting surface.

(3) Retainer or full ball (Without retainer) type	
Omitted: Retainer	S: Full ball (Without retainer)

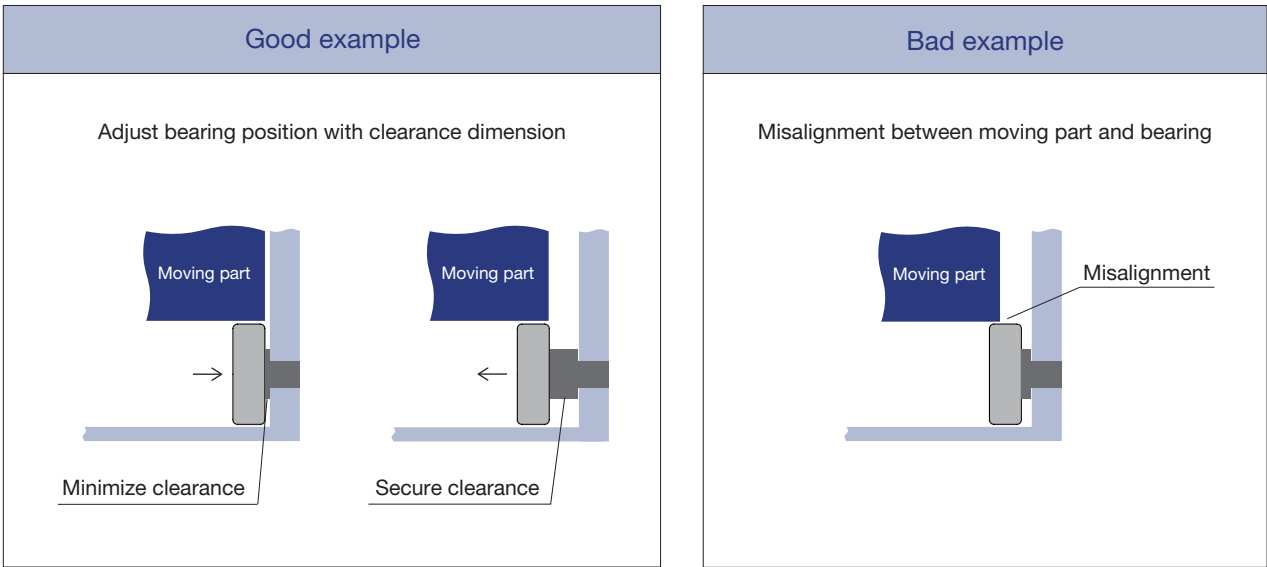
(5) Ball material symbol	
Omitted: Carbon steel ball	C: Ceramic ball
P: Plastic ball	S: Stainless steel ball

(7) Inner race material symbol	
Omitted: Carbon steel	C: Ceramic
P: Plastic	S: Stainless steel

(9) Additional information
Additional information is indicated when necessary.
e.g.) CB: Outer race color tone black GN: No grease
JH: Hex socket type, etc.

Importance of clearance and mounting position

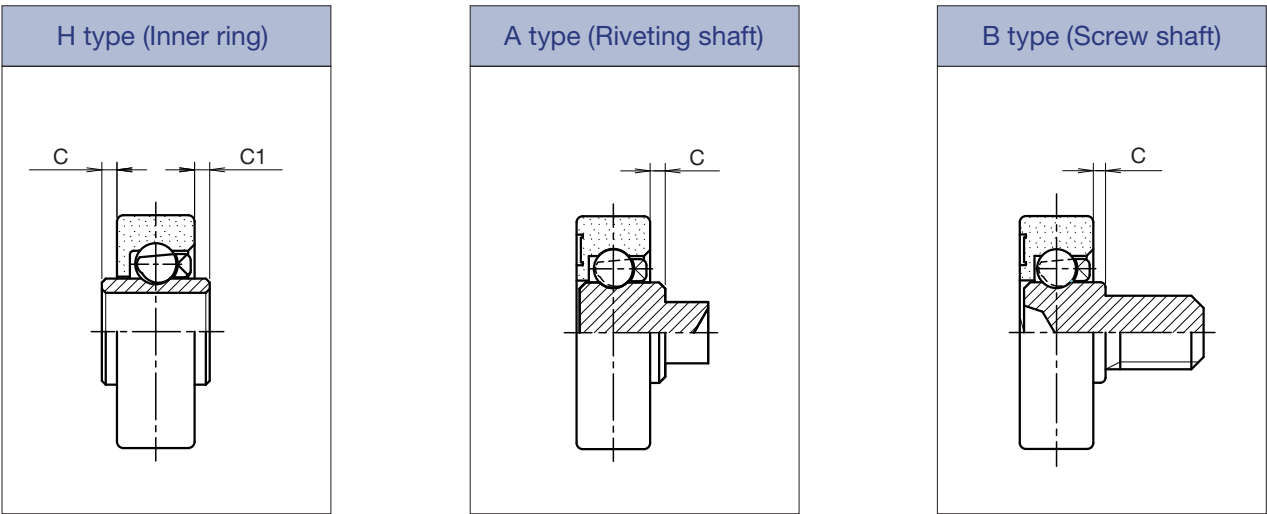
To ensure stable movement of moving part, it is important to mount bearings in proper position.



TOK offers range of bearings with different clearance, allowing you to select the most ideal option for optimal positioning.

Clearance dimensions in model drawings

Clearance dimensions are shown as C dimension in model drawing and dimension table.



Overview 3

How to mount bearings and precautions

H type (Inner ring)

When mounting bearing on shaft

To prevent bearings from sliding axially, and in addition to securing them with a shaft groove, the following methods are available:

Step 1 — After determining bearing mounting position, groove for retaining ring is machined on shaft.

Step 2 — Using dedicated tool, E-ring or C-ring is installed on one side only.

Step 3 — After inserting bearing, install retaining ring on opposite side in same manner to complete assembly.

Step 1	Step 2	Step 3

A type (Riveting shaft)

When mounting bearing on steel plate

Step 1 — Prepare a support jig so that the riveting pressure is applied only to the inner race.

To prevent cracking or poor rotation of the outer race, provide a step (Play) on the support jig.

Step 2 — Riveting shaft using with riveting machine or press machine. There is no need to rivet so tightly that the steel plate deforms.

Please be careful not to crush the shaft too much.

Step 3 — Once the edge of the shaft is crushed and securely fastened to the steel plate without rattling, installation is complete.

Step 1	Step 2	Step 3

About riveting

As a precaution when riveting bearings on a steel plate, we recommend that the edge face of the inner race be used as a bearing to prevent the impact of riveting from being applied to the outer race.

This is because a shock to the outer race may cause ball indentation inside the bearing and affect its rotational performance. (See Figure 1)

In addition, in case of riveting, the applied shaft may crack after the riveting process, so we would recommend *spin riveting.

*Spin riveting: it forms the rivet by pressing and rotating the shaft at an offset angle.

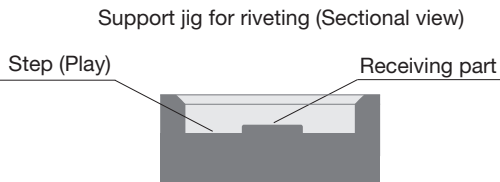


Figure 1

B type (Screw shaft)

When mounting bearing on threaded hole

Step 1 — Check if threaded hole on mounting side is chamfered.

Note: Without chamfering, screws may not be tightened to full length due to incomplete threads.

Step 2 — Check cross recess or hex socket specifications shown in model drawing, and install screw using appropriate bit.

Step 3 — Tighten screw to end to complete installation.

Step 1	Step 2	Step 3

Tightening torque

Although we do not specify recommended tightening torque for screw fastening, we provide the following reference values as installation guidelines.

Tightening torque 5.2 N·m

Please note that fastening conditions may vary depending on the material, shape, and operating environment of the mating parts.

Therefore, we recommend that you check with your application and make an appropriate judgment before use.

* The tightening torque values shown are for reference only and are not guaranteed values.

* Excessive tightening may cause damage to parts. Please handle with care.

Countermeasures against loosening of fastened parts

If loosening occurs even with the specified tightening torque, we recommend the following

Addition of a standard spring washer

* Effective for maintaining fastening force and preventing loosening due to vibration.

Application of a thread-locking adhesive ("Scotch-Grip") on the bearing shaft

* Available as a custom order. Please contact us for details.

Please consider the most suitable countermeasure according to your operating conditions.

Screw specifications and ISO (JIS) standards

Screw shaft specification of bearing conforms to the following JIS standards.

Thread dimensions

ISO 724 (JIS B 0205) general purpose metric screw threads

Length of incomplete threads

ISO 3508 (JIS B 1006) Fastening parts - Incomplete thread length of male thread parts with general purpose metric screw threads

*The clearance groove is a customized specification.

Cross recess
ISO 4757 (JIS B 1012) Cross recess for screws

Hex socket
ISO 4762 (JIS B 1176) Hex socket bolt

Overview 4

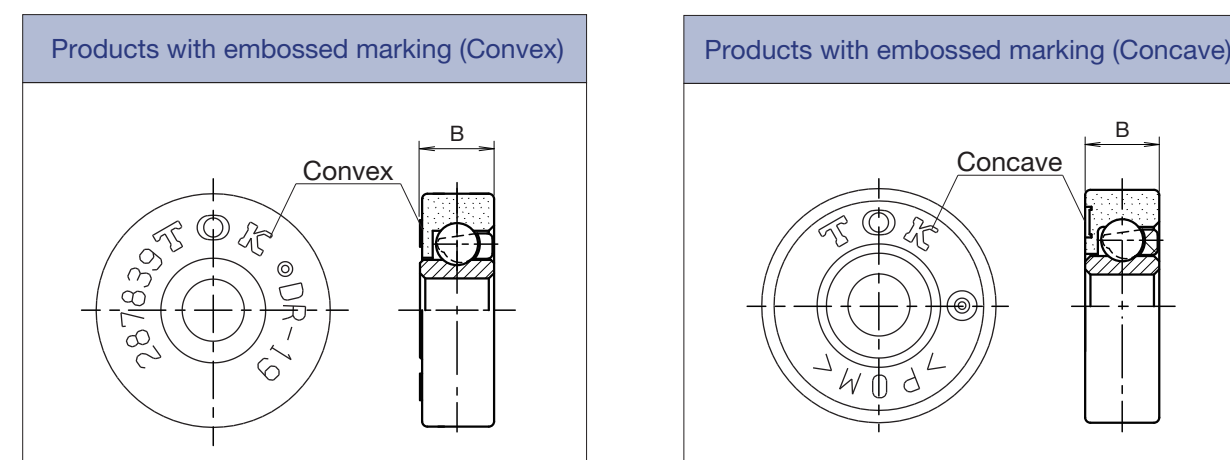
ISO (JIS) equivalent / Embossed marking on outer race

ISO (JIS) equivalent

To facilitate smooth replacement from ISO bearings, we provide bearing numbers “ISO equivalent” within our product lineup, referring to JIS B 1512 (Rolling bearings – Boundary dimensions) and JIS B 1513 (Bearing designation), which are based on ISO 15 standard. Accordingly, please note in advance that the bearings listed in this catalog are not compliant with ISO or JIS standards. Even for outer races with shapes other than flat type, the ISO-equivalent size is shown based on the outer diameter D. For wide inner-race types, the ISO- equivalent size is shown based on the main body dimensions excluding the wide sections C and C1. This specification was introduced to meet customer requests to omit washers previously used to prevent contact between the bearing side face and the mating part.

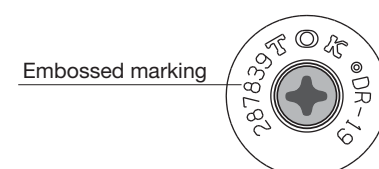
Embossed marking on outer race bearing width dimension

The width dimension B includes the embossed marking (Convex or concave) applied to the end face of the outer race. With the renewal of outer race molds, the embossed marking specification is being gradually changed from convex marking to concave marking. Please note that this catalog does not specify which products have embossed marking (Convex or concave).



Relationship between embossed marking and product identification number

The six-digit number on the side surface of the outer race is not the product identification number. In some cases, the embossed marking “DR” may also appear, even though the outer race has a grooved shape. This is because an outer race originally designed for the DR series is reused, with an additional groove machined into the outer diameter. When identifying a product, please confirm the dimensions, shape, and material in advance, and select the desired product from the product selection pages in this catalog or from our website.



Basic performance / Precautions for use

Basic performance

Durability — Allowable load in the catalog is a value determined by continuous rotation in one direction at 300 min⁻¹ for 1 million rotations. (See Figure 1)

Operation temperature range — 0 to 40°C (32 to 104°F)
*Design ideal for low or high temperatures is available depending on the application.

Rotation speed — Rotation speed: When using under conditions close to the allowable load, please keep the speed below 300 min⁻¹.

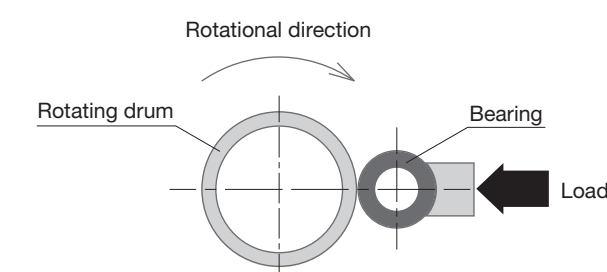


Figure 1: Outline of one direction continuous rotation test

Precautions for use

- Do not use bearings in applications where it may be subjected to impact load. (See Figure 1)
- Ensure that load is applied radially, and avoid axial load. (See Figure 2)
- Improper use of bearings may cause damage or malfunction. Be sure to understand bearing specifications and usage precautions, and select the most suitable bearing for your application. Conduct sufficient performance evaluations, durability tests, and environmental tests after mounting bearing to guarantee quality and safety of your application.
- Do not operate bearing outside its specification or rated value. Operating bearing outside its specification may cause accident.
- Do not disassemble, modify, rework, or repair bearing. Decrease in performance or durability may cause failure or accident.
- Do not set fire to the bearing. Setting fire may cause an accident.

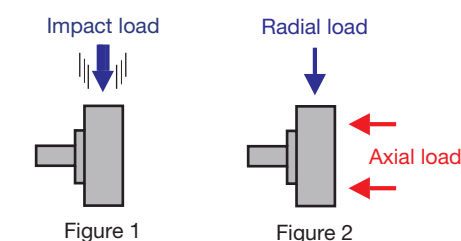
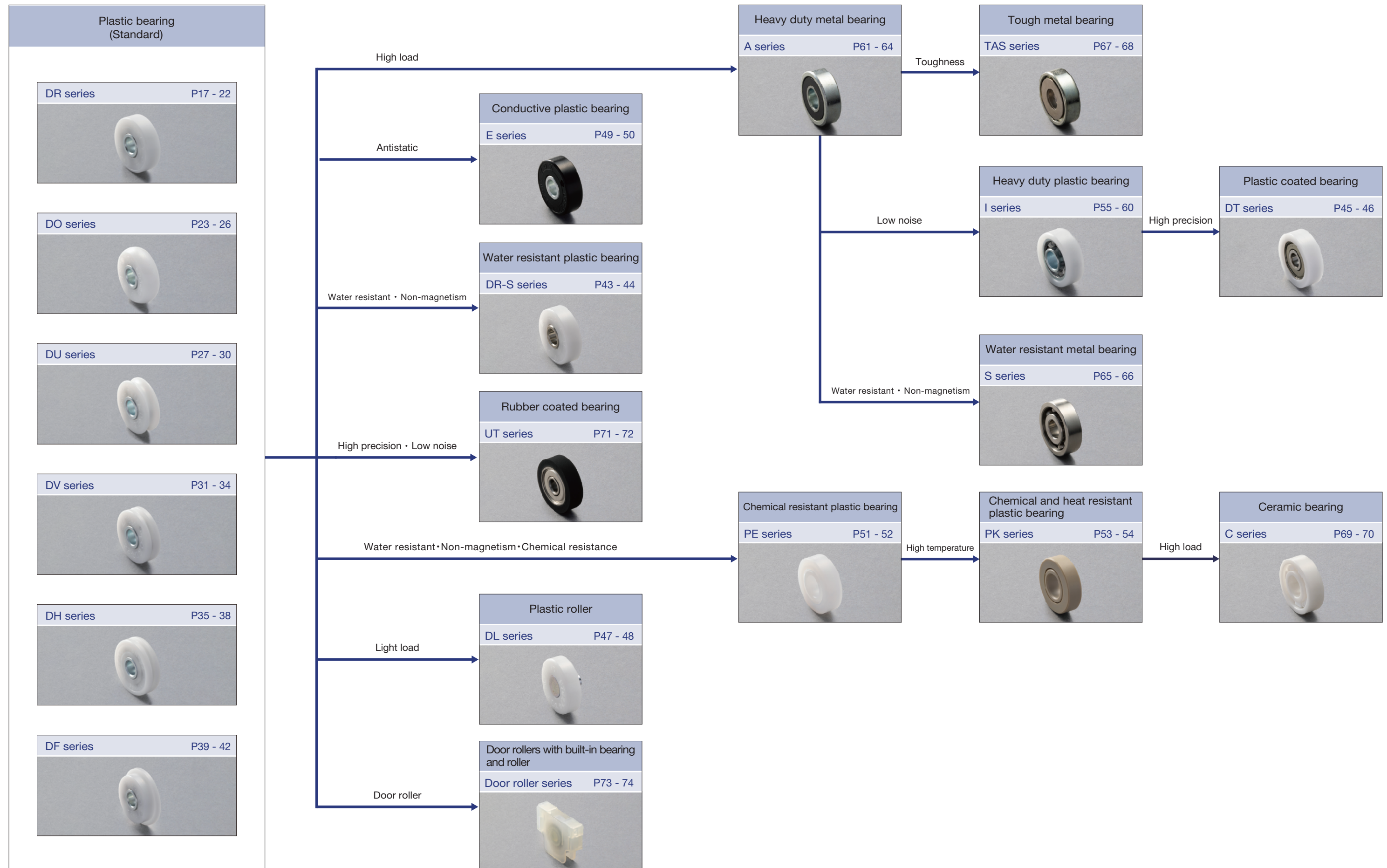


Figure 1

Figure 2

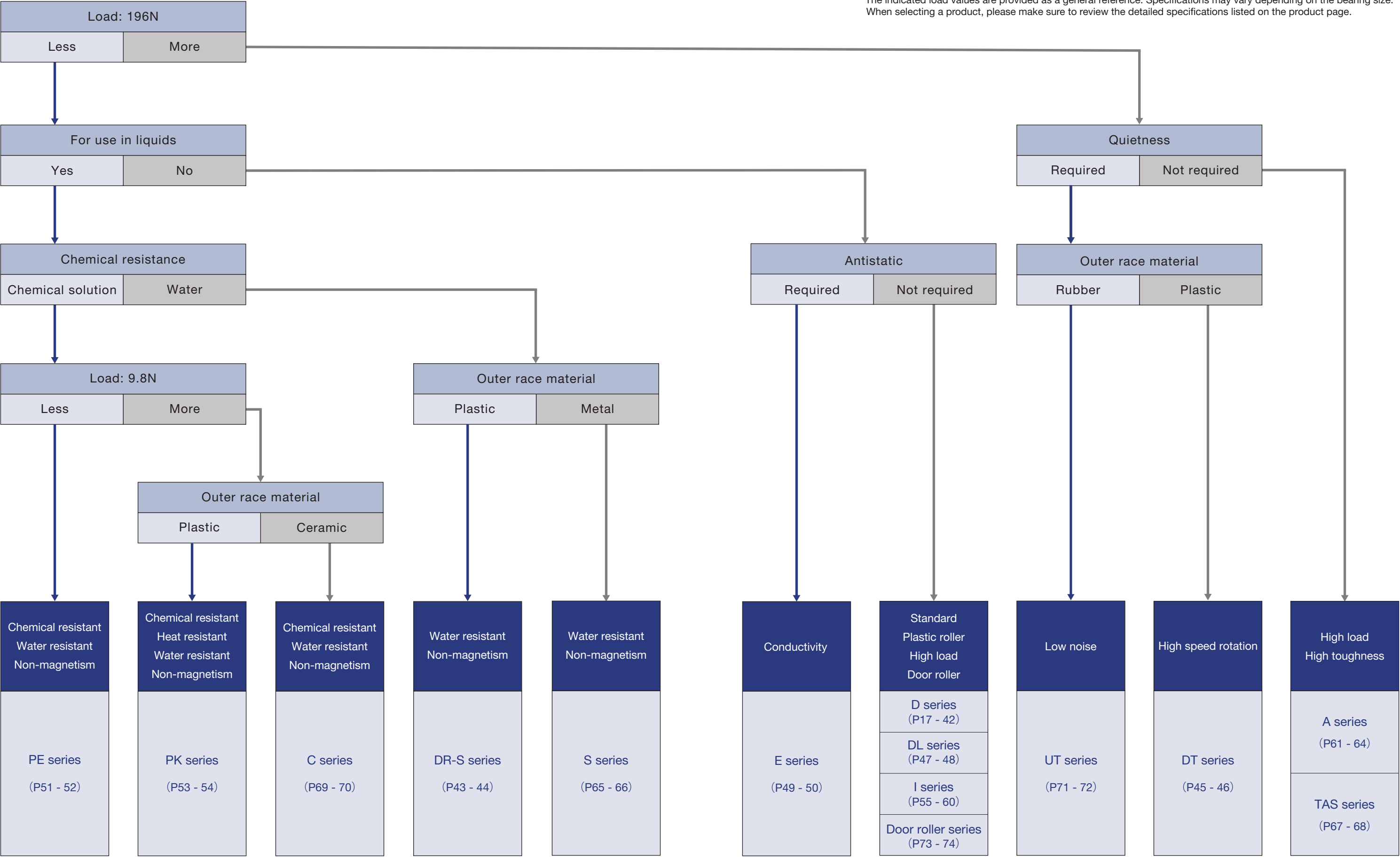
Selection by Features

Product families | Product selection



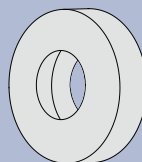
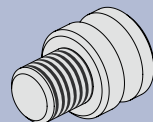
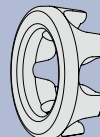
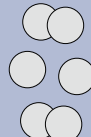
Selection by Usage

* The indicated load values are provided as a general reference. Specifications may vary depending on the bearing size. When selecting a product, please make sure to review the detailed specifications listed on the product page.



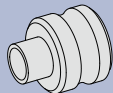
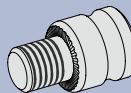
Selection by Material

Product families | Product selection

Category	Series	Outer race					Inner race					Retainer			Ball				Grease	Outer race diameter (mm)	Product page
																					
		Plastic	Stainless steel	Steel	Ceramic	Rubber	Plastic	Stainless steel	Steel	Ceramic		Plastic	Stainless steel	Steel	Plastic	Stainless steel	Steel	Ceramic			
Standard	DR	●							●			●					●		●	∅ 9 - 47	P17 - 22
	DO	●							●			●					●		●	∅ 18 - 35	P23 - 26
	DU	●							●			●					●		●	∅ 19 - 40	P27 - 30
	DV	●							●			●					●		●	∅ 19 - 38	P31 - 34
	DH	●							●			●					●		●	∅ 19 - 24	P35 - 38
	DF	●							●			●					●		●	∅ 19 - 34	P39 - 42
Water resistant Non-magnetism	DR-S	●						●				●				●				∅ 19 - 35	P43 - 44
High speed rotation	DT	●							●					●			●		●	∅ 12 - 35	P45 - 46
Plastic roller	DL	●							●											∅ 16 - 26	P47 - 48
Conductivity	E	●							●			●					●		●	∅ 19 - 40	P49 - 50
Chemical resistant Heat resistant Water resistant Non-magnetism	PE	●					●					●			●					∅ 26 - 80	P51 - 52
	PK	●					●					●						●		∅ 28 - 80	P53 - 54
Metal bearing insert	IN	●							●			●					●		●	∅ 19	P55 - 56
	ID	●							●			●					●		●	∅ 19 - 22	P57 - 58
	IDS	●							●								●		●	∅ 22 - 35	P59 - 60
High load	A			●					●			●					●		●	∅ 19 - 32	P61 - 64
Water resistant Non-magnetism	S		●					●					●			●				∅ 16 - 32	P65 - 66
High toughness	TAS			●					●								●		●	∅ 22	P67 - 68
Chemical resistant Water resistant Non-magnetism	C				●					●		●						●		∅ 22 - 85	P69 - 70
Low noise	UT					●			●					●			●		●	∅ 11 - 22	P71 - 72
Door roller		●					●		●			●					●		●	-	P73 - 74

Selection by Shape

Product families | Product selection

Category	Series	Outer race shape						Inner race shape			Outer race diameter (mm)	Product page
												
		Flat	Convex round	U-groove	V-groove	Concave groove	One-sided flange	Inner ring	Riveting shaft	Screw shaft		
		R	O	U	V	H	F	H	A	B		
Standard	DR	●						●	●	●	∅ 9 - 47	P17 - 22
	DO		●					●	●	●	∅ 18 - 35	P23 - 26
	DU			●				●	●	●	∅ 19 - 40	P27 - 30
	DV				●			●	●	●	∅ 19 - 38	P31 - 34
	DH					●		●	●	●	∅ 19 - 24	P35 - 38
	DF						●	●	●	●	∅ 19 - 34	P39 - 42
Water resistant Non-magnetism	DR-S	●						●	●	●	∅ 19 - 35	P43 - 44
High speed rotation	DT	●						●		●	∅ 12 - 35	P45 - 46
Plastic roller	DL	●							●	●	∅ 16 - 26	P47 - 48
Conductivity	E	●						●		●	∅ 19 - 40	P49 - 50
Chemical resistant Heat resistant Water resistant Non-magnetism	PE	●						●			∅ 26 - 80	P51 - 52
	PK	●						●			∅ 28 - 80	P53 - 54
Metal bearing insert	IN	●							●	●	∅ 19	P55 - 56
	ID	●						●		●	∅ 19 - 22	P57 - 58
	IDS	●						●	●	●	∅ 22 - 35	P59 - 60
High load	A	●		●				●	●	●	∅ 19 - 32	P61 - 64
Water resistant Non-magnetism	S	●						●		●	∅ 16 - 32	P65 - 66
High toughness	TAS	●						●	●	●	∅ 22	P67 - 68
Chemical resistant Water resistant Non-magnetism	C	●						●			∅ 22 - 85	P69 - 70
Low noise	UT	●						●		●	∅ 11 - 22	P71 - 72
Door roller		●		●							-	P73 - 74

DR series

RoHS compliant

H type

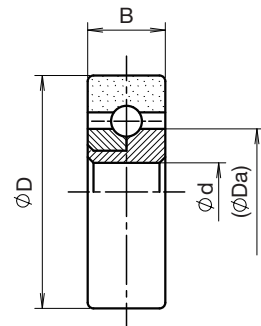
Plastic bearing | Flat

Inner ring

Model 1 Inner ring (Black oxide coating)



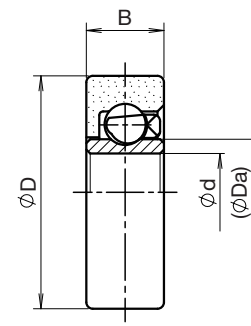
DR-H



Model 2 Inner ring



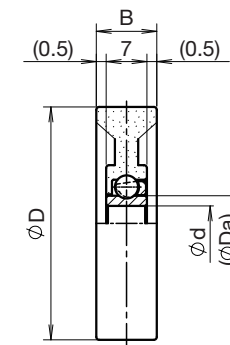
DR-H



Model 3 Inner ring (Inner race width: Concave)



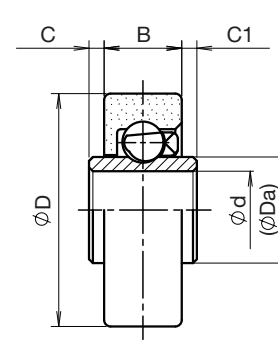
DR-H



Model 4 Inner ring (Inner race width: Wide)



DR-H-W



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	R	Flat
3	Retainer or full ball type	Omitted S	Retainer (Polypropylene) Full ball
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H	Inner ring
7	Inner race material symbol	Omitted	Carbon steel (Plating, Black oxide treatment)
8	Bore and clearance dimension for mounting	- W	(Numerical ϕ D dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	MC	Plating *Including omitted

Lineup

DR-H		Inner ring				(mm)				
Model	D ⁰ _{-0.1}	d ^{+0.1} ₀	B ⁰ _{-0.2}	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.	
1	9 ⁰ _{-0.05}	2.5 ^{+0.05} ₀	3 ^{±0.1}	5.4	9.8	0.7	-	040012	DRS-9-H2.5	
1	12 ⁰ _{-0.05}	3 ^{+0.05} ₀	4 ^{±0.1}	6.5	9.8	1.1	-	040013	DRS-12-H3	
2	17	6	6	8.2	49	-	606	040008	DR-17-H6	
2	18	6	6	8.2	49	2.9	-	040100	DR-18-H6	
2	19	5	6	8.2	49	3.5	635	-	DR-19-H5-MC	
2		6	6	8.2	49	3.1	626	040205	DR-19-H6	
2	20	6	7	9.5	196	-	-	-	DR-20-H6-MC	
2		8	6 ^{±0.1}	11	29.4	3.9	-	040301	DR-20-H8	
2	22	6	7	9.5	196	5.6	636	040405	DR-22-H6-MU	
2		7	7	9.5	196	-	627	-	DR-22-H7	
2		8	7	11	29.4	4.9	608	040412	DR-22-H8	
2	24	6	7	9.5	196	6.3	-	-	DR-24-H6-MC	
2		8	7	13	49	-	-	-	DR-24-H8	
2	26	6	7	9.5	196	6.9	-	040702	DR-26-H6-MU	
2		9	8	13	49	-	629	-	DR-26-H9-MC	
2		10	8	13	49	7.7	6000	041600	DR-26-H10	
2	28	6	7	9.5	196	7.82	-	-	DR-28-H6-MC	
2	30	6	7	9.5	196	7.9	-	-	DR-30-H6-MC	
2		10	9	14.5	245	13	6200	041610	DR-30-H10-9	
2	32	12	10	17	294	17.6	6201	041612	DR-32-H12	
2	35	6	7	9.5	196	9.3	-	-	DR-35-H6-MC	
2		15	11 ^{±0.2}	21	294	24.2	6202	041614	DR-35-H15	
3	40 ⁰ _{-0.2}	6	8	9.5	196	12.3	-	-	DR-40-H6-MC	
2	40	17	12 ^{±0.2}	21	294	26.3	6203	041616	DR-40-H17	
2	47	17	14	27	343	49.1	6303	-	DR-47-H17	
2		20	14	27	343	-	6204	041618	DR-47-H20	

DR-H-W Inner ring (Inner race width: Wide)

Model	D ⁰ _{-0.1}	d ^{+0.1} ₀	B ⁰ _{-0.2}	C	C1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
4	16	4.1	4	0.25	0.25	8.5	19.6	2.3	-	-	DR-16-H4.1W0.25-MC
4	17	6	6	1	1	8.2	49	-	606	-	DR-17-H6W1
4	19	5	6	1	1	8.2	49	-	635	040213	DR-19-H5W1
4		6	6	1	1	8.2	49	-	626	-	DR-19-H6W1
4	22	6	7	1	1	9.5	196	6.3	636	040415	DR-22-H6W1
4		7	7	1	1	11	29.4	-	627	-	DR-22-H7W1
4		8	7	1	1	11	29.4	-	608	-	DR-22-H8W1
4	26	6	7	1	1	9.5	196	-	-	040704	DR-26-H6W1
4		9	8	1	1	13	49	-	629	-	DR-26-H9W1
4		10	8	1	1	13	49	-	6000	-	DR-26-H10W1
4	30	10	9	1	1	14.5	245	-	6200	-	DR-30-H10W1
4	32	12	10	1	1	17	294	-	6201	-	DR-32-H12W1
4	35	15	11	1	1	21	294	-	6202	-	DR-35-H15W1
4	40	17	12	1	1	21	294	-	6203	-	DR-40-H17W1
4	47	17	14	1	1	27	343	-	6303	-	DR-47-H17W1
4		20	14	1	1	27	343	-	6204	-	DR-47-H20W1

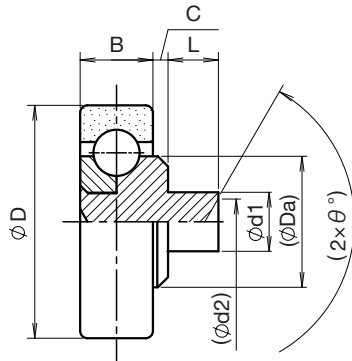
*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Model 1 Riveting shaft (Full ball)



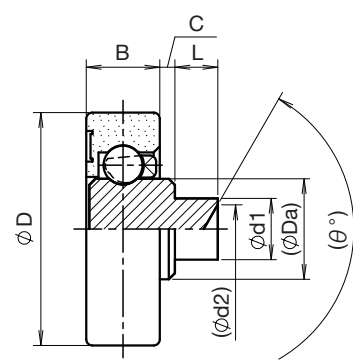
DR-A



Model 2 Riveting shaft (Retainer)



DR-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	R	Flat
3	Retainer or full ball type	Omitted S	Retainer (Polypropylene) Full ball
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	A	Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical ϕ C dimension shown in drawing)

Lineup

DR-A

Riveting shaft

(mm)

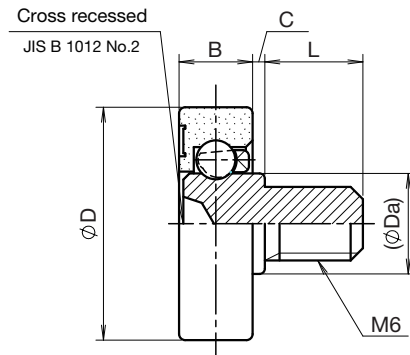
Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
1	16 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	4	5 ± 0.2	0.5	3.5	3 $\times$ 100°	9.0	19.6	-	-	DRS-16-A0.5
1		4	5 ± 0.2	0.5	1	3 $\times$ 100°	9.0	19.6	4.4	000001	DRS-16-A1
2	19	5	6	0.5	3.5	4 $\times$ 120°	8.2	29.4	5.0	000200	DR-19-A0.5
2		5	6	1	3.5	4 $\times$ 120°	8.2	29.4	-	-	DR-19-A1
2		5	6	2	3.5	4.4 $\times$ 120°	8.2	29.4	6.0	000207	DR-19-A2
2	22	5	7	0.5	3.5	4 $\times$ 120°	9.5	29.4	-	-	DR-22-A0.5
2		5	7	1	3.4	4.6 $\times$ 90°	9.5	78.4	8.1	000400	DR-22-A1
2		5	7	2	3.5	4 $\times$ 90°	9.5	78.4	7.7	000411	DR-22-A2
2	26	5	7	0.5	3.5	4 $\times$ 120°	9.5	78.4	-	-	DR-26-A0.5
2		5	7	1	3.5	4.6 $\times$ 90°	9.5	78.4	9.4	000700	DR-26-A1
2		5	7	2	3.5	4.6 $\times$ 90°	9.5	78.4	-	-	DR-26-A2
2	30	5	7	0.5	3.5	4 $\times$ 120°	9.5	78.4	-	-	DR-30-A0.5
2		5	7	1	3.5	4.6 $\times$ 90°	9.5	78.4	-	-	DR-30-A1

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Model 1 Screw shaft (Cross recessed head)



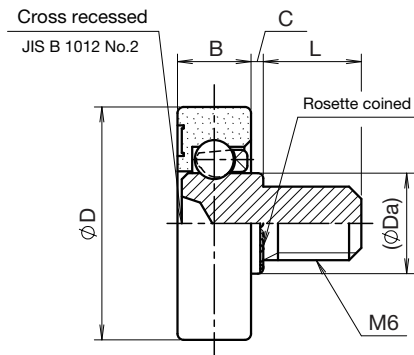
DR-B



Model 2 Screw shaft (Cross recessed head and rosette coined)



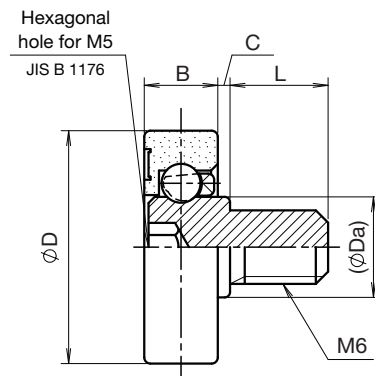
DR-B



Model 3 Screw shaft (Hex socket screw)



DR-B-JH



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	R	Flat
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8 JH	Screw specification × Screw length L dimension Hex socket screw

Lineup

DR-B

Screw shaft

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	6	0.5	8	8.2	M6 P1.0	-	49.0	5.8	020200	DR-19-B0.5
2		6	1	8	8.2	M6 P1.0	●	49.0	6.0	020204	DR-19-B1
2		6	2	8	8.2	M6 P1.0	●	49.0	6.4	020209	DR-19-B2
2		6	3	8	8.2	M6 P1.0	●	49.0	7.0	020214	DR-19-B3
1	20	7	0.5	8	9.5	M6 P1.0	-	196.0	-	020304	DR-20-B0.5
2	22	7	0.5	8	9.5	M6 P1.0	●	196.0	8.5	020400	DR-22-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	8.8	020406	DR-22-B1
2		7	2	8	9.5	M6 P1.0	●	196.0	9.3	020409	DR-22-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	9.9	020413	DR-22-B3
2		7	4	8	9.5	M6 P1.0	●	196.0	10.6	020416	DR-22-B4
2		7	5	8	9.5	M6 P1.0	●	196.0	11.1	020420	DR-22-B5
2		7	6	8	9.5	M6 P1.0	●	196.0	11.6	020422	DR-22-B6
1	24	7	0.5	8	9.5	M6 P1.0	-	196.0	9.2	020600	DR-24-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DR-24-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	10.0	020602	DR-24-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	10.7	020604	DR-24-B3
1	26	7	0.5	8	9.5	M6 P1.0	-	196.0	9.2	020700	DR-26-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DR-26-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	10.7	020705	DR-26-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	11.3	020707	DR-26-B3
2		7	4	8	9.5	M6 P1.0	●	196.0	11.9	020710	DR-26-B4
2		7	5	8	9.5	M6 P1.0	●	196.0	-	020713	DR-26-B5
2		7	6	8	9.5	M6 P1.0	●	196.0	12.9	020715	DR-26-B6
1	28	7	0.5	8	9.5	M6 P1.0	-	196.0	10.8	020800	DR-28-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DR-28-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	11.6	020801	DR-28-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	-	020807	DR-28-B3
1	30	7	0.5	8	9.5	M6 P1.0	-	196.0	10.9	021000	DR-30-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DR-30-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	-	-	DR-30-B2-M6×8
2		7	3	8	9.5	M6 P1.0	●	196.0	12.3	021002	DR-30-B3

DR-B-JH

Screw shaft (Hex socket screw)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	22	7	0.5	8	9.5	M6 P1.0	-	196.0	8.5	020561	DR-22-B0.5-JH
3	24	7	0.5	8	9.5	M6 P1.0	-	196.0	9.2	020611	DR-24-B0.5-JH
3	26	7	0.5	8	9.5	M6 P1.0	-	196.0	9.9	020744	DR-26-B0.5-JH
3	28	7	0.5	8	9.5	M6 P1.0	-	196.0	10.5	020808	DR-28-B0.5-JH
3	30	7	0.5	8	9.5	M6 P1.0	-	196.0	12.0	021013	DR-30-B0.5-JH
3	35	7	0.5	8	9.5	M6 P1.0	-	196.0	-	021103	DR-35-B0.5-JH

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DO series

RoHS compliant

H type A type

Plastic bearing | Convex round

Inner ring

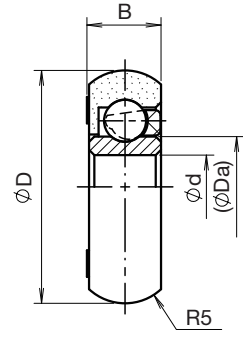
Riveting shaft

Model 1

Inner ring



DO-H

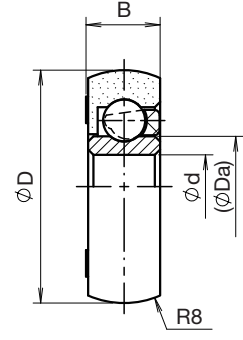


Model 2

Inner ring (R8 type)



DO-H

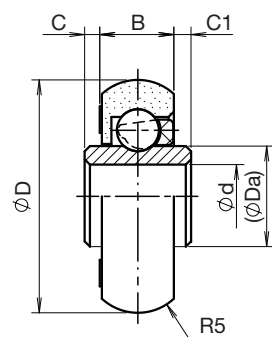


Model 3

Inner ring (Inner race width: Wide)



DO-H-W

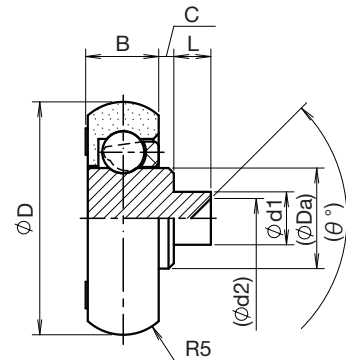


Model 4

Riveting shaft



DO-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	O	Convex round
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H	Inner ring
		A	Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical $\phi D/C$ dimension shown in drawing)
		W	Inner race width (Wide type) & C/C1 dimension
9	Additional information	MU/MC	Plating *Including omitted

Lineup

DO-H

Inner ring

(mm)

Model	D ⁰ _{-0.2}	d ^{+0.1} ₀	B ⁰ _{-0.2}	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	18	5	6	8.2	49.0	3.1	-	072000	DO-18-H5
1	19	5	6	8.2	49.0	3.4	635	-	DO-19-H5-MC
1		6	6	8.2	49.0	-	626	-	DO-19-H6
1	22	6	7	9.5	196.0	5.4	636	-	DO-22-H6-MC
1		7	7	9.5	196.0	-	627	-	DO-22-H7
1	24	6	7	9.5	196.0	6.0	-	-	DO-24-H6-MC
1		8	7	11.0	29.4	-	-	-	DO-24-H8
1	26	6	7	9.5	196.0	6.7	-	072046	DO-26-H6-MU
1	28	6	7	9.5	196.0	7.5	-	-	DO-28-H6-MC
1	30	6	7	9.5	196.0	-	-	-	DO-30-H6-MC
2	30 ^{-0.1} _{-0.4}	10	9	14.5	245.0	12.9	6200	072066	DO-30-H10-9

DO-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D ⁰ _{-0.2}	d ^{+0.1} ₀	B ⁰ _{-0.2}	C	C1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
3	19	5	6	1	1	8.2	49.0	-	635	-	DO-19-H5W1
3		6	6	1	1	8.2	49.0	-	626	-	DO-19-H6W1
3	22	6	7	1	1	9.5	196.0	-	636	072023	DO-22-H6W1
3		7	7	1	1	9.5	196.0	-	627	-	DO-22-H7W1
3		8	7	1	1	11.0	29.4	-	-	-	DO-22-H8W1
3	24	6	7	1	1	9.5	196.0	6.7	-	072031	DO-24-H6W1
3	26	6	7	1	1	9.5	196.0	7.4	-	072043	DO-26-H6W1
3	30	6	7	1	1	9.5	196.0	-	-	072065	DO-30-H6W1
3		10	9	1	1	14.5	245.0	-	6200	-	DO-30-H10W1
3	35	6	7	1	1	9.5	196.0	9.6	-	072072	DO-35-H6W1

DO-A

Riveting shaft

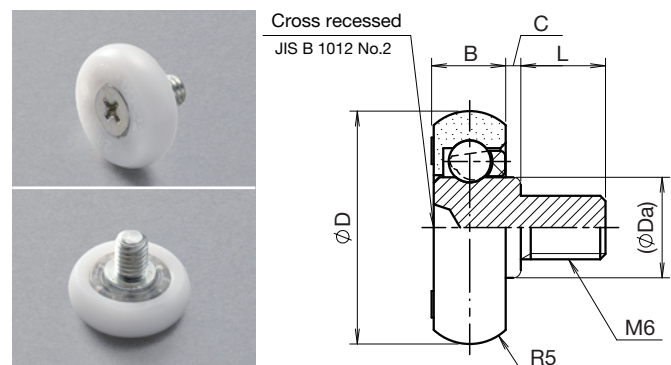
(mm)

Model	D ⁰ _{-0.2}	d1 ⁰ _{-0.1}	B ⁰ _{-0.2}	C ^{+0.4}	L ^{+0.2}	d2×θ	Da	Load (N)	Weight (g)	Code	Part No.
4	19	5	6	0.5	3.5	4×120°	8.2	29.4	3.4	070010	DO-19-A0.5
4		5	7	1	3.5	4×120°	8.2	29.4	-	-	DO-19-A1
4	22	5	7	0.5	3.5	4×120°	9.5	78.4	-	-	DO-22-A0.5
4		5	7	1	3.5	4.6×90°	9.5	78.4	7.9	070020	DO-22-A1
4	24	5	7	0.5	3.5	4×120°	9.5	78.4	-	-	DO-24-A0.5
4		5	7	1	3.5	4.6×90°	9.5	78.4	8.5	070030	DO-24-A1
4	26	5	7	0.5	3.5	4×120°	9.5	78.4	-	-	DO-26-A0.5
4		5	7	1	3.5	4.6×90°	9.5	78.4	9.2	070040	DO-26-A1
4	28	5	7	0.5	3.5	4×120°	9.5	78.4	-	-	DO-28-A0.5
4		5	7	1	3.5	4.6×90°	9.5	78.4	-	071052	DO-28-A1
4	30	5	7	0.5	3.5	4×120°	9.5	78.4	-	-	DO-30-A0.5
4		5	7	1	3.5	4.6×90°	9.5	78.4	-	-	DO-30-A1

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

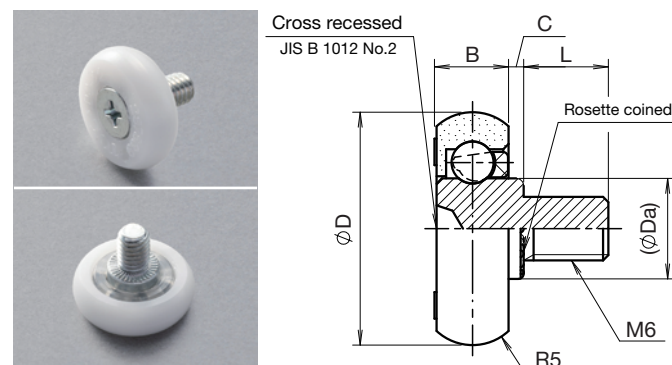
*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Model 1 Screw shaft (Cross recessed head)



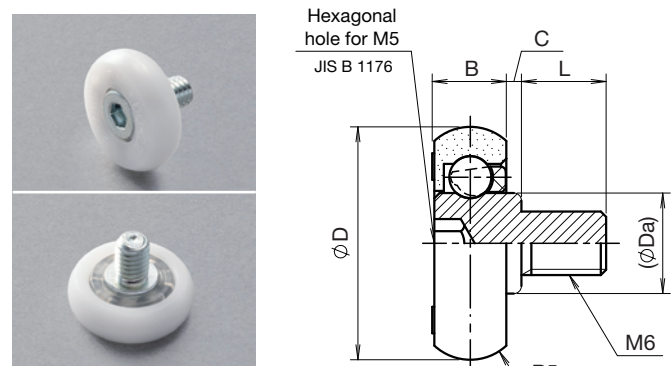
DO-B

Model 2 Screw shaft (Cross recessed head and rosette coined)



DO-B

Model 3 Screw shaft (Hex socket screw)



DO-B-JH

Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	O	Convex round
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ØD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating, Black oxide treatment)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8 JH	Screw specification × Screw length L dimension Hex socket screw

Lineup

DO-B

Screw shaft

Model	D ⁰ _{-0.2}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.5}	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	6	0.5	8	8.2	M6 P1.0	-	49.0	5.7	071010	DO-19-B0.5
2		6	1	8	8.2	M6 P1.0	●	49.0	-	-	DO-19-B1-M6×8
2		6	2	8	8.2	M6 P1.0	●	49.0	-	-	DO-19-B2-M6×8
2	22	6	3	8	8.2	M6 P1.0	●	49.0	-	071017	DO-19-B3
1		7	0.5	8	9.5	M6 P1.0	-	196.0	-	071020	DO-22-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DO-22-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	8.3	071019	DO-22-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	-	-	DO-22-B3-M6×8
2		7	4	8	9.5	M6 P1.0	●	196.0	-	-	DO-22-B4-M6×8
2	24	7	5	8	9.5	M6 P1.0	●	196.0	10.9	071023	DO-22-B5
2		7	6	8	9.5	M6 P1.0	●	196.0	-	-	DO-22-B6-M6×8
1		7	0.5	8	9.5	M6 P1.0	-	196.0	8.9	071030	DO-24-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DO-24-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	9.8	071031	DO-24-B2
2		7	3	8	9.5	M6 P1.0	●	196.0	10.3	071032	DO-24-B3
1	26	7	0.5	8	9.5	M6 P1.0	-	196.0	9.6	071040	DO-26-B0.5
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B2-M6×8
2		7	3	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B3-M6×8
2		7	4	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B4-M6×8
2		7	5	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B5-M6×8
2	28	7	6	8	9.5	M6 P1.0	●	196.0	-	-	DO-26-B6-M6×8
1		7	0.5	8	9.5	M6 P1.0	-	196.0	10.4	071050	DO-28-B0.5
2		7	1 ^{±0.5}	8	9.5	M6 P1.0	●	196.0	-	-	DO-28-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	-	-	DO-28-B2-M6×8
2	30	7	3	8	9.5	M6 P1.0	●	196.0	-	-	DO-28-B3-M6×8
1		7	0.5	8	9.5	M6 P1.0	-	196.0	-	-	DO-30-B0.5-M6×8
2		7	1	8	9.5	M6 P1.0	●	196.0	-	-	DO-30-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	196.0	-	-	DO-30-B2-M6×8
2	35	7	3	8	9.5	M6 P1.0	●	196.0	11.9	071060	DO-30-B3

DO-B-JH

Screw shaft (Hex socket screw)

Model	D ⁰ _{-0.2}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.5}	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	22	7	0.5	8	9.5	M6 P1.0	-	196.0	7.7	071066	DO-22-B0.5-JH
3	24	7	0.5	8	9.5	M6 P1.0	-	196.0	8.8	071037	DO-24-B0.5-JH
3	26	7	0.5	8	9.5	M6 P1.0	-	196.0	9.5	071069	DO-26-B0.5-JH
3	28	7	0.5	8	9.5	M6 P1.0	-	196.0	10.3	071054	DO-28-B0.5-JH
3	30	7	0.5	8	9.5	M6 P1.0	-	196.0	10.3	071070	DO-30-B0.5-JH
3	35	7	0.5	8	9.5	M6 P1.0	-	196.0	11.7	071071	DO-35-B0.5-JH

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DU series

RoHS compliant

H type A type

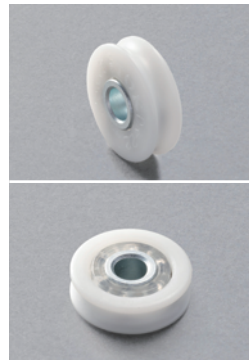
Plastic bearing | U-groove

Inner ring

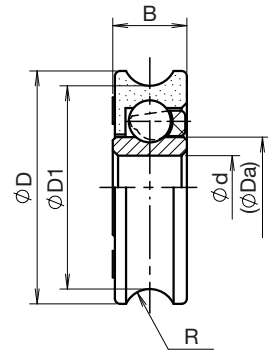
Riveting shaft

Model 1

Inner ring



DU-H

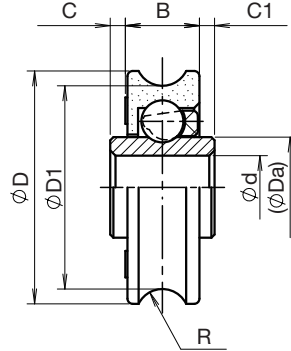


Model 2

Inner ring (Inner race width: Wide)



DU-H-W

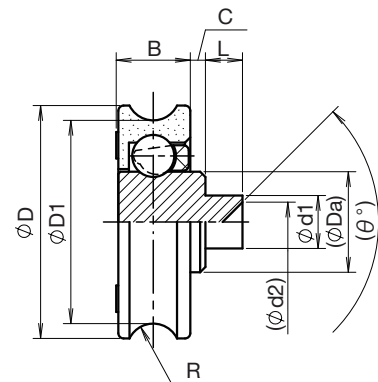


Model 3

Riveting shaft



DU-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	U	U-groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ØD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A	Inner ring Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	- W	(Numerical ØD/C dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	MC	Plating *Including omitted

Lineup

DU-H

Inner ring

(mm)

Model	D ± 0.2	D1 ± 0.1	d $+0.1$ 0	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	R	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19	17	5	6	1.75	8.2	39.2	3.3	635	-	DU-19-H5-MC
1		17	6	6	1.75	8.2	39.2	-	626	-	DU-19-H6
1	22	19.2	6	7	2.5	9.5	156.0	5.3	636	082022	DU-22-H6-MU
1	24	21.2	6	7	2.5	9.5	156.0	5.8	-	-	DU-24-H6-MC
1	26	23.2	6	7	2.5	9.5	156.0	6.5	-	-	DU-26-H6-MC
1	28	24	6	7	2.5	9.5	156.0	-	-	082093	DU-28-H6-MC
1	30	25.7	6	7 ± 0.2	2.5	9.5	156.0	-	-	082100	DU-30-H6-M
1		26	10	8 ± 0.2	2.5	14.5	196.0	11.2	-	-	DU-30-H10-MC
1	35	31	6	7	2.5	9.5	156.0	-	-	-	DU-35-H6-MC
1	40	36	6	8	2.5	9.5	156.0	-	-	-	DU-40-H6

DU-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D ± 0.2	D1 ± 0.1	d $+0.1$ 0	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C	C1	R	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	19	17	5	6	1	1	1.75	8.2	39.2	-	635	-	DU-19-H5W1
2		17	6	6	1	1	1.75	8.2	39.2	-	626	-	DU-19-H6W1
2	22	19.2	6	7	1	1	2.5	9.5	156.0	6.0	636	082028	DU-22-H6W1
2	24	21.2	6	7	1	1	2.5	9.5	156.0	-	-	-	DU-24-H6W1
2	26	23.2	6	7	1	1	2.5	9.5	156.0	-	-	-	DU-26-H6W1
2	28	24	6	7	1	1	2.5	9.5	156.0	7.7	-	082090	DU-28-H6W1
2	30	25.7	6	7 ± 0.2	1	1	2.5	9.5	156.0	7.6	-	082103	DU-30-H6W1
2		26	10	8 ± 0.2	1	1	2.5	14.5	156.0	-	-	082106	DU-30-H10W1
2	35	31	6	7	1	1	2.5	9.5	156.0	9.0	-	082110	DU-35-H6W1
2	40	36	6	8 ± 0.2	1	1	2.5	9.5	156.0	-	-	-	DU-40-H6W1

DU-A

Riveting shaft

(mm)

Model	D ± 0.2	D1 ± 0.1	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.2	d2×θ	R	Da	Load (N)	Weight (g)	Code	Part No.
3	19	17	5	6	0.5	3.5	4×120°	1.75	8.2	29.4	4.9	080010	DU-19-A0.5
3		17	5	6	1	3.5	4×120°	1.75	8.2	29.4	-	-	DU-19-A1
3	22	19.2	5	7	0.5	3.5	4×120°	2.5	9.5	58.8	-	-	DU-22-A0.5
3		19.2	5	7	1	3.5	4.6×90°	2.5	9.5	58.8	7.8	080020	DU-22-A1
3	24	21.2	5	7	0.5	3.5	4×120°	2.5	9.5	58.8	-	-	DU-24-A0.5
3		21.2	5	7	1	3.5	4.6×90°	2.5	9.5	58.8	8.2	080030	DU-24-A1
3	26	23.2	5	7	0.5	3.5	4×120°	2.5	9.5	58.8	-	-	DU-26-A0.5
3		23.2	5	7	1	3.5	4.6×90°	2.5	9.5	58.8	8.9	080040	DU-26-A1
3	28	24	5	7	0.5	3.5	4×120°	2.5	9.5	58.8	-	-	DU-28-A0.5
3		24	5	7	1	3.5	4.6×90°	2.5	9.5	58.8	-	-	DU-28-A1
3	30	25.7	5	7	0.5	3.5	4×120°	2.5	9.5	58.8	-	-	DU-30-A0.5
3		25.7	5	7	1	3.5	4.6×90°	2.5	9.5	58.8	-	-	DU-30-A1

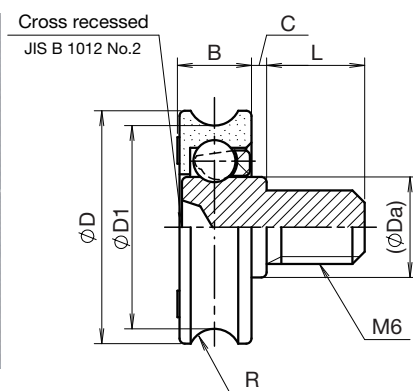
*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Model 1 Screw shaft (Cross recessed head)



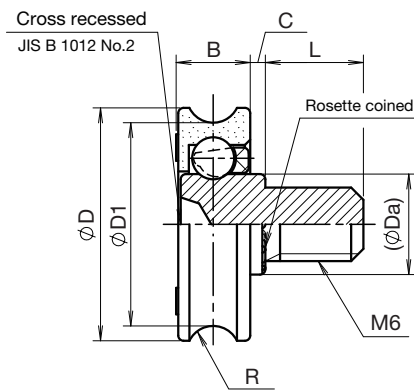
DU-B



Model 2 Screw shaft (Cross recessed head and rosette coined)



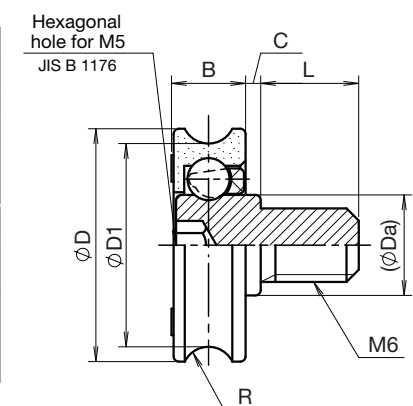
DU-B



Model 3 Screw shaft (Hex socket screw)



DU-B-JH



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	U	U-groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8 JH	Screw specification × Screw length L dimension Hex socket screw

Lineup

DU-B

Screw shaft

Model	D ± 0.2	D1 ± 0.1	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	R	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	17	6	0.5	8	1.75	8.2	M6 P1.0	-	39.2	4.9	081010	DU-19-B0.5
2		17	6	1	8	1.75	8.2	M6 P1.0	●	39.2	-	-	DU-19-B1-M6×8
2		17	6	2	8	1.75	8.2	M6 P1.0	●	39.2	6.3	081013	DU-19-B2
1	22	19.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	8.2	081020	DU-22-B0.5
2		19.2	7	1	8	2.5	9.5	M6 P1.0	●	156.0	-	081024	DU-22-B1
2		19.2	7	2	8	2.5	9.5	M6 P1.0	●	156.0	-	-	DU-22-B2-M6×8
1	24	21.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081030	DU-24-B0.5
1	26	23.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081040	DU-26-B0.5
1	28	24	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	-	DU-28-B0.5-M6×8
1	30 $\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$	25.7	7 $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081060	DU-30-B0.5

DU-B-JH

Screw shaft (Hex socket screw)

Model	D ± 0.2	D1 ± 0.1	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	R	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	22	19.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081086	DU-22-B0.5-JH
3	24	21.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081036	DU-24-B0.5-JH
3	26	23.2	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081044	DU-26-B0.5-JH
3	28	24	7	0.5 $\begin{smallmatrix} +0.5 \\ -0.4 \end{smallmatrix}$	8	2.5	9.5	M6 P1.0	-	156.0	-	081052	DU-28-B0.5-JH
3	30	25.7	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081065	DU-30-B0.5-JH
3	35	31	7	0.5	8	2.5	9.5	M6 P1.0	-	156.0	-	081066	DU-35-B0.5-JH

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DV series

RoHS compliant

H type A type

Plastic bearing | V-groove

Inner ring

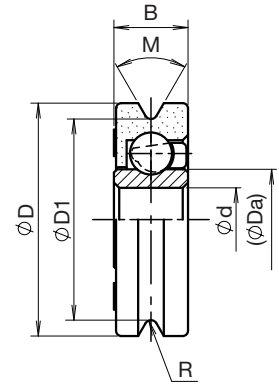
Riveting shaft

Model 1

Inner ring

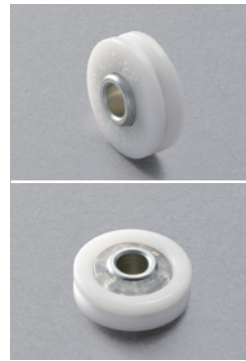


DH-H

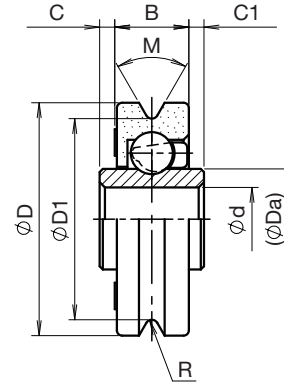


Model 2

Inner ring (Inner race width: Wide)



DH-H-W

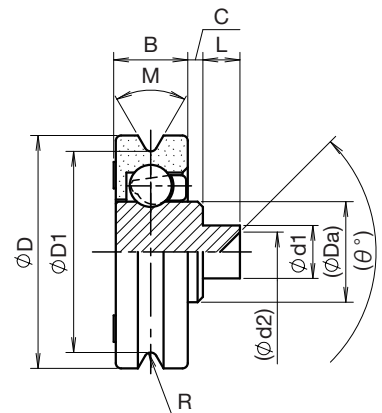


Model 3

Riveting shaft



DH-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	V	V-groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A	Inner ring Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	- W	(Numerical $\phi D/C$ dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	M/MC	Plating *Including omitted

Lineup

DV-H

Inner ring

(mm)

Model	D ± 0.2	D1 ± 0.2	d $+0.1/-0$	B $0/-0.2$	M	R	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19	17	5	6	60°	0.6	8.2	39.2	3.4	635	-	DV-19-H5-MC
1		17	6	6	60°	0.6	8.2	39.2	-	626	-	DV-19-H6
1	22	19	6	7	60°	0.6	9.5	156.0	-	636	092100	DV-22-H6-M

DV-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D ± 0.2	D1 ± 0.2	d $+0.1/-0$	B $0/-0.2$	C	C1	M	R	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	19	17	5	6	1	1	60°	0.6	8.2	39.2	-	635	-	DV-19-H5W1
2		17	6	6	1	1	60°	0.6	8.2	39.2	-	626	-	DV-19-H6W1
2	22	19	6	7	1	1	60°	0.6	9.5	156.0	-	636	-	DV-22-H6W1

DV-A

Riveting shaft

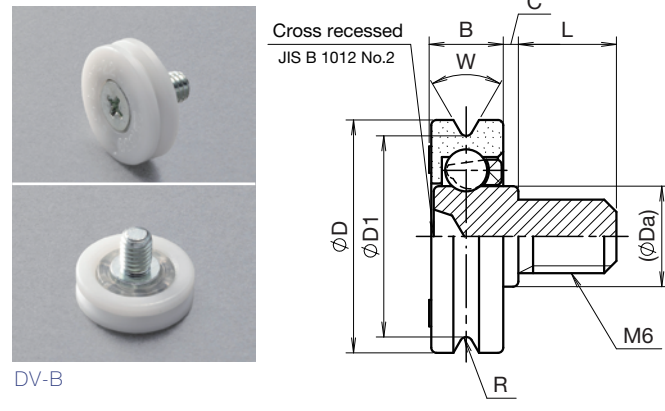
(mm)

Model	D ± 0.2	D1 ± 0.2	d1 $0/-0.1$	B $0/-0.2$	C ± 0.2	L ± 0.2	M	R	Da	d2 $\times\theta$	Load (N)	Weight (g)	Code	Part No.
3	19	17	5	6	0.5	3.5	60°	0.6	8.2	4 $\times$ 120°	29.4	5.0	090000	DV-19-A0.5
3		17	5	6	1	3.5	60°	0.6	8.2	4 $\times$ 120°	29.4	-	-	DV-19-A1
3	22	19	5	7	0.5	3.5	60°	0.6	9.5	4 $\times$ 120°	29.4	-	-	DV-22-A0.5
3		19	5	7	1	3.5	60°	0.6	9.5	4.6 $\times$ 90°	29.4	8.0	090100	DV-22-A1
3	24	21	5	7	0.5	3.5	60°	0.6	9.5	4 $\times$ 120°	29.4	-	-	DV-24-A0.5
3		21	5	7	1	3.5	60°	0.6	9.5	4.6 $\times$ 90°	29.4	8.6	090200	DV-24-A1
3	26	23	5	7	0.5	3.5	60°	0.6	9.5	4 $\times$ 120°	29.4	-	-	DV-26-A0.5
3	30	27	5	7	0.5	3.5	60°	0.6	9.5	4 $\times$ 120°	29.4	-	-	DV-30-A0.5

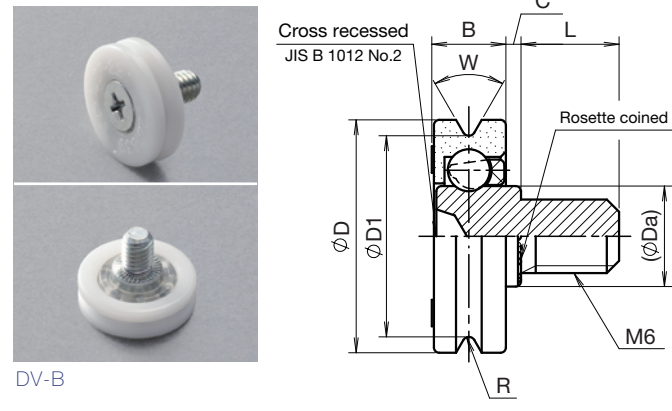
*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

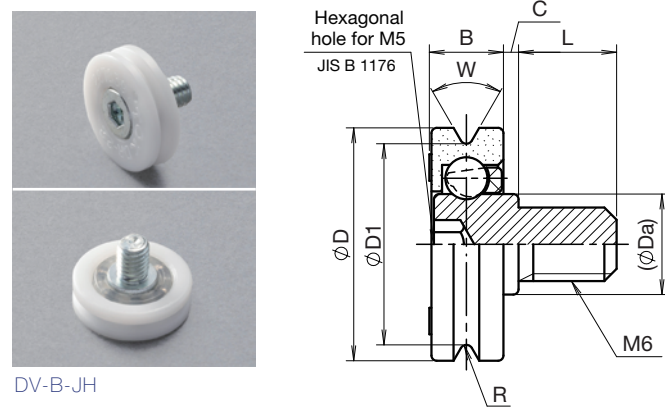
Model 1 Screw shaft (Cross recessed head)



Model 2 Screw shaft (Cross recessed head and rosette coined)



Model 3 Screw shaft (Hex socket screw)



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	V	V-groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	-	(Numerical R dimension shown in drawing)
		M6×8	Screw specification × Screw length L dimension
		JH	Hex socket screw

Lineup

DV-B

Screw shaft

Model	D ± 0.2	D1 ± 0.2	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	M	R	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	17	6	0.5	8	60°	0.6	8.2	M6 P1.0	-	39.2	5.0	091000	DV-19-B0.5
2		17	6	1	8	60°	0.6	8.2	M6 P1.0	●	39.2	-	-	DV-19-B1-M6×8
1	22	19	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	8.4	091100	DV-22-B0.5
2		19	7	1	8	60°	0.6	9.5	M6 P1.0	●	156.0	-	-	DV-22-B1-M6×8
1	24	21	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	9.1	091200	DV-24-B0.5
1	26	23	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	9.7	091300	DV-26-B0.5
1	30	28	7	0.5	8	90°	0.5	9.5	M6 P1.0	-	156.0	10.7	091500	DV-30-B1.5-0.5R
2	32.5 ± 0.3	20.5	9.5 ± 0.2	1.5	8	15°	2.0	9.5	M6 P1.0	●	156.0	14.3	091501	DV-32.5-B0.5-2R
1	38	35	8 ± 0.2	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	15.2	091600	DV-38-B0.5

DV-B-JH

Screw shaft (Hex socket screw)

Model	D ± 0.2	D1 ± 0.2	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	M	R	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	22	19	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	39.2	8.3	091104	DV-22-B0.5-JH
3	24	21	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	39.2	8.9	091203	DV-24-B0.5-JH
3	26	23	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	9.6	091305	DV-26-B0.5-JH
3	28	24	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	10.2	091400	DV-28-B0.5-JH
3	30	27	7	0.5	8	60°	0.6	9.5	M6 P1.0	-	156.0	10.4	091506	DV-30-B0.5-JH

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DH series

RoHS compliant

H type A type

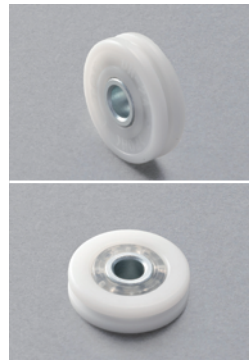
Plastic bearing | Concave groove

Inner ring

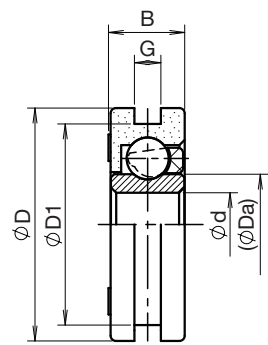
Riveting shaft

Model 1

Inner ring



DH-H

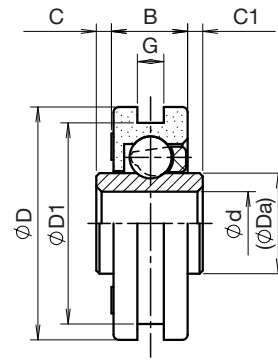


Model 2

Inner ring (Inner race width: Wide)



DH-H-W

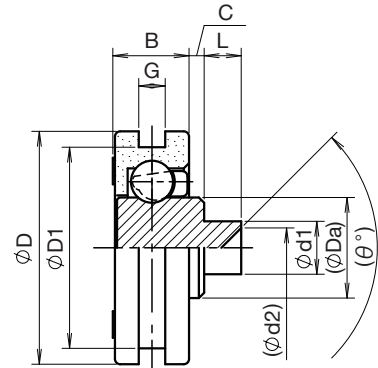


Model 3

Riveting shaft



DH-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	H	Concave groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical $\phi D1$ dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A	Inner ring Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	- W	(Numerical $\phi d/C$ dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	2/3 MC	(Numerical G dimension shown in drawing) *Including omitted Plating *Including omitted

Lineup

DH-H

Inner ring

(mm)

Model	D ± 0.2	D1 ± 0.2	d $+0.1/0$	B $0/-0.2$	G ± 0.2	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19	16	5	6	2.1	8.2	5.4	635	102012	DH-16-H5-MC
1		16	6	6	2.1	8.2	-	626	-	DH-16-H6
1	22	19	6	7	2	9.5	5.4	636	-	DH-19-H6-2-MC
1	24	21	6	7	2	9.5	6.1	-	102040	DH-21-H6-2
1		21	6	7	3	9.5	5.9	-	-	DH-21-H6-3-MC

DH-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D ± 0.2	D1 ± 0.2	d $+0.1/0$	B $0/-0.2$	G ± 0.2	C	C1	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	19	16	5	6	2.1	1	1	8.2	-	635	-	DH-16-H5W1
2		16	6	6	2.1	1	1	8.2	-	626	-	DH-16-H6W1
2	22	19	6	7	2	1	1	9.5	-	636	-	DH-19-H6W1-2
2	24	21	6	7	2	1	1	9.5	-	-	-	DH-21-H6W1-2
2		21	6	7	3	1	1	9.5	-	-	-	DH-21-H6W1-3

DH-A

Riveting shaft

(mm)

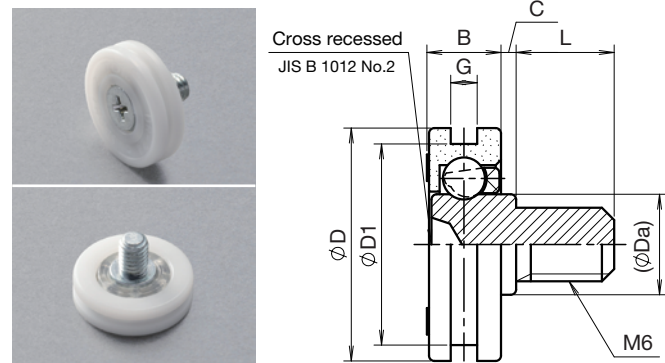
Model	D ± 0.2	D1 ± 0.2	d1 $0/-0.1$	B $0/-0.2$	G ± 0.2	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Weight (g)	Code	Part No.
3	19	16	5	6	2.1	0.5	3.5	4 $\times$ 120°	8.2	4.8	100000	DH-16-A0.5
3		16	5	6	2.1	1	3.5	4 $\times$ 120°	8.2	-	-	DH-16-A1
3	22	19	5	7	2	0.5	3.5	4 $\times$ 120°	9.5	-	-	DH-19-A0.5
3		19	5	7	2	1	3.5	4.6 $\times$ 90°	9.5	-	-	DH-19-A1
3	24	21	5	7	2	0.5	3.5	4 $\times$ 120°	9.5	-	-	DH-21-A0.5
3		21	5	7	2	1	3.5	4.6 $\times$ 90°	9.5	-	-	DH-21-A1

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

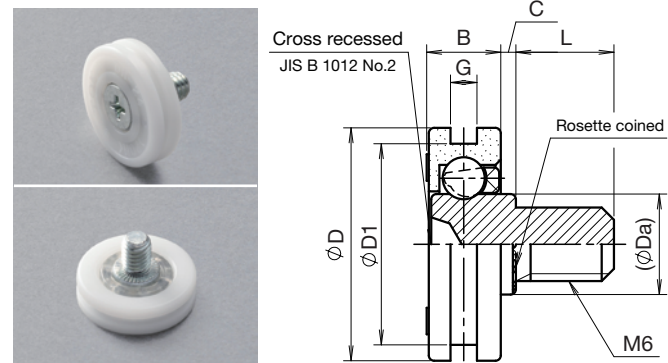
FAQ / Doc roller / UT / C / TAS / S / A-B / A-HA / IDS / ID / IN / PK / PE / E / DL / DT / DR-S / DR-B / DF-HA / DH-B / DH-HA / DV-B / DV-HA / DUB / DUHA / DO-B / DO-HA / DR-B / DRA / DR-H / Selection / Overview

Model 1 Screw shaft (Cross recessed head)



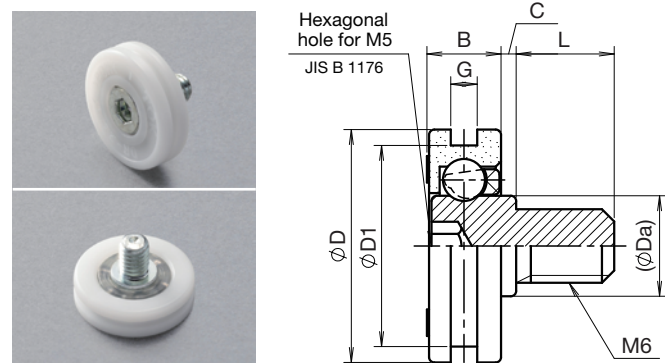
DH-B

Model 2 Screw shaft (Cross recessed head and rosette coined)



DH-B

Model 3 Screw shaft (Hex socket screw)



DH-B-JH

Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	H	Concave groove
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	2 M6×8 JH	(Numerical G dimension shown in drawing *Including omitted) Screw specification × Screw length L dimension Hex socket screw

Lineup

DH-B

Screw shaft

Model	D ± 0.2	D1 ± 0.2	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	G ± 0.2	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
1	19	16	6	2.1	0.5	8	8.2	M6 P1.0	-	5.6	101012	DH-16-B0.5
2		16	6	2.1	1	8	8.2	M6 P1.0	●	5.6	101013	DH-16-B1
1	22	19	7	2	0.5	8	9.5	M6 P1.0	-	-	101020	DH-19-B0.5-2
2		19	7	2	1	8	9.5	M6 P1.0	●	-	-	DH-19-B1-M6×8
1	24	21	7	2	0.5	8	9.5	M6 P1.0	-	-	101040	DH-21-B0.5-2
1		21	7	2	1	8	9.5	M6 P1.0	-	-	-	DH-21-B1-M6×8

DH-B-JH

Screw shaft (Hex socket screw)

Model	D ± 0.2	D1 ± 0.2	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	G ± 0.2	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
3	22	19	7	2	0.5	8	9.5	M6 P1.0	-	-	101022	DH-19-B0.5-2-JH
3	24	21	7	2	0.5	8	9.5	M6 P1.0	-	-	101041	DH-21-B0.5-2-JH

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DF series

RoHS compliant

H type A type

Plastic bearing | One-sided flange

Inner ring

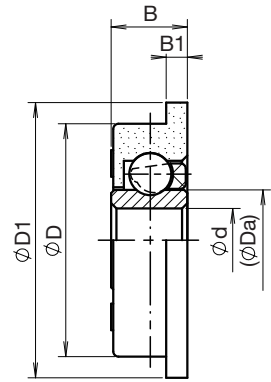
Riveting shaft

Model 1

Inner ring



DF-H

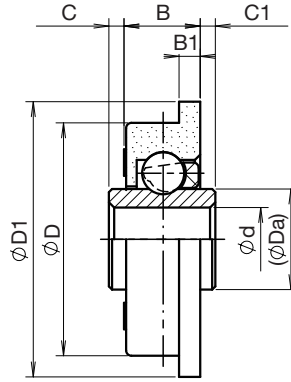


Model 2

Inner ring (Inner race width: Wide)



DF-H-W

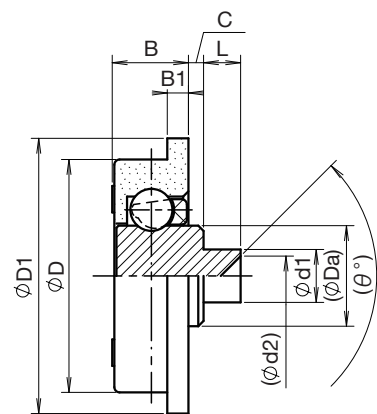


Model 3

Riveting shaft



DF-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	F	One-sided flange
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A	Inner ring Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	- W	(Numerical ϕ d/C dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	MU/MC 3	Plating *Including omitted Numerical B1 dimension shown in drawing *Including omitted

Lineup

DF-H

Inner ring

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	D1 ± 0.2	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	B1 ± 0.2	Da	Load (N) *1	Load (N) *2	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	17	19	6	6	1	8.2	49.0	14.7	2.8	606	062000	DF-17-H6
1	19	22	6	7	1.5	9.5	147.0	29.4	5.0	-	-	DF-19-H6-MC
1	22	26	6	7	2	9.5	196.0	39.2	6.1	636	062021	DF-22-H6-MU
1		26	8	7	2	11	-	-	-	608	-	DF-22-H8
1	26	32	6	7	2	9.5	196.0	39.2	-	-	-	DF-26-H6
1	30	34	6	8.5	3	14.5	245.0	58.8	-	-	-	DF-30-H6-3
1		34	10	8.5	3	14.5	245.0	58.8	13.5	-	062061	DF-30-H10-3

DF-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	D1 ± 0.2	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	B1 ± 0.2	C	C1	Da	Load (N) *1	Load (N) *2	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	17	19	6	6	1	1	1	8.2	49.0	14.7	-	606	-	DF-17-H6W1
2	19	22	6	7	1.5	1	1	9.5	147.0	29.4	-	-	-	DF-19-H6W1
2	22	26	6	7	2	1	1	9.5	196.0	39.2	-	636	-	DF-22-H6W1
2	26	32	6	7	2	1	1	9.5	196.0	39.2	-	-	-	DF-26-H6W1
2	30	34	6	8.5	3	1	1	14.5	245.0	58.8	-	-	-	DF-30-H6W1

DF-A

Riveting shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	D1 ± 0.2	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	B1 ± 0.2	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N) *1	Weight (g)	Code	Part No.
3	17	19	5	6	1	0.5	3.5	4 $\times$ 120°	8.2	29.4	-	-	DF-17-A0.5
3		19	5	6	1	1	3.5	4 $\times$ 120°	8.2	29.4	-	-	DF-17-A1
3	19	22	5	7	1.5	0.5	3.5	4 $\times$ 120°	9.5	58.8	-	-	DF-19-A0.5
3		22	5	7	1.5	1	3.5	4.6 $\times$ 90°	9.5	58.8	-	-	DF-19-A1
3	22	26	5	11	2	1	3.5	4.6 $\times$ 90°	9.5	58.8	-	-	DF-22-A1
3	30	34	6	8.5	3	1	3.5	5.5 $\times$ 120°	14.5	78.4	-	-	DF-30-A1

*1: Allowable load during outer race rotation (300 min⁻¹)

*2: Allowable load during inner race rotation (300 min⁻¹)

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DF series

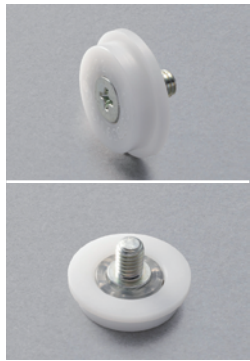
B type

RoHS compliant

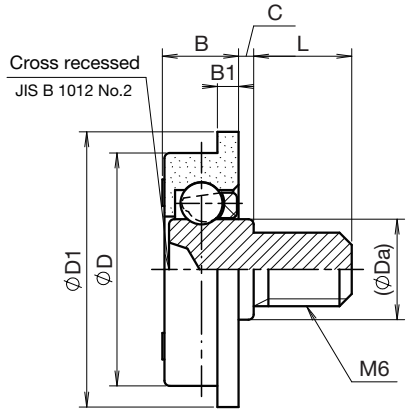
Plastic bearing | One-sided flange

Screw shaft

Model 1 Screw shaft (Cross recessed head)



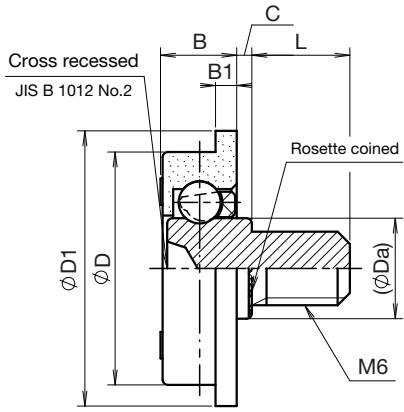
DF-B



Model 2 Screw shaft (Cross recessed head and rosette coined)



DF-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	F	One-sided flange
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8	Screw specification × Screw length L dimension

Lineup

DF-B

Screw shaft

Model	D ₀ ⁰ _{-0.1}	D1 ^{±0.2}	B ⁰ _{-0.2}	B1 ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.5}	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	22	7	1.5	0.5	8	9.5	M6 P1.0	-	196.0	-	-	DF-19-B0.5-M6×8
2		22	7	1.5	1	8	9.5	M6 P1.0	●	196.0	-	-	DF-19-B1-M6×8
1	22	26	7	2	0.5	8	9.5	M6 P1.0	-	196.0	-	061020	DF-22-B0.5
2		26	7	2	1 ^{±0.5}	8	9.5	M6 P1.0	●	196.0	-	-	DF-22-B1-M6×8
1	26	32	11	3	0.5	8	9.5	M6 P1.0	-	196.0	-	-	DF-26-B0.5-M6×8
1	30	34	8.5	3	0.5	8	14.5	M6 P1.0	-	245.0	-	-	DF-30-B0.5-M6×8

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

DR-S series

RoHS compliant

H type A type B type

Plastic bearing (Stainless steel) | Flat

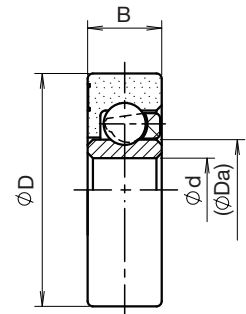
Inner ring

Riveting shaft

Screw shaft

Model 1

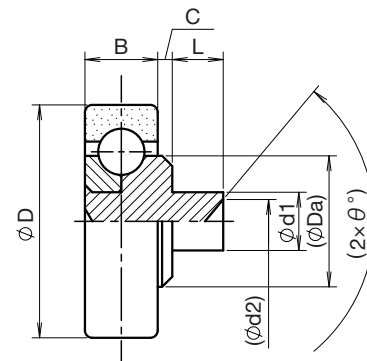
Inner ring



DR-S-H

Model 2

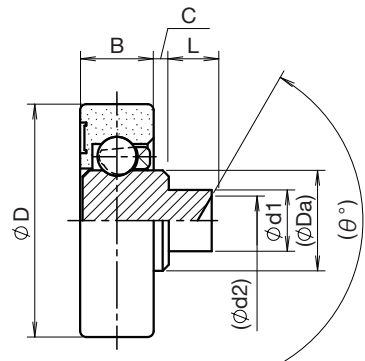
Riveting shaft (Full ball)



DR-S-A

Model 3

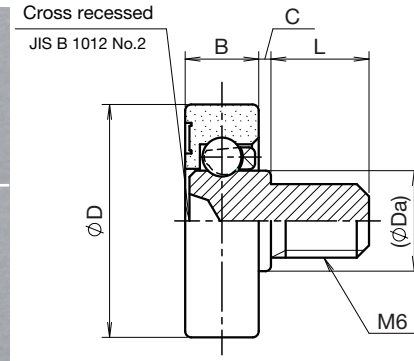
Riveting shaft (Retainer)



DR-S-A

Model 4

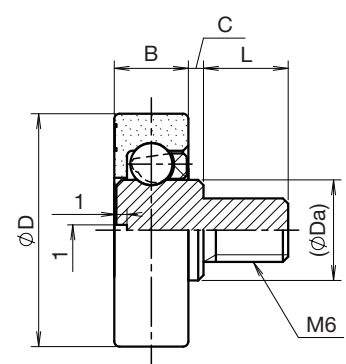
Screw shaft (Cross recessed head)



DR-S-B

Model 5

Screw shaft (Slotted head)



DR-S-B

Lineup

DR-S-H

Inner ring

Model	D ⁰ _{-0.1}	d ^{+0.1} ₀	B ⁰ _{-0.2}	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19	6	6	8.2	-	-	626	-	DR-19-SHS6-GN
1	22	6	7	9.5	-	5.6	636	040404	DR-22-SHS6-GN
1		8	7	11	-	5.0	608	040414	DR-22-SHS8-GN
1	26	10	8	13	98	7.6	6000	041601	DR-26-SHS10-GN
1	30	10	9	14.5	147	13.0	6200	041611	DR-30-SHS10-GN
1	32	12	10	17	176	17.6	6201	041613	DR-32-SHS12-GN
1	35	15	11	21	176	24.2	6202	041615	DR-35-SHS15-GN
1	40	17	12	21	205	26.3	6203	041617	DR-40-SHS17-GN
1	47	17	14	27	-	-	6303	-	DR-47-SHS17-GN
1		20	14	27	235	49.1	6204	041619	DR-47-SHS20-GN

DR-S-A

Riveting shaft

Model	D ⁰ _{-0.1}	d1 ⁰ _{-0.1}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.2}	d2×θ	Da	Load (N)	Weight (g)	Code	Part No.
2	16 ⁰ _{-0.3}	4	5 ^{±0.2}	0.5	3.5	3×90°	9.0	-	-	-	DRS-16-SAS0.5-GN
3	19	5	6	0.5	3.5	4×120°	8.2	-	6.1	000202	DR-19-SAS0.5-GN
3	22	5	7	0.5	3.5	4×120°	9.5	-	-	-	DR-22-SAS0.5-GN

DR-S-B

Screw shaft

Model	D ⁰ _{-0.1}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.5}	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
4	19	6	0.5	8	8.2	M6 P1.0	-	-	-	-	DR-19-SBS0.5-GN
5	22	7	0.5	8	9.5	M6 P1.0	-	-	8.0	020442	DR-22-SBS0.5-GN
5	26	7	0.5	8	9.5	M6 P1.0	-	-	-	-	DR-26-SBS0.5-GN
5	30	7	0.5	8	9.5	M6 P1.0	-	-	-	021014	DR-30-SBS0.5-GN
5	35	7	0.5	8	9.5	M6 P1.0	-	-	-	-	DR-35-SBS0.5-GN

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	D	Polyacetal resin
2	Outer race shape symbol	R	Flat
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ØD dimension shown in drawing)
5	Ball material symbol	S	Stainless steel
6	Inner race shape symbol	H A B	Inner ring Riveting shaft Screw shaft
7	Inner race material symbol	S	Stainless steel
8	Bore and clearance dimension for mounting	-	(Numerical Ød/C dimension shown in drawing)
9	Additional information	GN	No grease

DT series

RoHS compliant

H type A type B type

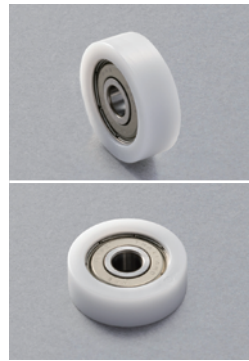
Plastic bearing (Metal bearing insert) | Flat

Inner ring

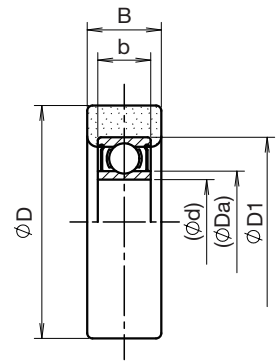
Riveting shaft

Screw shaft

Model 1 Inner ring (Inner race width: Concave)



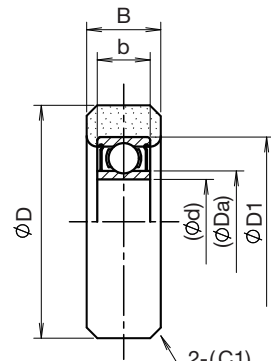
DT-H



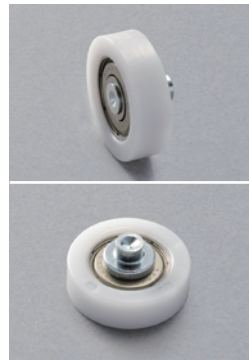
Model 2 Inner ring (Inner race width: Concave and Chamfered outer race)



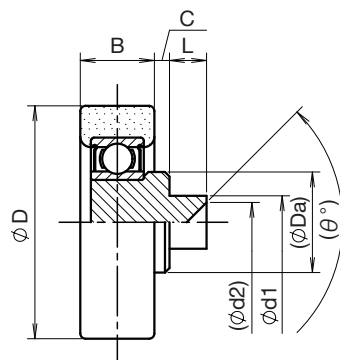
DT-H



Model 3 Riveting shaft



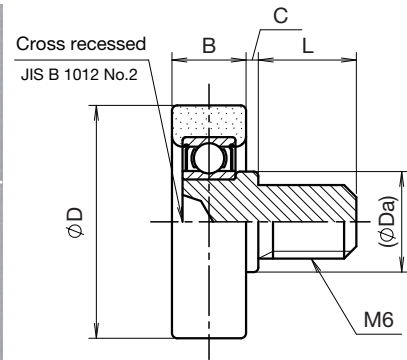
DT-A



Model 4 Screw shaft (Cross recessed head)



DT-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	DT	Polyacetal resin *Precision bearing insert
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H AH BH	Inner ring *Including omitted Inner ring with riveting shaft Inner ring with screw shaft
7	Inner race material symbol	Omitted	Bearing steel
8	Bore and clearance dimension for mounting	-	(Numerical $\phi d/C$ dimension shown in drawing)
9	Additional information	- CB -	The name of insert bearing Outer race color tone: black Numerical B/L dimension shown in drawing *Including omitted

Lineup

DT-H

Inner ring

Model	D ± 0.1	d	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	b	D1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	12	4	4.1	4	9	5.2	-	-	-	110000	DT-12-684ZZ
2	17 ± 0.15	4	6	4	12	5.6	98	-	-	110071	DT-17-604ZZ-CB
1	18	6	6	4	12	7.7	392	3.0	-	110200	DT-18-L1260ZZ
1	19	6	6	4	12	7.7	392	3.0	-	110201	DT-19-L1260ZZ
1	20	6	6	4	12	7.7	392	3.4	-	110202	DT-20-L1260ZZ
1	22	8	7	5	16	10.3	441	5.7	-	110070	DT-22-688ZZ
1	24 ± 0.15	6	8	6	19	9.2	490	9.7	-	110203	DT-24-H6-626ZZ
1	26 ± 0.15	6	8	6	19	9.2	490	10.8	-	110056	DT-26-H6-626ZZ
1	30 ± 0.15	8	9	7	22	10.8	686	16.1	-	110204	DT-30-608ZZ
1	35 ± 0.15	8	9	7	22	10.8	784	19.1	-	110205	DT-35-608ZZ

DT-A

Riveting shaft

Model	D ± 0.15	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
3	24	5	8	0.5	4	4 $\times$ 120°	9.0	490	-	110209	DT-24-AH0.5-4-626ZZ

DT-B

Screw shaft

Model	D ± 0.1	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
4	18	6	1	8	9	M6 P1.0	-	392	6.1	110100	DT-18-BH1-L1260ZZ
4	19	6	1	8	9	M6 P1.0	-	392	6.3	110101	DT-19-BH1-L1260ZZ
4	20	6	1	8	9	M6 P1.0	-	392	6.5	110102	DT-20-BH1-L1260ZZ
4	22	7	1	8	12	M6 P1.0	-	441	10.6	110103	DT-22-BH1-688ZZ
4	24 ± 0.15	8	1	8	9	M6 P1.0	-	490	13.2	110104	DT-24-BH1-626ZZ
4	26 ± 0.15	8 ± 0.2	0.5	8	10	M6 P1.0	-	490	14.0	110058	DT-26-BH0.5-626ZZ
4		8 ± 0.2	1	8	9	M6 P1.0	-	490	14.3	110105	DT-26-BH1-626ZZ
4		8 ± 0.2	2	9.5	10	M6 P1.0	-	490	15.4	110057	DT-26-BH2-9.5-626ZZ
4		8 ± 0.2	4	8	10	M6 P1.0	-	490	16.3	110060	DT-26-BH4-626ZZ
4		8 ± 0.2	6	14	10	M6 P1.0	-	490	18.7	110059	DT-26-BH6-14-626ZZ
4	30 ± 0.15	9	1	8	12	M6 P1.0	-	686	21.7	110106	DT-30-BH1-608ZZ
4	35 ± 0.15	9	1	8	12	M6 P1.0	-	686	24.8	110107	DT-35-BH1-608ZZ-9

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

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DL series

RoHS compliant

A type B type

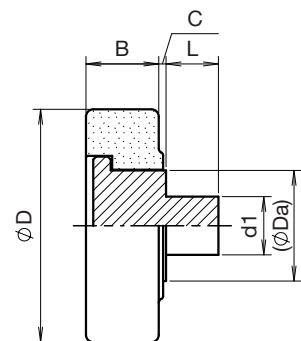
Plastic roller (With shaft) | Flat

Riveting shaft Screw shaft

Model 1 Riveting shaft (Without counterbore)



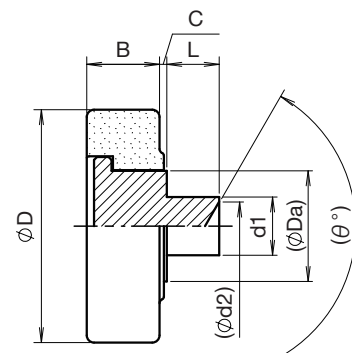
DL-A



Model 2 Riveting shaft



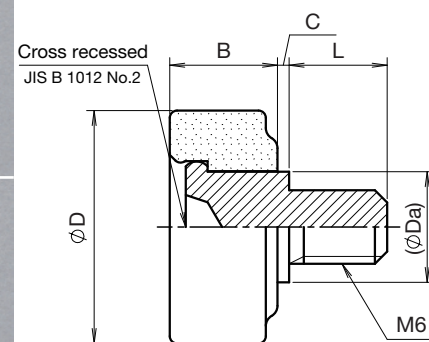
DL-A



Model 3 Screw shaft (Cross recessed head)



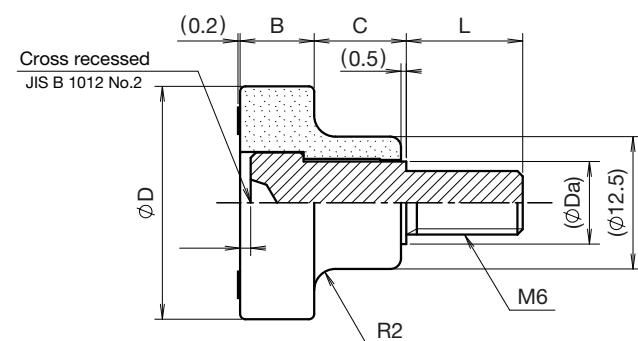
DL-B



Model 4 Screw shaft (Cross recessed head and long length type)



DL-B



Lineup

DL-A

Riveting shaft

(mm)

Model	D ⁰ _{-0.1}	d1 ⁰ _{-0.1}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.2}	d2×θ	Da	Weight (g)	Code	Part No.
1	16	4	5	0.5	3.6	-	7.6	3.3	240012	DL-16-A0.5
2		5 ⁰ _{-0.2}	6.6	1.6	3.5	4×95°	7.6	4.5	240010	DL-16-A1.6
2	19	5	6.6	1.6	3.5	4×100°	7.6	5.2	240021	DL-19-A1.6
2	22	5	6.6	1.6 ^{±0.5}	3.5	4×100°	7.6	5.9	240040	DL-22-A1.6
2	26	5	6.6	1.6	3.5	4×100°	7.6	7.4	240080	DL-26-A1.6

DL-B

Screw shaft

(mm)

Model	D ⁰ _{-0.1}	B ⁰ _{-0.2}	C ^{±0.4}	L ^{±0.5}	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
3	16	6.6	1.6	8	7.6	M6 P1.0	-	-	240112	DL-16-B1.6
3	19	6.6	1.6	8	7.6	M6 P1.0	-	6.0	240120	DL-19-B1.6
3	22	6.6	1.6	8	7.6	M6 P1.0	-	6.7	240140	DL-22-B1.6
4	22 ^{±0.2}	7 ^{±0.2}	8.7	11	7.8	M6 P1.0	-	-	240152	DL-22-B8.7
3	26	6.6	1.6	8	7.6	M6 P1.0	-	8.1	240180	DL-26-B1.6

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	DL	Plastic roller
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	-	-
4	Outer race outer diameter	-	(Numerical Ø D dimension shown in drawing)
5	Ball material symbol	-	-
6	Inner race shape symbol	A B	Riveting shaft Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)

E series

RoHS compliant

H type B type

Plastic bearing (Conductivity) | Flat

Inner ring

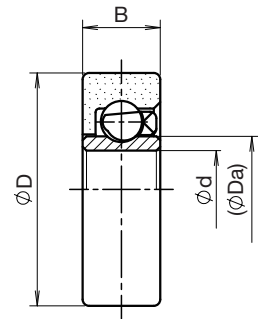
Screw shaft

Model 1

Inner ring



ER-H

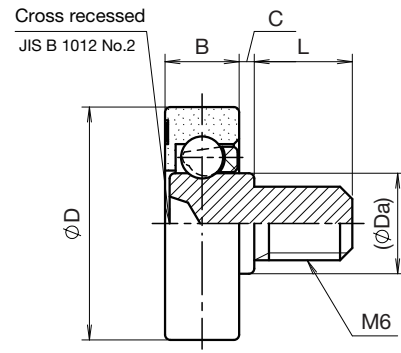


Model 2

Screw shaft (Cross recessed head)



ER-B

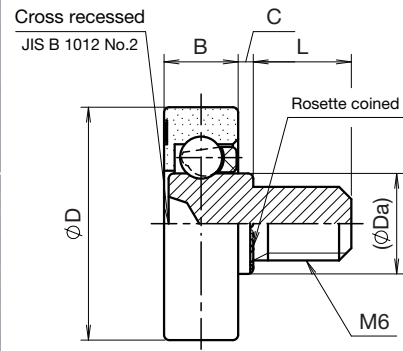


Model 3

Screw shaft (Cross recessed head and rosette coined)



ER-B

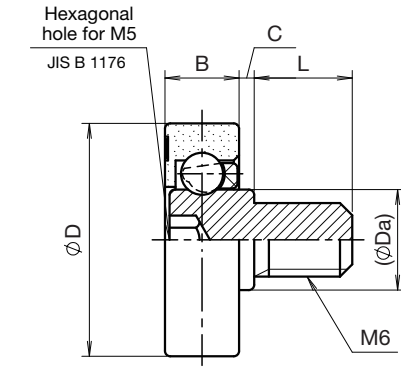


Model 4

Screw shaft (Hex socket screw)



ER-B-JH



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	E	Conductive resin
2	Outer race shape symbol	R	Flat
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H B	Inner ring Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical ϕ d/C dimension shown in drawing)
9	Additional information	MC M6×8 JH	Plating *Including omitted Screw specification × Screw length L dimension Hex socket screw

Lineup

E-H

Inner ring

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d1 $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19	6	6	8.2	-	-	626	-	ER-19-H6
1	22 ± 0.2	6	7	9.5	-	-	636	720122	ER-22-H6
1	26 $\begin{smallmatrix} +0.3 \\ -0.1 \end{smallmatrix}$	6	7 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	9.5	-	-	-	-	ER-26-H6
1	30	6	7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	9.5	49	8	-	-	ER-30-H6-MC
1	35	6	7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	9.5	49	9	-	-	ER-35-H6-MC
1	40 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	6	8	9.5	-	-	-	-	ER-40-H6-MC

E-B

Screw shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
2	19	6 ± 0.2	0.5	8	8.2	M6 P1.0	-	5.8	720104	ER-19-B0.5
3		6 ± 0.2	1	8	8.2	M6 P1.0	●	-	-	ER-19-B1-M6×8
3		6 ± 0.2	2	8	8.2	M6 P1.0	●	-	-	ER-19-B2-M6×8
2	22	7	0.5	8	9.5	M6 P1.0	-	-	-	ER-22-B0.5-M6×8
3		7	1	8	9.5	M6 P1.0	●	-	-	ER-22-B1-M6×8
3		7	2	8	9.5	M6 P1.0	●	9.3	720101	ER-22-B2
2	26 $\begin{smallmatrix} +0.3 \\ -0.1 \end{smallmatrix}$	7 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	0.5	8	9.5	M6 P1.0	-	9.2	720103	ER-26-B0.5
2	30	7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	0.5	8	9.5	M6 P1.0	-	-	-	ER-30-B0.5-M6×8

E-B-JH

Screw shaft (Hex socket screw)

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
4	22 ± 0.2	7	0.5	8	9.5	M6 P1.0	-	8.8	720115	ER-22-B0.5-JH
4	24	7	0.5	8	9.5	M6 P1.0	-	7.0	720116	ER-24-B0.5-JH
4	26	7 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	0.5	8	9.5	M6 P1.0	-	9.9	720117	ER-26-B0.5-JH
4	28	7	0.5	8	9.5	M6 P1.0	-	10.8	720118	ER-28-B0.5-JH
4	30	7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	0.5 $\begin{smallmatrix} +0.5 \\ -0.4 \end{smallmatrix}$	8	9.5	M6 P1.0	-	11.0	720119	ER-30-B0.5-JH
4	35	7 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	0.5	8	9.5	M6 P1.0	-	12.5	720120	ER-35-B0.5-JH

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Electrical resistance value (For reference only)

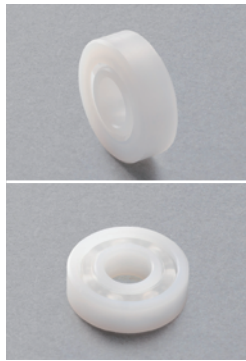
(k Ω)

Samples	No.1	No.2	No.3	No.4	Average value
Electrical resistance value	174.8	221.8	221.5	131.3	187.4

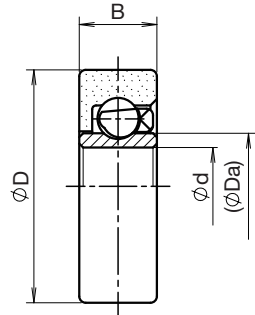
* The electrical resistance value between the outer and inner races is measured after applying a 49 N (5kgf) radial load and holding for 3 minutes.

Model 1

Inner ring



PE-H



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	PE	Polyethylene
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	P	Polyethylene
6	Inner race shape symbol	H	Inner ring
7	Inner race material symbol	P	Polyethylene
8	Bore and clearance dimension for mounting	-	(Numerical ϕ d dimension shown in drawing)
9	Additional information	GN	No grease *Omitted

Chemical resistance of plastic

Table 1: Acid and alkali resistance of plastics

	Polyacetal (POM)	Polyamide (PA)	Polyethylene (PE)	Polypropylene (PP)
Liquid ammonia		○	○	○
Calcium hydroxide	○	○	○	○
Potassium hydroxide	○	○	○	○
Sodium hydroxide	30%30°C	x	○	○
	30%RT	○	○	○
	10%RT	△	○	○
Oxalic acid	○	○	○	○
Acetic acid	50%RT	△	○	○
	38%RT	x	○	○
Hydrochloric acid	10%RT	○	○	○
	Fuming RT	x	x	x
Nitric acid	61%RT	x	△	△
	10%RT	△	○	○
	Fuming RT	x	x	△
Sulfuric acid	98%RT	x	△	△
	10%RT	△	○	○
Chromic acid	25%RT	x	○	△

Table 2: Solvent, oil, gas, and seawater resistance of plastics

	Polyacetal (POM)	Polyamide (PA)	Polyethylene (PE)	Polypropylene (PP)
Seawater	○	*	○	○
Sulfurous acid gas	○	○	○	○
Carbon dioxide gas	○	○	○	○
Ammonia	○	○	○	○
Petroleum	○	○	○	○
Benzene	△	○	△	△
Formaldehyde	○	△	○	○
Ethyl alcohol	○	○	○	○
Cresol	○	x	○	○

Note: Table 1 and 2 are provided for reference purposes only and do not guarantee performance or effectiveness.
Please conduct practical testing in advance to confirm suitability before use.

Lineup

PE-H

Inner ring

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d $\begin{smallmatrix} +0.12 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	26 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	10	8	14.5	2.8	6000	250100	PE-26-PHP10
1	28 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	12	8	17.0	-	6001	-	PE-28-PHP12
1	30	10	9	14.5	4.7	6200	250121	PE-30-PHP10
1	32	12 $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	10	17.0	5.2	6201	250124	PE-32-PHP12
1	32 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	15	9	19.8	-	6002	-	PE-32-PHP15
1	35	15 $\begin{smallmatrix} +0.15 \\ 0 \end{smallmatrix}$	11	21.0	6.1	6202	250127	PE-35-PHP15
1		17	10	21.0	-	6003	250111	PE-35-PHP17
1	40	17	12	21.0	-	6203	250130	PE-40-PHP17
1	42	20	12	27.0	17.8	6004	250140	PE-42-PHP20
1	47	20	14	30.5	17.9	6204	250132	PE-47-PHP20
1	52	20	15	30.2	-	6304	250137	PE-52-PHP20
1	52 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	25	15	30.2	-	6205	-	PE-52-PHP25
1	62 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	30 $\begin{smallmatrix} +0.15 \\ 0 \end{smallmatrix}$	16	47.0	-	6206	-	PE-62-PHP30
1		35 $\begin{smallmatrix} +0.15 \\ 0 \end{smallmatrix}$	14	47.0	-	6007	-	PE-62-PHP35
1	68 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	40	15	47.0	-	6008	-	PE-68-PHP40
1	72 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	35	17	47.0	-	6207	-	PE-72-PHP35
1	80 $\begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$	40	18	47.0	-	6208	-	PE-80-PHP40

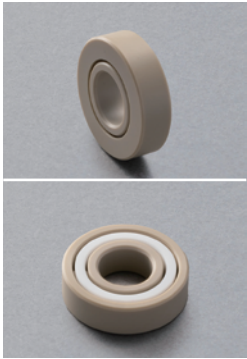
*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

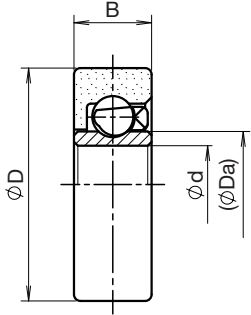
Materials by component

Outer race material	Inner race material	Retainer material	Ball material	Code	Part No.
PE	PE	PP	PE	250100	PE-26-PHP10
PE	PE	PP	PE	-	PE-28-PHP12
PE	PE	PP	PE	250121	PE-30-PHP10
PE	PE	PP	PE	250124	PE-32-PHP12
PE	PE	PTFE	PE	-	PE-32-PHP15
PE	PE	PP	PE	250127	PE-35-PHP15
PE	PE	PP	PE	250111	PE-35-PHP17
PE	PE	PP	PE	250130	PE-40-PHP17
PE	PE	PP	PE	250140	PE-42-PHP20
PE	PE	PP	PE	250132	PE-47-PHP20
PE	PE	PP	PE	250137	PE-52-PHP20
PE	PE	PP	PE	-	PE-52-PHP25
PE	PE	PE	PE	-	PE-62-PHP30
PE	PE	PE	PE	-	PE-62-PHP35
PE	PE	PE	PE	-	PE-68-PHP40
PE	PE	PE	PE	-	PE-72-PHP35
PE	PE	PE	PE	-	PE-80-PHP40

Model 1 Inner ring



PK-H



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	PK	PEEK
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical $\varnothing D$ dimension shown in drawing)
5	Ball material symbol	C	Ceramic
6	Inner race shape symbol	H	Inner ring
7	Inner race material symbol	P	Polyethylene
8	Bore and clearance dimension for mounting	-	(Numerical $\varnothing d$ dimension shown in drawing)
9	Additional information	GN	No grease *Omitted

Chemical resistance of plastic

Material		Chemical resistant resin					Other resins			
		PTFE	PCTFE	PVDF	PEEK	UHMWPE	PA	POM	PP	PVC (Hardness)
Heat resistant (°C) [Practical level]		130	80	80	130	60	70	50	50	35
Mechanical property		△	○	○	◎	○	○	◎	○	○
Electrical property		◎	○	○	◎	△	△	△	◎	△
Chemical resistance	Acid	◎	◎	○	○	○	×	×	○	○
	Alkali	◎	◎	○	◎	○	×	△	○	○
	Solvent	◎	○	○	◎	△	×	○	△	△

*Ultra-high molecular weight

Explanation of symbols

- ◎: Excellent Not entirely / Almost corroded.
- : Good Slightly corroded, but available for practical use under certain conditions.
- △: Acceptable Not recommended for practical use.
- ×: Unacceptable ... Not available

Note: Table 1 and 2 are provided for reference purposes only and do not guarantee performance or effectiveness.
Please conduct practical testing in advance to confirm suitability before use.

Lineup

PK-H

Inner ring

(mm)

Model	D ⁰ _{-0.1}	d ^{+0.12} ₀	B ⁰ _{-0.2}	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	28	12	8	16.7	98	5.7	6001	802012	PK-28-CHP12
1	30	10	9	14.5	98	7.6	6200	802013	PK-30-CHP10
1	32	12	10	18.8	98	9.3	6201	802017	PK-32-CHP12
1		15	9	19.8	98	7.5	6002	802014	PK-32-CHP15
1	35	15	11	20.3	98	10.5	6202	802019	PK-35-CHP15
1	42	20	12	26.0	98	17.6	6004	802015	PK-42-CHP20
1	47	20	14	26.0	-	-	6204	-	PK-47-CHP20
1	72	35	17	48.0	98	69.2	6207	802011	PK-72-CHP35
1	80 ⁰ _{-0.2}	40	18	58.5	-	-	6208	-	PK-80-CHP40

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

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Materials by component

Outer race material	Inner race material	Retainer material	Ball materia	Code	Part No.
PEEK	PEEK	PTFE	Al ₂ O ₃	802012	PK-28-CHP12
PEEK	PEEK	PTFE	Al ₂ O ₃	802013	PK-30-CHP10
PEEK	PEEK	PTFE	Al ₂ O ₃	802017	PK-32-CHP12
PEEK	PEEK	PTFE	Al ₂ O ₃	802014	PK-32-CHP15
PEEK	PEEK	PTFE	Al ₂ O ₃	802019	PK-35-CHP15
PEEK	PEEK	PTFE	Al ₂ O ₃	802015	PK-42-CHP20
PEEK	PEEK	PTFE	Al ₂ O ₃	-	PK-47-CHP20
PEEK	PEEK	PTFE	Si ₃ N ₄	802011	PK-72-CHP35
PEEK	PEEK	PTFE	Si ₃ N ₄	-	PK-80-CHP40

IN series

RoHS compliant

A type B type

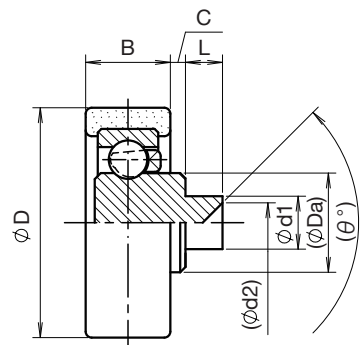
Plastic bearing (Heavy duty) | Flat

Riveting shaft Screw shaft

Model 1 Riveting shaft



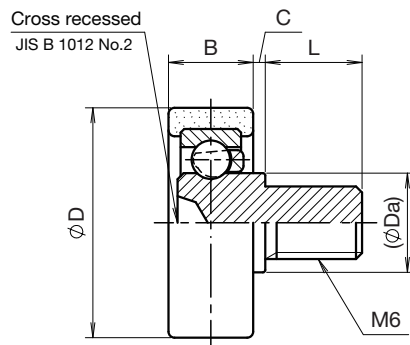
IN-A



Model 2 Screw shaft (Cross recessed head)



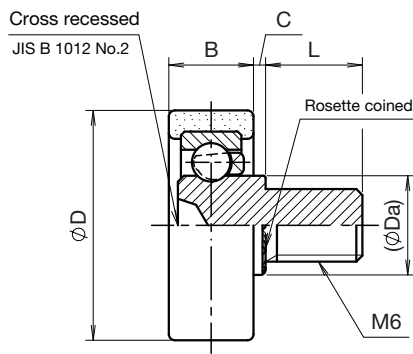
IN-B



Model 3 Screw shaft (Cross recessed head and rosette coined)



IN-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	IN	Polyamide (Carbon steel insert bearing)
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	A B	Riveting shaft Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8	Screw specification × Screw length L dimension

Lineup

IN-A

Riveting shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B ± 0.2	C ± 0.4	L ± 0.5	d2× θ	Da	Load (N)	Weight (g)	Code	Part No.
1	19	5	7	0.5	3.5	4×120°	8.2	49.0	-	-	IN-19-A0.5
1		5	7	1	3.5	4×120°	8.2	49.0	-	-	IN-19-A1
1		5	7	2	3.5	4×120°	8.2	49.0	-	-	IN-19-A2

IN-B

Screw shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	B ± 0.2	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	19	7	0.5	8	8.2	M6 P1.0	●	196.0	7.7	220010	IN-19-B0.5
2		7	1	8	8.2	M6 P1.0	-	196.0	8.0	220011	IN-19-B1
3		7	2	8	8.2	M6 P1.0	●	196.0	8.0	-	IN-19-B2-M6×8
2		7	3	8	8.2	M6 P1.0	-	196.0	8.9	220014	IN-19-B3

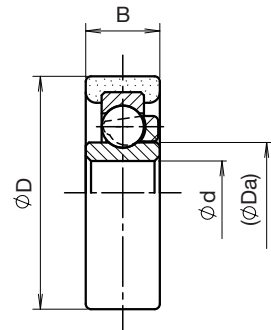
*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Model 1

Inner ring



ID-H

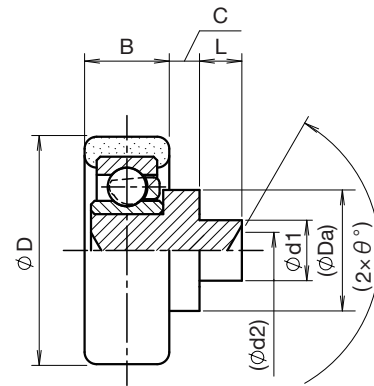


Model 2

Inner ring (Countersink)



ID-A

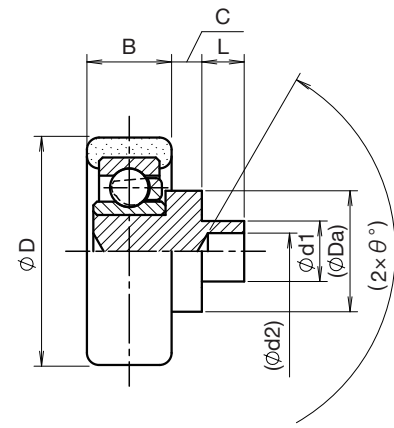


Model 3

Inner ring (Counterbore)



ID-A

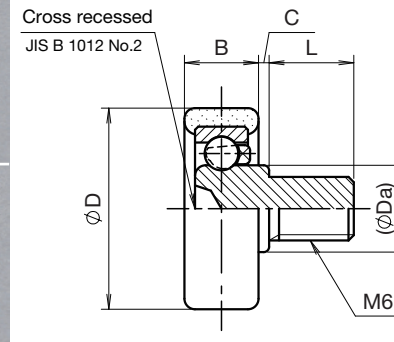


Model 4

Screw shaft (Cross recessed head)



ID-B

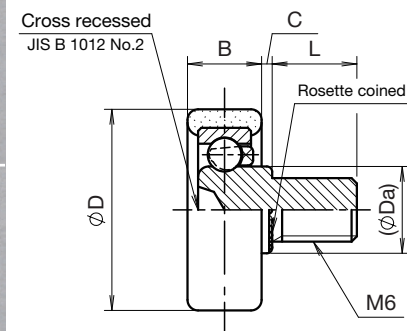


Model 5

Screw shaft (Cross recessed head and rosette coined)



ID-B



Lineup

ID-H

Inner ring

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B ± 0.2	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	19 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	6	7	8.2	343	5.1	626	221301	ID-19-H6
1	22	6	7	9.5	343	7.5	636	221303	ID-22-H6

ID-A

Riveting shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B ± 0.2	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
2	19 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	5	7	0.5	3.5	4 $\times$ 120°	9.0	343	-	-	ID-19-AH0.5
2		5	7	1	3.5	4 $\times$ 120°	9.0	343	-	-	ID-19-AH1
3		5	7	2.5	3.5	4 $\times$ 120°	10.0	343	8.5	221102	ID-19-AH2.5
2	22	5	7	1	4	4 $\times$ 120°	9.0	343	-	-	ID-22-AH1
2		5	7	2	4	4 $\times$ 120°	9.0	343	-	-	ID-22-AH2

ID-B

Screw shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B ± 0.2	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
5	19 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	7	0.5	8	8.2	M6 P1.0	●	343	-	-	ID-19-B0.5-M6 $\times$ 8
4		7	1	8	8.2	M6 P1.0	-	343	-	221207	ID-19-B1
4	22	7	0.5	8	9.5	M6 P1.0	-	343	-	-	ID-22-B0.5-M6 $\times$ 8
5		7	1	8	9.5	M6 P1.0	●	343	-	-	ID-22-B1-M6 $\times$ 8
4		7	2	8	9.5	M6 P1.0	-	343	-	-	ID-22-B2-M6 $\times$ 8

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Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

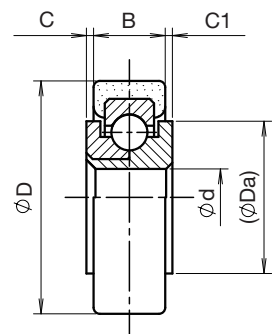
Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	ID	Polyacetal (Carbon steel insert bearing)
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H AH B	Inner ring Inner ring with riveting shaft Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical ϕ d/C dimension shown in drawing)
9	Additional information	M6 $\times$ 8	Screw specification $\times$ Screw length L dimension

Model 1 Inner ring (Inner race width: Wide)



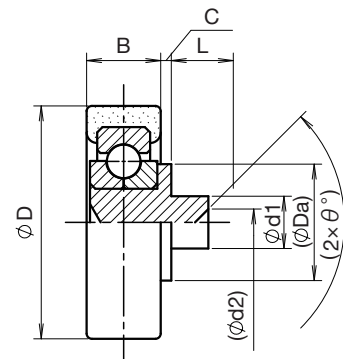
IDS-H



Model 2 Inner ring (Countersink)



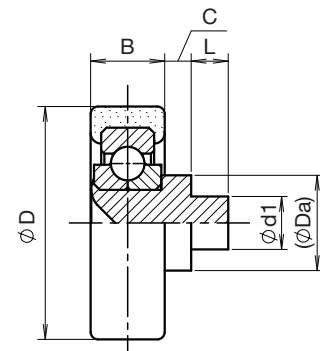
IDS-A



Model 3 Riveting shaft



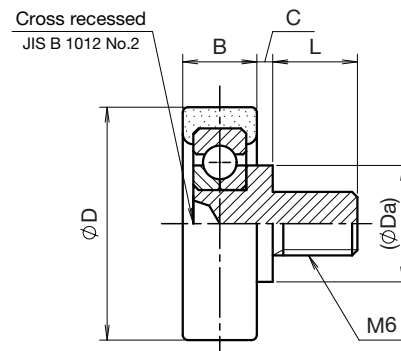
IDS-A



Model 4 Screw shaft (Cross recessed head)



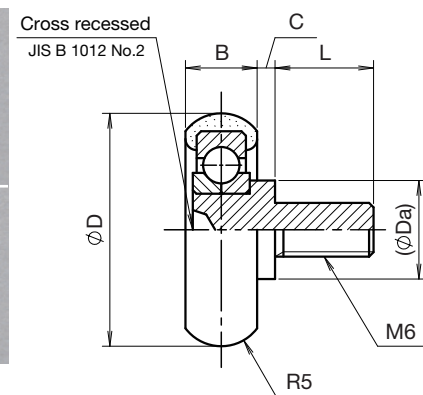
IDS-B



Model 5 Screw shaft (Cross recessed head and outer race convex round)



IDS-B



Lineup

IDS-H

Inner ring (Inner race width: Wide)

(mm)

Model	D ± 0.1	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B ± 0.2	C	C1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	26	6.35	8	0.8	0.8	17	294	19.1	-	221901	IDS-26-H6.35W0.8
1	30 ± 0.2	6.35 $\begin{smallmatrix} +0.13 \\ 0 \end{smallmatrix}$	9	0.3	0.3	17	294	-	-	221950	IDS-30-H6.35W0.3-NC2
1	35	6.35 $\begin{smallmatrix} +0.13 \\ 0 \end{smallmatrix}$	9	0.26	0.26	17	294	-	-	221954	IDS-35-H6.35W0.26

IDS-A

Riveting shaft

(mm)

Model	D ± 0.1	d1 ± 0.2	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
2	22 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	5	7	1	3.5	2.5 $\times 90^\circ$	11.0	392	12.1	221400	IDS-22-A1
3		5	7	2.5	3.5	-	9.0	392	12.4	221401	IDS-22-A2.5
2	26	6	8	1.5	3.5	5.5 $\times 90^\circ$	11.0	588	17.8	221450	IDS-26-A1.5

IDS-B

Screw shaft

(mm)

Model	D ± 0.1	B ± 0.2	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
4	22	7	1.5	4	11	M6 P1.0	-	392	-	221530	IDS-22-B1.5-4
4		7	1.5	7	11	M6 P1.0	-	392	-	221503	IDS-22-B1.5-7
4		7	1.5	8	11	M6 P1.0	-	392	12.7	221504	IDS-22-B1.5-8
4		7	1.5	11	11	M6 P1.0	-	392	10.9	221501	IDS-22-B1.5-11
4		7	4.0	7	9.5	M6 P1.0	-	392	14.1	221505	IDS-22-B4-7
4		7	11.0	8	9.5	M6 P1.0	-	392	18.0	221518	IDS-22-B11
4	26	8	2	11	11	M6 P1.0	-	588	19.6	221600	IDS-26-B2-11
4		8	5 ± 0.5	9	9.5	M6 P1.0	-	588	20.6	221603	IDS-26-B5-9
4		8	8	11	9.5	M6 P1.0	-	588	-	221607	IDS-26-B8-11
5	26 $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	8	2	11	11	M6 P1.0	-	588	19.4	221700	IDS-26-B2-11
4	30	9	2	11	11	M6 P1.0	-	588	21.9	221650	IDS-30-B2-11
5	30 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	9	2	11	11	M6 P1.0	-	588	-	221713	IDS-30-B2-11

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

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Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	ID	Polyacetal (Carbon steel insert bearing)
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	S	Full ball
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A B	Inner ring Riveting shaft Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	- W	(Numerical $\phi d/C$ dimension shown in drawing) Inner race width (Wide type) & C/C1 dimension
9	Additional information	NC2 -	Inner race chamfer (C2) *Side only Screw length L dimension *Screw shaft only

A series

RoHS compliant

H type A type

Metal bearing (Heavy duty) | Flat and U-groove

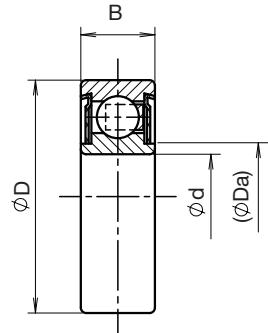
Inner ring

Riveting shaft

Model 1 Inner ring (Retainer)



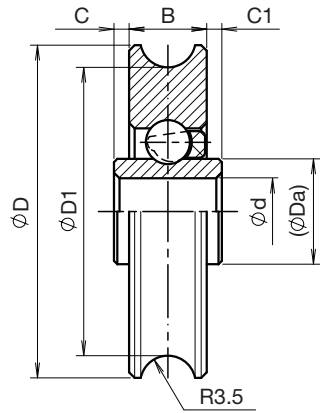
A-H



Model 2 Inner ring (Inner race width: Wide and outer race U-groove)



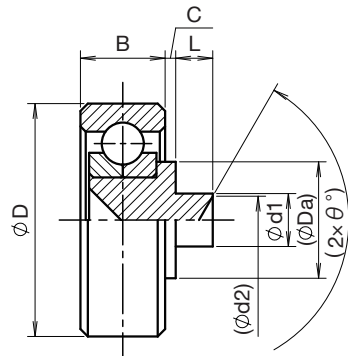
A-H-W



Model 3 Riveting shaft



A-A



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	A	Carbon steel (Plating)
2	Outer race shape symbol	(R) U	Flat *Omitted U-groove
3	Retainer or full ball type	Omitted S	Retainer (Polypropylene) Full ball
4	Outer race outer diameter	-	(Numerical ϕ D dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H A	Inner ring Riveting shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical ϕ d/C dimension shown in drawing)
9	Additional information	2/5 3.5R	Identification number Numerical R dimension shown in drawing

Lineup

A-H

Inner ring

(mm)

Model	D ± 0.1	d $+0.1$	B ± 0.2	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	22	8	7	-	784	10.4	608	800000	A-608ZZ-5

A-H-W

Inner ring (Inner race width: Wide)

(mm)

Model	D ± 0.2	D1 ± 0.1	d $+0.1$	B ± 0.1	C	C1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	32	27	6	8	0.5	0.5	9.5	-	-	-	230501	AU-32-H6-3.5R

A-A

Riveting shaft

(mm)

Model	D ± 0.1	d1 $0 -0.1$	B ± 0.2	C ± 0.4	L ± 0.2	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
3	19	5	6	0.5	5	4.5 $\times$ 120°	9.5	-	-	231010	AS-19-A0.5-5
3		5	6	1	5	4.5 $\times$ 120°	9.5	-	-	-	AS-19-A1
3		5	6	2	5	4.5 $\times$ 120°	9.5	-	-	-	AS-19-A2
3	22	5	8	0.5	3.5	4.5 $\times$ 120°	11.0	-	-	-	AS-22-A0.5
3		5	8	1	3.5	4 $\times$ 120°	11.0	-	-	-	AS-22-A1
3		5	8	2	3.5	4 $\times$ 120°	11.0	-	-	-	AS-22-A2

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

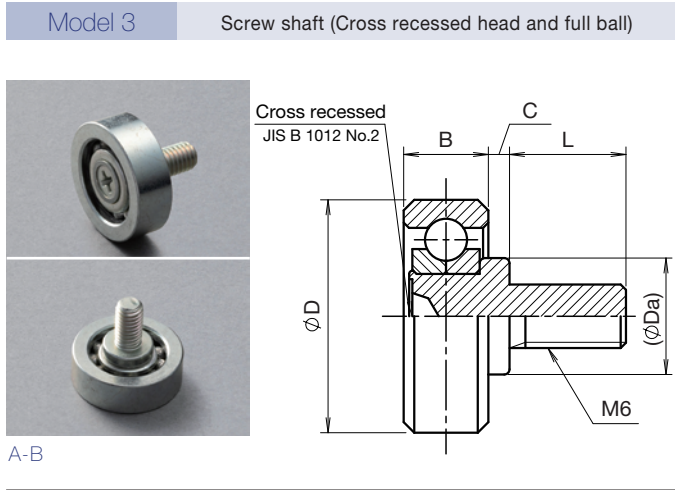
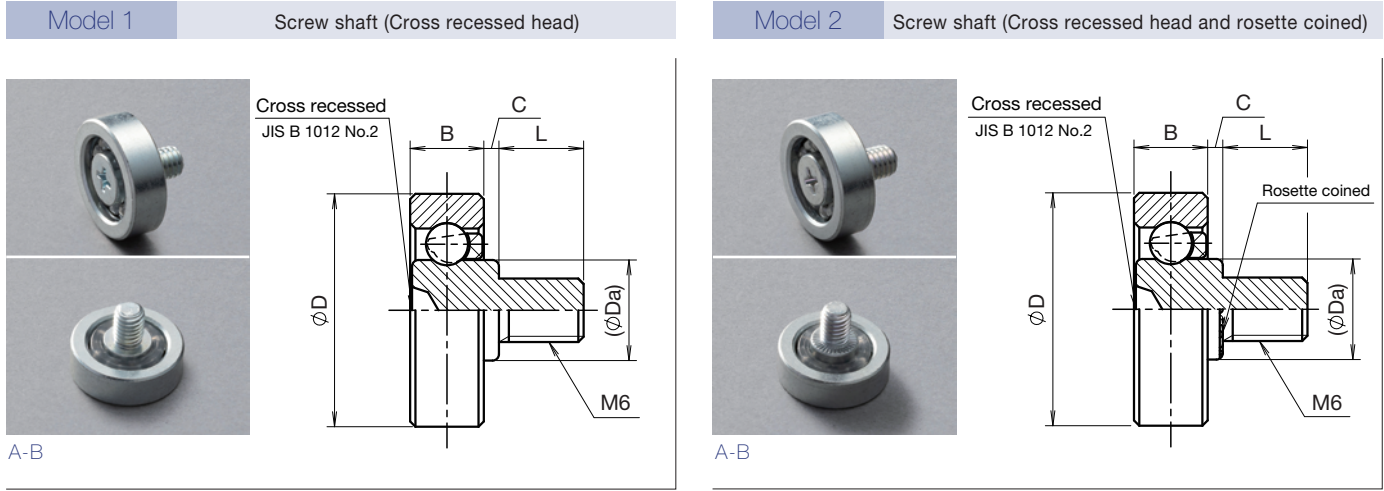
*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

A series

B type

RoHS compliant

Metal bearing (Heavy duty) | FlatScrew shaft



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	A	Carbon steel (Plating)
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted S	Retainer (Polypropylene) Full ball
4	Outer race outer diameter	-	(Numerical $\varnothing D$ dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	B	Screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical C dimension shown in drawing)
9	Additional information	M6×8 11	Screw specification × Screw length L dimension Numerical L dimension shown in drawing *Including omitted

Lineup

A-B

Screw shaft

(mm)

Model	D ± 0.1	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
1	19	6 ± 0.2	0.5	8	8.2	M6 P1.0	-	490	-	-	A-19-B0.5-M6×8
2		6 ± 0.2	1	8	8.2	M6 P1.0	●	490	11.9	230203	A-19-B1
2		6 ± 0.2	2	8	8.2	M6 P1.0	●	490	12.3	230204	A-19-B2
2		6 ± 0.2	3	8	8.2	M6 P1.0	●	490	-	-	A-19-B3-M6×8
1	22 ± 0.2	7	0.5	8	9.5	M6 P1.0	-	686	16.2	230250	A-22-B0.5
2		7	1	8	9.5	M6 P1.0	●	686	-	-	A-22-B1-M6×8
2		7	2	8	9.5	M6 P1.0	●	686	-	230252	A-22-B2
3		8	2	11	11	M6 P1.0	-	686	20.6	231204	AS-22-B2-11
2		7	3	8	9.5	M6 P1.0	●	686	-	-	A-22-B3-M6×8
2		7	4	8	9.5	M6 P1.0	●	686	-	-	A-22-B4-M6×8
2		7	5	8	9.5	M6 P1.0	●	686	-	-	A-22-B5-M6×8
2		7	6	8	9.5	M6 P1.0	●	686	-	020253	A-22-B6
3	24	8 ± 0.2	2	11	11	M6 P1.0	-	686	23.8	231253	AS-24-B2-11
3	26	8	2	11	11	M6 P1.0	-	686	30.0	231300	AS-26-B2-11

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

S series

RoHS compliant

H type B type

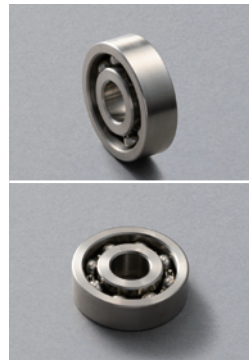
Stainless steel bearing (Water resistant) | Flat

Inner ring

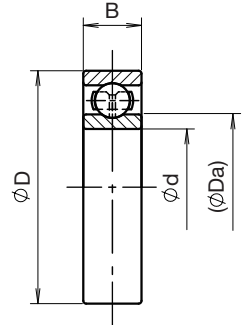
Screw shaft

Model 1

Inner ring

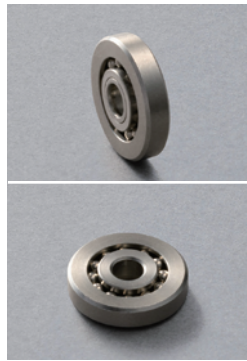


S-H

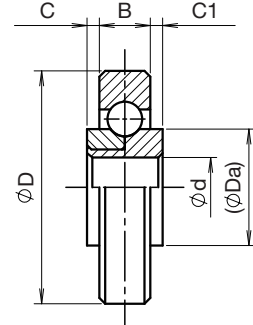


Model 2

Inner ring (Inner race width: Wide)

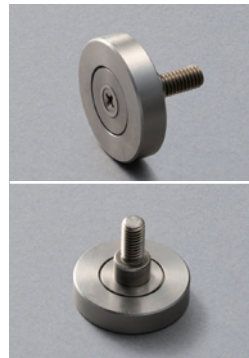


S-H-W

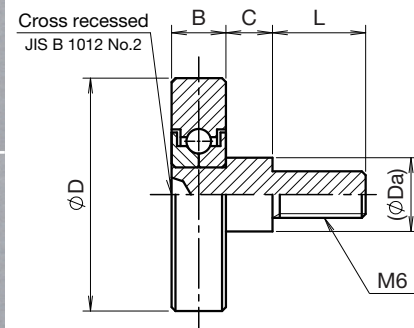


Model 3

Screw shaft (Cross recessed head)



S-B

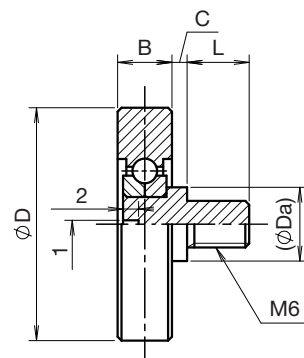


Model 4

Screw shaft (Slotted head)



S-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	S	Stainless steel
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Polypropylene)
		S	Full ball
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	S	Stainless ball
6	Inner race shape symbol	H	Inner ring
		B	Screw shaft
7	Inner race material symbol	S	Stainless steel
8	Bore and clearance dimension for mounting	-	(Numerical $\phi d/C$ dimension shown in drawing)
		W	Inner race width (Wide type) & C/C1 dimension
9	Additional information	GN	No grease
		304	Main materials listed *Including omitted
		12	Numerical L dimension shown in drawing *Including omitted

Lineup

S-H

Inner ring (No grease)

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.03 \end{smallmatrix}$	d $\begin{smallmatrix} +0.05 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	16	8	4	10	3.0	688	233002	S-16-SHS8-304-GN
1	22	10	6	14	9.8	6900	233007	S-22-SHS10-304-GN
1		8	7	12	11.7	608	233003	S-22-SHS8-304-GN
1	24	12	6	16	17.1	6901	233008	S-24-SHS12-304-GN
1	26	9	8	14.7	17.5	629	233009	S-26-SHS9-304-GN
1	28	12	8	17	21.3	6001	233000	S-28-SHS12-304-GN
1		15	7	19	16.1	6902	233001	S-28-SHS15-304-GN
1	30	10	9	17	31.5	6200	233005	S-30-SHS10-304-GN
1	32	12	10	18	36.8	6201	233006	S-32-SHS12-304-GN

S-H-W

Inner ring (Inner race width: Wide and no grease)

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B ± 0.2	C	C1	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
2	16	4.1	3.5	0.25	0.25	8	-	-	233017	SS-16-SHS4.1W0.25-GN

S-B

Screw shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Weight (g)	Code	Part No.
3	22	7 ± 0.2	2	8	9.5	M6 P1.0	-	20.0	232050	SS-22-SBS2
4	30	7	0.5	8	9.5	M6 P1.0	-	35.4	232060	SS-30-SBS0.5
3	30 ± 0.1		6	12			-	41.0	232055	SS-30-SBS6-12

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

S-H Materials by component

Outer race material	Inner race material	Retainer material	Ball materia	Code	Part No.
SUS303	SUS303	-	SUS304	233017	SS-16-SHS4.1W0.25-GN
SUS304	SUS304	SUS304	SUS304	233002	S-16-SHS8-304-GN
SUS304	SUS304	SUS304	SUS304	233007	S-22-SHS10-304-GN
SUS304	SUS304	SUS304	SUS304	233003	S-22-SHS8-304-GN
SUS304	SUS304	SUS304	SUS304	233008	S-24-SHS12-304-GN
SUS304	SUS304	SUS304	SUS304	233009	S-26-SHS9-304-GN
SUS304	SUS304	SUS304	SUS304	233000	S-28-SHS12-304-GN
SUS304	SUS304	SUS304	SUS304	233001	S-28-SHS15-304-GN
SUS304	SUS304	SUS304	SUS304	233005	S-30-SHS10-304-GN
SUS304	SUS304	SUS304	SUS304	233006	S-32-SHS12-304-GN

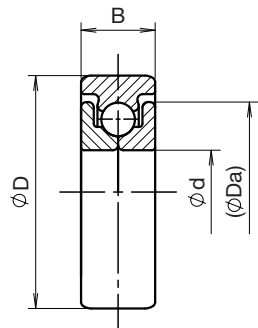
S-B Materials by component

Outer race material	Inner race material	Retainer material	Ball materia	Code	Part No.
SUS303	SUS303	SUSXM7	SUS304	232050	SS-22-SBS2
SUS303	SUS303	SUS303	SUS304	232060	SS-30-SBS0.5
SUS303	SUS303	SUSXM7	SUS440C	232055	SS-30-SBS6-12

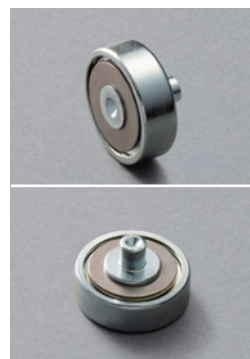
Model 1 Inner ring



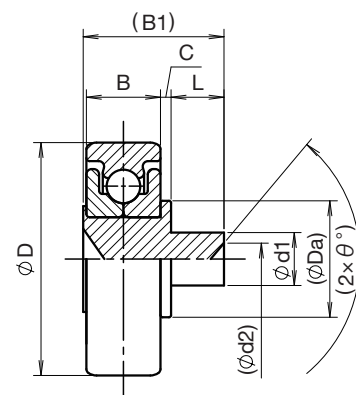
TAS-H



Model 2 Riveting shaft



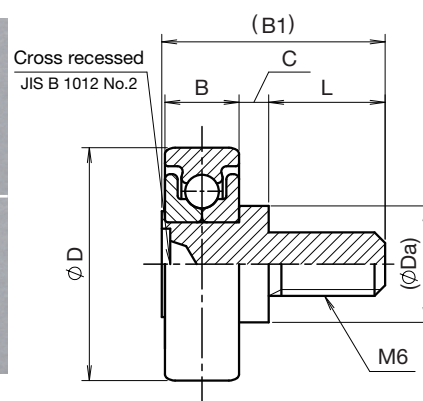
TAS-A



Model 3 Screw shaft (Cross recessed head)



TAS-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	TA	Carbon steel (Plating)
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	S	Full ball
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H	Inner ring
		AH	Inner ring with riveting shaft
		BH	Inner ring with screw shaft
7	Inner race material symbol	Omitted	Carbon steel (Plating)
8	Bore and clearance dimension for mounting	-	(Numerical $\phi d/C$ dimension shown in drawing)
9	Additional information	5/11	Numerical L dimension shown in drawing
		MU	Plating *Inner race H/A type omitted

Lineup

TAS-H

Inner ring

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	22	8	7	17	392	12.0	608	231502	TAS-22-H8

TAS-A

Riveting shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	d1 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	B1	C ± 0.4	L $\begin{smallmatrix} +0.3 \\ 0 \end{smallmatrix}$	d2 $\times\theta$	Da	Load (N)	Weight (g)	Code	Part No.
2	22	5	7	13.3	1	5	3 $\times$ 100°	11.0	392	18.8	231501	TAS-22-AH1-5

TAS-B

Screw shaft

(mm)

Model	D $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$	B1	C ± 0.4	L ± 0.5	Da	Screw specification	Rosette coined	Load (N)	Weight (g)	Code	Part No.
3	22	7	20.8	2.8	11	11.0	M6 P1.0	-	392	-	231503	TAS-22-BH2.8-11-MU

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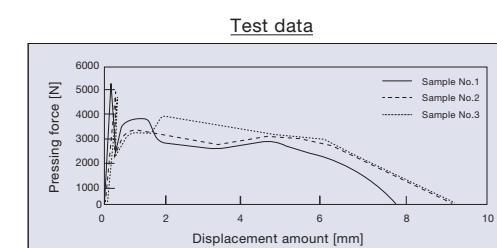
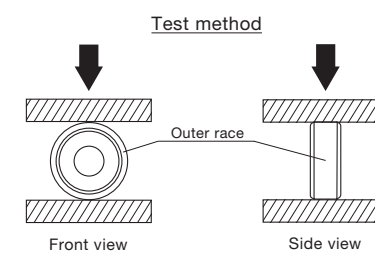
*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

Toughness test

Compression test 1

Outer race is clamped and compression is applied to measure displacement.

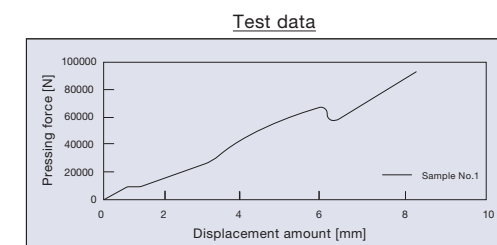
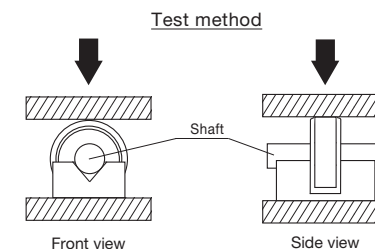
TAS series bearings are approximately 1.5 times stronger than the strength of 608ZZ JIS bearings of the same size (Approximately 3430N).



Compression test 2

Apply pressure shaft and measure displacement amount.

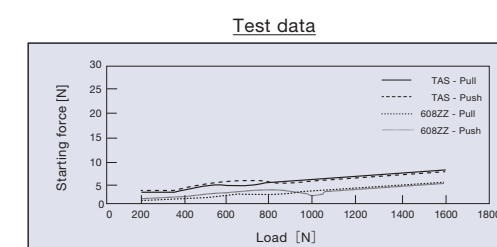
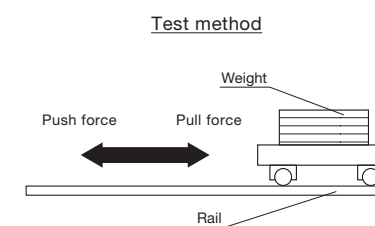
TAS series bearings are approximately 23 times stronger than the strength of 608ZZ JIS bearings of the same size (Approximately 3430N).



Starting torque test

Starting torque is measured by moving bearing back and forth with weight applied.

There is no significant difference in starting torque of TAS series bearings compared to 608ZZ JIS bearings of the same size.



*Bearing strength values for 608ZZ JIS shown in toughness test are in-house measured reference data provided for comparison only.

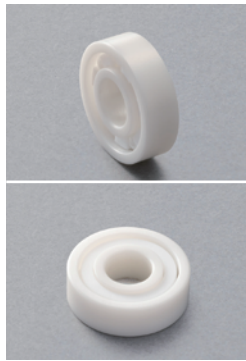
C series

RoHS compliant

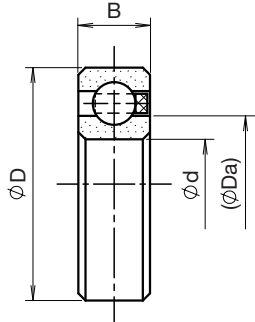
H type

Ceramic bearing (Chemical resistance and non-magnetism and heat resistant) | Flat Inner ring

Model 1 Inner ring



PE-H



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	C	Ceramic
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (PTFE)
4	Outer race outer diameter	-	(Numerical $\varnothing D$ dimension shown in drawing)
5	Ball material symbol	C	Ceramic ball
6	Inner race shape symbol	H	Inner ring
7	Inner race material symbol	C	Ceramic
8	Bore and clearance dimension for mounting	-	(Numerical $\varnothing d$ dimension shown in drawing)
9	Additional information	(GN)	No grease *omitted

Corrosion resistance of parts

Selection guideline

Material	Silicon nitride Si3N4	Zirconia ZrO2	Polytetrafluoroethylene PTFE
Liquid			
Salt water	◎	◎	◎
Potassium hydroxide	△	△	◎
Sodium hydroxide	△	○	◎
Hydrofluoric acid	△	▲	◎
Phosphoric acid	○	○	◎
Sulfuric acid	○	○	◎
Hydrochloric acid	△	○	◎
Nitric acid	○	○	◎

Explanation of symbols

- ◎ : Not be corroded
- : Almost not be corroded
- △ : Slightly be corroded
- ▲ : May be corroded

Note: Table 1 and 2 are provided for reference purposes only and do not guarantee performance or effectiveness.
Please conduct practical testing in advance to confirm suitability before use.

Lineup

C-H	Inner ring		(mm)					
Model	D $\begin{smallmatrix} 0 \\ -0.02 \end{smallmatrix}$	d1 $\begin{smallmatrix} +0.02 \\ 0 \end{smallmatrix}$	B $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$	Da	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	22	10	6 $\begin{smallmatrix} 0 \\ -0.12 \end{smallmatrix}$	13.5	-	6900	-	C-22-CHC10
1	26	10	8	14.6	17.6	6000	250414	C-26-CHC10
1	28	12	8	17.4	20.0	6001	250415	C-28-CHC12
1	30	10	9	17.0	29.0	6200	250416	C-30-CHC10
1	32	12	10	18.3	28.5	6201	250405	C-32-CHC12
1		15	9	20.3	17.2	6002	250412	C-32-CHC15
1	35	15	11	21.2	43.1	6202	250406	C-35-CHC15
1		17	10	22.8	35.7	6003	250417	C-35-CHC17
1	40	17	12	24.6	55.4	6203	250418	C-40-CHC17
1	42	20	12	26.9	47.6	6004	250404	C-42-CHC20
1		30	7	33.2	18.1	6806	250402	C-42-CHC30
1	47	20	14	29.5	62.3	6204	250411	C-47-CHC20
1		25	12	31.8	85.8	6005	250403	C-47-CHC25
1	52	25	15	34.0	100.3	6205	250407	C-52-CHC25
1	55	30	13	38.4	90.2	6006	250401	C-55-CHC30
1	62	30	16	40.8	179.1	6206	250419	C-62-CHC30
1		35	14	43.3	145.3	6007	250420	C-62-CHC35
1	68	40	15	48.8	150.5	6008	250400	C-68-CHC40
1	72	35	17	46.8	224.4	6207	250408	C-72-CHC35
1	80	40	18	52.6	312.2	6208	250413	C-80-CHC40
1	85 $\begin{smallmatrix} 0 \\ -0.03 \end{smallmatrix}$	45 $\begin{smallmatrix} +0.03 \\ 0 \end{smallmatrix}$	19	58.2	200.0	6209	250410	C-85-CHC45

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

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Materials by component

Outer race material	Inner race material	Retainer material	Ball material	Code	Part No.
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	-	C-22-CHC10
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250414	C-26-CHC10
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250415	C-28-CHC12
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250416	C-30-CHC10
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250405	C-32-CHC12
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250412	C-32-CHC15
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250406	C-35-CHC15
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250417	C-35-CHC17
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250418	C-40-CHC17
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250404	C-42-CHC20
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250402	C-42-CHC30
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250411	C-47-CHC20
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250403	C-47-CHC25
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250407	C-52-CHC25
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250401	C-55-CHC30
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250419	C-62-CHC30
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250420	C-62-CHC35
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250400	C-68-CHC40
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250408	C-72-CHC35
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250413	C-80-CHC40
ZrO ₂	ZrO ₂	PTFE	ZrO ₂	250410	C-85-CHC45

UT series

RoHS compliant

H type B type

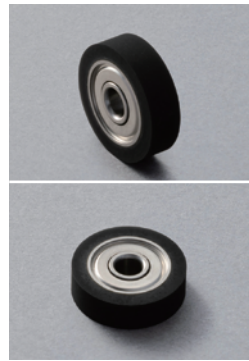
Rubber coated bearing (Metal bearing insert) | Flat

Inner ring

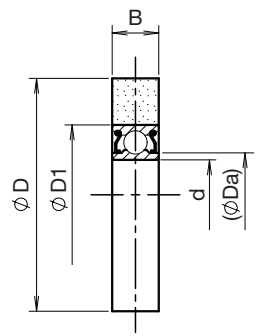
Screw shaft

Model 1

Inner ring



UT-H

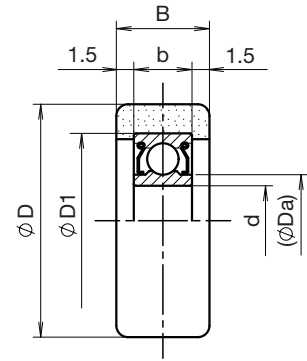


Model 2

Inner ring (Inner race width: Concave)



UT-H

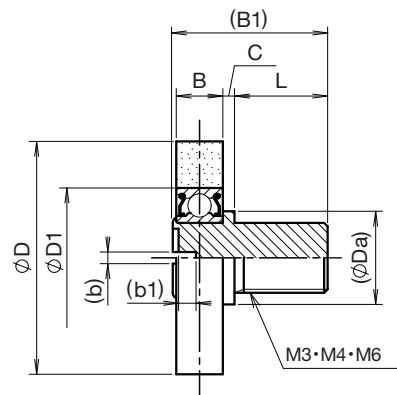


Model 3

Screw shaft (Slotted head)



UT-B



Product information

Feature classification

Outer race type

Flat	Convex round	U-groove
V-groove	Concave groove	One-sided flange
Plastic	Stainless steel	Steel
Ceramic	Rubber	

Inner race type

Inner ring	Inner race width wide
Screw shaft	Riveting shaft

Feature

Water resistant	Heat resistant	Chemical resistant
Antistatic	Non magnetic	High speed rotation
High load	Toughness	Low noise

Components of product name

No	Item	Symbol	Meaning
1	Outer race material symbol	UT	Polyurethane resin
2	Outer race shape symbol	(R)	Flat *Omitted
3	Retainer or full ball type	Omitted	Retainer (Double-sealed)
4	Outer race outer diameter	-	(Numerical ϕD dimension shown in drawing)
5	Ball material symbol	Omitted S	Carbon steel ball Stainless ball
6	Inner race shape symbol	H B	Inner ring *Including omitted Screw shaft
7	Inner race material symbol	Omitted S	Bearing Steel Stainless steel
8	Bore and clearance dimension for mounting	-	(Numerical $\phi d/C$ dimension shown in drawing)
9	Additional information	M_x_ A	Screw specification $\times$ Screw length L dimension Identification symbol

Lineup

UT-H

Inner ring

Model	D ± 0.1	d	B ± 0.2	b	D1	Da	Load (N)	Weight (g)	ISO (JIS) equivalent	Code	Part No.
1	11	3	4	-	8	4.2	49.0	1.0	-	112000	UT-11-SHS3
1	12	3	4	-	8	4.2	49.0	1.1	-	112001	UT-12-SHS3
1	13	3	4	-	8	4.2	49.0	1.2	-	112002	UT-13-SHS3
1	14	3	4	-	8	4.2	49.0	1.3	-	112003	UT-14-SHS3
1	15	4	5	-	13	5.6	98.0	-	-	112004	UT-15-SHS4
1	16	4	5	-	13	5.6	98.0	3.4	-	112005	UT-16-SHS4
1	17	4	5	-	13	5.6	98.0	3.5	-	112006	UT-17-SHS4
1	18	6	4	-	12	7.6	78.4	2.2	-	112007	UT-18-SHS6
1	19	6	4	-	12	7.6	78.4	2.4	-	112008	UT-19-SHS6
1	20	6	4	-	12	7.6	78.4	2.5	-	112009	UT-20-SHS6
2	20 $\begin{smallmatrix} 0 \\ -0.3 \end{smallmatrix}$	6	8	5	15	7.6	29.4	4.9	-	110032	UT-20-696ZZ
1	21	6	4	-	12	7.6	78.4	2.6	-	112010	UT-21-SHS6
1	22	6	4	-	12	7.6	78.4	2.8	-	112011	UT-22-SHS6

UT-B

Screw shaft

Model	D ± 0.1	D1	B ± 0.2	B1	C ± 0.4	L ± 0.2	b	b1	Da	Screw specification	Load (N)	Weight (g)	Code	Part No.
3	11	8	4	9.2	1	4	0.8	1.2	5	M3 P0.5	49.0	-	-	UT-11-SBS1-M3 $\times$ 4
3	12	8	4	9.2	1	4	0.8	1.2	5	M3 P0.5	49.0	-	-	UT-12-SBS1-M3 $\times$ 4
3	13	8	4	9.2	1	4	0.8	1.2	5	M3 P0.5	49.0	-	-	UT-13-SBS1-M3 $\times$ 4
3	14	8	4	9.2	1	4	0.8	1.2	5	M3 P0.5	49.0	-	-	UT-14-SBS1-M3 $\times$ 4
3	15	13	5	11.2	1	5	0.8	1	6	M4 P0.7	98.0	-	-	UT-15-SBS1-M4 $\times$ 5
3	16	13	5	11.2	1	5	0.8	1	6	M4 P0.7	98.0	2.2	112017	UT-16-SBS1-A
3	17	13	5	11.2	1	5	0.8	1	6	M4 P0.7	98.0	-	-	UT-17-SBS1-M4 $\times$ 5
3	18	12	4	13.3	1	8	1	1.5	8	M6 P1.0	78.4	-	-	UT-18-SBS1-M6 $\times$ 8
3	19	12	4	13.3	1	8	1	1.5	8	M6 P1.0	78.4	-	-	UT-19-SBS1-M6 $\times$ 8
3	20	12	4	13.3	1	8	1	1.5	8	M6 P1.0	78.4	-	112016	UT-20-SBS1-A
3	21	12	4	13.3	1	8	1	1.5	8	M6 P1.0	78.4	-	-	UT-21-SBS1-M6 $\times$ 8
3	22	12	4	13.3	1	8	1	1.5	8	M6 P1.0	78.4	-	-	UT-22-SBS1-M6 $\times$ 8

*Polyurethane rubber material

Model 1 Model 3 — Polyether polyurethane rubber (Hardness 90 $\pm$ 3°(JIS A))Model 2 — Polyester polyurethane rubber (Hardness 90 $\pm$ 3°(JIS A))

*ISO (JIS) notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), which are based on ISO 15 standard, and this product does not conform to ISO (JIS) standards.

*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

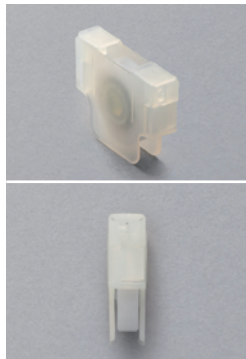
Door roller series

RoHS compliant

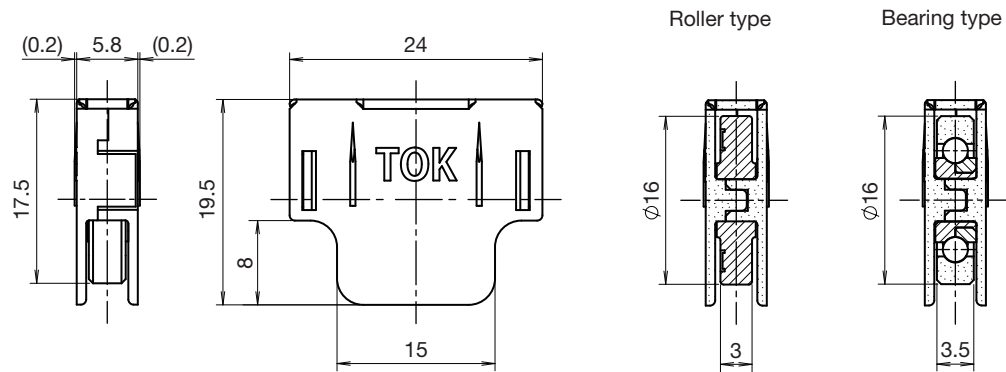
Door roller (With built-in bearing and roller) | Flat and U-groove

Model 1 Compact and thin type

(mm)

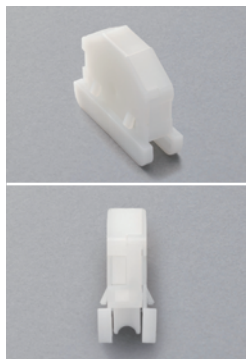


Door roller

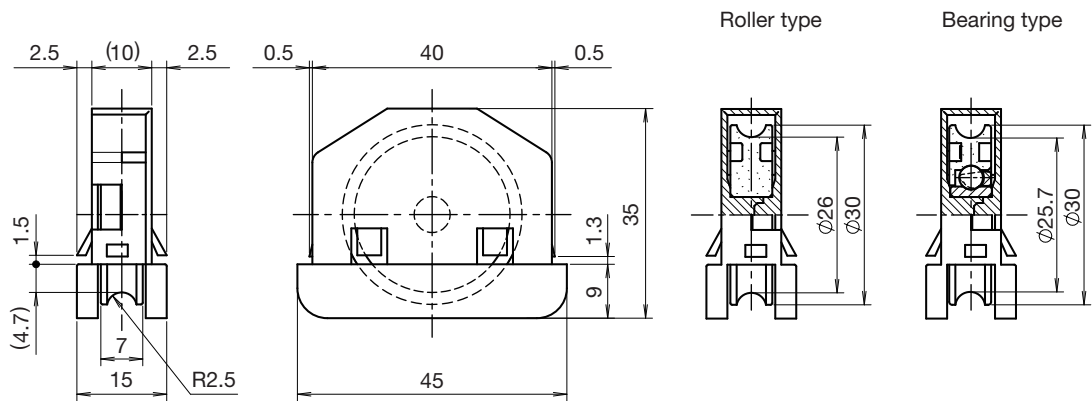


Model 2 Thin type (Easy install)

(mm)

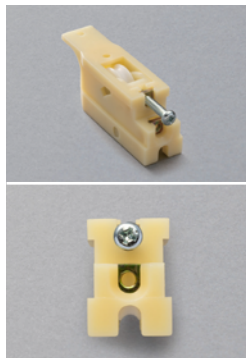


Door roller

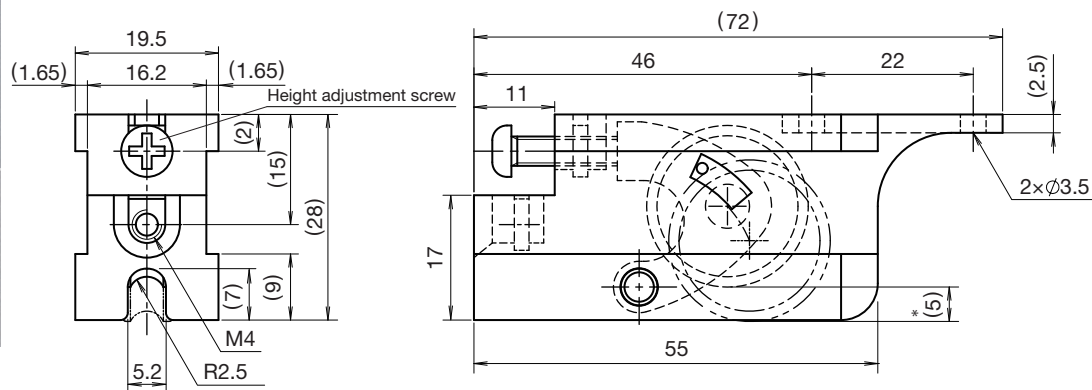


Model 3 Tire height adjustable type

(mm)



Door roller



*By turning height adjustment screw, wheel moves up or down, allowing for easy adjustment of door height. Tire height can be adjusted by approximately 5 mm.

Lineup

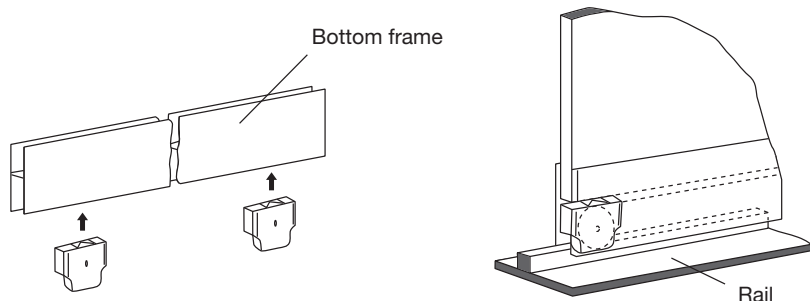
Door roller

Model	Material		Tire type		Load (N)	Weight (g)	Code	Part No.
	Outer frame	Tire	Shape	Specifications				
1	Plastic (PA)	Plastic (POM)	Flat	Roller	49	-	260068	Rollerset screen V
				Bearing (DRS-16-H4.1W0.25)	49	-	260007	Glass door wheel (PA)
2	Plastic (PE)	Plastic (PA)	U-groove	Roller	49	-	260001	TOK door wheel No.3 (A)
		Plastic (POM)		Bearing (DU-30-H6-M)	49	-	260005	TOK door wheel No.3 - B
3	Plastic (ABS)	Plastic (POM)	U-groove	Bearing (DU-22-H6-MU)	-	-	260042	Adjustable door wheel No.7

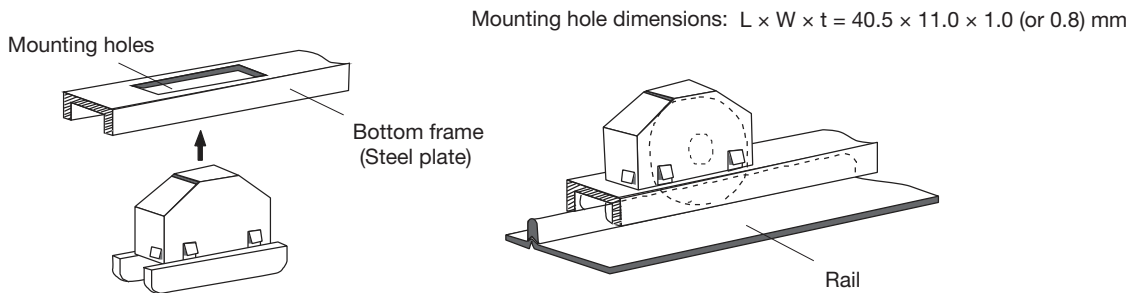
*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

How to mount

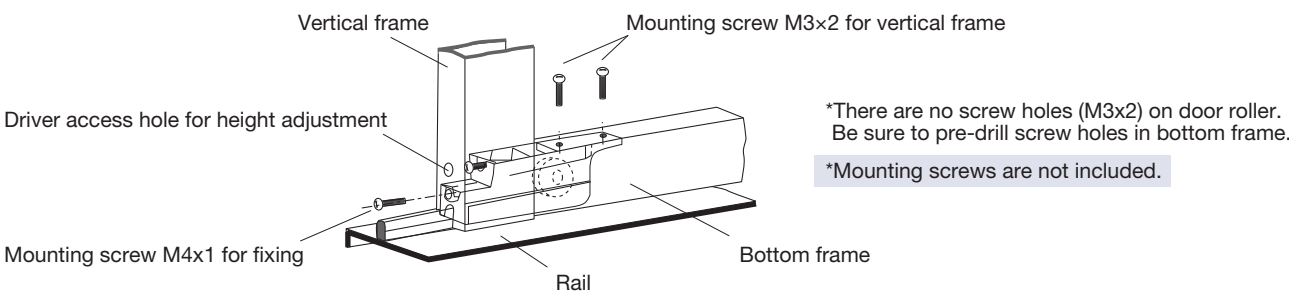
Model 1 Compact and thin type



Model 2 Thin type (Easy install)



Model 3 Tire height adjustable type



Questions about bearing specifications, customized products and mounting

Q: The outer race of D series bearings are made of POM, which typically has a heat resistance above 100 °C.

Why is the operating temperature range limited to only 40°C?

A: Each of the materials offers a heat resistance of over 100°C.

However, each material has a different coefficient of thermal expansion. Furthermore, the retainer molded from PP resin is designed to be assembled by hooking it onto a ball rolling groove of the inner race. Therefore, in a high-temperature environment, the retainer expands more than the inner race, causing it to come off more easily.

For this reason, the upper limit of the operating temperature range is set at 40°C.

Q: Do you have bearings that can be used in high-humidity environment?

A: We recommend S series and DR-S series (with plastic outer races) made of corrosion-resistant stainless steel, PE series and PK series made entirely of resin, or C series, which incorporates ceramics.

Q: I can't find the right size in the product catalog list. Is it possible to produce customized products?

A: Yes, we can handle custom orders. Prototypes can be produced starting from just 1 piece.

If the desired size can be achieved by combining existing parts, we can provide a relatively cost-effective solution. However, if existing parts cannot be used, machining will be required, which may result in higher costs.

For custom products that require new design work, it typically takes about 1 month to provide a quotation, followed by approximately 45 to 75 days for production.

Q: Is it possible to place a custom order only some parts such as outer race and inner race?

Or, is it possible to manufacture bearings with the desired shape?

A: Design confirmation is required in advance, but we can handle customization ranging from individual components to full customized products. For fully customized designs, we kindly request a minimum order quantity of 1,000 pieces.

Q: When mounting a plastic bearing with riveting shaft (DR-A type) on a steel plate, are there any specifications for the shape of the mating hole, dimensional tolerances, or plate thickness?

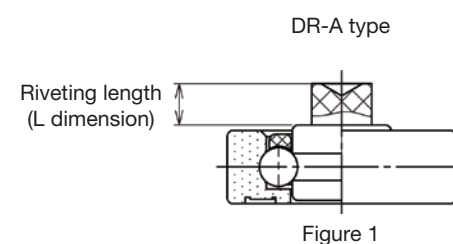
A: We do not provide recommended dimensions. Please install the bearings so that they meet your usage conditions.

The mating hole should have minimal clearance with the bearing's riveting shaft for easy riveting.

The minimum clearance that allows easy manual insertion of the shaft is about 0.03 mm. The 3.5 mm riveting length of the plastic bearings assumes riveting on a steel plate with a thickness of 2.3 mm to 2.6 mm. (See Figure 1)

This information is provided for general reference based on typical usage conditions.

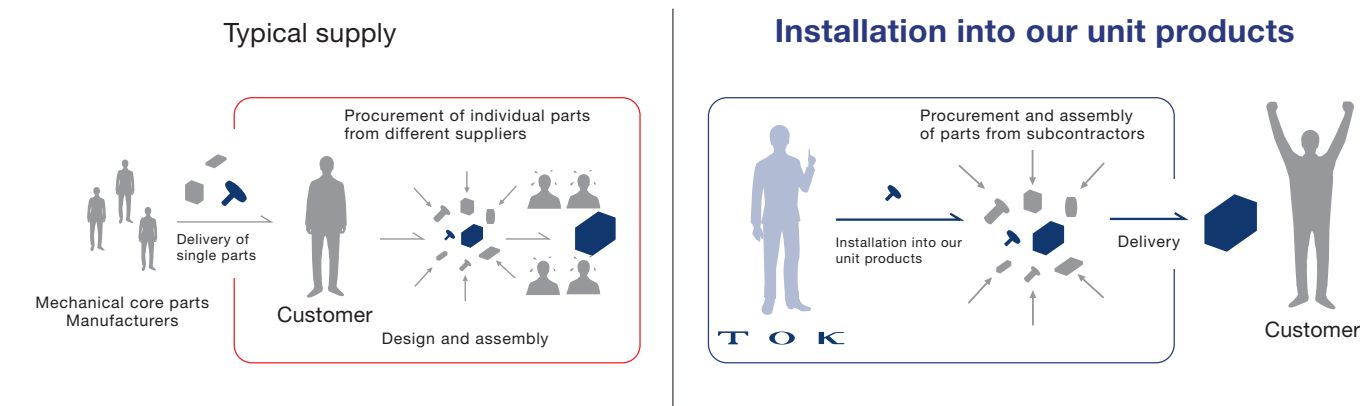
Please verify according to the actual operating environment and intended application when designing or machining.



Questions about the design of the unit with bearing and assembly

Q: Is it possible to design and assemble units with bearings mounted?

A: Yes - By consulting with us from the design phase, we can provide a one-stop service that includes not only design proposals, but also material procurement, machining, and assembly. We can provide the final units mounted with the requested bearings.



Contact us

For technical/purchasing inquiry, please contact us.

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