

TEXPARTS® BOTTOM ROLLER AND BEARINGS. DRAFTING UNITS.

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QUALITY MAKES THE DIFFERENCE.

Among the machine components responsible for yarn quality, top rollers and bottom rollers are by far the most important. Precise concentricity guarantees high yarn quality (evenness and strength). Equally influential to yarn breaks are the running conditions of top rollers and bottom rollers. Precise running top rollers and bottom rollers allow to extend the spinning limits into finer yarn count ranges.

By means of grinding cots within predetermined time intervals top rollers can always be brought up to optimum concentricity. However, bottom rollers cannot be regenerated in a similar way. The quality features of bottom rollers are to say „inherent“.

Selection of raw material (alloyed steel) and precision of manufacture determine the quality of bottom rollers.

Texparts Bottom Roller Bearings UL

Precision needle bearings for highload 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.



Convincing advantages

- ▶ **Absolutely quiet and precise running behavior**
 - Maximum yarn quality
 - Optimum yarn evenness due to flawless flutes
 - Extension of spinning limits into finer count ranges
- ▶ **High load bearing capacity**
- ▶ **Smooth and jolt free start-up**
 - No yarn quality drop during start up phase
- ▶ **Optimum lubrication due to synthetic needle-roller cage with lubrication groove**
- ▶ **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 crownground outer rings**
- ▶ **Dependable sealing of bearing against fibre fly and dirt**
 - Longer bearing life time

Texparts® Bottom Roller and Bearings

Manufacturing Know-how

Selection of raw material (alloyed steel) and precision of manufacturing determine the quality of bottom rollers. Thanks to a highly developed manufacturing technique, Saurer Components supplies bottom rollers with outstanding narrow tolerances of dimensions B, α and T.

Concentricity of Bottom Rollers

By means of electronically straightening the bottom rollers reach maximum concentricity. Concentricity of neck and bore diameter is positively linked with the fluting.

Coupling of Bottom Rollers

We are paying special attention to the couplings of the bottom rollers. The ever increasing length of ring spinning machines calls for higher requirements on couplings.

The transmission of increasing torque at lowest possible torsion requires a well balanced layout of

- Neck diameter H
- Length of fit PL and
- Length of thread GL

Bottom Roller Product Portfolio

Saurer Components in general supplies hard-chrome plated bottom rollers. Thus absolute protection against corrosion is assured even under extreme climatic conditions.

Bottom Roller for roving and ring spinning machines are available.

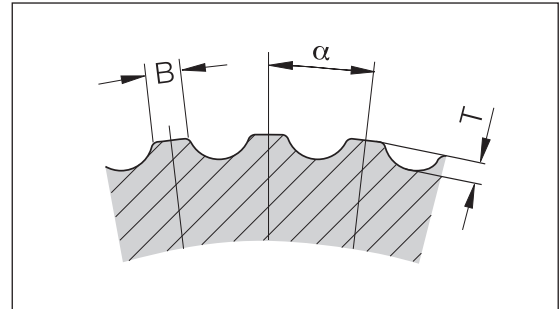
The Bottom Rollers can be supplied in two versions:

- Recessed
- Non recessed

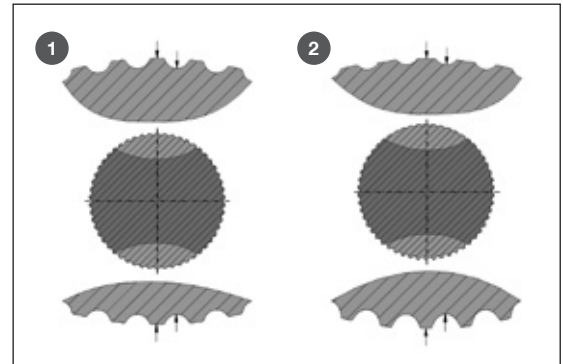
The recessed bottom rollers offer the advantage of easy removal of fibre.

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

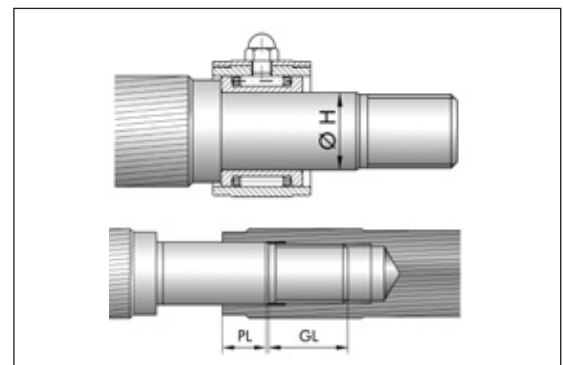


Dimensions

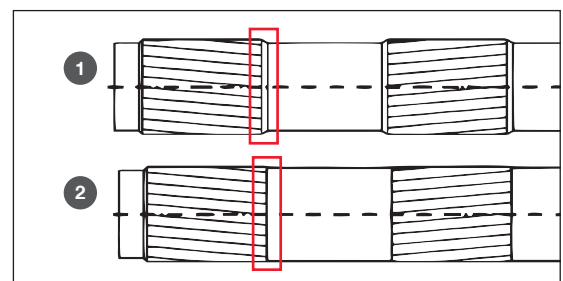


Concentricity:

- 1 Bottom roller with flawless flutes
- 2 Bottom roller with variations in flute dimensions



Coupling systems



Versions:

- 1 Recessed bottom roller
- 2 Non recessed bottom roller