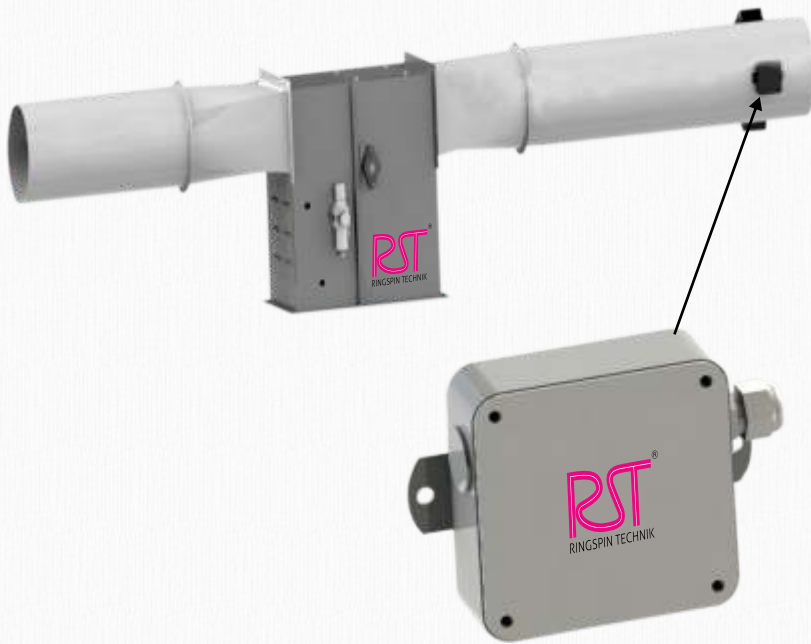




**INNOVATIVE PRODUCTS FOR
TEXTILE AUTOMATION**

METAL AND FIRE PROTECTION SYSTEM



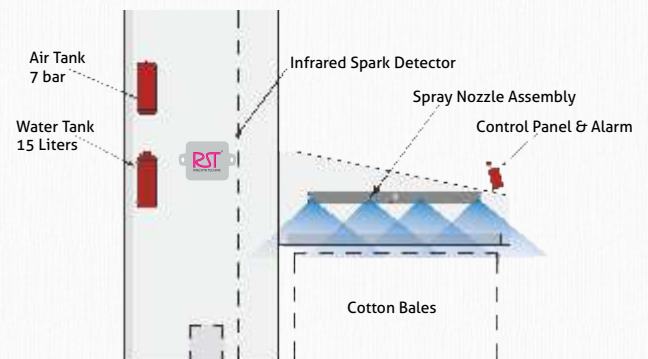
- Automatic Spark, Metal Detection and Diverting System for production lines.
- Available in different combination like 1. Metal 2. Spark 3. Metal and Spark
- Requires 5.5 bar Air pressure
- Requires only 3.4 Meters for installation and 50m Sec reaction time means less waste
- Spark is diverted, extinguished and machine stopped with alarm sound also alerts send by SMS
- Metal is diverted in a collection bag so production is not interrupted
- Detect / Diverts all metals like brass, stainless steel, copper and Aluminum
- Simplified installation in new or existing lines
- User friendly digital programme control panel
- Self monitoring of Air pressure line with digital pressure sensor
- Automatic Diagnosis for diverter coil and wiring lines both for spark sensor and diverter line

AUTOMATIC FIRE PROTECTION FOR BALE PLUCKER

- Automatic bale opener uses infrared spark detectors located inside the bale opener to detect even single spark and activate an automatic fire extinguisher, sounds alarm and shutdown the machine all in less than 50 milli seconds.

Features

- 1.RST spark detector will detect a single spark as small as 2mm and immediately activate we extinguisher system
- Automatic bale plucker fire extinguisher system comes standard with an automatic water extinguisher and special fire control spray nozzles designed specifically for bale openers
- The bale opener is immediately shutdown when spark is detected
- System can be refilled and recharged on site by mill staff keeping production down time to a minimum
- The control panel and alarm system is mounted on the bale opener for the fastest response



BOBBIN TRANSPORT SYSTEM

- Bobbin transport system safeguard the yarn quality by the contact free and pinpoint transport of the speed frame bobbin. Also the system minimize the man power requirement for transporting bobbins.

Advantages

- Contactless material transport
- No mix - up of yarn counts
- Relief from heavy lifting
- Reduced labour cost
- Complete control of material flow

Variants

Fix link system

An automatically operating circular conveyor continuously runs round one speed frame and a fixed assignment of ring frames.

The continuous conveyor is loaded with full bobbins at the speed frame. At the ring frame, empty bobbins from the creel are exchanged for the full bobbins from the moving conveyor. Automatic bobbin stripper can easily be integrated.

Flexible - Link System

With the flexible link system it is possible to transport different yarn counts which are produced on the roving frames to any given Ring frame.

A buffer serves for storing the trolley trains and is able to take up and manage different roving yarn counts. The control system makes sure that the trolley train with the right roving yarn is sent to the designated Ring frame.

Salient Features



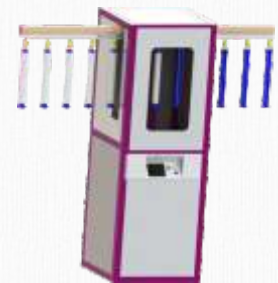
Track Profiles

The track is made of a high-strength aluminium profile, allowing large hanging span width. A small profile slot with dual separators guarantees a minimum of contamination. The system is driven by three-phase motors with planetary gearing. A friction wheel with wear-resistant covering directly drives the trolley.



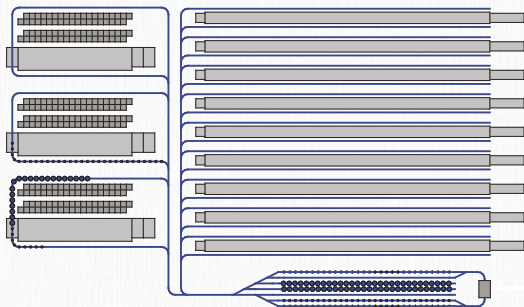
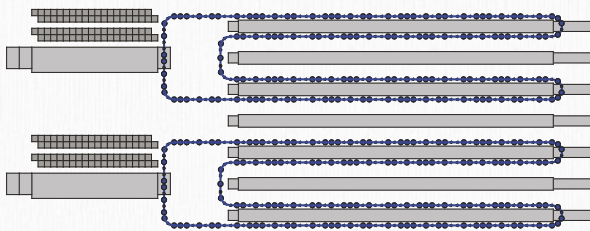
Exchanger

Suitable for speed frames with auto doffer attachment. It will automatically exchange full bobbin from speed frame to empty bobbins of Ring frame.



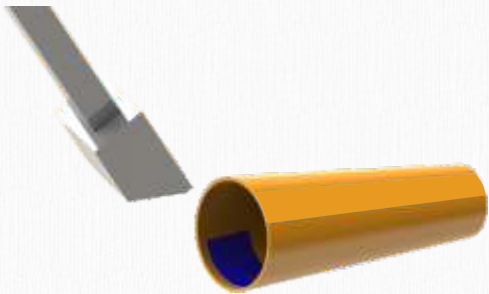
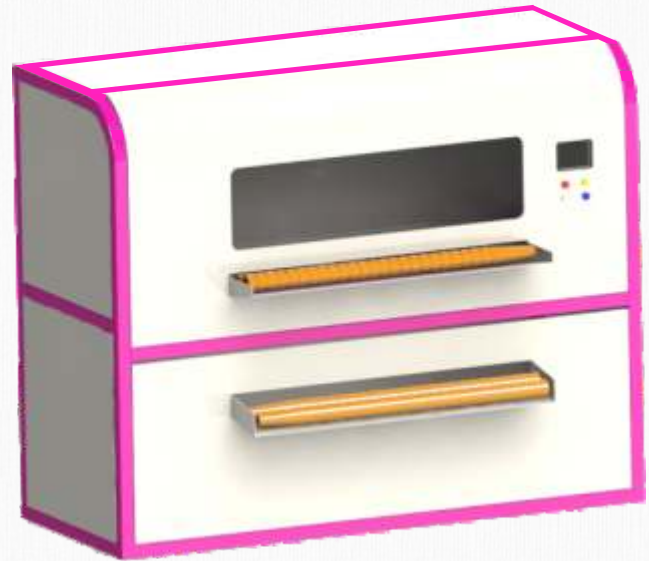
Online Stripper

Automatically cleans remnant rovings from the empty bobbins. Rovings are automatically detected by special sensor and stripped off from the bobbin with high tech HMI & PLC controlled pneumatic system.



CONE LABELLING MACHINE

Printed labels are automatically gummed and pasted inside the cones. First the cones are individually separated from the stacked form and each cone is pasted with specified label. After pasting the cones were re- stacked again for transporting to the next process.



Features

- Can be integrate to the existing process with minor changes in the label specification.
- 250 cones can be loaded automatically for pasting process
- Cycle time of pasting of each label as low as 8 Seconds.
- Automatic Label selection from multiple label bins
- All machine operations are controlled by latest pneumatic, and PLC with HMI which can be integrated with mobile App
- Quick return on investment by saving huge man power.
- Minimum floor space and electrical power required.

INDIVIDUAL SPINDLE MONITORING SYSTEM



Complete Productivity and quality Monitoring

Production

- Efficiency
- Utilisation
- gpss

Utility

- kWh
- Ukg

Stops

- Summary
- Reasons

Quality

- Slip
- Rogue
- TPI
- Draft

End Breaks

- eb/100sh
- em
- Idles

Individual Spindle & Section LED Indications

- Easy to distinguish and indicates Yarn Break, Rogue, Slip and Idle Spindles with **Multi Coloured LED**
- End breaks are identified **Instantaneously**
- Differentiates the Ring Frame section that requires attention by the operator and maintenance staff



Energy / Draft Monitoring

- All new **Energy Monitoring** with Comprehensive details
- The Intelligent **Draft Monitoring** system helps to highlight and alert draft deviations

Machine Display

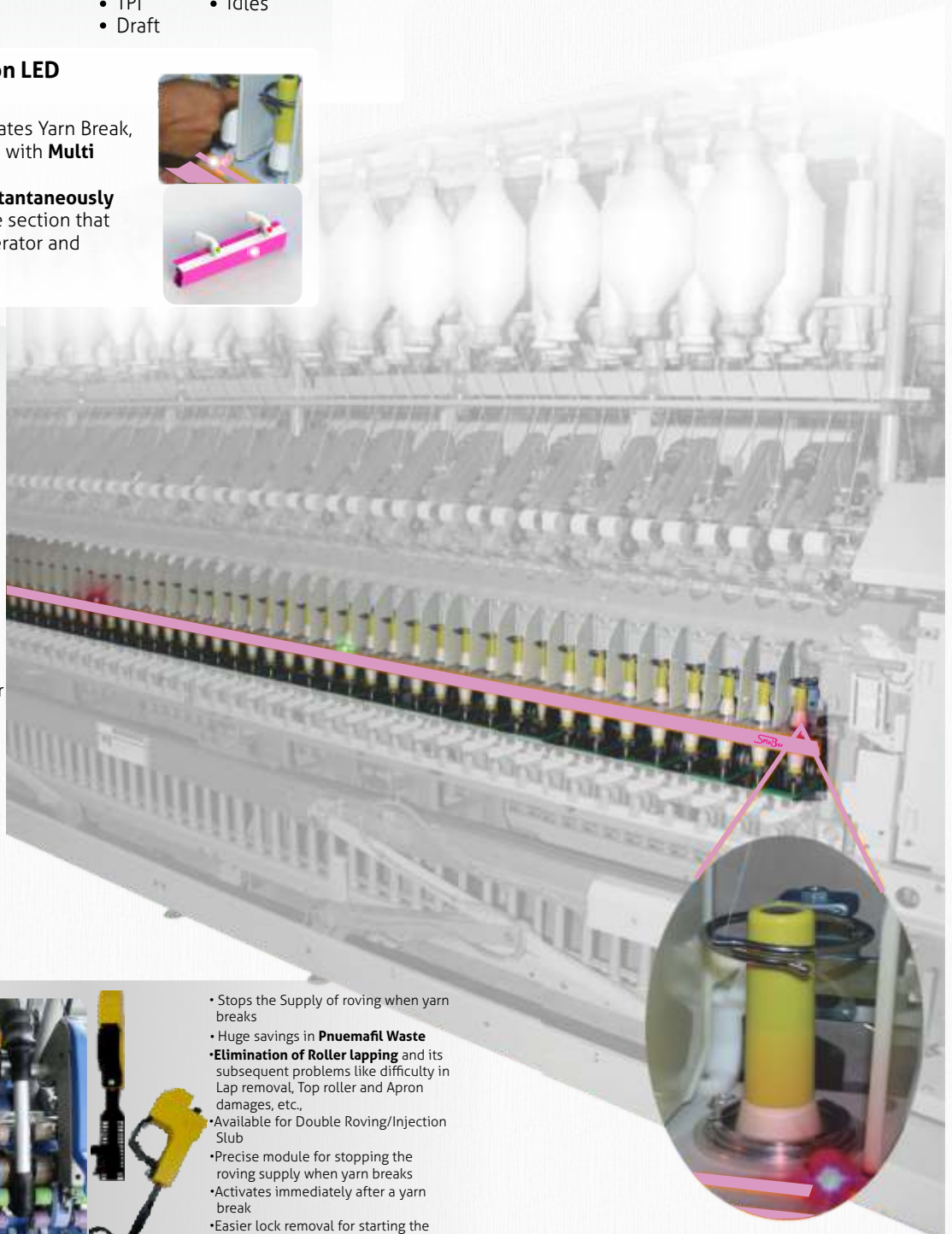
- Individual Machine display unit located at Head Stock provides the **Number of End Breaks, Rogue, Idle, Slip Spindle, End Mending Time, Spindle Speed** and **Efficiency** for quick decision by the operator to decide the Machine side that needs immediate attention



Roving Stop Motion



- Stops the Supply of roving when yarn breaks
- Huge savings in **Pneumafil Waste**
- **Elimination of Roller lapping** and its subsequent problems like difficulty in Lap removal, Top roller and Apron damages, etc.,
- Available for Double Roving/Injection Slub
- Precise module for stopping the roving supply when yarn breaks
- Activates immediately after a yarn break
- Easier lock removal for starting the roving supply
- Very minimum maintenance required





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