



Our Technologies Realize Your Dreams

Grooved Guide Bearings



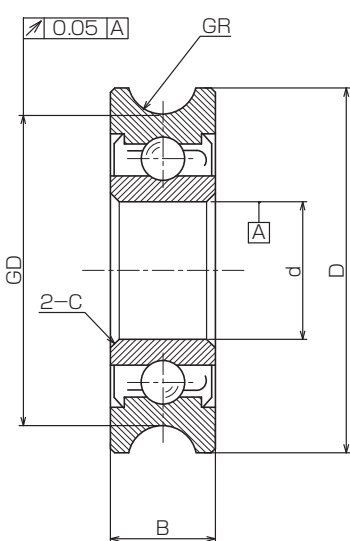
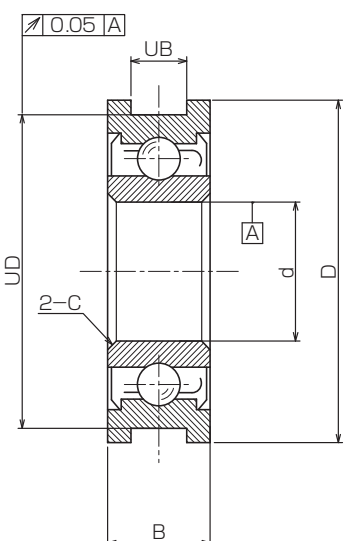
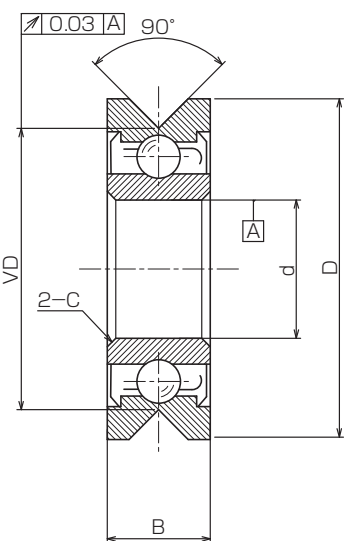
Grooved guide bearings are designed with various types of grooves directly in the outer ring of the bearing, and are well suited for guides in a wide range of applications, mainly for thread guides and carriers. Select the model that suits your target application depending on the material properties and thickness of the thread or wire rope.



01 Specifications for the Standard Models

Naming and auxiliary symbols

Material codes	Bearing numbers			
	Bearing type codes	Size codes	Features codes	
SS		4-13	G	ZZ
SS = Martensite stainless steel	• No notation Radial bearing	Bore – Outside dia. (mm)	Guide groove style • G =  Style • U =  Style • V =  Style	• No notation =shielded • Z =Single shield • ZZ = Double shields • EE = Extended inner ring

SS-G · SS-GZZ Model G	SS-U · SS-UZZ Model U	SS-V · SS-VZZ Model V
		

Notes

1. Unless otherwise noted, a standard oil (for the open model) or a standard grease (for the shielded model) is used as lubricant.
2. The edge portions on the U-groove and V-groove are rounded in between 0.2mm and 0.3mm.
3. Standard surface roughness of the guide grooves is 6S.
4. Customized products for special applications are fabricated upon request.

[SS-G SS-GZZ Model G]

Unit=mm

Nominal Number	Dimension						Rated load Dynamic load C (N)
	Bore $d \begin{smallmatrix} +0.002 \\ -0.010 \end{smallmatrix}$	Outside dia. D	Width		Groove dia. $GD \begin{smallmatrix} +0.050 \\ -0.100 \end{smallmatrix}$	Groove radius $GR \pm 0.05$	
			Inner ring $B \begin{smallmatrix} 0 \\ -0.12 \end{smallmatrix}$	Outer ring $B \begin{smallmatrix} 0 \\ -0.12 \end{smallmatrix}$			
2－7 G	2	7	2.5	2.5	6.4	0.55	319
3－11 G	3	11	4	4	9.5	1.0	542
4－13 G	4	13	4	4	11	1.25	606
4－20 G	4	20	5	5	18	1.0	1478
3－11 G Z Z	3	11	4	4	9.5	1.0	542
4－13 G Z Z	4	13	4	4	11	1.25	606
4－20 G Z Z	4	20	5	5	18	1.0	1478
2－7 E E G	2	7	3	2.5	6.4	0.55	319
3－9 E E G	3	9	4	3	7.8	0.75	472
3－12 E E G	$3 \begin{smallmatrix} +0.002 \\ -0.030 \end{smallmatrix}$	12	4	3	10	1.15	542
3－12 E E G Z	$3 \begin{smallmatrix} +0.002 \\ -0.030 \end{smallmatrix}$	12	4	3	10	1.15	542

[SS-U SS-UZZ Model U]

Unit=mm

Nominal Number	Dimension						Rated load
	Bore d ^{+0.002} _{-0.010}	Outside dia. D	Width		Groove dia. UD±0.10	Groove width UB ^{+0.15} _{-0.10}	
			Inner ring B ⁰ _{-0.12}	Outer ring B ⁰ _{-0.12}			Dynamic load C (N)
3－1 1 U Z Z	3	11	4	4	9.0	2.0	542
4－1 1 U Z Z	4	11	4	4	9.6	2.5	542
4－1 3 U Z Z	4	13	4	4	11.0	2.0	606
5－1 6 U Z Z	5	16	5	5	14.6	3.5	1478
6－1 6 U Z Z	6	16	5	5	14.6	3.5	1478

[SS-V SS-VZZ Model V]

Unit=mm

Nominal Number	Dimension					Rated load Dynamic load C (N)
	Bore d ^{+0.002} _{-0.010}	Outside dia. D	Width		Groove dia. VD ^{+0.10} _{-0.20}	
			Inner ring B ⁰ _{-0.12}	Outer ring B ⁰ _{-0.12}		
2 – 1 0 V	2	10	2.5	4	(7.0)	319
3 – 1 2 V Z Z	3	12	4	4	(9.0)	542
4 – 1 3 V Z Z	4	13	6	6	(9.0)	542



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Safety
Warning

The data presented in this catalog are for general application purposes. Do not use this product in such a way that may be harmful to people or exceed its performance.

Safety
Precaution

To avoid accidents and/or failures as well as to ensure safety , do not use this product exceeding the specifications noted in this catalog and ignoring the precautions.

*Specifications are subject to change without a notice for future development.