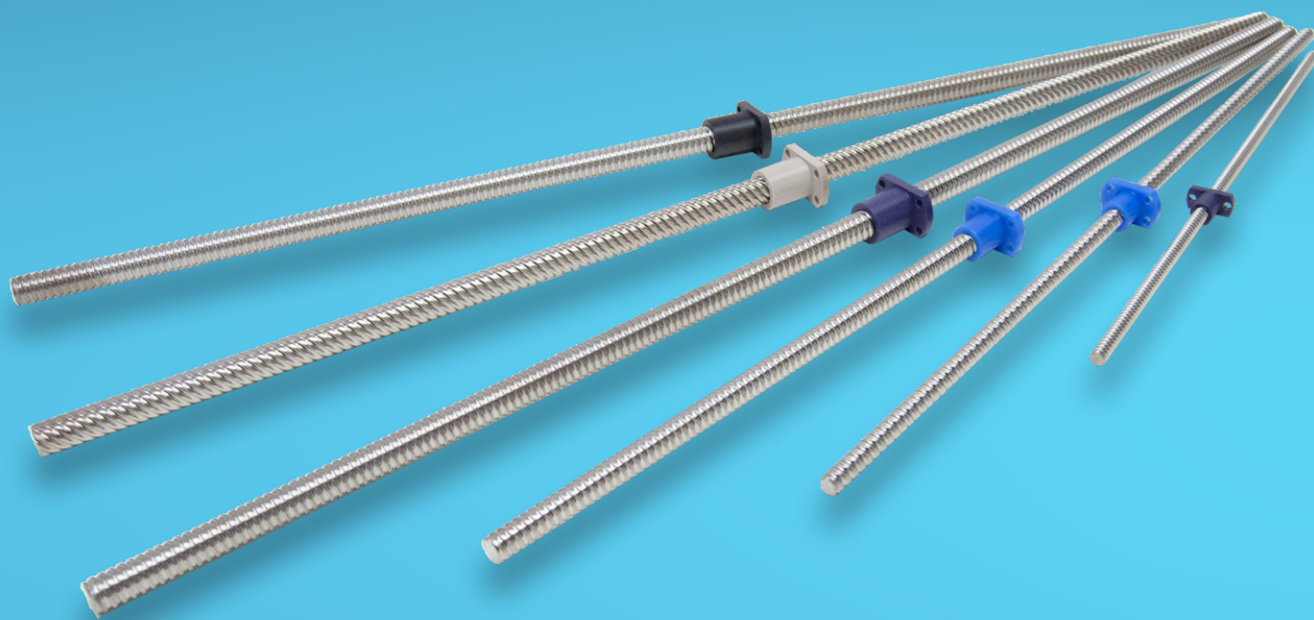


# KSS Lead Screws



**ABSSAC**  
PRECISION MOTION SINCE 1982



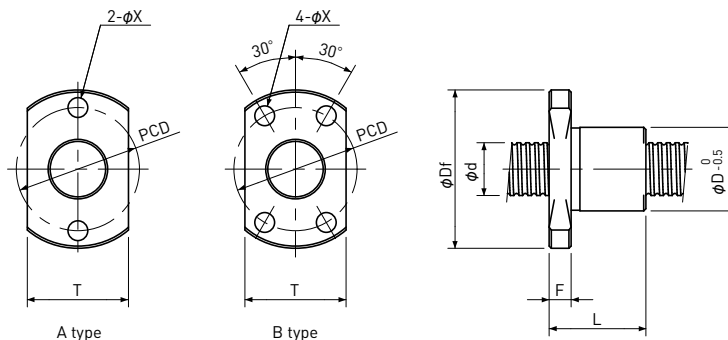
# MRH-A,B series (Customized Products)

## Dimension table

### Model number notation



- ① Nut model
- ② Screw Shaft nominal diameter(mm)
- ③ Lead(mm)
- ④ Flange configuration
  - A : 2 holes ..... Only products with  $\phi 6$ mm
  - B : 4 holes
- ⑤ Screw thread length(mm)
- ⑥ Thread direction (Right-hand only)
- ⑦ Screw Shaft total length(mm)
- ⑧ Number of Nut
  - (Example : N2 means 2 Nuts on a Shaft. There is no notation when 1 Nut.)



Unit : mm

Model	Screw Shaft				Nut								Standard Shaft length
	Dia. d	Lead	Root dia.	No. of threads	D	L	Df	F	P.C.D	X	Nut type	T	
MRH0602A	6	2	5.1	1	10	14	20	3	15	3.1	A	10	300
MRH0606A		6	5.2	2									
MRH0609A		9	5.3	4									
MRH0802B	8	2	6.6	1	13	16	26	4	20	3.6	B	17	400
MRH0805B		5	6.6	2									
MRH0808B		8	6.7	2									
MRH0812B		12	6.7	4									
MRH1002B	10	2	8.6	1	15	20	28	4	22	3.6	B	19	500
MRH1006B		6	8.4	2									
MRH1010B		10	8.4	2									
MRH1015B		15	8.4	4									
MRH1020B	12	20	8.7	4	18	24	31	4	25	3.6	B	20	600
MRH1202B		2	10.6	1									
MRH1206B		6	10.4	2									
MRH1210B		10	10.4	2									
MRH1220B		20	10.4	6									
MRH1230B	30	10.4	8										

Note 1) Additional machining of Screw Shafts should be performed by KSS. Note that accuracy cannot be guaranteed if additional machining is performed by someone other than KSS.

Note 2) When additional end-journal machining is performed by someone other than KSS, always remove the Nut from the Screw Shaft. After machining, wash away any debris on the Screw Shaft with clean refined kerosene or similar material.

Note 3) The Shaft end diameter should be smaller than the Screw Shaft Root diameter, and the Screw thread length should be specified in 1mm unit.

Note 4) Only Right-hand thread is available.

Note 5) Screw Shafts and Nuts are not sold separately.

# MRH-BP2 series (Customized Products)

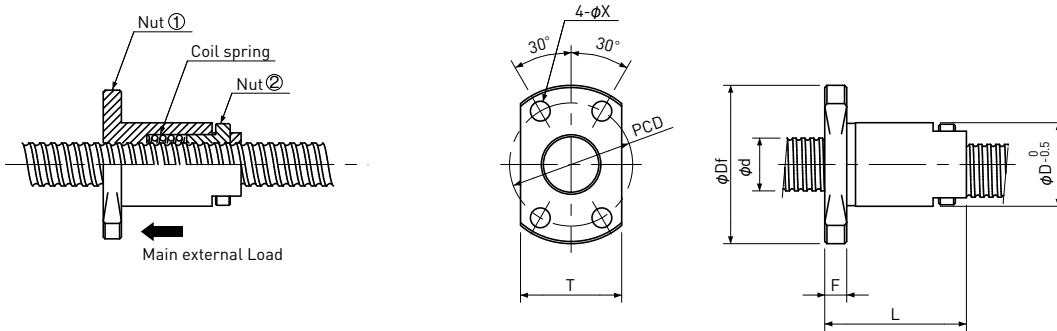
## Dimension table

Model number notation

**MRH**   **06**   **02**   **B**   **P2**   **—**   **300**   **R**   **300**

①   ②   ③   ④   ⑤   ⑥   ⑦   ⑧

- ① Nut model
- ② Screw Shaft nominal diameter(mm)
- ③ Lead(mm)
- ④ Flange configuration  
B : 2 flat faces(4 holes)
- ⑤ Backlash free mark  
P2 : Standard Preload
- ⑥ Screw thread length(mm)
- ⑦ Thread direction(Right-hand only)
- ⑧ Screw Shaft total length(mm)



Unit:mm

Model	Screw Shaft				Nut							Standard Shaft length
	Dia. d	Lead	Root dia.	No. of threads	D	L	Df	F	P.C.D	X	T	
MRH0602BP2	6	2	5.1	1	13	20	26	4	20	3.6	17	300
MRH0606BP2		6	5.2	2								
MRH0609BP2		9	5.3	4								
MRH0802BP2	8	2	6.6	1	15	23	28	4	22	3.6	19	400
MRH0805BP2		5	6.6	2								
MRH0808BP2		8	6.7	2								
MRH0812BP2	8	12	6.7	4	18	30	31	4	25	3.6	20	500
MRH1002BP2		2	8.6	1								
MRH1006BP2		6	8.4	2								
MRH1010BP2	10	10	8.4	2	23	38	41	5	33	4.8	25	600
MRH1015BP2		15	8.4	4								
MRH1020BP2		20	8.7	4								
MRH1202BP2	12	2	10.6	1	23	38	41	5	33	4.8	25	600
MRH1206BP2		6	10.4	2								
MRH1210BP2		10	10.4	2								
MRH1220BP2		20	10.4	6								
MRH1230BP2		30	10.4	8								

Note 1) Additional machining of Screw Shafts should be performed by KSS. Note that accuracy cannot be guaranteed if additional machining is performed by someone other than KSS.

Note 2) The Shaft end diameter should be smaller than the Screw Shaft Root diameter, and the Screw thread length should be specified in 1mm unit.

Note 3) Only Right-hand thread is available.

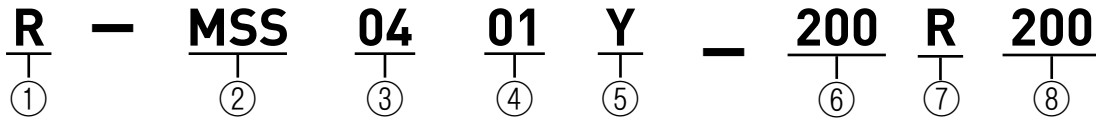
Note 4) Screw Shafts and Nuts are not sold separately.

Note 5) Please inquire regarding spring tension (lower or higher than standard is available).

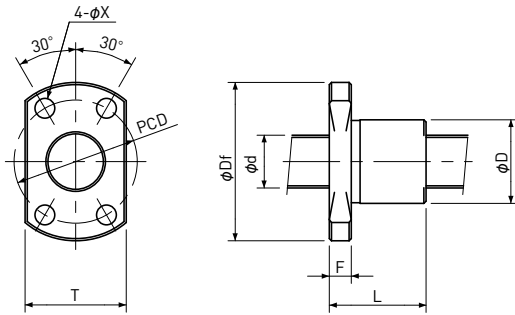
Note 6) It is recommended that the main external load is in the direction as indicated by the arrow in the Figure above.

● Dimension table

Model number notation



- ① NTN products
- ② Miniature Plastic Lead Screws
- ③ Shaft nominal diameter (mm)
- ④ Lead (mm)
- ⑤ Nut symbol : BEAREE AS5000
- ⑥ Screw thread length (mm)
- ⑦ Thread direction (Right-hand only)
- ⑧ Screw total length (mm)



Unit: mm

Model	Shaft			Nut							Shaft length
	Dia. d	Lead	Number of thread	D	L	Df	F	P.C.D	X	T	
R-MSS0401Y	4	1	1	10	11.5	23	3.5	15	2.9	15	200
R-MSS0402Y		2	2								
R-MSS0601Y	6	1	1	12	14.5	26	3.5	18	3.4	17	300
R-MSS0602Y		2									
R-MSS0609Y		9	4								
R-MSS0618Y		18									
R-MSS0801Y	8	1	1	14	18	29	4	21	3.4	18	300
R-MSS0802Y		2									
R-MSS0812Y		12	4								400
R-MSS0824Y		24	6								
R-MSS1002Y	10	2	1	16	22	33	5	24	4.5	21	300
R-MSS1015Y		15	4								450
R-MSS1030Y		30	6								
R-MSS1202Y	12	2	1	18	25	35	5	26	4.5	22	300
R-MSS1218Y		18	6								500
R-MSS1236Y		36									

Note 1) End-journal is not machined. Please inquire, if end-journal machining is required.

● Technical data

Model	Shaft		Permissible Axial Load N	Permissible Revolution rpm	Tightening Torque (max) N·mm	Efficiency %
	Dia. mm	Lead mm				
R-MSS0401Y	4	1	50	2000	180	45
R-MSS0402Y		2	60			70
R-MSS0601Y	6	1	120	2000	400	40
R-MSS0602Y		2	60			55
R-MSS0609Y		9	90			85
R-MSS0618Y		18	110			85
R-MSS0801Y	8	1	200	2000	500	30
R-MSS0802Y		2	290			45
R-MSS0812Y		12	210			80
R-MSS0824Y		24	210			85
R-MSS1002Y	10	2	460	1500	500	40
R-MSS1015Y		15	410			80
R-MSS1030Y		30	440			85
R-MSS1202Y	12	2	660	1000	500	35
R-MSS1218Y		18	750			75
R-MSS1236Y		36	540			80

**Criteria : MSS0824Y, verification of no remarkable wear after 200km running test under 100N of Axial Load and 2,000rpm of Speed. Other than that are obtained by calculation.**

① Efficiency  $\eta$  is calculated by following formula based on measurement results of rotational torque(M) under the Axial Load (Q).

$$\eta = \frac{R \cdot Q \cdot \tan\beta}{M} \times 100 \quad (\%) \quad \tan \beta = \frac{\text{Lead}}{2\pi R}$$

$\eta$  : Efficiency  
R : Pitch circle radius  
Q : Axial Load  
 $\beta$  : Lead angle  
M : Rotational torque

② Permissible Axial Load and Permissible Revolution are based on the test results under the following condition.

- 1) Test machine : NTN Lead Screw Durability test machine
- 2) Condition : Room temperature, no lubricant, 100mm travel (200mm/ cycle) or 200mm travel (400mm/cycle)
- 3) Criteria : No remarkable damage or wear on Screw surface after running test of  $10^3$  or  $6 \times 10^3$  cycles under the Permissible Load and Revolution in the table above.

③ This number means when Plastic Nut is fixed onto the Bracket.