

Newsrelease

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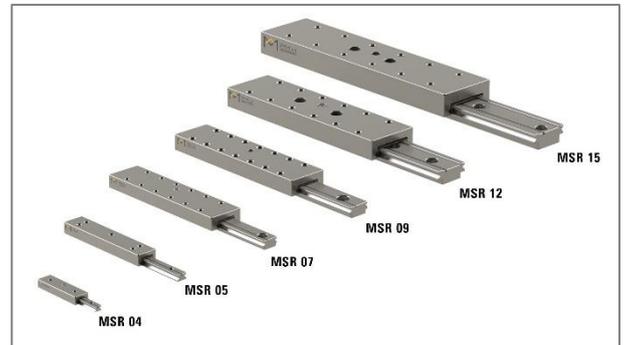
Subject: New product line announcement

Miniature slide MSR for highest precision and speed

PM announce the introduction of the next generation of micro slides: the MSR. This product has been developed according to the raising demand for smaller, compact linear slides which are capable to move faster and more precise. The micro slides are developed for maximum output in micro-assembly machines and pick-and-place machines. The MSR micro slide can also be used in applications for repetitive minor movements in tight spaces in combination with relatively high loads.

Six sizes

The miniature slide MSR consists out of 6 particular sizes and is available in different lengths and strokes. The smallest has a size of 4, with a rail width of 4 mm and starts with a stroke of 5 mm. The MSR range extends to size 15 with a rail width of maximum 15 mm and max. travel of 112 mm. The smallest miniature slide is MSR 4 with an overall height of just a 4mm and overall width of 7mm and 10 mm length.



High loads and accelerations capabilities

All parts are manufactured out of corrosion-resistant steel, for the bearings high-precision cylindrical rollers are used. These rollers are arranged in a crisscross pattern; meaning that each roller is oriented at a 90 degrees angle relative to the one next to it, and being kept in a stainless steel cage. This design enables the slide to support loads and moments from all directions and it also contributes to high stiffness. The max. acceleration is determined at 200 m/s² and max. dynamic load capacity is 7819 N.

Integrated Anti-Cage Creep mechanism ACCI

All sizes of the MSR slides are featured with an advanced and robust anti-cage creep mechanism. It will retain the roller cage in position under the most demanding conditions, like high accelerations and vertical mounting orientation. ACCI guarantees that the stroke always can always be achieved, even under the harshest environments.



Easy mounting – High precision

The miniature slide table and center rail have a standard attachment hole pattern with countersunk and treaded holes. This enables the user to mount the slide easily and simply into the application. All the miniature slides are in-house preloaded by means of geometry pairing of the cylindrical rollers within tolerances of just 0.5 micron. This results in nearly frictionless motion with a high precision stroke and a smooth running behaviour.



Unique Design

The MSR miniature slide is unique in its class. The combination of crossed roller technology and anti-cage creep mechanism in this small slide dimensions were previously thought of as impossible. The designers at PM have managed the unthinkable and placed these parts in a compact package.

The company

PM is a technologically driven family business that is active worldwide in the field of linear bearings (linear guides), linear slides and motion systems. The linear guides and slides are known for their high precision, low friction and high running performance. The products are made in the Netherlands and meet the strictest quality requirements.

More information:

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