



# **LAKSHMI LIFE SCIENCES PRIVATE LIMITED**

## **AUTOMATION DIVISION**

(ISO 9001 : 2015 Certified Company)



**TOTAL  
AUTOMATION SOLUTIONS**



## Salient Features

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- ❖ Rigid construction as like OEM design leads to dimensional stability for long run
- ❖ Carriage type Tube Loader with 6 level sensors for highest Tube loading rate upto 32 tubes/min
- ❖ Maintenance free & long life peg trays
- ❖ Function friendly Piston type Gripper
- ❖ Gear motor to lift and lower the gripper rails
- ❖ Pneumatic cylinders for swing in and swing out of gripper rails
- ❖ Under winding crown fitted to existing spindles
- ❖ Beam sensors ensure removal of full bobbins from spindles
- ❖ Built-in user friendly text display system for monitoring the machine operation
- ❖ Minimum centre distance 1800 mm between Ring frames with staggered doffing
- ❖ Machine down time for a doff is 2.5 minutes irrespective of number of spindles
- ❖ Pull chord is supplied for safety, running throughout the machine

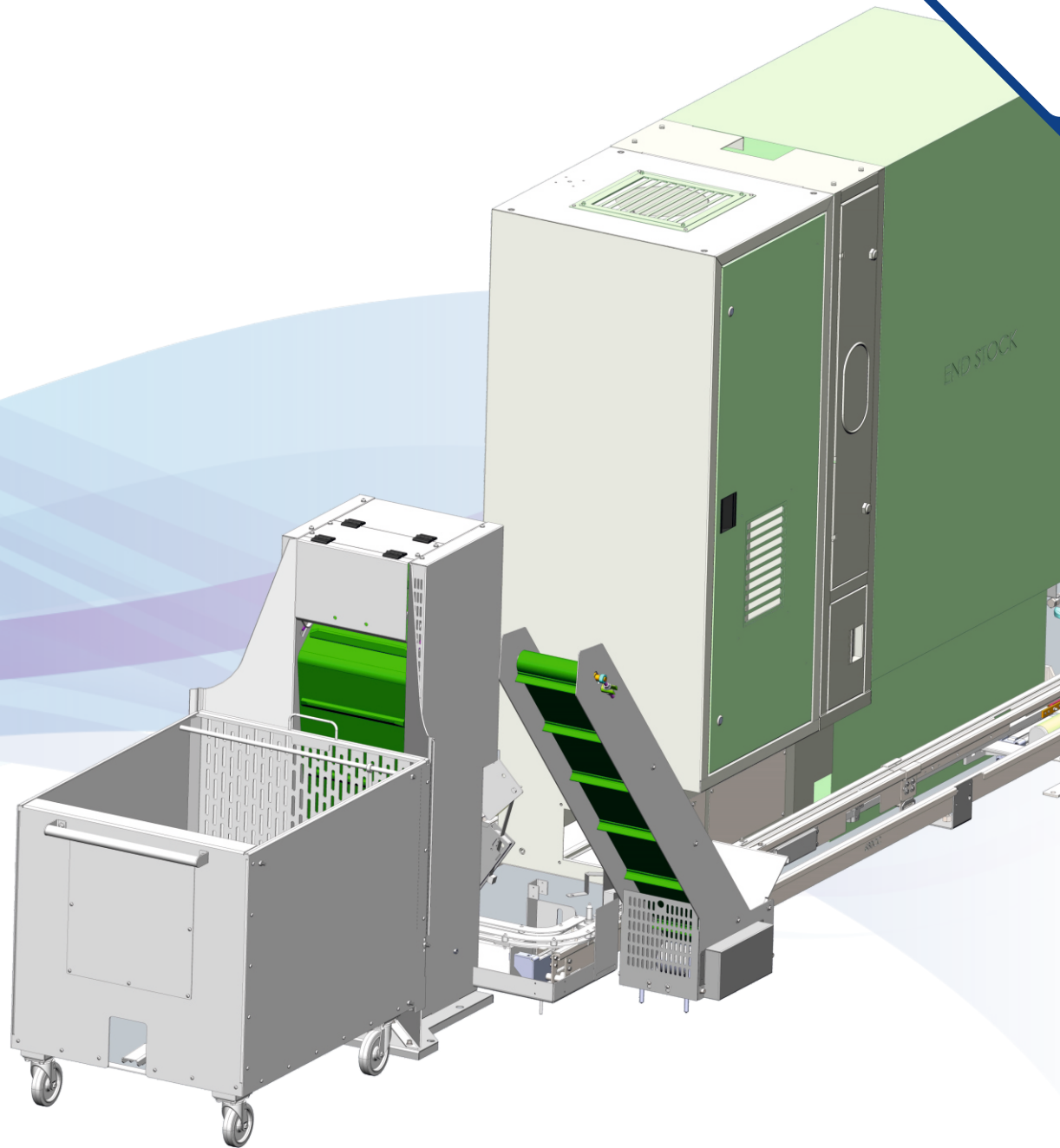
## Advantages

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- ❖ Reliable & easy doffing mechanism
- ❖ Precise peg movement is ensured by friction free electroplated trays for effortless peg movement
- ❖ Snap fit type gripper cap offers the ultimate user friendliness to customers
- ❖ Stack free carriage type tube loading reduces the operator fatigue
- ❖ Option for Link coner conversions, Direct Link to any winding machines



# CTL - CARRIAGE TUBE LOADER



## Advantages

- ❖ Compact in size
- ❖ Detachable & attachable bin (TROLLEY) for empty cops to transfer directly from Auto coner
- ❖ Easy access to all parts
- ❖ Effortless maintenance
- ❖ Separate unit for unloading cops. Can be independently positioned
- ❖ Full cops transfer is gentle and positive movement
  - a) Motorized
  - b) Loading through belts



# RTS - ROVING TRANSPORT SYSTEM



We are the manufacturer and global supplier of fully automatic roving transport system for LMW OEM & retrofit machines. It transports the Full Bobbins from Speed Frame to Ring frame machines and the empties back to speed frame machines just by a push of button.



## Compatibility:

### For new project,

Speed frame : LF4280SX

Ring frame : LR9SX, LRJ9SX

### For retrofit project,

Speed frame : LF1400A, LF4200A, LF4280A & LF4280AX

Ring frame : LR6 series, LR60 series, LR9 series



## Salient Features



- ❖ Any speed frame bobbin can be transported to any Ring frame machine just by a push of button
- ❖ Replacement & transport of full & empty bobbins without any human interference
- ❖ Rigid and high strength Aluminum tracks to ensure effective & smooth movement of trains
- ❖ Separate storage area for full bobbins, empty cleaned & uncleaned bobbins
- ❖ Advanced technology in Stripper and Exchanger for highest efficiency

## Advantages

- ❖ Reduction in Man power
- ❖ Manual handling of bobbins are eliminated
- ❖ Very less Maintenance
- ❖ Separate storage area for full bobbins for easy lot changes

## Stripper

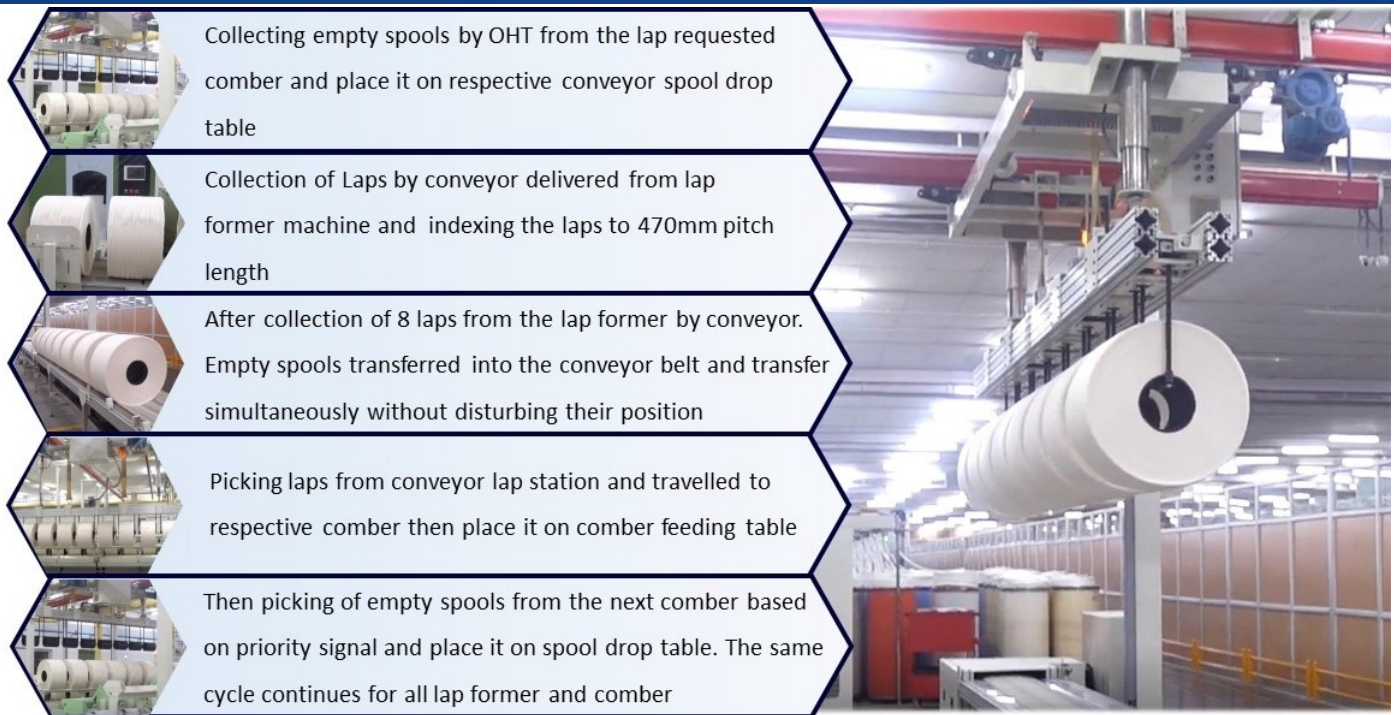
- ❖ Works on Venturi vacuum principle to ensure effective cleaning
- ❖ Twin spindle strippers to reduce the cleaning timing
- ❖ Effective cleaning & great utilization
- ❖ Velcro cleaning for all bobbins
- ❖ Separate stripped material storage options to avoid material mix-up in case of different mixings

## Exchanger

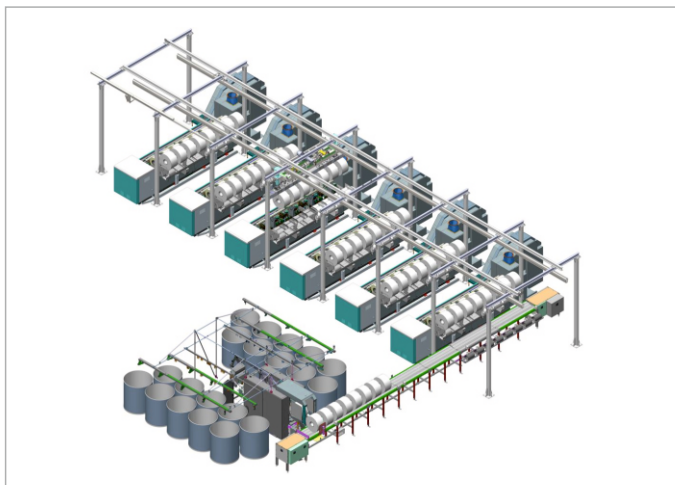
- ❖ Choice of single or double exchanger
- ❖ Accuracy in positioning of bobbins
- ❖ Compact Design
- ❖ All movements are controlled by cylinders
- ❖ Quick bobbin exchange cycles



# LTS - LAP TRANSPORT SYSTEM



Lap formers are connected to comber through Lap transport system. Upon request from a comber nearing exhaust of the running laps, Full laps (8 Nos.) are transported through LTS to the respective comber. Then the empty spools from the comber moved back to Lap former automatically. The lap transport system enhances the efficiency of combing machines and reduces the labour cost.



## Compatibility:

### For new project,

Lap Former : LH20S  
Comber : LK69 & LK64Z

### For retrofit project,

Lap Former : LH10, LH15 & LH20S  
Comber : LK64Z, LK69Z



## Salient Features



- ❖ Robust overhead trolley structure to withstand maximum load at maximum speed
- ❖ Crane and picker unit provided with Telescopic cylinders and safety interlock system
- ❖ Automatic indexing of laps as per comber pitch on conveyor
- ❖ Smooth and safe linear and up-down movements across combers
- ❖ On time spool and lap transportation with position accuracy
- ❖ Transfers 8 laps from Lap former to comber without disturbing the lap position

## Advantages

- ❖ Reduces operator fatigue
- ❖ Improves efficiency & productivity
- ❖ Manual handling of laps are eliminated
- ❖ Saves space traditionally used to store trolleys
- ❖ Waiting time for the laps on the comber is avoided

### Trolley



### Crane & Picker Unit



## About us

Lakshmi Life Sciences Private Limited an associate company of Lakshmi Machine Works Ltd, manufacturer & global supplier of

- ❖ QDoff Auto doffer for LR Series
- ❖ Roving Transport System
- ❖ Lap Transport System

### OUR SALES & SERVICE NETWORK



### OUR SALES PARTNER NETWORK



### OUR CHANNEL PARTNERS



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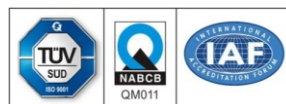


## LAKSHMI LIFE SCIENCES PRIVATE LIMITED

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