PRODUCT APPLICATION

KS PERMAGLIDE® plain bearings Bearing in radial piston machines

Sector: Construction machines, hydraulics

Product used:
KS PERMAGLIDE® half-shell plain bearings, design PAX ... **P23 / P203**

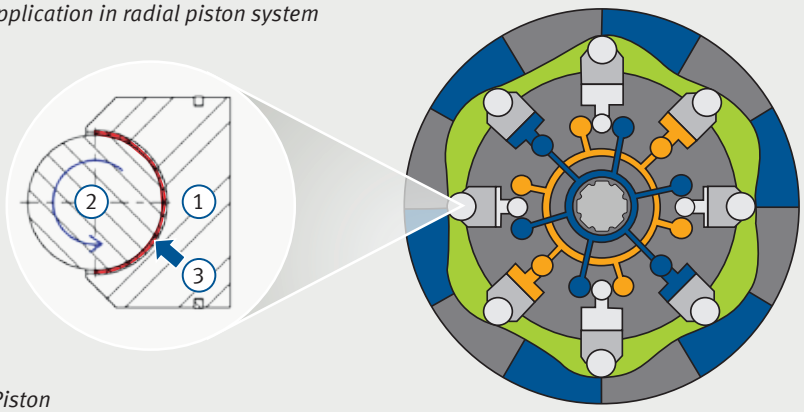
Function
Radial piston machines are used in construction machines for crane rotation, for example. Radial piston engines generate very high torques at low speeds. It's a straightforward principle: the pistons are moved radially by hydraulics. Rollers transfer the radial force to a cam track, thereby transforming it into a rotary motion.

Roller bearing in radial piston machines with KS PERMAGLIDE® P23 / P203 half-shell plain bearings
The rollers are supported in half-shells made from the KS PERMAGLIDE® P23 / P203 material. The sliding shells have a smooth surface and support the rollers in the piston base. They are subject to extremely high pressure while only mixed friction is present. The working fluid is hydraulic oil.

Advantage: reliable function of the bearing with KS PERMAGLIDE® P23/P203 plain bearings
- Smooth sliding surface, ready to install
- Low wear
- Insensitive to edge loads
- Good damping characteristics
- Insensitive to impact loads
- Good chemical resistance
- Leaded (P23) or unleaded (P203)

P23 and P203 are special sliding materials offering high performance. They are designed for low-maintenance grease or liquid-lubricated applications.
Materials P23 and P203 have smooth sliding surfaces and can also be used in hydrodynamic conditions.
Materials P23 and P203 are available on request.

Application in radial piston system



1 Piston
2 Roller
3 KS PERMAGLIDE® half-shell plain bearings

Further information on KS PERMAGLIDE® P23/P203 plain bearing bushes

- KS PERMAGLIDE® catalogue, item no. 50003863-02
- KS PERMAGLIDE® online catalogue www.permaglide.com/onlineshop

KSPG Automotive

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