



APPLICATION INFO

PERMAGLIDE® PLAIN BEARINGS: STEERING PIVOTS POTATO HARVESTER

Sector: Agricultural machinery

Products:

Permaglide® plain bearing bush **design PAP ... P200**

Permaglide® thrust washer **design PAW ... P200**

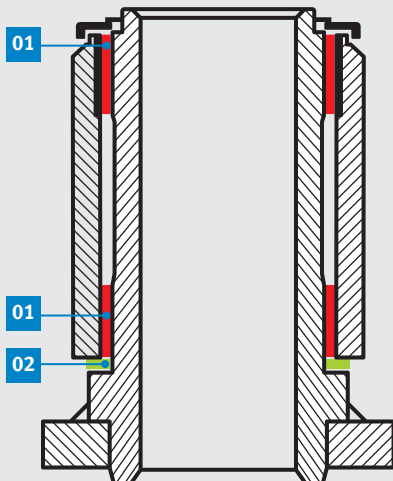
Function

Potato harvesters dig up potatoes with ploughshares, separate the leaves and clean the potatoes. Some machines have integrated reservoirs.

Potato harvesters with their own drive have hydraulic steering. The steering pivots of the machines swivel 90°. The steering pivots are subjected to high weights of up to 15 t. Due to the uneven terrain, the steering pivots are subjected to stress from knocks and impacts. The plain bearings in the steering pivots therefore face high impact loads and edge loads.

Bearing with Permaglide® P200 plain bearing bushes and thrust washers

The bearing positions are subjected to harsh conditions, such as temperature fluctuations, dirt and moisture. During harvest time, the machines are in constant use and must work reliably at all times without maintenance. Signs of corrosion after longer downtime periods must not lead to the bearing becoming stuck.



1 Bush PAP ... P200

2 Thrust washer PAW ... P200

Bearing of the steering pivot with
Permaglide® P200 plain bearings





Using the Permaglide® P200 plain bearing bushes and P200 thrust washers means that the bearing functions reliably despite the difficult operating conditions. The thick plastic sliding layer over the sintered bronze dampens knocks and impacts. The wear resistance of the Permaglide® P200 plain bearings ensures that the steering pivots have a long service life. The bearings retain their good sliding properties even with inadequate lubrication due to lack of maintenance.

Advantages of Permaglide® P200 plain bearings

- Lead-free
- Compliant with Directive 2011/65/EU (RoHS II)
- Highly stressable
- High wear resistance
- Insensitive to shocks and impacts
- Good damping characteristics
- Insensitive to edge loads
- Insensitive to moisture due to low swelling tendency
- Insensitive to dirt
- Low friction coefficient, resulting in low steering forces
- Low-maintenance operation with lubrication
- Good sliding properties even with inadequate lubrication
- Small installation space
- Easy mounting



**Further information on
Permaglide® plain bearings**
Permaglide® catalogue, item
no. 50003863-02

