

# Bottom Rollers

**For ringspinning machines  
and roving frames**



# High precision bottom rollers

## The significance of manufacturing quality of bottom rollers

Among the machine components responsible for yarn quality, top rollers and bottom rollers are by far most important.

Precise concentricity is a function for yarn quality (evenness and strength). Equally influential are the running conditions of top rollers and bottom rollers to yarn breakages etc. Precise running top rollers and bottom rollers allow to extend the spinning limits into finer ranges.

By means of grinding cots within prefixed 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“.

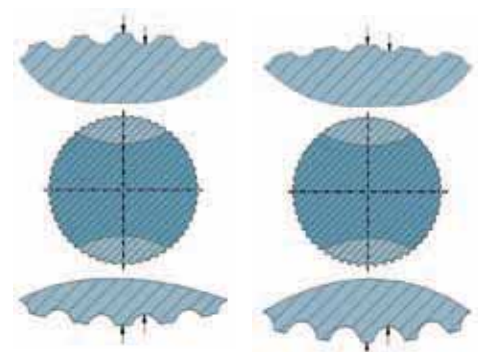
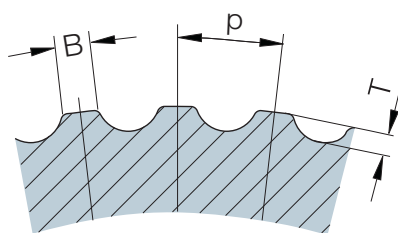
Selection of raw material (alloyed steel) and precision of manufacture determine the quality of bottom rollers.



## The most important quality requirements for a precise bottom roller:

Thanks to a highly developed manufacturing technique respectively adaption of the state-of-art, Texparts supplies bottom rollers with outstanding narrow tolerances of dimensions B, p and T.

Bottom rollers which do not even nearly match those criteria are quite frequently encountered in practical operation. The pictures on the right clearly show the difference between a perfect and an out-of tolerance bottom roller.

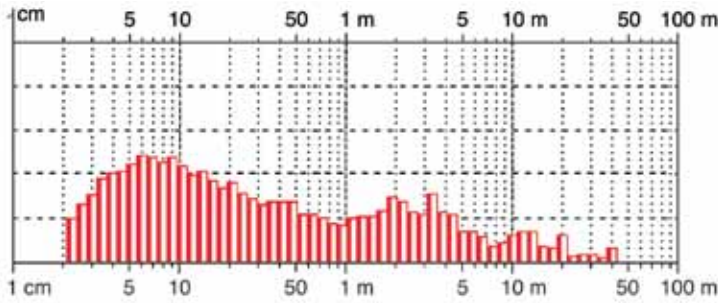


Bottom roller with flawless flutes

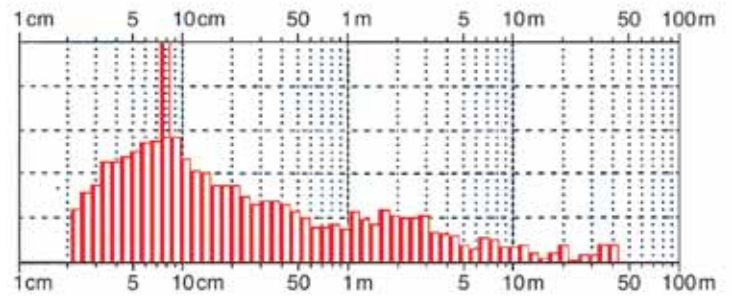
Bottom roller with variations in flute dimensions

# Quality makes the difference

The spectrograms show the effects expressed in yarn evenness.

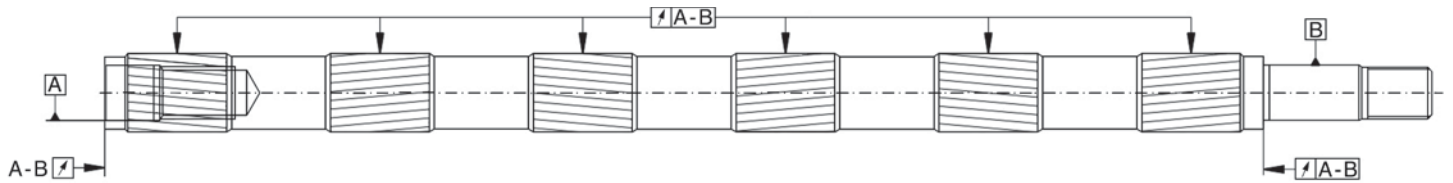


Bottom roller with flawless flutes



Bottom roller with variations in flute dimensions

By means of electronical straightening, the bottom rollers reach maximum concentricity.

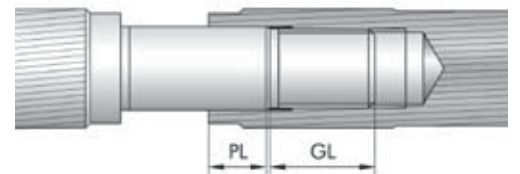
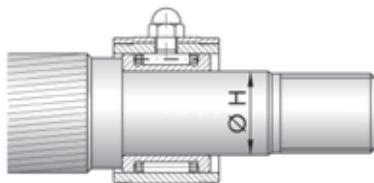


Concentricity of neck and bore diameter is positively linked with the fluting

## High demands on couplings for bottom rollers

Texparts pays special attention to the couplings of the bottom rollers. The ever increasing length of ring spinning machines pose 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 versions

Texparts in general supplies hard-chrome plated bottom rollers. Thus absolute protection against corrosion is assured even under extreme climatical conditions. The bottom rollers can be supplied in two versions:

**a) recessed**

**b) non recessed.**

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

laps. They are especially recommended for processing pure man made fibres and their blends with cotton and wool.

The **non recessed version** is suitable

for processing pure natural fibres (cotton and wool). It offers a more economical pricing.



Recessed bottom roller



Non recessed bottom roller

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