



FL 1705

For technical personnel only!

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# APPLICATION INFO

## SLIDING GUIDANCE IN AUTOMATIC PLACEMENT MACHINE

### INDUSTRY

Engineering, plant engineering

### PRODUCT USED

KS PERMAGLIDE® strips  
type PAS ... P10

### 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 KS PERMAGLIDE® P10 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 P10 sliding strips.
- KS PERMAGLIDE® P10 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 KS PERMAGLIDE® P10 STRIPS

In the application, the bearing of the sliding guidance was achieved with 2 maintenance-free sliding strips made from the material KS PERMAGLIDE® P10. The slide glides smoothly and jerk-free on the strip and can thus be positioned extremely precisely.



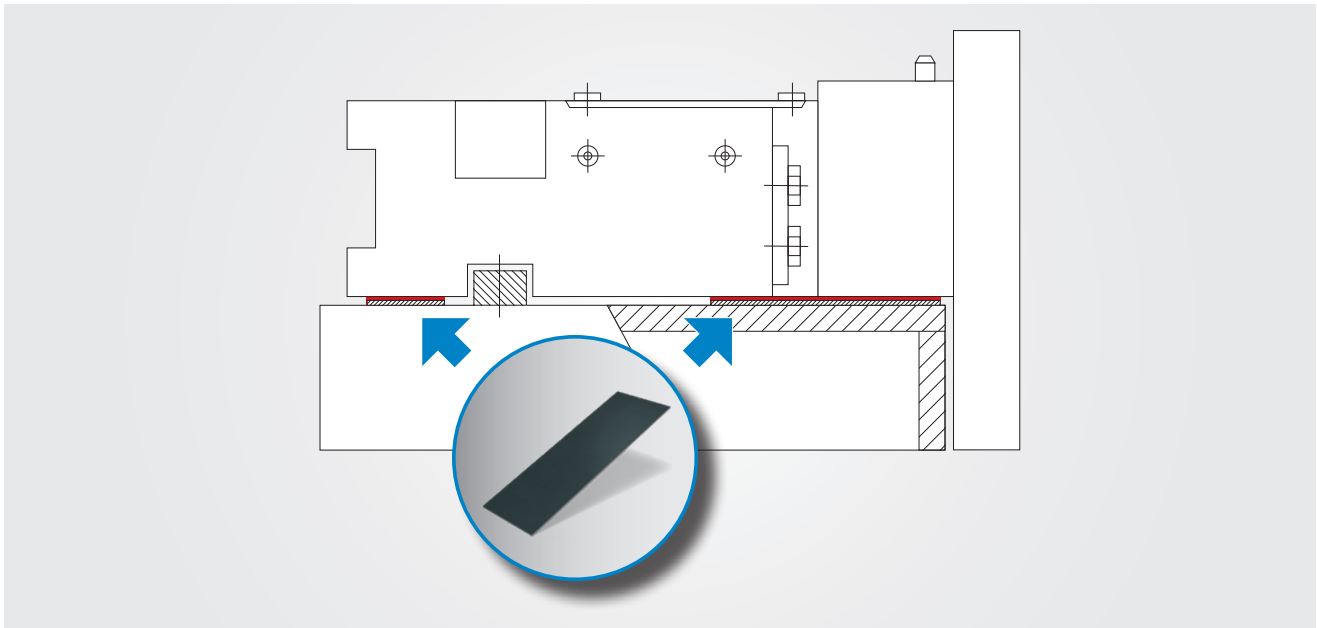
Automatic placement machine



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Bearings in a sliding guidance with KS PERMAGLIDE® sliding strips, type PAS ... P10

### FURTHER ADVANTAGES OF THE MATERIAL KS PERMAGLIDE® P10

- 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

KS PERMAGLIDE® P10 is a leaded, 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. The use of grease as a lubricant in contact with P10 is only possible to a limited extent, and is not recommended.

### 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 KS PERMAGLIDE®

#### PLAIN BEARINGS

KS PERMAGLIDE® catalogue, item no. 50003863-02

KS PERMAGLIDE® online catalogue <http://shop.permaglide.com>