



PRODUCT APPLICATION

PERMAGLIDE® PLAIN BEARINGS FRANKING MACHINES AND INSERTERS

SECTOR: OFFICE ENGINEERING, PRINTING INDUSTRY, PACKAGING INDUSTRY

PRODUCT USED

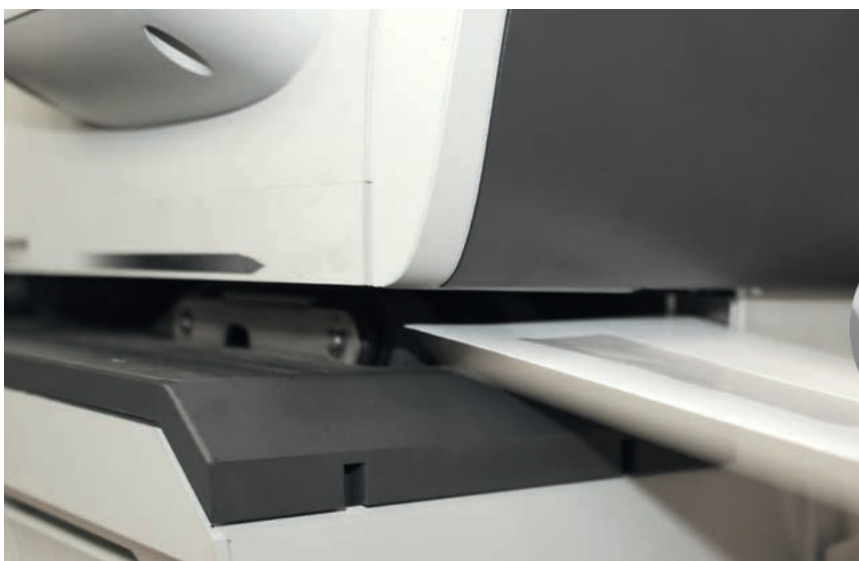
Permaglide® cylindrical plain bearing bushing, type PAP ... P180

Bearing of feed shafts and rollers with Permaglide® P180 plain bearing bushes

Franking and inserting require a great number of precise movements, e.g. the addition and removal of envelopes and paper as well as paper folding. The bearing positions are mostly subject to an oscillating movement. Cylindrical plain bearing bushes made from unleaded Permaglide® P180 are used for transport shafts and rollers, for example. The material is highly suitable for bearings due to its low wear and low operating bearing clearance.

Due to weight and installation space, the sintered bronze bushes previously used in the application have been almost completely replaced by slim Permaglide® plain bearing bushes. The all-plastic plain bearings previously used by a manufacturer are too easily worn and do not guarantee sufficient protection against fractures.

Needle bearings can also be replaced by Permaglide® plain bearing bushes for these applications. Permaglide® plain bearing bushes are economical and take up very little space compared with needle bearings.



Franking machine application



Permaglide® P180 plain bearing bushing

**Advantage: reliable function of the bearing with Permaglide®****P180 plain bearings**

- Unleaded
- Compliant with Directive 2011/65/EU (RoHS II)
- Maintenance-free operation under dry-running conditions
- Low wear
- Very low stick-slip tendency
- Low and constant friction value
- Rotating or oscillating movements up to a speed of 2 m/s
- Temperature range –200°C to 280°C

Description of material

Permaglide® P180 is a lead-free, high-performance material with outstanding tribological performance. It is designed for maintenance-free applications under dry-running conditions. In addition, it can be used in both grease- and liquid-lubricated systems. P180 is a further development of the tried and tested P14 material with improved resilience and wear resistance whether in dry or lubricated applications. The material can also be used in tribological systems that were previously only operated with materials containing lead, such as P10.

Other names for franking machines and inserters

- Franking systems
- Postage meters
- Envelope stuffers

**Further information on Permaglide® plain bearings**

- Permaglide® catalogue, item no. 50003863-02
- Permaglide® online catalogue shop.permaglide.com