



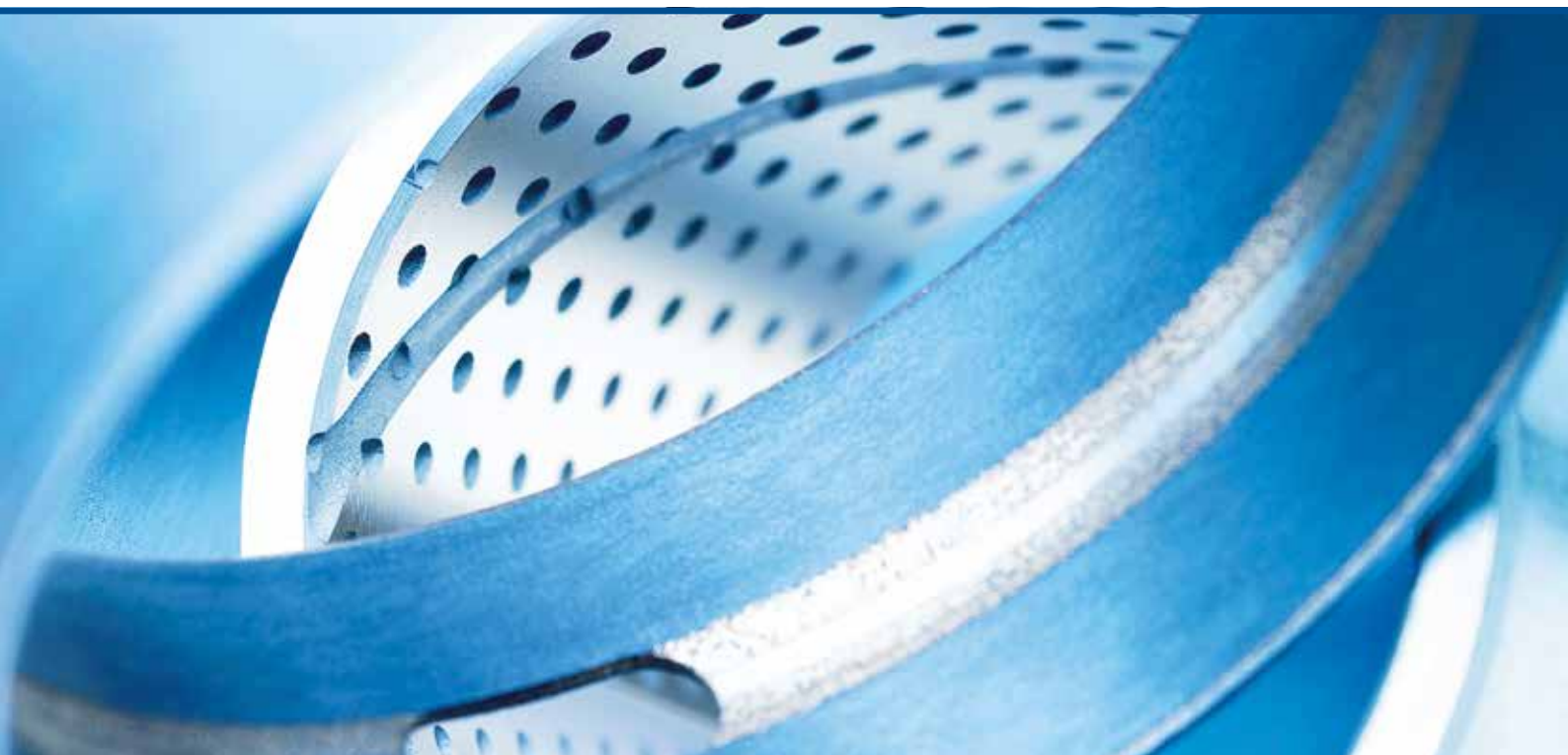
# Permaglide®

Low-maintenance and maintenance-free plain bearings





We are always there – at your service



We get things moving!



**KSPG (Kolbenschmidt Pierburg).**

As long-standing partners to the automotive industry, the companies in the KSPG Group develop innovative components and system solutions with acknowledged competence for air supply and emission control, for oil and water pumps, for pistons, engine blocks and engine bearings. The products comply with the high demands and quality standards of the automotive industry. Low emission, reduced fuel consumption, reliability, quality and safety – these are the forces that drive innovation at Kolbenschmidt Pierburg.



**KS Gleitlager**

In the KSPG Group, KS Gleitlager GmbH is the specialist for high-precision gliding elements. The introduction of new technologies in production and surface finishing, innovative developments and a clear customer focus have made KS Gleitlager into one of the world's leading suppliers of engine bearings and dry bearings (Permaglide®).



**Motor Service**

The Motor Service Group is the sales organisation for the worldwide aftermarket activities of Kolbenschmidt Pierburg. It is one of the leading suppliers of engine components for the independent aftermarket including the premium brands KOLBENSCHMIDT, PIERBURG and TRW EngineComponents.



*German premium product quality from a renowned OE supplier and high reliability of supply from a service-oriented sales specialist – the same applies to Permaglide® products from KS Gleitlager.*



Here, everything revolves around Permaglide®

## Permaglide® plain bearings

The name Permaglide®, a registered trademark of KS Gleitlager, embodies the principle of permanently low-wear gliding. The use of plastic on a metallic base material has created a material combination that unites excellent gliding properties

with the load carrying capacity and heat conductivity of metal. The use of solid lubricants in the plastic matrix allows operation **without oil or grease lubrication** – these are Permaglide® plain bearings in material group P1, incl. P10. It is not

always possible to accomplish the tasks of a plain bearing application with products made from maintenance-free materials, however. In such cases, low-maintenance P2 materials are available.

## Permaglide® P1

Maintenance-free plain bearings, suitable for dry running

Designs	Materials
Bushes	P10, P10Bz*, P14, P147*
Collar bushes	P10, P10Bz*, P14, P147*
Thrust washers	P10, P14, P147*
Strips	P10, P10Bz*, P14, P147*

### The special properties of Permaglide® P1:

- Universal
- Low friction, high wear resistance
- Extremely good dry running performance, as self-lubricating



Bushes  
P10, P10Bz\*, P14, P147\*

Flange bushes  
P10, P10Bz\*, P14, P147\*

Thrust washers  
P10, P14, P147\*

Strips  
P10, P10Bz\*, P14, P147\*

## Permaglide® P2

Low-maintenance plain bearings, lubrication required

Designs	Materials
Bushes	P20, P22*, P23*, P200, P202*, P203*
Thrust washers	P20, P22*, P23*, P200, P202*, P203*
Strips	P20, P22*, P23*, P200, P202*, P203*



Bushes  
P20, P22\*, P23\*, P200, P202\*, P203\*

Thrust washers  
P20, P22\*, P23\*, P200, P202\*, P203\*

Strips  
P20, P22\*, P23\*, P200, P202\*, P203\*

\* on request



ORIGINAL  
PERMAGLIDE®

[www.permaglide.com](http://www.permaglide.com)



Permaglide® Partner:

Headquarters:  
**MS Motor Service International GmbH**  
Wilhelm-Maybach-Straße 14-18  
74196 Neuenstadt, Germany  
[www.ms-motor-service.com](http://www.ms-motor-service.com)

Production:  
**KS Gleitlager GmbH**  
Am Bahnhof 14  
68789 St. Leon-Rot, Germany  
Phone: +49 (0) 6227 / 56-0  
Fax: +49 (0) 6227 / 56-302  
[www.kspg-ag.de](http://www.kspg-ag.de)

KSPG AUTOMOTIVE GROUP

