

Automate and inspect to Lead



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

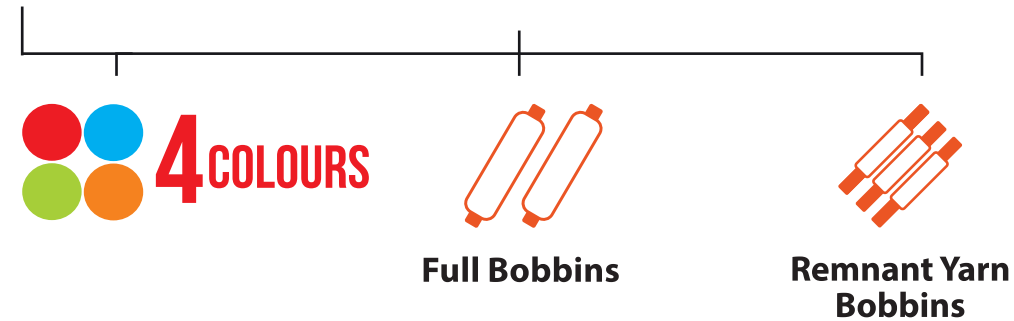
CONE i
Computer vision powered
cone inspection

i aBTS Cruzo
Intelligent Automatic Bobbin Transport System

Automatic Bobbin Sorting System -
Attached to auto winders

- **Versatile** - All colours possible
- **Compact** - Extra space not required
- **User Friendly** - Auto colour teaching
- **Industry 4.0** - Reports on sorted bobbins

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

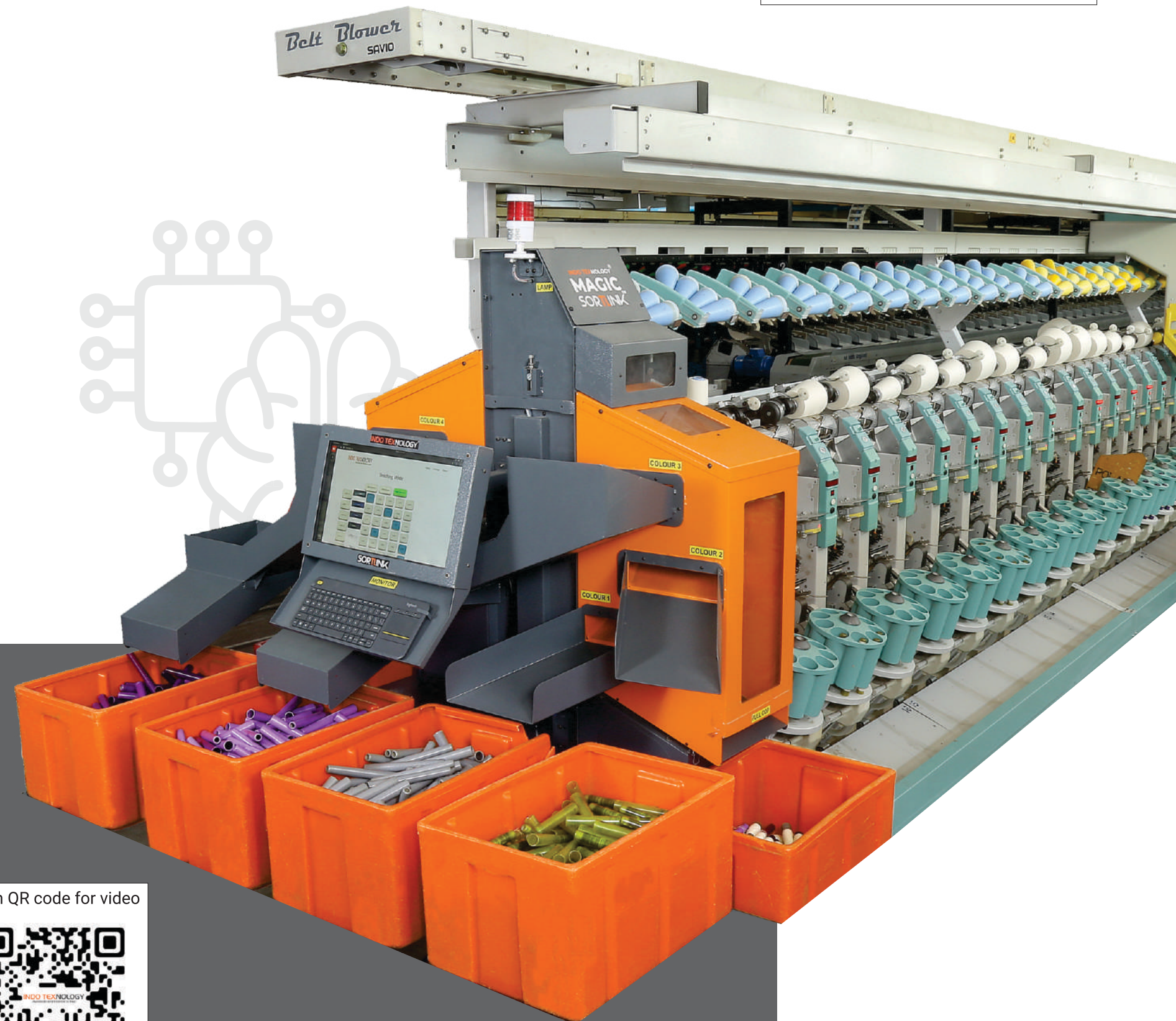
Benefits

- **Accuracy** -100% colour segregation
- **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

Daily report:

- Full bobbin rejection %.
- Remnant yarn %.
- Bobbins sorted in each colour.

Camera + Artificial Intelligence
= 100% Accuracy



Scan QR code for video



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
7. Integrated to Mill IT/ERP

Process:

1. Weight Measurement & Control

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

2. Cone Inspection

3. Cone Orientation:

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

4. Polythene Wrapping:

The Cones are wrapped and sealed - Consistent quality.

5. Bag or Box Packing:

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

6. Box Taping & Strapping

- Taped
- Strapped
- Gross Weight

7. Labeling & Packing Info:

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

CONE i

Computer vision powered
cone inspection

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



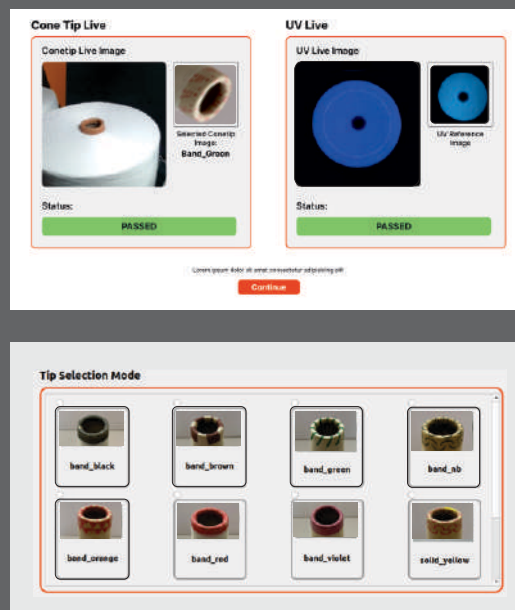
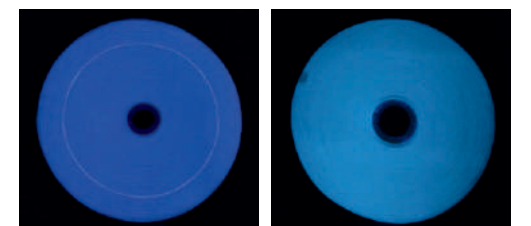
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Cone Tip Identification



UV image Analysis



Benefits

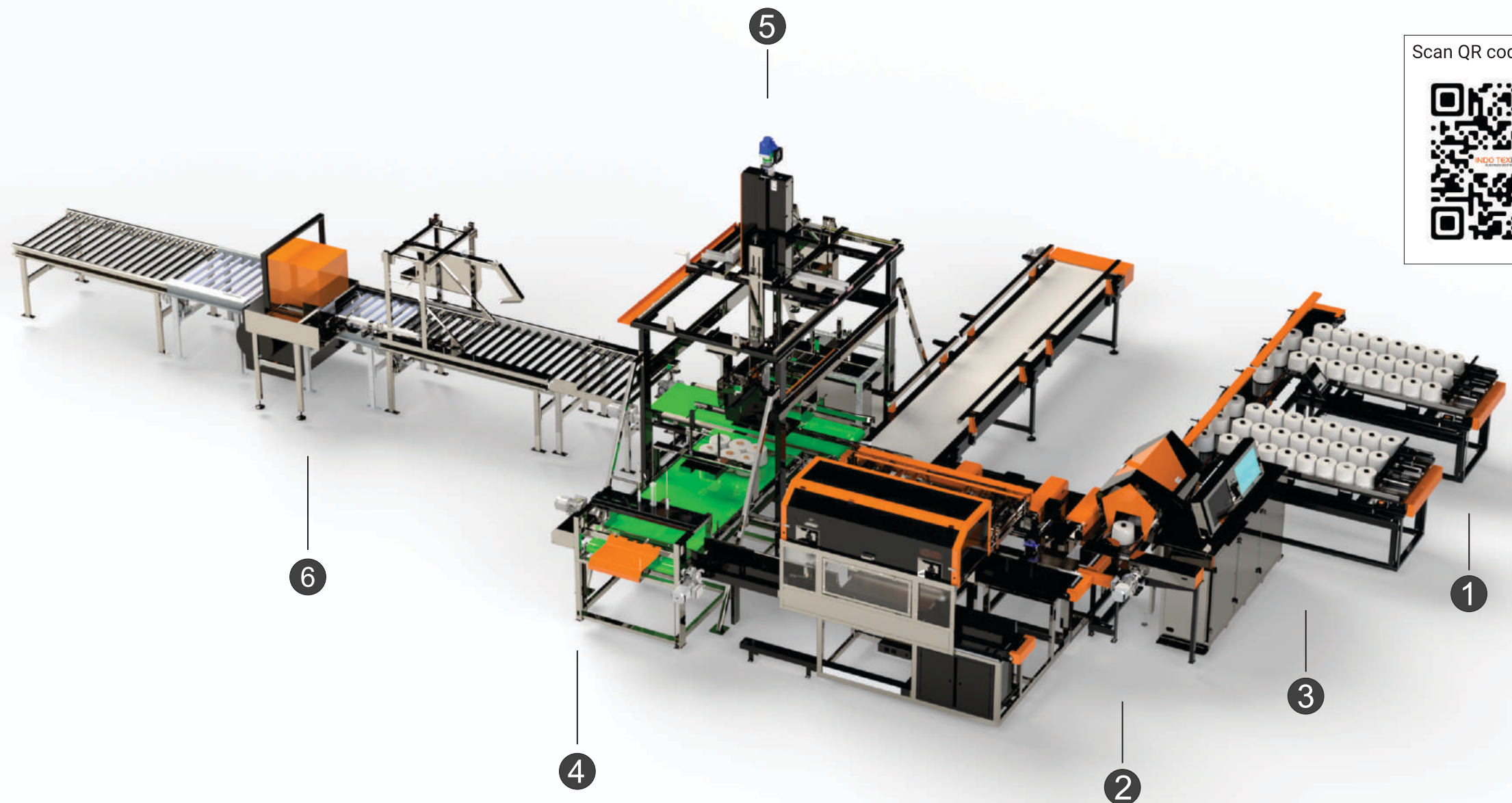
- Input control of packed Bags
- Consistent Packing
- Packing Data
- Integrated to Mill IT/ERP
- Tracking/Tracing
- Avoids Mix-ups and errors with Auto Cone Inspection
- Man power saving

- 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

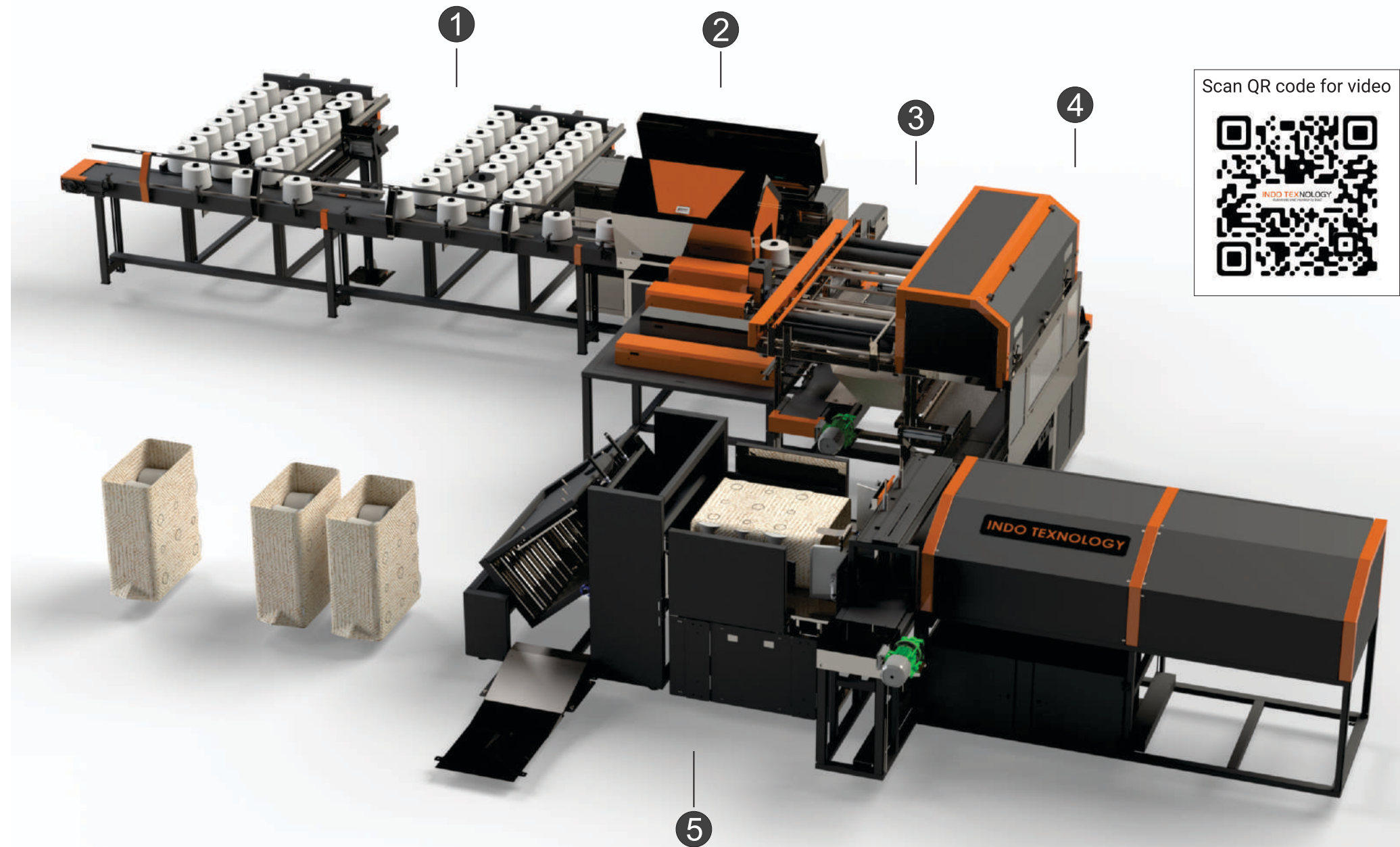
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- Consistent Packing
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- Tracking/Tracing
- Avoids Mix-ups and errors with Auto Cone Inspection
- Man power saving

- 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



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

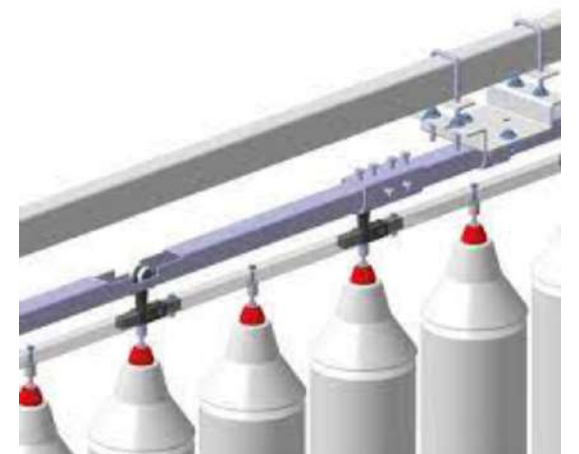
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- i aBTS frees up ground space
 - Effective utilization of manpower
 - Reduced power consumption

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

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