

Miniature Ball Bearing Guides Sets / Shafts for Miniature Ball Bearing Guides

-With Retaining Ring- -Straight-

Shafts for Miniature Ball Bearing Guides

-One End Machined / Both Ends Machined

Miniature Ball Bearing Guide Sets -With Retaining Ring- RoHS 10

Parts **Material** **Hardness**

Shafts	SUJ2	58HRC~	Ball Retainer	C3604	-
Bushing	SUJ2	58HRC~	Steel balls	SUJ2	58HRC~
Retaining Ring	Spring Steel	44HRC~			

Retaining rings are assembled into BGSTZ, BGSTA to prevent ball retainer from falling out.

Part Number	Type	D	Shaft Dia. Tol.	L 1mm Increment	Y	F	D1	M (Coarse Thread)	d	Maximum Stroke mm
BGSTZ BGSTA	5	5	0 -0.005	40~90	17	6	10	M3	7	13
	6	19			7	11	M3	8	15	
	8	25			8	13	M4	10	24	
	10	30			10	16	M5	12	30	
	12	32			11	18	M6	14	32	

Shafts for Miniature Ball Bearing Guides -Straight- RoHS 10

Type	Material	Hardness	
Linear Bushings	BGZP SSBGZP	SUJ2 SUS440C Equivalent	58HRC~ 56HRC~
Hollow Shaft	BGBP	SUJ2	58HRC~

Linear Bushings Straight Type
BGZP
SSBGZP

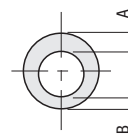
Hollow Shaft Type
BGBP

Part Number	Type	D	Shaft Dia. Tol.	L 1mm Increment	d
BGZP SSBGZP BGBP	2	2	0 -0.005	30~50	-
	3	3		40~70	-
	4	4		40~90	2.5
	5	5		40~90	2.5
	6	6		40~150	3.3
	8	8		40~150	4.2
10	10	40~150	4.2		
12	12	40~150	5		

Order Example **Part Number** - **L**
BGZP5 - 72

-Accuracy Standard-

(1) L Dimension Tolerance L≤120=±0.3 L≥121=±0.5
 (2) Circularity of Part D 0.004 or less
 (3) Concentricity of D and P Ø0.1 or less
 (4) Thickness Variations of Hollow D≤6=0.3 or less D≥8=0.4 or less
 Deviation Value=A-B



One End Machined

Type	Material	Hardness	
One End Female Thread	BGDP SSBGDP	SUJ2 SUS440C Equivalent	58HRC~ 56HRC~
One End Female Thread Hollow	BGAP SSBGAP	SUJ2 SUS440C Equivalent	58HRC~ 56HRC~
One End Male Thread	BGEP	SUJ2	58HRC~

One End Female Thread Type
BGDP
SSBGDP

One End Male Thread Type
BGEP

One End Female Thread Hollow Type
BGAP
SSBGAP

Part Number	Type	D	Shaft Dia. Tol.	L 1mm Increment	F	B	M (Coarse Thread)	d
BGDP SSBGDP BGEP SSBGAP BGAP	5	5	0 -0.005	40~90	4	6	M3	2.5
	6	6						
	8	8						
	10	10						
12	12	5	10	M5	4.2			
		12	M6	5				

Both Ends Machined

Type	Material	Hardness	
Both Ends Female Thread	BGFP SSBGFP	SUJ2 SUS440C Equivalent	58HRC~ 56HRC~
Both Ends Female Thread Hollow	BGCP SSBGCP	SUJ2	58HRC~
One End Male Thread, One End Female Thread	BGHP	SUJ2	58HRC~

Both Ends Female Thread Type
BGFP
SSBGFP

Both Ends Female Thread Hollow Type
BGCP

One End Male Thread, One End Female Thread Type
BGHP

Part Number	Type	D	Shaft Dia. Tol.	L Selectable	F	B	M (Coarse Thread)	d
BGFP SSBGFP BGCP SSBGCP	5	5	0 -0.005	40 50 60 70 80 90	4	6	M3	2.5
	6	6						
	8	8						
	10	10						
12	12	5	10	M5	4.2			
		12	M6	5				

Order Example **Part Number** - **L**
BGDP5 - 70