

TRG-5 grease for top rollers



Yarn quality largely depends on the drafting system of a spinning mills' ring frames and roving frames. Top rollers, integral to all drafting systems, have therefore a lot to contribute towards achieving high yarn quality.

Apart from the quality of top rollers, the right and timely lubrication of top rollers is equally crucial for long service life and consistently superior quality yarn. Appropriate lubrication of top roller bearings prevents direct metallic contact between the rolling elements, raceways and cages, and also protects the bearing surfaces from corrosion and wear.

Benefits of lubrication with quality grease:

- Reduces friction
- Reduces wear and tear
- Prevents overheating in production
- Protects bearing/rolling elements against corrosion

It is essential to use the recommended lubrication grease to derive the optimum benefits. The wrong choice of grease leads to shorter lubrication intervals, a higher rate of wear of the bearing components, a reduced

effective service life of top rollers, and results in inferior quality yarn output.

TeraSpin's specially formulated, mineral based, TRG-5 grease is recommended for all makes of top rollers used in roving frames and ring frames.

Benefits of TRG-5 grease:

- High load carrying capacity
- Higher metal affinity resulting in better retainability within the bearing ensuring longer service life
- Effective coverage of contact surfaces
- Water resistant and hence inhibits corrosion
- Highly friction and wear resistant
- Higher range of working temperature (-30°C to +150°C)
- Longer re-lubrication intervals; min. 30000 hours
- Consistent yarn quality output

TRG-5 grease is available in 5 kg packages and is easy to buy, store, and use.

Lubrication tips for top rollers



Lubrication of TeraSpin top rollers with TRG-5 grease:

Maximum speed (RPM)	Lubrication intervals (working hours)
< 500	30,000

Top roller cleaning:

- Use MEK/acetone for cleaning of the top roller surface. Do not use petrol for cleaning
- Clean the grooves on the top roller surface thoroughly. Do not use a knife/tool to clean the grooves
- Ensure that cleaning agent does not enter the bearing portion of the top roller
- Ensure that top roller surface is free from oil/grease traces and that mounting is done only after ensuring that the top roller surface is completely clean and dry
- During remounting of cots, ensure that no traces of old rubber, oil or adhesive are found on the surface of the top roller

Degreasing of top rollers:

It is advisable to degrease the top rollers completely (by using suitable degreasing machines available in the market) before regreasing. This is to ensure optimum effect of the new grease as well as long life of the top rollers.

Re-greasing by flushing method:

- The grease filling should not contain any air cavities
- In order to guarantee reliable lubrication, re-lubrication should be continued until fresh new grease emerges from the sealing shoulder
- TeraSpin top rollers are greased through the hole in the end cover

**TeraSpin top rollers come pre-filled with TRG-5 grease and ready to use.
Hence, no lubrication is needed for newly purchased top rollers until they are due for re-lubrication.**