A.T.E. is a leader in the field of textile engineering with experience of more than 70 years. With domain knowledge spanning from manufacturing, sales and service, A.T.E. has built an excellent reputation both as a manufacturer and provider of services of the highest standard.

A.T.E. has recently acquired the textile machinery component business of SKF India Ltd. These precision components, encompassing spindles and spindle inserts, weighting arms, top rollers, and cradles are now manufactured by A.T.E. based on SKF technology in its state-of-the-art manufacturing facility at Ahmedabad and are marketed under the brand ‘TeraSpin’.

TeraSpin products are built on the deep foundation of SKF knowledge and expertise. With the smooth transfer of know-how and processes to A.T.E., high product performance and durability are guaranteed. A.T.E. is further committed not just to continue the legacy of SKF, but enhance continuously the technology, quality and service in respect of these textile components.

NEW! TeraSpin HF-100 Inserts

New TeraSpin HF-100 is the latest generation high performance, high speed insert. The HF 100 insert, with approx. 20% lesser oil content, is designed to run at 25,000 rpm. TeraSpin offers complete spindles with HF-100 inserts.

Features:
1. Reduced blade length to 100mm
2. High precision and low tolerance bearing design
3. Only two point contact (at footstep & neck bearing)

Benefits:
1. High dimensional stability even at higher speeds
2. Very steady even at high spindle speed leads to low hairiness and reduced end breakage
3. Spindle oil requirement reduced by up to 20%
Top Rollers

TeraSpin top rollers ensure consistent output quality, reliable performance and long service life. Characterized by sturdy construction and outstanding features, TeraSpin top rollers remain the preferred choice of spinning mills across the globe.

Features
- Reliable loading through proven helical coil springs
- Choice of load selection on each top roller
- Maintenance free

Benefits
- Consistent quality of yarn
- No height gauge setting required after each buffing
- Long life - lubrication intervals extended
- Smooth running
- Consistent quality output

Applications
- Cotton, man-made fibres, wool and blends

Variants
- Speed frames
  - PK514-4RF
  - LP314

Ring frames
- PK325 for cotton & short staple man-made fibres
- PK305 for long staple cotton
- PK1500 for speed frames

NEW! LP302 with polymer sleeve as apron roller for better gripping of top apron and resistance to chemical reaction.

Cradles

TeraSpin cradles (both short and medium), made out of polyurethane, ensure consistent output quality and an overall improvement in the performance of drafting systems.

Features
- Made from polyurethane filled with fibre glass for dimensional stability
- Lighter weight as compared to sheet metal cradles
- Design ensures gentle gripping and effective fibre control
- Cleaner surface for smooth rotation of top aprons
- Compact design replaces existing metal cradles

Benefits
- Existing range of cradles can be used on the cradles
- Consistent quality
- Maintenance free

Applications
- Cotton, man-made fibres, wool and blends

Variants
- Speed frames
  - PK314
  - LP314

Ring frames
- QH124 long type
- QH131 medium type
- QH120 short type
- QH124 - long type
- QH131 - medium type
- QH120 - short type

NEW! Cradles for RF
- Adaptable to various apron types: less resistance to apron rotation
- Fixed radius ensures uniform distance between apron nip and frame rail
- Accommodates variation in apron length & maintains uniform apron tension

Benefits
- Better yarn results
- Less contact between apron & cradle
- Easy apron removal during cleaning

Up-gradation Kits

Up-gradation of existing spinning machines with latest technology investments improves productivity, quality and energy efficiency. TeraSpin upgradation kits offer the twin benefits of enhanced performance with low investment.

Features
- Improves machine speed and productivity
- Reduces power consumption
- Improved and consistent quality of output
- Extended machine life

Benefits
- Reduced maintenance cost
- Less apron wear and tear
- Reduced labour cost
- Higher production

Applications
- PK 1500 installation
- PK 3035 installation
- PK 2025 installation

Cradle for RF

New TeraSpin high speed spindle with LP-300 in set designed to run at 2500 rpm. Its compact bolster assembly requires approx. 20% less spindle oil, resulting in usage of energy and spindle oil.

Spinning industry demands special grease to keep drafting top rollers running with less re-lubrication intervals. Also micro dust, fluff, humidity and temperature in the spinning section can seriously impair the performance.

Features
- Reduced lubrication
- High load carrying capacity
- Excellent wear resistance properties
- Wide range of operating temperature

Benefits
- Extended service life
- Reduced maintenance cost

Grease TRG5

Spindles & Inserts

TeraSpin high performance spindles and HF series spindle inserts are well proven in design and widely accepted by spinning mills and machinery manufacturers. Millions of spindles are in operation across the globe.

Features
- High spindle speed up to 25000 rpm
- Compact design bearing
- Spring support for axial load
- Well proven design & cost effective design
- Flexible entry system

Benefits
- Permutes high spindle speed due to smaller variance dia.
- Extremely low friction co-efficient
- Ensures lower vibrations
- Self centering ensures concentric running
- Low energy consumption
- Low noise

Applications
- Suitable for ring spinning and doubling frames for textile mills across the globe.
- Manufacturers. Millions of spindles are in operation accepted by spinning mills and machinery manufacturers.

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Features
- High spindle speed up to 20,000 rpm
- Compact micro bearing
- Spring support for axial load
- Well proven conical belt step design
- Flexible centering device

Benefits
- Permits higher spindle speed due to smaller shaft dia.
- Extremely low friction coefficient
- Permits higher spindle speed due to smaller wharve dia.
- Well proven conical foot step design
- Spring support for axial load
- Compact neck bearing
- High spindle speed up to 25,000 rpm.

Applications
- Ring frames
- Speed frames

Benefits
- Smooth running
- Consistent quality output
- Reliable loading through proven helical coil springs
- Maintenance free
- Choice of load selection on each top roller
- Effective U-type seal
- Through hardening of axle and outer shells
- Sturdy double row ball bearing
- Lubricated with special grease TRG5

Features
- Made from polyester filled with fibre glass for dimensional stability
- Lightweight and compact design for installation on spindles
- Design ensures gentle nipping and effective fibre handling
- Cleaner surface for smooth rotation of top aprons
- Consistently replace existing metal cradles

Benefits
- Existing range of spacers can be used on the cradles
- Consistent quality
- Maintenance free

Applications
- Cotton, man-made fibres, wool and blends

Variants
- Speed Frames
- PK 1500-3D, PK 1500-4D, PK 1600-40 for cotton, man-made fibres, wool and blends

Ring Frames
- PK2025 for cotton & short staple man-made fibres
- PK2035 for long staple man-made fibres
- PK1601-3D, PK1800-3D for cotton

NEW! PK302 with polymer as apron roller for better gripping of top apron and resistance to chemical reaction.

Spinning industry demands special grease to keep drafting top rollers running with longer re-lubrication intervals. Also micro dust, fluff humidity and temperature in the spinning section can seriously impair the performance. TeraSpin TRG5 is specially formulated to meet these stringent working conditions. It is suitable for both low and high speed bearings.

Features
- Barium based grease
- High load carrying capacity
- Excellent water resistance
- Wide range of working temperature (-30°C to +140°C)

Benefits
- Longer lubrication interval – 30,000 hours
- High corrosion resistance
- Extended service life
- Reduced maintenance cost

Spindles & Inserts

Weighting Arms

TeraSpin weighting arms (commonly known as ‘top arm’) drafting systems are well established and accepted by textile mills across the globe. Loading springs used on TeraSpin weighting arms are pre-calibrated for specified loads for an unlimited period of time.

Features
- Reliable loading through proven helical coil springs
- Choice of load selection on each top roller
- Maintenance free

Benefits
- Consistent quality of yarn
- High brightness
- Easy apron removal during cleaning
- Easy apron removal during cleaning
- Consistent quality output
- Existing range of spacers can be used on the cradles
- Consistent quality
- Maintenance free

Applications
- Cotton, man-made fibres, wool and blends

Variants
- Speed Frames
- PK1500-3D, PK1500-4D, PK1600-4D for cotton, man-made fibres, wool and blends

Ring Frames
- PK2025 for cotton & short staple man-made fibres
- PK2035 for long staple man-made fibres
- PK1600-4D for cotton

NEW! PK302 with polymer as apron roller for better gripping of top apron and resistance to chemical reaction.
### Spindles & Inserts

**Features**
- High spindle speed up to 25,000 rpm
- Compact head design
- Spring support for axial load
- Well-proven design for easy step design
- Flexible inserting device

**Benefits**
- Permits higher spindle speed due to smaller radius
- Extremely low friction - co-efficient
- Ensures lower vibrations
- Self-centering ensures consistent running
- Low energy consumption
- Low noise

**Applications**
- Suitable for spinning and doubling frames for cotton, man-made fibres, wool and blends

### Weighting Arms

**Features**
- Spindle gripping of top apron and resistance to chemical reaction.

**Benefits**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life
- High corrosion resistance
- Wider range of working temperature

**Materials**
- Barium based grease

**Grease TRG5**

Spinning industry demands special grease to keep drafting top rollers running with less re-lubrication intervals. Also micro dust, fluff, humidity and temperature in the spinning section can seriously impair the performance of drafting systems. These weighting systems do not need any compressed air or hydraulic pressure to achieve the necessary load on top rollers.

**Up-gradation Kits**

Up-gradation of existing spinning machines with latest technology components improves productivity, quality and energy efficiency. TeraSpin upgradation kits offer the twin benefits of enhanced performance with low investment.

**Features**
- Made from polyamide filled with fibre glass for dimensional stability
- Lightweight and compact metal radial blades
- Design ensures gentle lifting and effective fibre control
- Cleaner surface for smooth rotation of top aprons

### Top Rollers

**Features**
- Consistent quality output
- Maintenance free
- Higher load bearing capacity
- Longer life of top rollers
- Consistent quality output

**Benefits**
- Existing range of cradles can be used on the cradles
- Consistent quality
- Maintenance free

**Applications**
- Cotton, man-made fibres, wool and blends

### Cradles

**Features**
- Existing range of spacers can be used on the cradles
- Consistent quality
- Maintenance free

**Applications**
- Cotton, man-made fibres, wool and blends

### Weighting Arms

**Features**
- Consistent quality output
- Smooth running
- Long re-lubrication intervals reduce maintenance
- No ingress of foreign particles

**Benefits**
- Higher load bearing capacity
- Longer life of top rollers
- Consistent quality output

**Applications**
- Cotton, man-made fibres, wool and blends

### Cradles

**Features**
- Existing range of cradles can be used on the cradles
- Consistent quality
- Maintenance free

**Applications**
- Cotton, man-made fibres, wool and blends

### TeraSpin High Speed Spindles

**Variants**
- HF-21 (upto 20,000 rpm)
- HF-21C (upto 18,000 rpm)
- HF-100 (upto 25,000 rpm)
- HF-1 (upto 22,000 rpm)

**Features**
- Reliably loaded through proven helical coil springs
- Choice of load selection on each top roller
- Maintenance free

**Benefits**
- Consistent quality of yarn
- No height setting needed, which prevents wear and tear on spindles
- Capable of running wide variety of fibres

**Applications**
- Drafting systems suitable for speed frames and ring frames of any make - for cotton, man-made fibres, wool and blends

### PK2025 Installation

**Features**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life

**Benefits**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life

### PK 2025 Installation

**Features**
- Lower noise
- Lower energy consumption
- Ensures lower vibrations
- Smaller wharves for higher spindle speed

**Benefits**
- Higher load bearing capacity
- Longer life of top rollers
- Consistent quality output

**Applications**
- Cotton, man-made fibres, wool and blends

### Cables for RF

**Features**
- Minimum contact area ensures less resistance in capacitance
- Fixed radius ensures uniform distance between apron nip and frame nip
- Accommodates variation in apron length & maintains uniform apron tension

**Benefits**
- Better yarn results
- Easy apron removal during cleaning

### PK 2025 Installation

**Features**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life

**Benefits**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life

### TeraSpin Drafting System

**Features**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life

**Benefits**
- Improved and consistent quality of output
- Reduced maintenance cost
- Extended service life
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- Spindle oil requirement reduced by up to 20%
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3. Spindle oil requirement reduced by approx. 20%

**160/170/180/190/210 mm lift with minimum 18.5 mm wharve dia.**