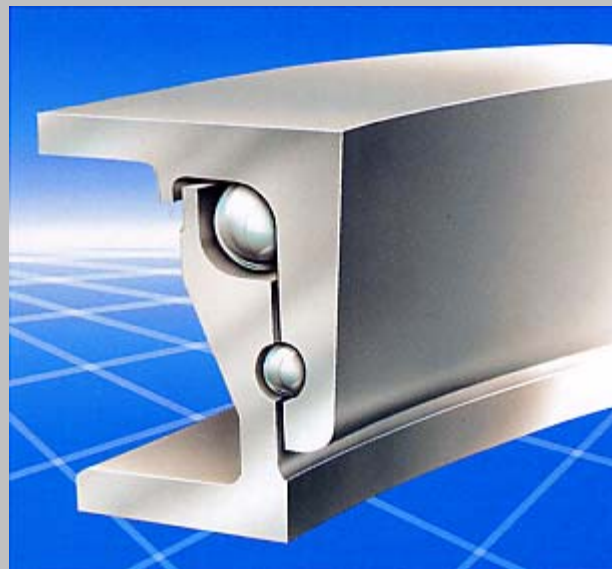


BPW Double Ball Race Turntables

Economy through durability



Jost International

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BPW Double Ball Race Turntables

In a system comparison, Number 1

The quality of BPW double ball race turntables is superior to conventional single race systems. Double ball races ensure optimal distribution of the axial and radial forces incurred.

The superior design of this system, renowned for many years, is demonstrated by the daily use of drawbar trailers, semi-trailers, heavy load transporters and special transportation vehicles.

BPW turntables are used above all where vehicle construction places the highest demands on design and material.



In addition to this the BPW product range includes complete frames and A-frame full trailer drawbars.

Optimal transmission

BPW turntables are equipped with supporting and retaining ball races between the upper and lower rings.

- The axial forces on the turntables are accepted vertically via the large supporting ball bearings.
- The horizontal tensile and compressive forces incurred are accepted by the smaller retaining ball bearings.
- The moment forces, resulting from braking and centrifugal forces, are mutually accepted by the supporting and retaining ball bearings.
- The retaining ball bearings connect the upper and lower turntable rings.

Absolutely reliable

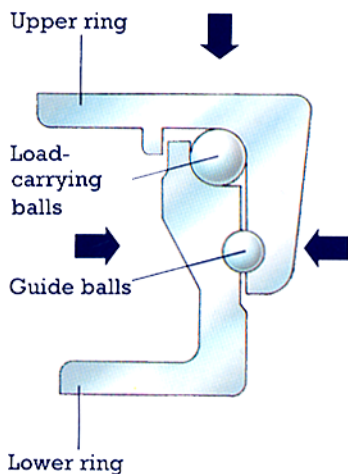
- The design principle ensures maximum reliability because the active axial and radial forces are distributed between the two ball races of BPW turntables.
- Special materials and production methods are selected to achieve high quality levels. The turntable profiles, which are made of hardened steel, are forged under heat, butt-welded and then calibrated under normal temperatures. This process ensures reduced material tension so that they can be used under extreme operational conditions.

Economy

Through durability

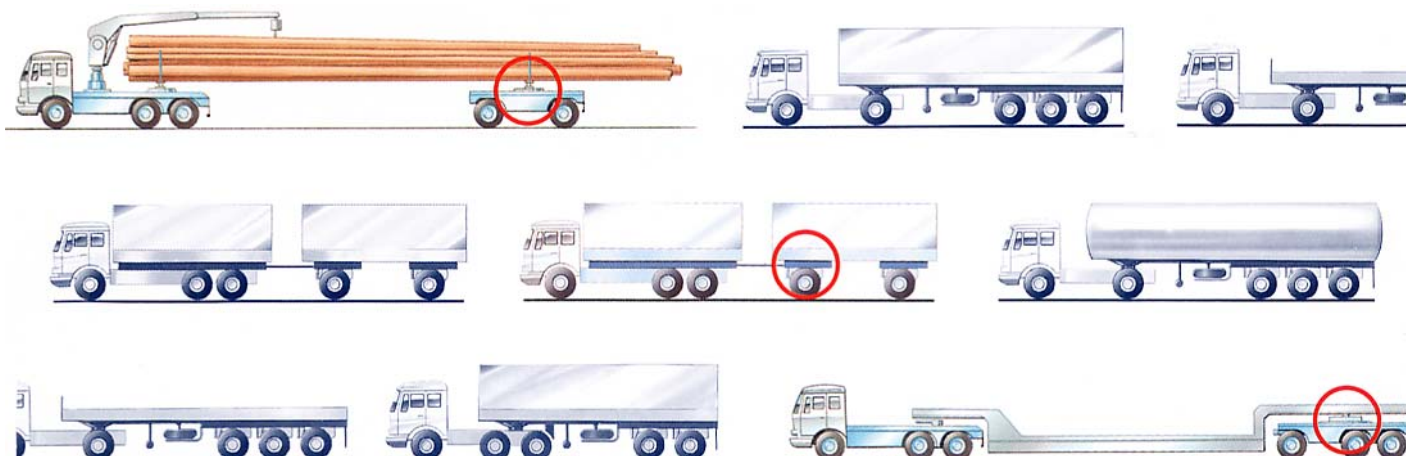
BPW turntables guarantee a minimum of idle time due to their long service life.

- The ball race is additionally hardened when the ball bearings are under load.
- The ball races are permanently protected against dirt and dust by a multi-lip seal.
- The sum of all these advantages ensures reliability, smooth operation and maximum life expectancy.





BPW turntables in use



Design and fitting

instructions

- The max. axial load (see table) is the static axial load acting on the turntable. This value is valid in the direction of force only for vehicles with speeds up to 65 mph. A 25% increase of axial load is permissible for vehicles with speeds up to 19 mph. The BPW code number, manufacturing details, type of turntable and the permissible axial load are stamped into the type plate.
- The support construction of the lower and upper rings must be leveling and has to be free of torsion because otherwise deformation can occur during use which will endanger

the operational dependability. The unevenness of the supporting surfaces should not exceed 1 mm. Larger uneven areas must be compensated. The supporting surface, when divided into at least 4 surface areas of equal size around the circumference, must support at least 50% of the turntable flanges.

- After being bolted together, the turntable flanges must be additionally secured at the top and bottom by at least 4 welded plates (stoppers). This prevents displacement so that the active forces are not solely absorbed by the connecting bolts.
- We recommend the installation of drilled

turntables. If retro-drilling work is necessary, drilling Chippings and cooling fluids must not be allowed to penetrate the ball races.

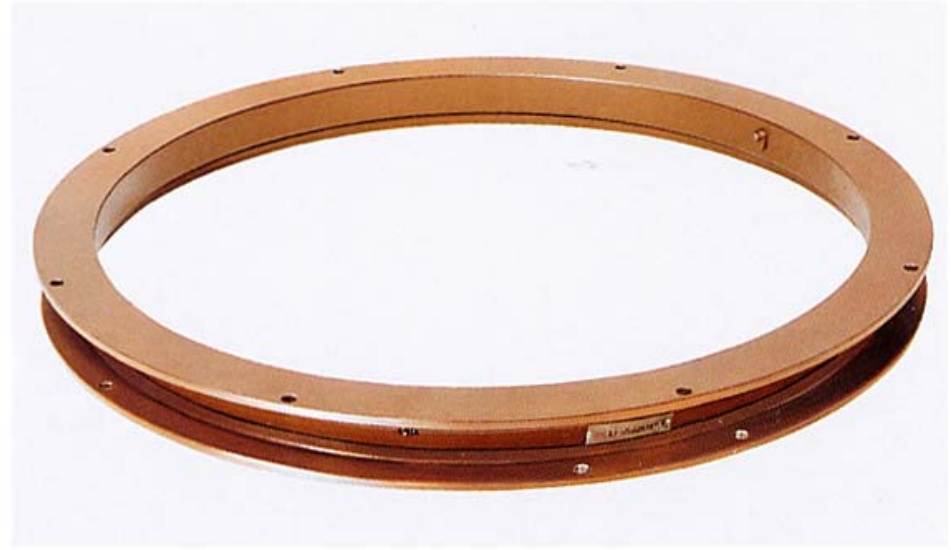
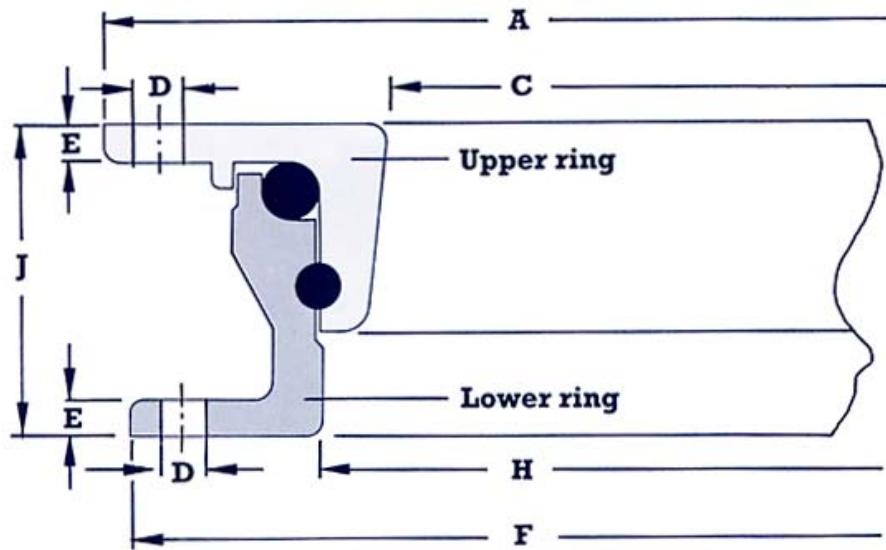
- As the turntables are only slightly lubricated when supplied, they must be lubricated with BPW special long life grease ECO-Li 91 (lithium complex grease) via the grease nipples prior to initial operation.
- BPW turntables are not suitable for applications where multiple rotational movements in excess of 360° occur.
- Special applications require the approval of BPW.

Service and

maintenance

- The turntable bearing is to be lubricated via the grease nipples with BPW special longlife grease ECO-Li 91 (lithium complex grease) every 15,000 miles, but at least every 3 months (or after every 2 – 3 weeks under extreme operational conditions). The grease must not be mixed with other (calcium-base or sodium-base) lubricants.
- All screw connections are to be inspected at regular intervals for tightness and tightened if necessary.
- No welding work is to be carried out on BPW turntables. When welding work is performed on the vehicle the earth lead should be connected in such a manner that no current can flow through the turntable as otherwise the balls and the track can be damaged.

Product Range¹



| BPW Turntable | | | | Upper Ring | | | | Lower Ring | | | | | |
|---------------------|-----------------|-----------------|---------------------------|------------|-----------|---------------|--------------------|------------|-----------|---------------|--------------------|------------------|--------|
| Type | BPW Code number | Max. axial load | Max. total trailer weight | Outer Ø A | Inner Ø C | Bore hole Ø D | Flange thickness E | Outer Ø F | Inner Ø H | Bore hole Ø D | Flange thickness E | Overall height J | Weight |
| | | t ² | t | in. | in. | in. | in. | in. | in. | in. | in. | in. | lbs. |
| DK 80/5 - undrilled | 02.6415.01.00 | 5 | 25 | 26.14 | 20.45 | | 0.35 | 25.59 | 21.81 | | 0.35 | 3.15 | 84 |
| DK 90/12 – drilled* | 02.6415.53.00 | 12 | 50 | 39.37 | 32.83 | 0.66 | 0.39 | 38.86 | 34.29 | 0.66 | 0.39 | 3.54 | 159 |
| DK 90/14 – drilled* | 02.6415.35.00 | 14 | 55 | 39.37 | 32.83 | 0.77 | 0.39 | 38.86 | 34.29 | 0.77 | 0.39 | 3.54 | 159 |
| DK 90/16 – drilled* | 02.6415.39.00 | 16 | 60 | 43.62 | 37.09 | 0.66 | 0.39 | 43.11 | 38.54 | 0.66 | 0.39 | 3.54 | 181 |

* Call Jost International – 1-800-253-5105 or email sales@jostinternational.com for drilling details

Subject to change (without notice)!

30 ton capacity, special requests – call Jost International – 1-800-253-5105 or email: sales@jostinternational.com

¹ Non-standard versions on request.

² Max. axial load = static axial load which is active on the turntable above steered axle.