



FL 1705
For technical personnel only!
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PRODUCT APPLICATION

SLIDING GUIDANCE IN AUTOMATIC PLACEMENT MACHINE

INDUSTRY: ENGINEERING, PLANT ENGINEERING

PRODUCT USED

Permaglide® strips type PAS ... P180

FUNCTION

Automatic placement machines are used e.g. in the production of printed circuit boards. The printed circuit boards are placed on a longitudinally movable slide. The gripper of the placement robot places electronic components on the printed circuit boards.

REQUIREMENTS FOR THE BEARINGS

- smooth-running a jerk-free guidance
- high cleanliness
- low installation dimensions
- simple design

ADVANTAGES OF THE PERMAGLIDE® P180 SLIDING STRIPS FOR USE IN SLIDING GUIDANCE

- The jerk-free and low-noise operation of the slide is guaranteed by the low friction value and the good sliding properties of the P180 sliding strips.
- Permaglide® P180 is suitable for dry running, meaning that the surrounding area is not soiled by lubricant.
- The bearing with strips requires minimal installation space.
- A simple design is achieved by sticking the strips onto the frame.

BEARING WITH PERMAGLIDE® P180 STRIPS

In the application, the bearing of the sliding guidance was achieved with 2 maintenance-free sliding strips made from the material Permaglide® P180. The slide glides smoothly and jerk-free on the strip and can thus be positioned extremely precisely.

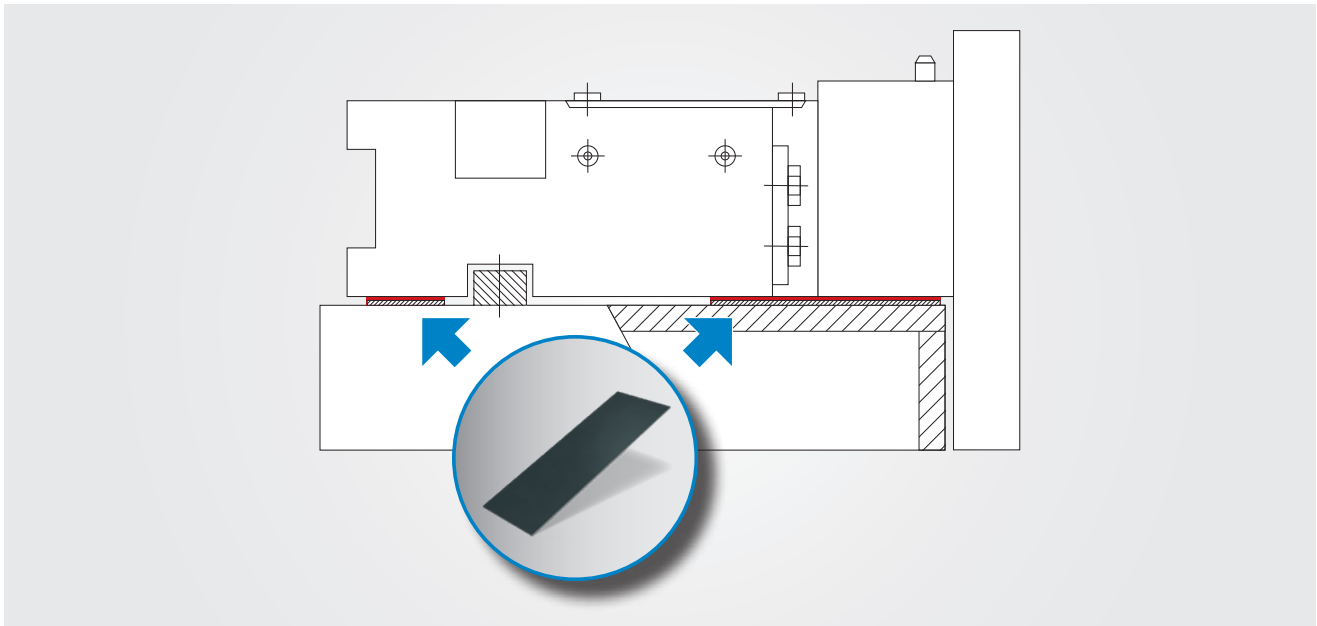


Automatic placement machine



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Bearings in a sliding guidance with Permaglide® sliding strips, type PAS ... P180

FURTHER ADVANTAGES OF THE MATERIAL PERMAGLIDE® P180

- very low stick-slip tendency
- low wear
- good chemical resistance
- no tendency to fuse with metal
- largely resistant to swelling
- does not absorb water

DESCRIPTION OF MATERIAL

Permaglide® P180 is a robust bearing material that has the highest levels of tribological performance.

It is designed for maintenance-free, dry-running applications, but can also be employed in systems with liquid lubrication.

PREFERRED AREAS OF APPLICATION

- maintenance-free operation under dry-running conditions
- rotating or oscillating movements up to a speed of 2 m/s
- linear movements
- temperature range -200 °C to 280 °C



Further information on Permaglide® P180 plain bearing bushes

- Permaglide® catalogue, item no. 50003863-02
- Permaglide® OnlineShop shop.permaglide.de