

# TAS series

Metal bearing (High toughness) | Flat

H type A type B type

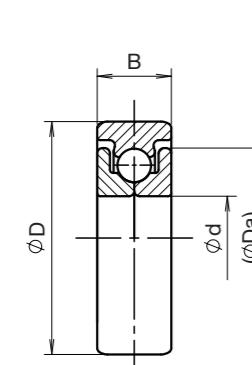
RoHS compliant

Metal bearing (High toughness) | Flat

Inner ring Riveting shaft Screw shaft

Model 1

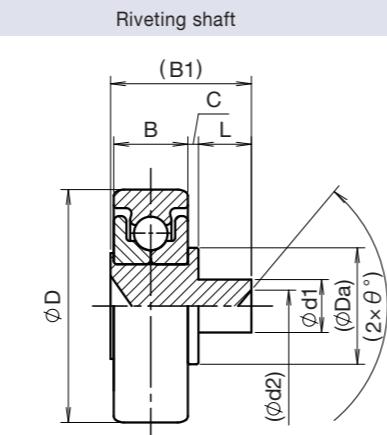
Inner ring



TAS-H

Model 2

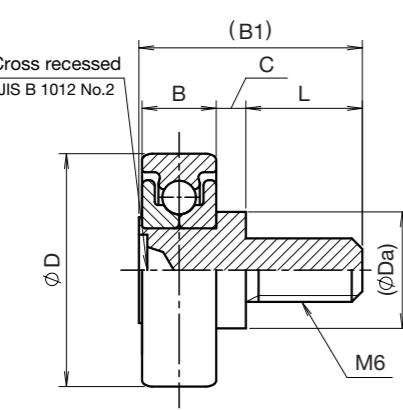
Riveting shaft



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 $\phi D$ dimension shown in drawing)
5	Ball material symbol	Omitted	Carbon steel ball
6	Inner race shape symbol	H AH BH	Inner ring Inner ring with riveting shaft 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 MU	Numerical L dimension shown in drawing Plating *Inner race H/A type omitted

## Lineup

TAS-H Inner ring

(mm)

Model	$D_{-0.1}$	$d_0^{+0.1}$	$B_{-0.2}$	Da	Load (N)	Weight (g)	JIS equivalent	Code	Part No.
1	22	8	7	17	392	12.0	608	231502	TAS-22-H8

TAS-A Riveting shaft

(mm)

Model	$D_{-0.1}$	$d_1_{-0.1}$	$B_{-0.2}$	B1	C $\pm 0.4$	$L_0^{+0.3}$	$d2 \times \theta$	Da	Load (N)	Weight (g)	Code	Part No.
2	22	5	7	13.3	1	5	3x100°	11.0	392	18.8	231501	TAS-22-AH1-5

TAS-B Screw shaft

(mm)

Model	$D_{-0.1}$	$B_{-0.2}$	B1	C $\pm 0.4$	$L_{\pm 0.5}$	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

\*JIS notation is equivalent to JIS B 1512 (Rolling bearings - main dimension) and JIS B 1513 (Nominal numbers of rolling bearings), and this product does not conform to JIS standards.

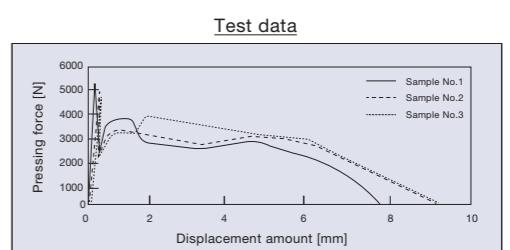
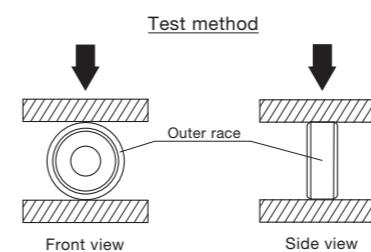
\*All products are made-to-order only, but some may be in stock. Please contact your local distributor or trading company in case of urgent need.

## Toughness test

### Compression test 1

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

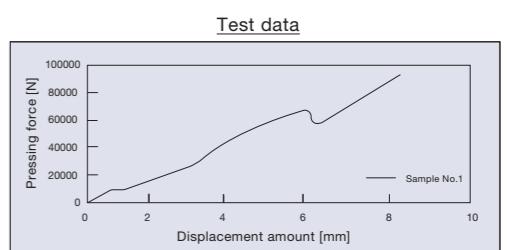
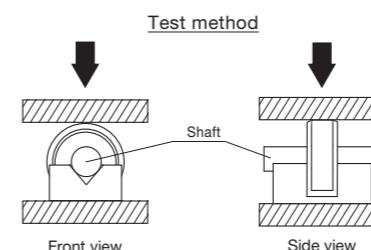
TAS series bearings are approximately 1.5 times stronger than the strength of 608ZZ JIS bearings of the same size (Approximately 3430N).



### Compression test 2

Apply pressure shaft and measure displacement amount.

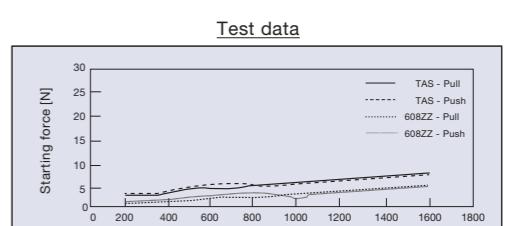
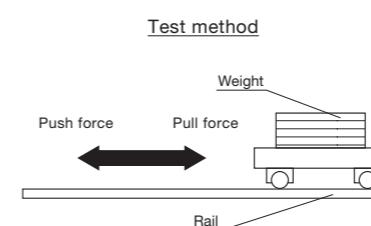
TAS series bearings are approximately 23 times stronger than the strength of 608ZZ JIS bearings of the same size (Approximately 3430N).



### 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.