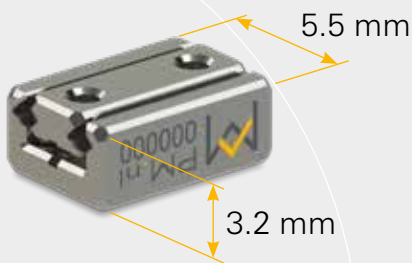


# MSR 3 MINIATURE SLIDE

## The smallest slide in the industry



### INCLUDING:

- CROSSED ROLLER CAGE
- ANTI-CAGE CREEP TECHNOLOGY

## NEW! MINIATURE SLIDE MSR 3, HIGH PRECISION IN MINIATURE SIZE

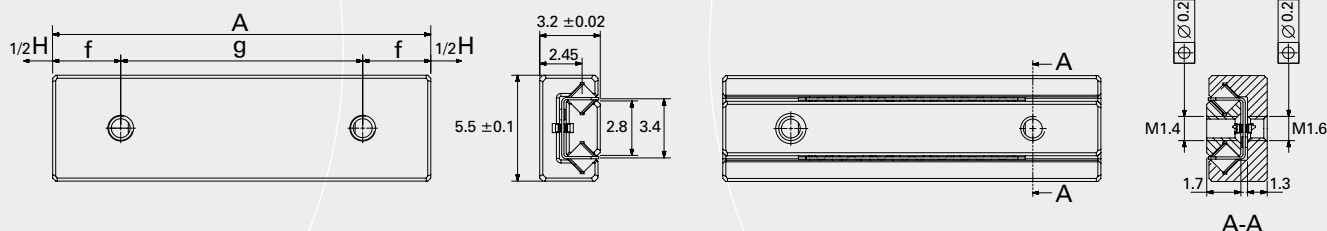
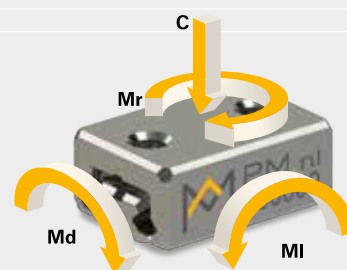
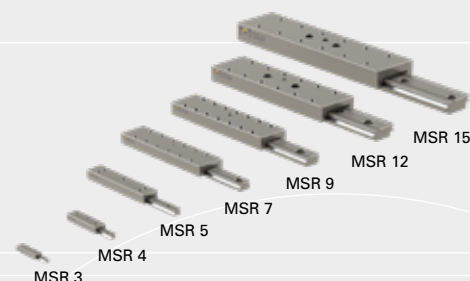
With a height of only 3.2 mm and a width of 5.5 mm, the new size offers maximum space savings. Especially with limited installation space, the MSR 3 provides the advantages of **cross roller bearings together with an anti-cage creep solution** in the smallest package available. The MSR 3 offers high stiffness, high durability and high precision in very tight installation spaces.

### THE MSR RANGE OFFERS 7 SIZES

The MSR miniature slides can accommodate loads from all directions and guarantee high stiffness and precision in use. There are seven sizes in different lengths and strokes to choose from. The new MSR 3 comes in four different lengths: 8, 15, 20 and 25 mm and covers stroke lengths from 5 - 20 mm.

The MSR 3 includes all design features of the MSR range:

- 100% stainless steel design makes them also usable in medical and semiconductor equipment
- Crossed roller bearings permits load from every direction and offers stiffness enabling high-precision motion
- Preloaded assembly guarantees play-free motion
- Anti-cage creep mechanism makes the slide usable in every mounting orientation and increases the reliability
- Ultra-compact design makes the MSR slide attractive for miniature machines and instruments with a small footprint



Type					Weight (g)	C (N)		F <sub>max</sub> (N)	MI <sub>0</sub> (Ncm)		Md <sub>0</sub> (Ncm)		Mr <sub>0</sub> (Ncm)	
	A	Stroke H	f	g		dynamic	static		static	static	static	static	static	
MSR 3-8	8	5	1.5	5	0.9	191	287	47	39	20	20			
MSR 3-15	15	12	2.5	10	1.7	263	430	66	144	31	43			
MSR 3-20	20	16	2.5	15	2.2	330	573	83	184	41	62			
MSR 3-25	25	20	2.5	20	2.8	393	716	98	584	51	98			

Subject to change without notice

Units: mm

Load rating values  $C_{dyn}$  and  $C_0$  are calculated according to ISO 14728.  $C_{dyn}$  represents the dynamic load rating: the load at which 90% of the slides can withstand 100km of use.  $C_0$  represents the static load rating: the maximum load for which all deformations are elastic, so no permanent deformations occur.  $F_{max}$ ,  $MI_0$ ,  $Md_0$  and  $Mr_0$  are the advised limit loads to guarantee long-term accurate and smooth motion, based on decades of experience in the precision industry.

**Special options:** Cleanroom assembly and packaging optional. Various grease options available, such as vacuum compatible grease.

**Transport packaging:** The MSR 3 slide will be delivered with a transport lock screw located in the center rail. Shortly before installation this screw must be removed.

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