



PRODUCT APPLICATION

PERMAGLIDE® PLAIN BEARINGS DUAL CLUTCH ON TRACTORS

SECTOR: AGRICULTURAL MACHINERY

PRODUCT USED

Permaglide® cylindrical plain bearing bush design PAP ... P180

Dual clutch principle of operation

3 release levers each lift the clutch pressure plates in the centre of the clutch housing against the force of the clutch pressure springs. Lifting the clutch pressure plates disconnects the force flow between the gearbox and the engine.

- Bearing axes of the release levers with Permaglide® PAP ... P180
- Bearing of the pins and eyebolts in the release levers with Permaglide® PAP ... P180

The thin-walled plain bearings with small dimensions are optimal for the compact design of the clutch. The high stress levels from the force of the clutch pressure springs are no problem for the plain bearings. Permaglide® plain bearings are resistant to clutch disc abrasion and can withstand the maximum application temperatures of 180 °C, despite the high levels of stress.

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

- Maintenance-free, low wear
- High durability
- High load resistance, permissible surface pressure up to 250 N/mm²
- High temperature resistance, permissible operating temperature +280 °C
- Resistant to clutch disc abrasion
- Space-saving thanks to thin-wall design



Permaglide® P180 plain bearing bush





Description of material

Permaglide® P180 – robust and reliable

- Universal-use bearing material for dry and lubricated applications
- Composite, multi-layered material: tin bronze sintered onto a steel base, with the friction-reducing additives PTFE and barium sulphate
- High rigidity
- Corrosion protection: galvanised
- Good emergency running property
- High embedding capacity

In damp environments in particular, this sliding layer system provides outstanding protection against corrosion.

The PTFE compound also displays exceptionally low absorption tendency. Absorption of the surrounding fluids, swelling of the materials and chemical damage to interacting sliding partners are efficiently prevented. The result is dimensional stability and optimal guide accuracy during use.



Further information on Permaglide® P180 plain bearing bushes

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