

Automate and Monitor to Lead



Our DNA

We look for problems, which do not have solutions yet, and conceive cost-effective solution, evaluate and then commercialize.

We have introduced several new solutions to the textile industry in the last 2 decades.

1. Listening to the customer

We pay attention to our customers and try to figure out what their pain points and concerns are.

2. Conceptualising the solution

Frame the scope of solution that addresses the problems.

3. Implementation

We implement the solution and validate for the intended functioning.

4. Expanding the scope even beyond

We don't just stop at devising solutions to the present problems.

We delve deep into the conundrum and broaden the scope of the solution to address even the future demands and challenges.

5. Keep improving with new technology, refining and perfecting the product

AUTO CONE-PACK[®] Automatic cone packing system

- Box Packing (Carton)
- Bag Packing (Sack)
- Cone Inspection - AI Vision Based

SORTLINK[®] **MAGIC** AI Vision Based Bobbin Colour Sorting

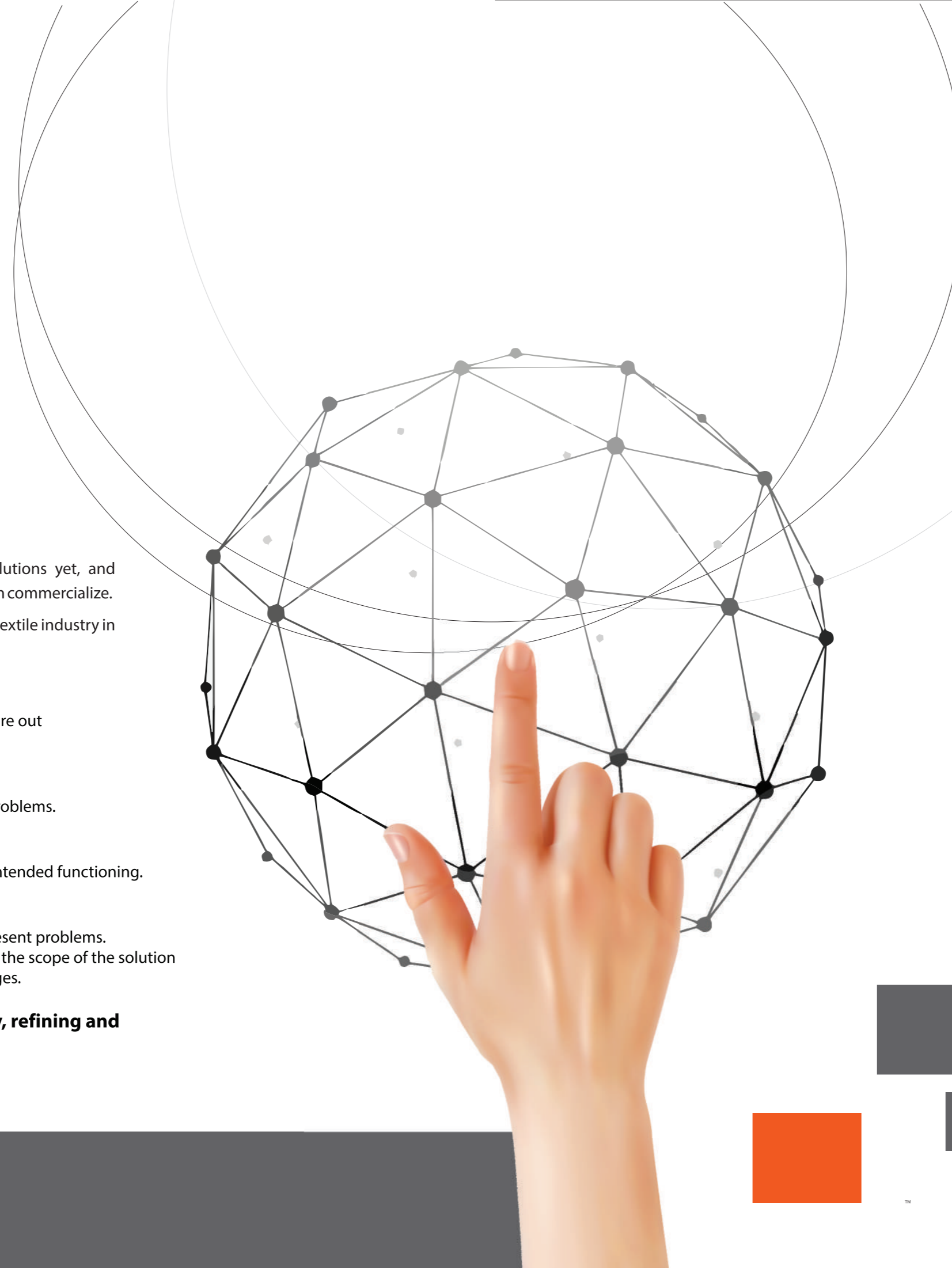
i aBTS **Cruzo**

Intelligent Automatic Bobbin Transport System

ASRS **CM** **Craftsman**[®] In association with **STORAGE SYSTEMS**

Automatic Storage and Retrieval System for Textiles

- Yarn
- Fabric Rolls
- Garments & Trims
- Finished Goods

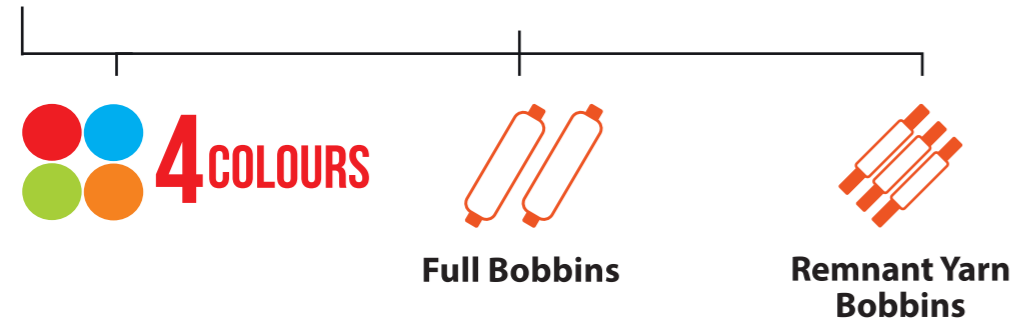


TM

Automatic Bobbin Sorting System -
Attached to auto winders

- No Limitations
- No Extra Space Required
- No Skill Required: Auto Colour Teaching
- Data on Rejected Bobbin

6 Way sorting



- Sorts empty bobbins of upto 4 different colours
- Segregates full bobbins
- Segregates bobbins with remnant yarn
- High Speed - Installed on 100 drum auto winders
- High Reliability - Minimal movements and no sensors

Benefits

- Accuracy -100% colour segregation
- Flexibility - All colours can be segregated
- Minimal training - Easy to teach and save multiple colours
- Remote diagnostics - Our engineers can diagnose and help mill engineers online
- Minimal maintenance - Minimal Movements and No Sensors
- Can be linked all models: Murata, Savio, Schlafhorst
- Live report - Full bobbin rejection %, Remnant yarn (Kirchi/ Gira bobbin) %

Camera + Artificial Intelligence
= 100% Accuracy



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Benefits:

1. Cone Weight Control - To avoid weight in excess of mill's standard into each box or bag.
2. Eliminates errors due to cone mixups and yarn mixups
3. Stops defective cones based on UV inspection.
4. Packing Report - End of shift/day for integration into mill ERP.
5. Consistent Packing
6. Man Power Saving

Process:

1. Weight Measurement:

- In sets of cones getting packed into the same bag or box.
- Smart Weight Control Assistance
- Net and Gross Weight Logging

2. Cone orientation:

Cones are tilted to the appropriate orientation to be fitted into bags or cartons.

3. Polythene Wrapping:

The Cones are wrapped and sealed - Consistent quality.

4. Bag or Box Packing:

The cones are placed into the bags or box in layers depending on the configuration chosen.

5. Box Taping & Strapping

- Taped
- Strapped
- Gross Weight

6. Labeling & Packing Info:

- Barcode label is generated with the required packing information.
- Packing Data/Shift/Day consolidated and integrated with mill ERP.

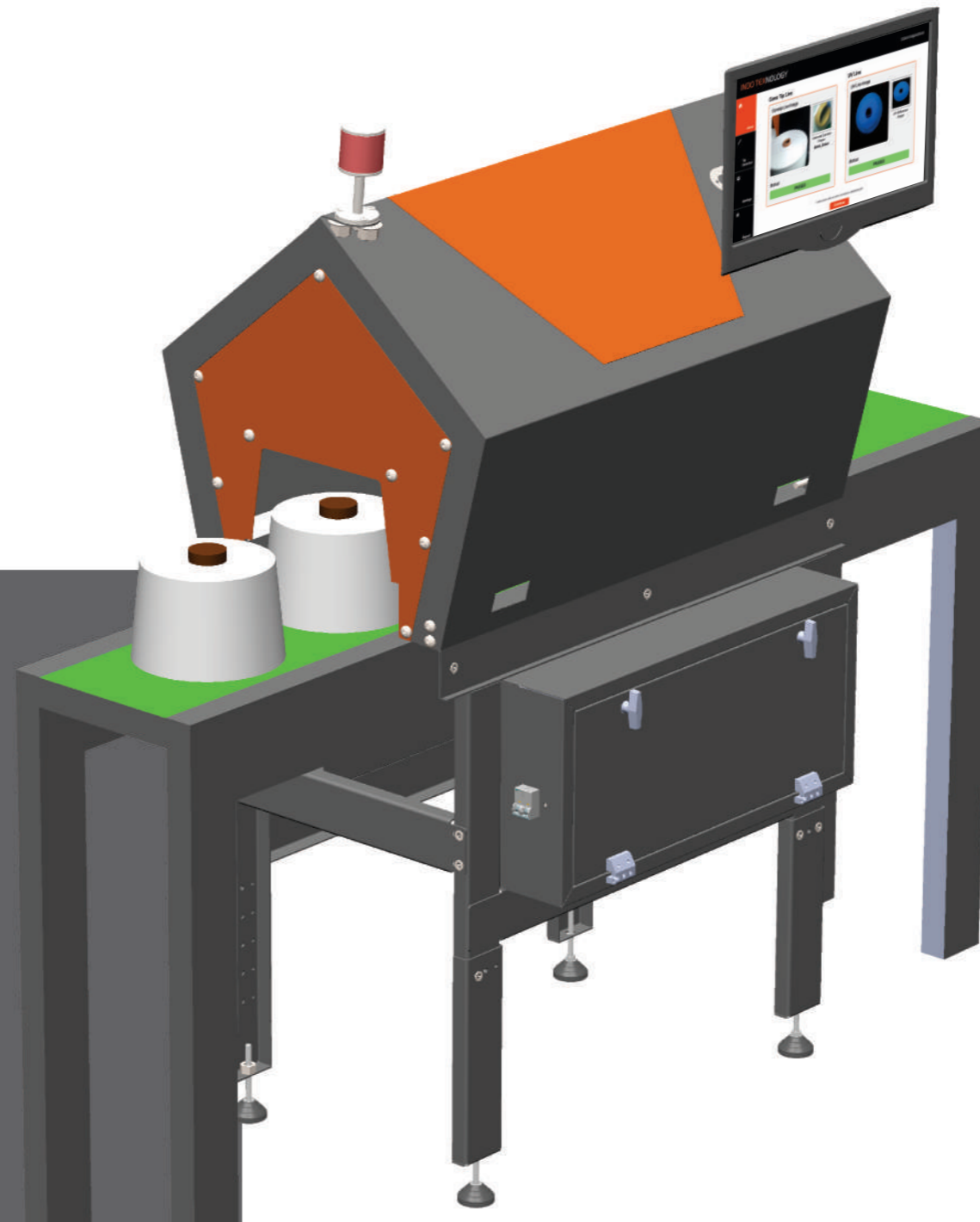
Cone Inspection

AI Vision Based Cone Inspection System

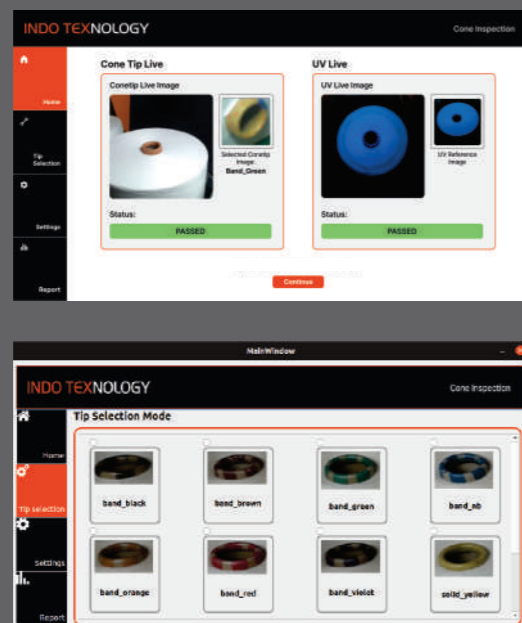
Automatic Cone Inspection System as an add on to Auto Cone Pack
(Also available as a standalone product)

Automatic Inspection and Alert on:

- Cone Tip Identification: For any variation in design/colour and alerts for instant stopping.
- UV Defect Analysis



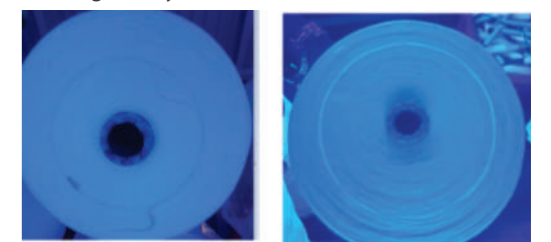
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(Cone Tip Identification)



UV image Analysis



Benefits

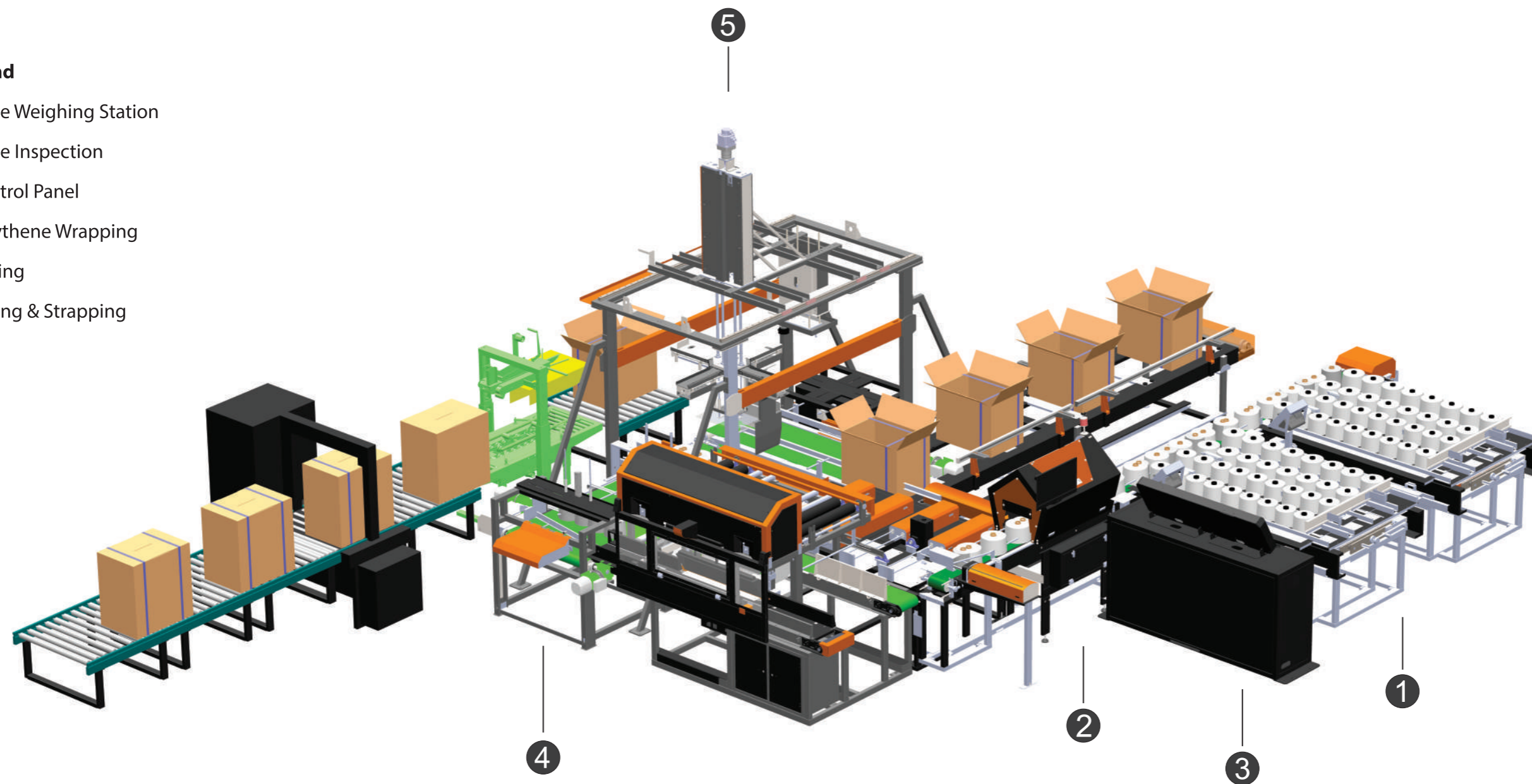
- Weight control of packed cartons
- Consistent Packing
- Packing Data
- Integrated to Mill IT
- Tracking/Tracing
- Avoids Mix-ups and errors with Auto Cone Inspection
- Man power saving

- Cartons of different sizes and configuration possible
- Automatic taping and strapping of boxes
- Label print with barcode
- Auto Cone Inspection
- Remote Diagnostics

50+
Installations

Legend

1. Cone Weighing Station
2. Cone Inspection
3. Control Panel
4. Polythene Wrapping
5. Boxing
6. Taping & Strapping



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Benefits

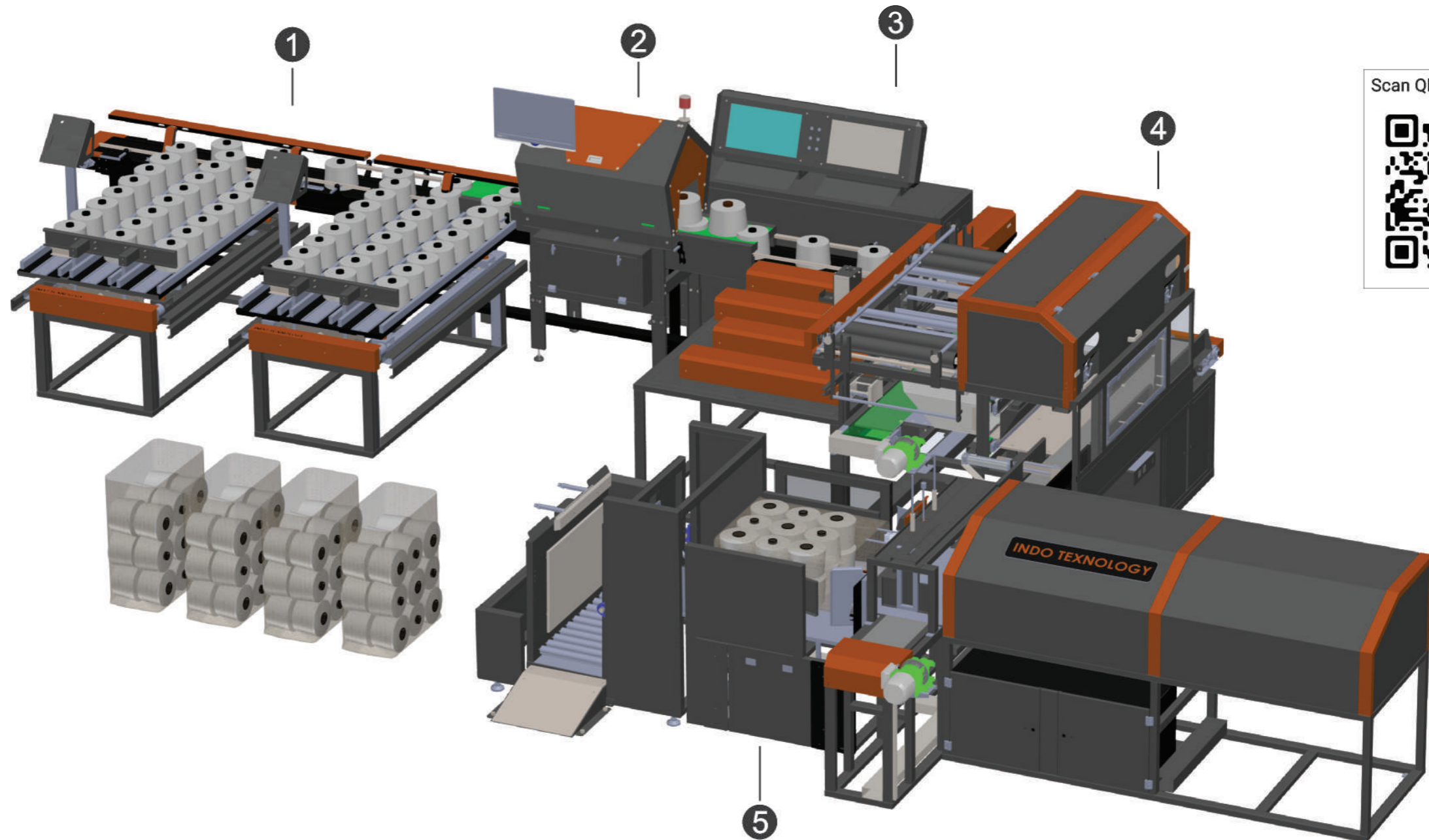
- Input control of packed Bags
- Consistent Packing
- Packing Data
- Integrated to Mill IT
- Tracking/Tracing
- Avoids Mix-ups and errors with Auto Cone Inspection
- Man power saving

- Bags / Sacks of different sizes and configuration possible
- Auto Cone Inspection
- Remote Diagnostics

50+
Installations

Legend

- 1. Cone Weighing Station
- 2. Cone Inspection
- 3. Control Panel
- 4. Wrapper Polythene
- 5. Bagging



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Intelligent Automatic Bobbin Transport System

- Flexibility of grouping any Roving Frame to any Ring Frame
- First-in-First-out mode for delivery of bobbin
- Eliminates Quality issues associated with manual handling
- Foolproof controls by PLC eliminates count mix-up

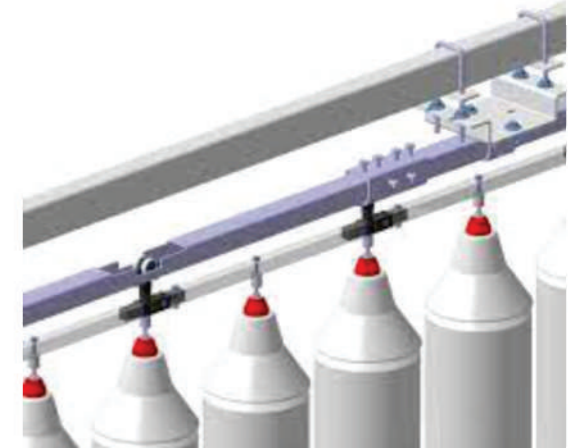
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- i aBTS frees up ground space
 - Effective utilization of manpower
 - Reduced power consumption

Models and Options

- Mini Automatic system
- Buffer storage

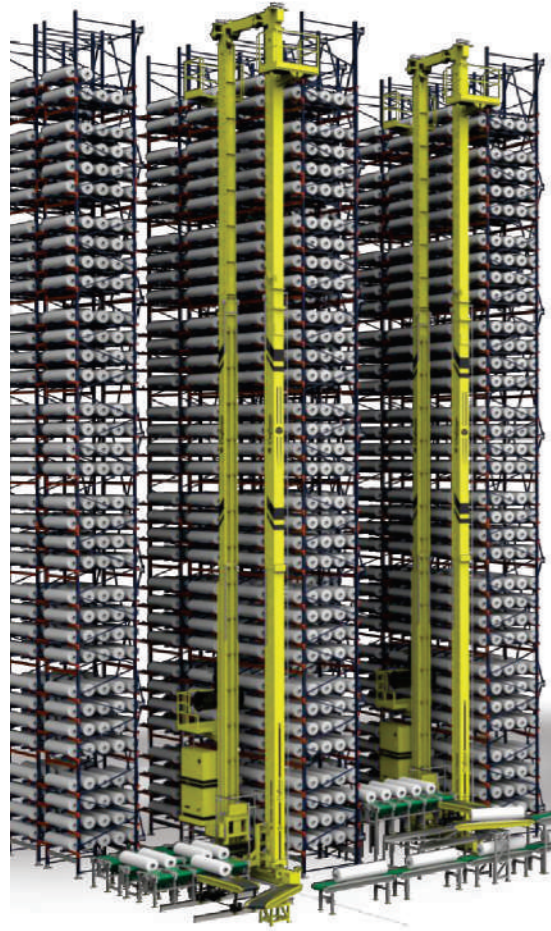
Option:

- Roving bobbin stripping
- Roving bobbin exchanger
- Interface with Roving Frame Autodoffer



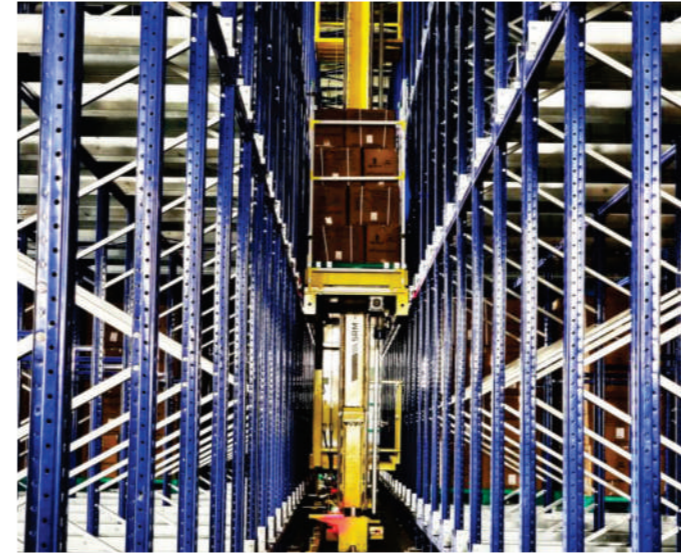
Intelligence & Reliability Built-In

- Central control system
- Fastest communication protocol
- De-centralised control stations
- Built-in self diagnostics
- GUI made simple for operation and service functions
- Intelligent systems - Decides and operates automatically when necessary
- Visual indicators on machines for operators showing system status and operation
- Remote diagnostics - Enabled
- Hard anodised aluminium alloy profiles for trackways



FABRIC ROLL STORAGE - ASRS

- Wide range of fabric rolls, with and without pallets
- Single rolls picking, eliminating labour
- High bay cranes up to 35m (115 ft) with maximum space saving
- Warehouse Management Software (WMS)



YARN STORAGE - ASRS

Multi-deep Shuttle + Crane System for high density yarn storage controlled with First in First Out (FIFO) logic and batch control with ERP synchronization. Also suitable for low to medium warehouse heights.

CUSTOMIZED MATERIAL HANDLING SOLUTION

We also offer customised material handling solutions such as hoists, lifts, and overhead conveyor transfer systems for pallets/ fabric rolls.



TRIM STORAGE / SAMPLE FABRIC ROLLS

Vertical storage on the shop floor for sewing trims, packaging trims, labels, and other small products, user access controlled inventory with ERP synchronization, ranging in height from 3m to 24m.



- Pallet ASRS Crane
- Crane Shuttle ASRS
- Multi Deep Shuttle ASRS
- Shuttle Racking System
- Mini Load ASRS Crane
- Mini Load Shuttle
- Mini Load Sorting and Conveying Systems



Warehouse Management Software – ERP integration built in



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