

# Miniature Ball Guide Set - Both Ends Tapped

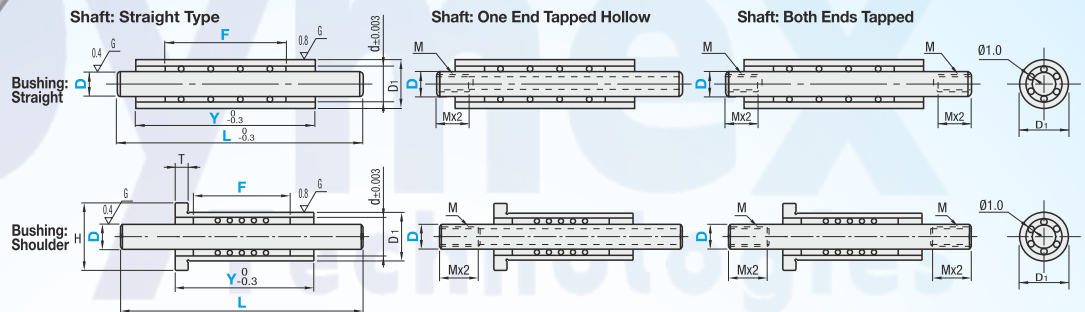


**Features:** Most common specification in miniature ball guide sets.

## Industry Standard



Bushing	Type			Material		Hardness	
	Straight	One End Tapped Hollow	Both Ends Tapped	Shafts / Bushings	Ball Retainer	Balls	Shafts / Bushings
Straight Type	DBGZ	DBGA	DBGY	SUJ2	C3604 Equivalent (RoHS Compliant)	SUJ2	58HRC~
	DSSBGZ	DSSBGA	DSSBGY	SUS440C Equivalent		SUS440C Equivalent	56HRC~
Shoulder Type	DBGHZ	DBGHA	DBGHY	SUJ2		SUJ2	58HRC~
	DSSBGHZ	DSSBGHA	DSSBGHY	SUS440C Equivalent		SUS440C Equivalent	56HRC~



Part Number			D	Shaft Dia. Tolerance	L		Y	F	D1	T	H	d	M (Coarse)
Type					Straight One End Tapped Hollow	Both Ends Tapped							
Straight	One End Tapped Hollow	Both Ends Tapped	(3)	0 -0.005	1mm Increment	-	10 20 30	10 15 20	7	2.5	9	5	-
	L Dimension Configurable	L Dimension Selectable	(4)										
5	40~90	40 50 60 70 80 90	10		11	4	12	7	M3				
DBGZ	DBGA	DBGY	6		40~150	40 50 60 70 80 90 100	20 30 40	15 20 30	12	0 -0.011	13	8	M3
DBGHZ	DBGHA	DBGHY	8		40	50	60	70	80	90	14	10	M4
DSSBGZ	DSSBGA	DSSBGY	10		40	50	60	70	80	90	16	12	M5
DSSBGHZ	DSSBGHA	DSSBGHY	12		40	50	60	70	80	90	18	14	M6

Sizes in ( ) are applicable to DBGZ, DBGHZ, DSSBGZ and DSSBGHZ only.

When designing, it is recommended to prevent the ball slider from falling out of the bushing.

Calculate the stroke as "(Y-F)x2". The stroke of bushing or shaft is twice as much as the travel distance of ball slider (Y-F).

## Basic Load Rating Table

D	F	Basic Load Rating
		Co (Static) N
3	10	30.4
	15	50.7
	20	71
4	10	40.4
	15	67.3
	20	87.5
5	10	50.7
	15	84.5
	20	109.9
6	15	101.5
	20	113.2
	30	182.9
8	15	105.1
	20	126.1
	30	189.2
10	20	147.7
	30	221.5
	40	307.7
12	20	187.4
	30	281.1
	40	390.5

## Basic Specifications

- Sale Type - Ball Bearing Guide Sets
- Shaft Shape - Both Ends Tapped

ORDERING GUIDE



L - Y - F

DBGZ5

72 - 20 - 15

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