

Bearing Units

**For textile machines and
general engineering applications**



Top Rollers

High-quality level for modern spinning mills

During the spinning process the quality of the top rollers used in the draft system is of vital importance for the quality of the yarn produced. With Texparts top rollers you create the preconditions for ideal draft results. Top rollers with double-row ball bearings are used as rear and front top rollers as well as top apron rollers in draft equipment of ringspinning and roving frames, both for cotton and worsted spinning.

Top rollers use the standards of up-to-date ball bearing technology and are characterized by the following features:

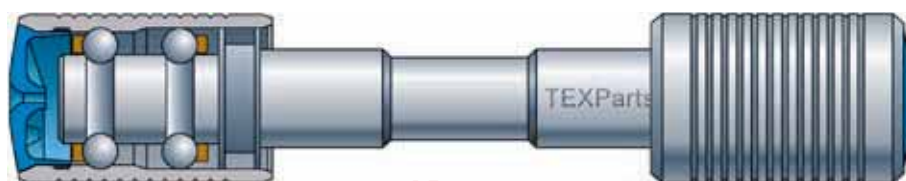
Rear and front top rollers:

- Small roller diameters
- Long service life at high load capacity
- Sturdy, high-quality ball bearings
- Precise running behaviour
- Completely hardened axles
- Ground saddle for exact seating in the weighting arm
- Minimised friction
- Reliable bearing seal
- Long service intervals
- Simple relubrication.

Apron rollers

with special sleeves:

- Corrosion free running surface for the aprons
- Maintenance free due to lifetime lubrication
- Optimised adjustment to top apron cradles OH 2022 / OH 2042.



LP 1002



LP 1003



Bottom Roller Bearings

Precision needle bearings with high-load bearing capacity

Bottom roller bearings UL are used in ring spinning machines and roving frames. As top-quality needle bearings they decisively contribute to spinning quality and operational safety under conditions of high load and speed.

These are the convincing advantages:

- Absolutely quiet and precise running behaviour
- High load bearing capacity
- Smooth and jolt-free start-up
- Ideal running behaviour of all bottom rollers
- Synthetic needle-roller cage with lubrication groove for optimum bearing lubrication
- Secure positioning of the locating cap on outer ring by fine thread of the lubricating nipple
- Hardened locating caps for firm seating of the bottom roller inside the roller stand
- No edge running of the needles in sagging roller stands due to crown-ground outer rings
- Dependable sealing of bearing against fibre fly and dirt.

Texparts bottom roller components are available for **three different guidance versions** in the roller stand:

- **Central guidance** through central holding lug of locating cap for matching recess in roller stand
- **Lateral guidance** through inside fixing at roller stand by means of lateral lugs of locating cap
- Die-cast caps with locating clip for **lateral guidance**.



Contact Roll Assemblies AR

Reliable guidance of the belt in ringspinning machines with sectional tangential belt drive

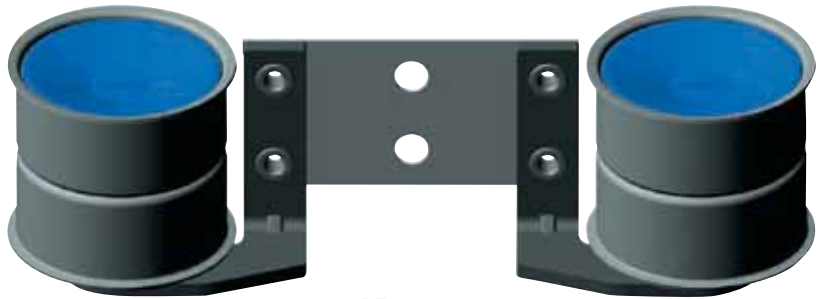
Texparts supplies various contact roll assemblies with different belt widths for ringspinning machines with sectional tangential belt drives. The contact roll assembly provides the necessary, reliable belt contact pressure to the spindle wharves.

Contact rolls from Texparts are characterized by:

- Modular construction consisting of leaf spring links with angles and contact rolls with integrated bearing units
- Steel pulleys with guide flange for belt at maximum concentric running
- Optimised pulley diameter at given space and as a result minimised speed of belt tensioning roller
- Long bearing service life
- Energy saving
- Low noise level
- Contact roll covered on both sides against fibre fly accumulation at rotating elements
- Long service intervals
- Easy access to relubrication boring from front side.



AR 5024



AR 5047



AR 3528



Bearings for OE-spinning machines

Integrated bearing units with maximum running precision

Texparts produces a large variety of integrated bearing units for OE-spinning boxes.

The ball raceways are recessed with highest precision directly into the shaft and shells as bearing outer rings.

All bearing sealings meet individual requirements. Speed range varies between 9.000 and 105.000 rpm. The offered bearings cover the following fields of application:

- Rotor bearings for direct tangential drive
- Bearings for combing rollers
- Elastic bearing shells for vibration damping and reduction of dynamic forces for rotor bearings
- Supporting roll bearing for twin-disc rotor drives
- Tangential belts-contact/guidance rolls
- Delivery rollers with/without covering.

All bearings stand out for maximum running-/assembly precision, high quality and long service life. All constructional parameters are optimally tuned to the individual demands of the respective bearing place, thus making a decisive contribution to the secure function of the total system. All bearings are either maintenance-free or designed for long maintenance intervals.



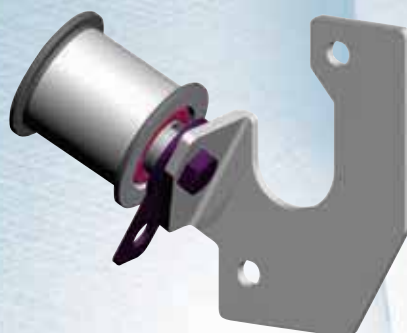
TL 2280



TL 2110



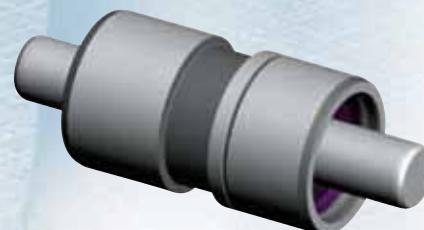
LE 222



SR 28



IL 14



IL 13

Bearings for filament spinning

Maximum precision and quality

Texparts supplies integrated bearing units for friction texturizing, cold and hot drawing processes as well as for

counter rolls and support rolls. All the constructional parameters are optimally tuned to specific applications:

Counter roll CK 668

- Available with wharves and support
- High bearing strength due to ball bearing-/roller seating rows
- Shell equipped with flange-/fixing screw thread
- Corrosion-protected surfaces.

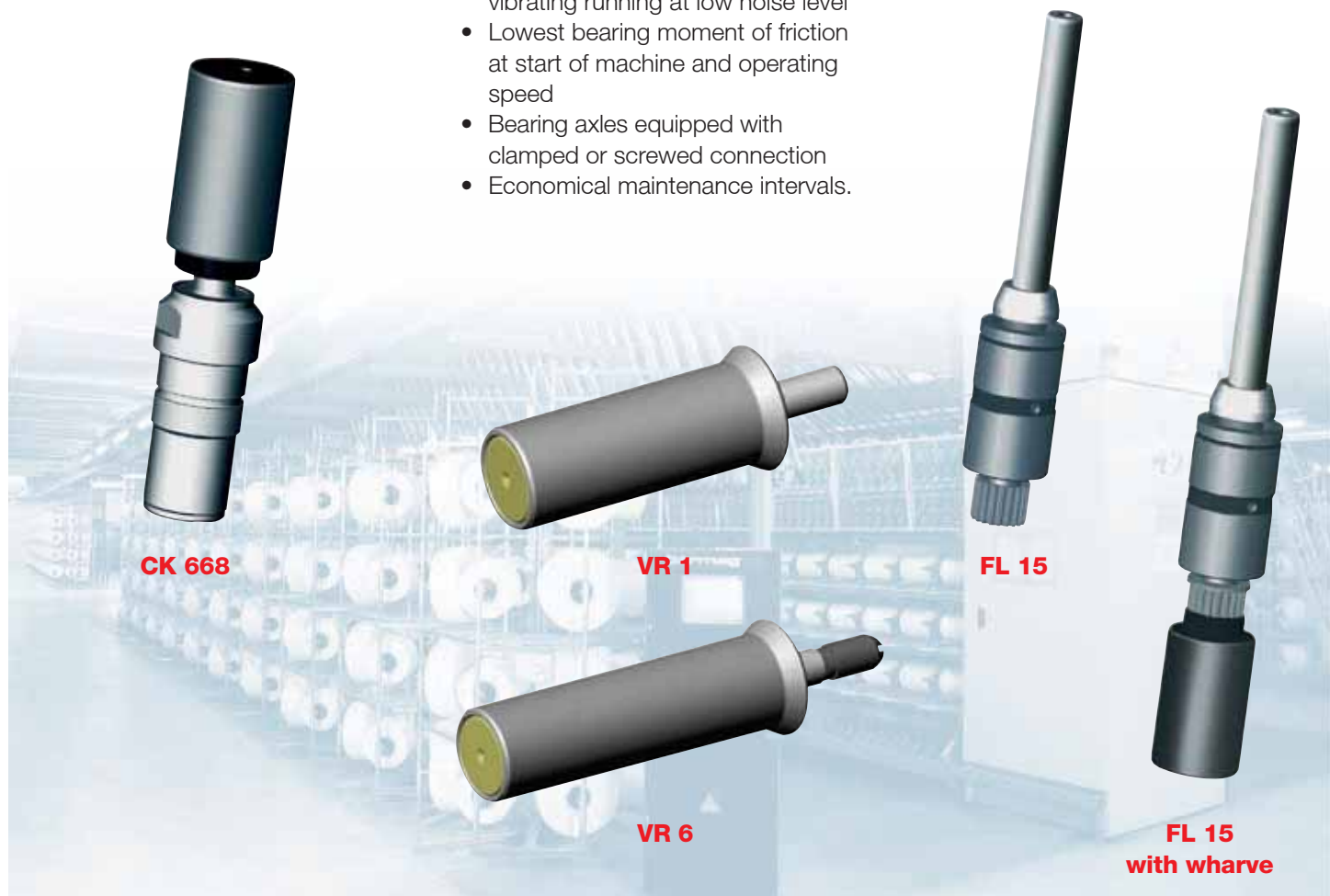
Cold and hot drawing separator rolls VR

They stand out for the following features:

- Temperature range up to 70°C on running surface of cold drawing, up to 130°C for hot drawing
- Speed range up to 30.000 rpm = 2.000 m/min delivery speed
- Lubrication system tuned to temperature range
- Wear resisting hard chromium running surfaces with good grip by special orange-skin effect
- Unbalance-free outer rings for low-vibrating running at low noise level
- Lowest bearing moment of friction at start of machine and operating speed
- Bearing axles equipped with clamped or screwed connection
- Economical maintenance intervals.

Bearings for texturing aggregates FL 15

- Bearing set consisting of 1 driving gear bearing with pulley and 2 driven gear bearings
- Shaft tuned to height of aggregate tower via stop ring
- Corrosion-free bearing surfaces: hard-chromium shafts, zinc coated outer rings
- Bearings with synchronous belt pulleys as well as drive wharves available
- Balanced bearings for vibration-free and quiet running.



Integrated Bearings for mechanical engineering

Optimum solutions for mechanical engineering applications

Texparts produces integrated bearings as units ready to be installed where the raceways are directly ground-in into the shafts and the outer rings simultaneously take over the shell function. They have been designed either as one-/two rows ball bearings or as combined ball-/roller seating rows bearings.

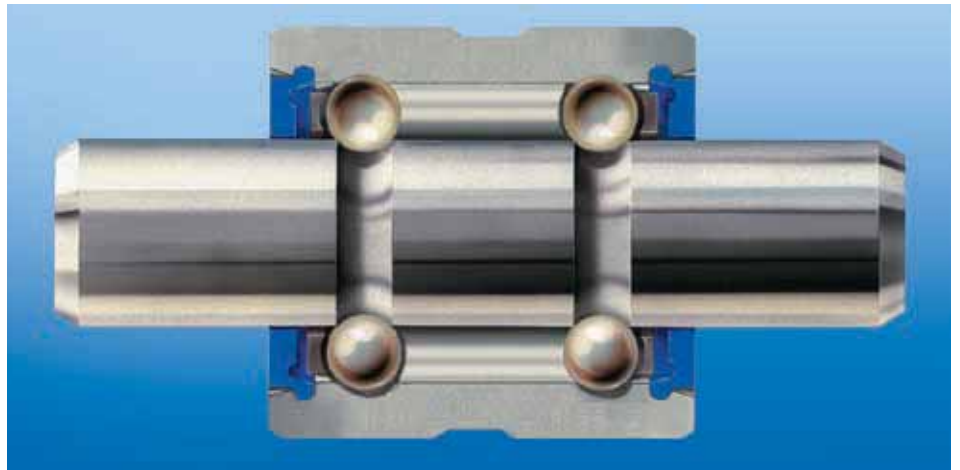
The shaft journals can project over the outer ring - on one or two sides. For certain types deep-drawn flange shells are available, which can be screwed down with the support element independent of a location hole.

Integrated bearings offer the following advantages:

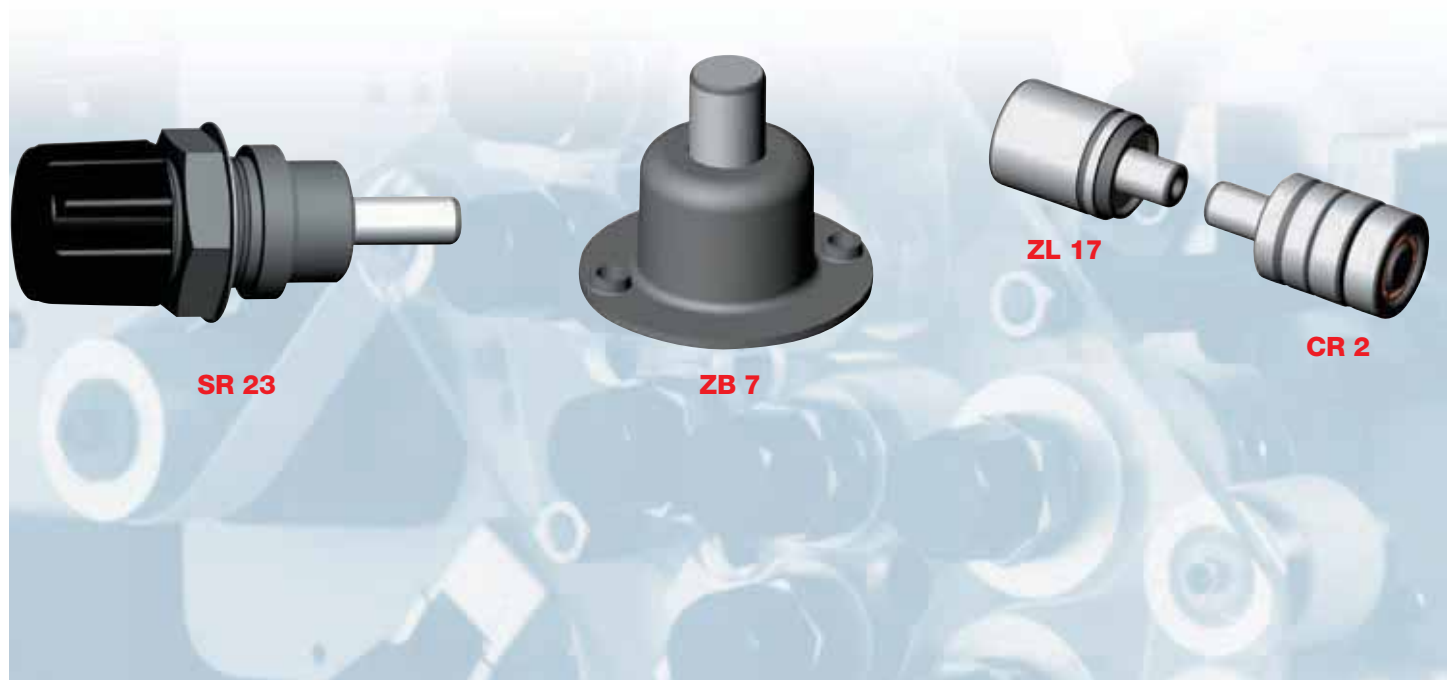
- Minimum outer diameter at maximum bearing capacity
- Simplified assembly due to bearing unit ready for installation
- Exact running behaviour at low noise level
- Low bearing clearance
- Minimum need of maintenance, many types with lifetime lubrication.

Types offered:

- Pressure rollers DR
- Journal bearings ZL
- Journal shells ZB
- Roller journals SR
- Belt tensioning rollers SR
- Bearings CK, CR



Integrated bearing principle



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