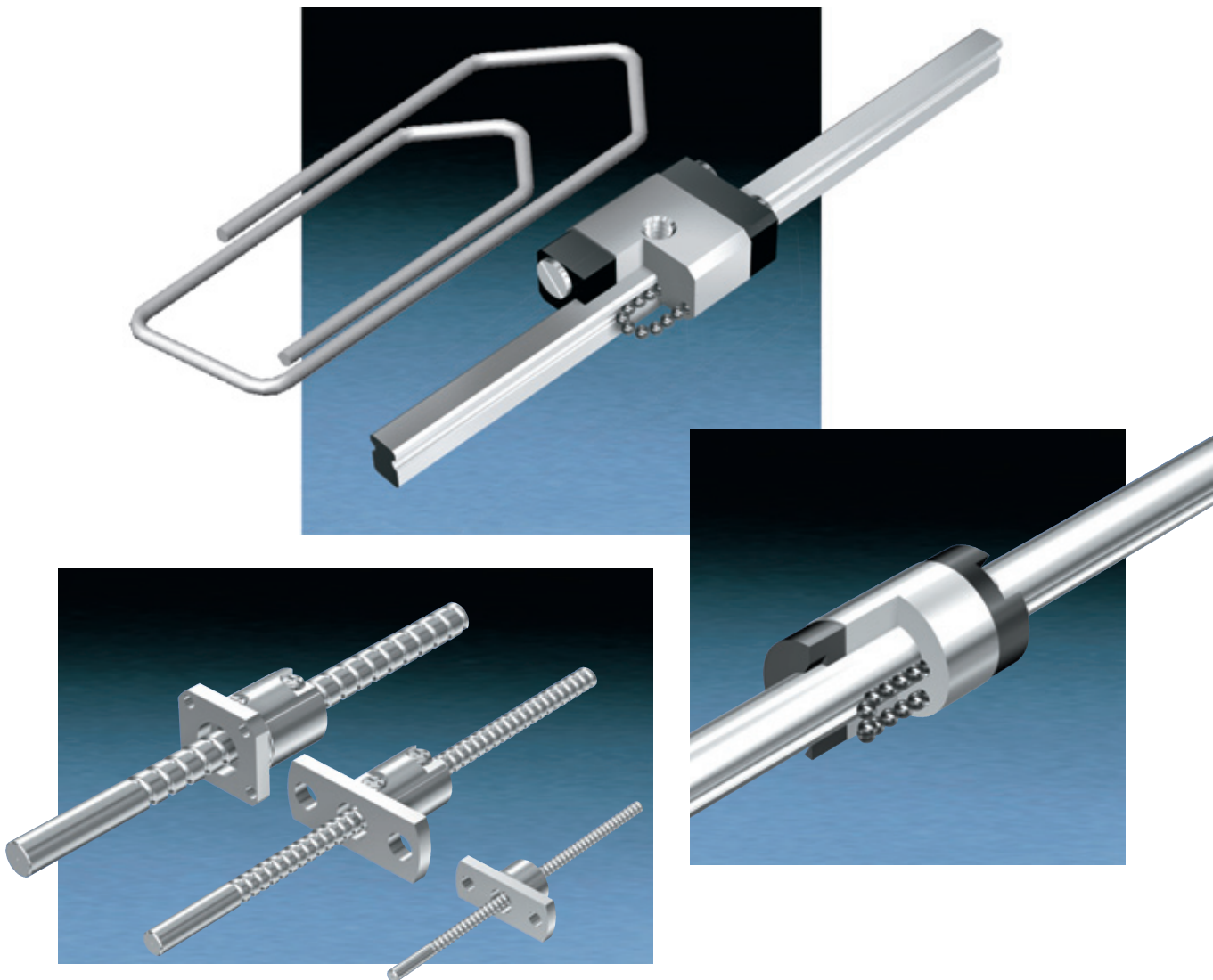


# Micro-LM Systems

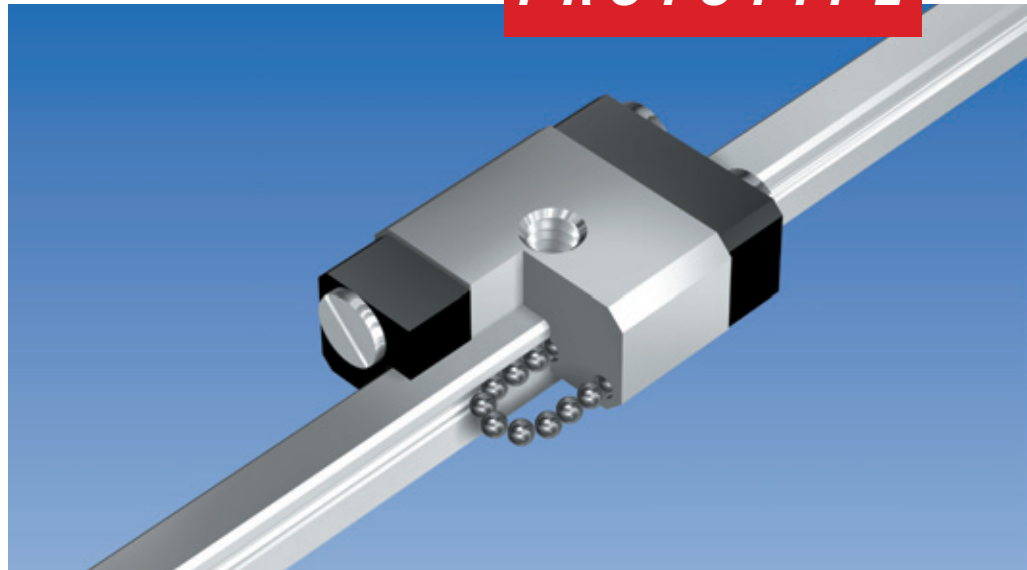
- *Ultra-compact design*
- *Corrosion resistant*
- *High precision*
- *Long service life*



## Micro-LM Guide RSR-M

### RSR-M 1 and 2

**PROTOTYPE**



- **Smallest LM Guide worldwide**

The micro series of RSR type are miniaturized LM Guides for endless strokes. With the compact design of block and the integrated specific sized balls high rigidity in all load directions is achieved.

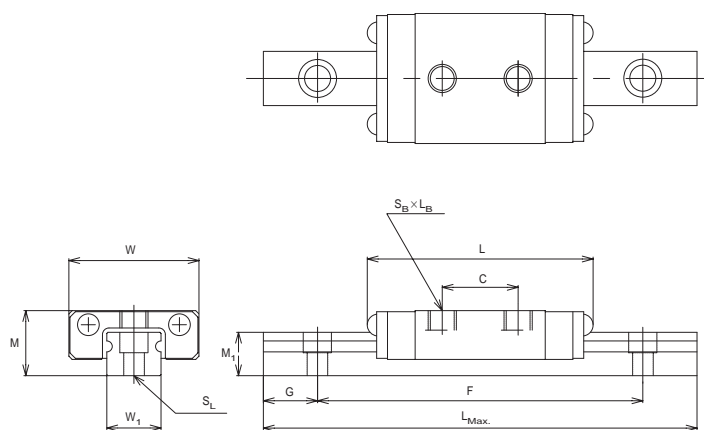
- **Capable of receiving loads in all directions**

These models are capable of receiving loads in all directions.

- **Highly corrosion resistant**

Since its LM block, LM rail and balls are made of stainless steel, this model is highly resistant to corrosion and therefore is suitable for applications in clean rooms etc.

- **Smooth motion with low rolling resistance**



Unit: mm

Model No.	M	W	L	C	W <sub>1</sub>	M <sub>1</sub>	F	G	L <sub>Max.</sub>	S <sub>B</sub> × l <sub>B</sub>	S <sub>L</sub>	Basic load rating	
												C [N]	C <sub>0</sub> [N]
RSR1M	2.5	4	6.2	—	1	1.4	—	—	100	1-M1×1	—	37	58
RSR1WM	2.5	5	8.3	2.5	2	1.4	5	5	104	2-M1×1	Countersink S0.6	61	94
RSR2N	3.2	6	12.4	4	2	2	8	4	104	2-M1.4×1.1	Through M1	166	245
RSR2WN	4	10	17	6.5	4	2.6	10	5	180	2-M2×1.3	Countersink M1.6	307	435

# Micro-Ballscrew BN

**PROTOTYPE**

**BN**  
**01 and 02**



- **Smallest Ballscrew worldwide**

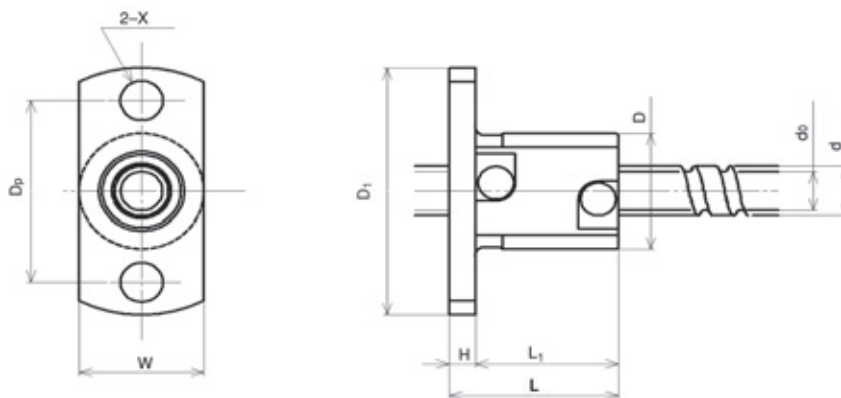
The micro ballscrews of BN type show an extremely compact design of the ballscrew nut. The nuts are designed as single units with flange.

- **Smooth motion**

Smooth motion with low friction is achieved with the ball recirculation inside the ballscrew nut.

- **Highly corrosion resistant**

Since its components are made of stainless steel, this model is highly resistant to corrosion and therefore is suitable for applications in clean rooms etc.



Unit: mm

Model No.	Screw shaft							Nut							
	Outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	Number of circuits Turns × rows	Static load rating		D	Flange outer diameter D <sub>1</sub>	Overall length L	L <sub>1</sub>	H	W	P C D	Mounting hole X
	d	l	dp	d <sub>3</sub>	C <sub>0</sub>	C <sub>0 a</sub>									
#0100.5	1	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—
#0201	2	1	2.1	1.5	2.5×1	189	225	5.5	14	9	7.5	1.5	6	10	2.4
#0302	3	2	3.15	2.35	2.5×1	351	461	7	15	9.5	8	1.5	8	11	2.4

## Micro-Ballspline LT

**LT**  
1, 2 and 3

**PROTOTYPE**



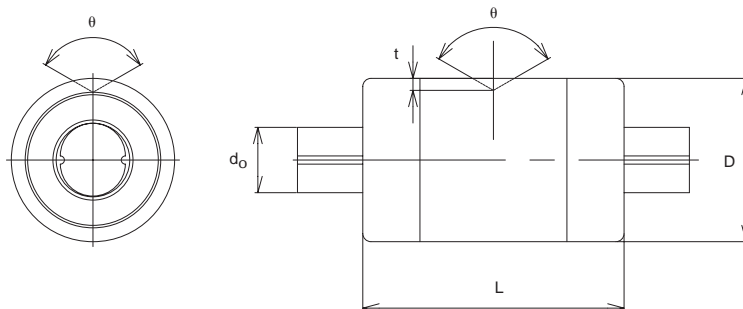
- **World's smallest class, ultra compact size**

The micro ballsplines of LT type consists of balls circulating between shaft and nut in precision grooves. Linear movement and torque transmission can therefore be achieved in a very compact space.

- **Highly corrosion resistant**

Since these Ballsplines are made of stainless steel, they are highly resistant to corrosion.

- **Smooth motion with low rolling resistance**



Unit: mm

Model No.	Nut					Shaft			Load rating		Basic torque rating	
	Outer diameter	Length L	Fixing groove t	Fixing groove $\theta$	Tolerance h6	Outer diameter	max. Length	dynamic C [N]	basic C <sub>0</sub> [N]	dynamic C <sub>1</sub> [Nm]	basic C <sub>0t</sub> [Nm]	
d <sub>o</sub>	d <sub>o</sub>					Tolerance h7				C <sub>1</sub>	C <sub>0t</sub>	
LT1	4	7	0.6	120	1	50	56	95	0.033	0.057		
LT2	5	8.5	0.7	120	2	100	123	193	0.141	0.222		
LT3	6	10	0.8	120	3	150	208	305	0.354	0.518		