



Lakshmi Suction Compact System

 **Spinpact**<sup>®</sup>  
Suction Compact System

## Superlative Features

### Top Suction Arrangement

Easier accessibility of bottom rollers in drafting zone  
(Efficient and quicker cleaning)  
Helps in improving housekeeping

### Compact Drive Arrangement

Front bottom roller with gear cut profile for efficient compacting

Idler gear with play adjusting provision for transmitting drive from front bottom roller to compact bottom roller



Compact bottom roller with gear cut profile

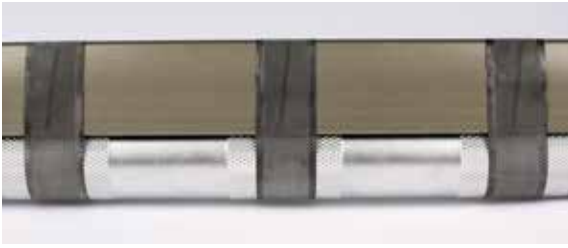
### Perforated Apron

Specially engineered apron for ultimate compacting

### Improvised Compact Roller

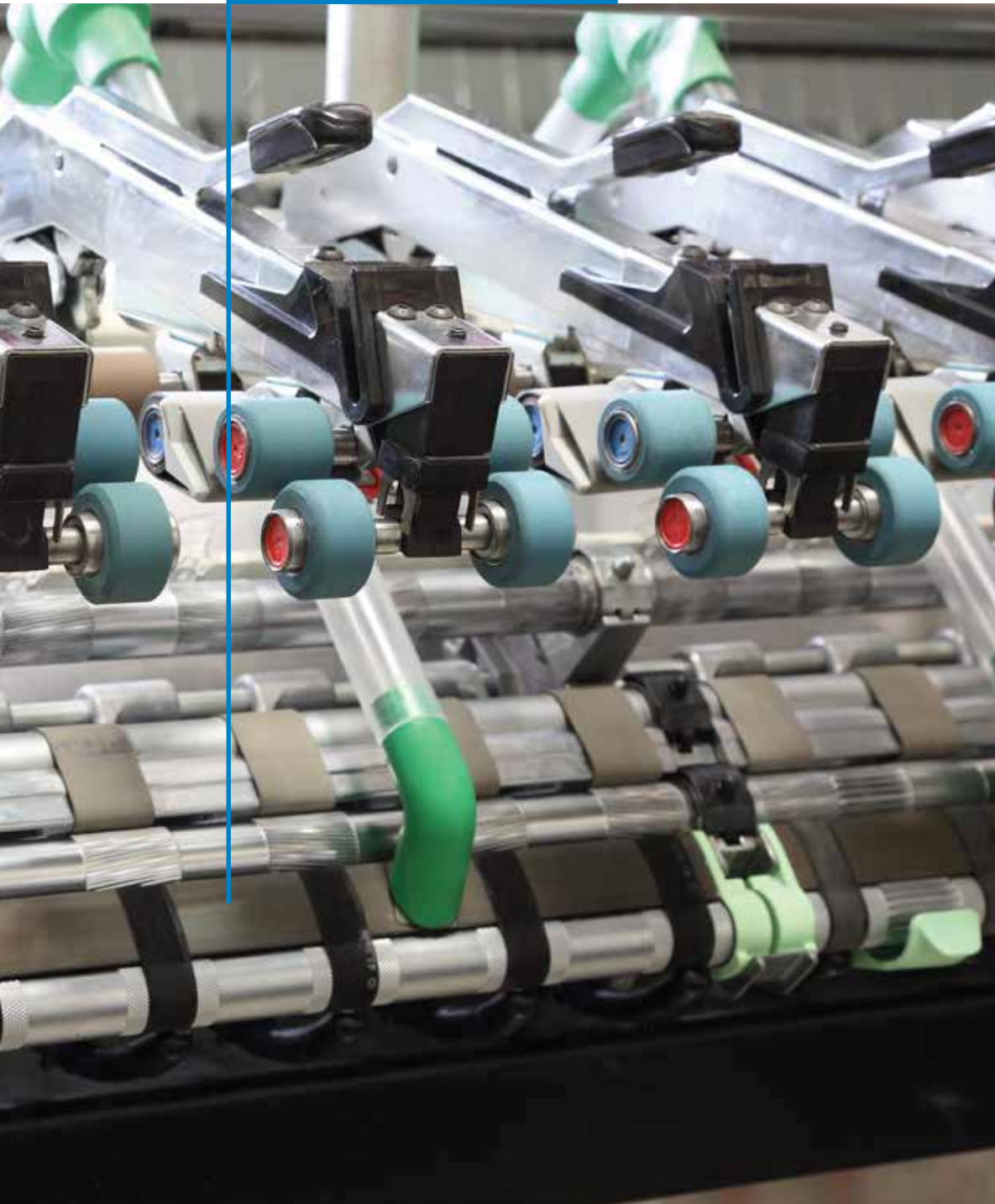
Lesser depth knurling to improve the life of perforated aprons





### Uni-Compact Suction Nozzle

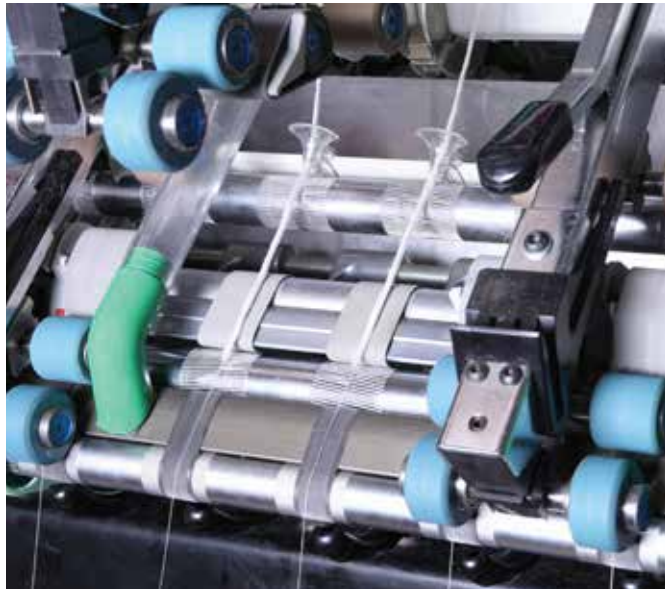
Specially coated aluminium nozzle  
for long lasting performance  
Best slot design for prolonged  
compacting





## Quality at its Best

- ◆ Hi-tech, Unique suction compact system with ease of handling
- ◆ Uni-compact suction nozzle made up of special aluminium alloy for eight spindles
- ◆ Unique top suction arrangement
- ◆ Special spinning angle for enhanced performance
- ◆ Lower power consumption



## Proven Compacting Principle

- ◆ The fibres are well aligned with the help of specially designed slot, angle in the suction nozzle helps in imparting twist in the best manner
- ◆ Extended compact slot length closer to front roller nip, ensures perfect compacting without fibre disturbance
- ◆ Optimum nozzle width for better guiding of fibres entering to the fourth roller (Compact roller)
- ◆ Simultaneous buffing of top roller cots is not required to maintain tension draft
- ◆ Reduced buffing cycle

## Consistent Quality through Direct Loading System (DLS)

- ◆ Loading of delivery roller through coil spring - Ensures uniform load distribution
- ◆ Easy way of adjusting the load of delivery roller
- ◆ No disturbance on top arm load given to other drafting rollers
- ◆ Improvement in yarn quality level (IPI & Classimat)





## 680 mm Spindle Centre to Centre - An ideal angle for Compact

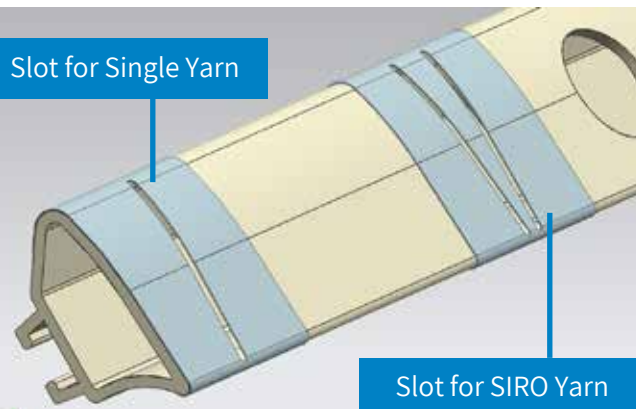
- ◆ Reduces yarn touching the fourth roller after compacting to improve better twist insertion
- ◆ Yarn stretch length reduced so that the twist flow will be better and stable
- ◆ Reduced end breaks
- ◆ Improvement in elongation and strength of the yarn



## Flexibility

- ◆ Single Compact System
- ◆ SIRO Compact System

Slot for Single Yarn



Slot for SIRO Yarn

## Strengthened drive housing arrangement

- ◆ The latest machines are equipped with strengthened drive housing arrangement which supports smooth functioning of Spinpact. Older machines also can be retrofitted with this housing arrangement
- ◆ Compact bottom roller is driven by front bottom roller through an idler gear for every eight spindles
- ◆ Compact bottom roller along with suction assembly is detachable
- ◆ Perforated apron is positively driven

Maximum twist is inserted till the edge of the fleece.



## Suction Arrangement

- ♦ The machine has a stand-alone compact suction unit with inverter control arrangement. The suction pressure can be adjusted as per the requirement of the process, count etc.,
- ♦ The specially designed fan impeller helps in consuming lesser power with consistent air flow
- ♦ The suction arrangement can be mounted at Head Stock, End Stock, Wall and on the machine depending on the space availability and user requirements.



Suction Unit from Head Stock



Suction Unit above End Stock

## User-friendly Compact System

# Yarn Quality Improvements

Superlative performance of Lakshmi suction compact system has been well proven all around the world, with the following yarn quality parameters :

- ♦ Increase in yarn tenacity upto 15%
- ♦ ZWEIGLE yarn hairiness S3 value reduced upto 85%
- ♦ Uster Hairiness Index (H) improvement upto 30%
- ♦ Improvement in Yarn imperfections and Classimat faults (expected)

## Spinpact as Retrofitment

Available for all LMW Ringframes

## Technical Data

Material	: Cotton, Blends, MMF
Staple Length (mm)	: Upto 44
Retrofitment Suitable for	: G5/1, LR6/S, LR6A/AX, LR60A/AX/AXL, LR9A/AX/AXL, LR9SX/SXL
Lift (mm)	: 160/170/180/190
DUI (mm)	: 18/20
Compact Suction Motor (kW)	: 7.5 (Upto 720 Spindles) 10 (768 to 1200 Spindles) 15 (above 1200 Spindles)
Count range (Ne)	: 20 <sup>s</sup> and above

