JENTSCHMANN AG

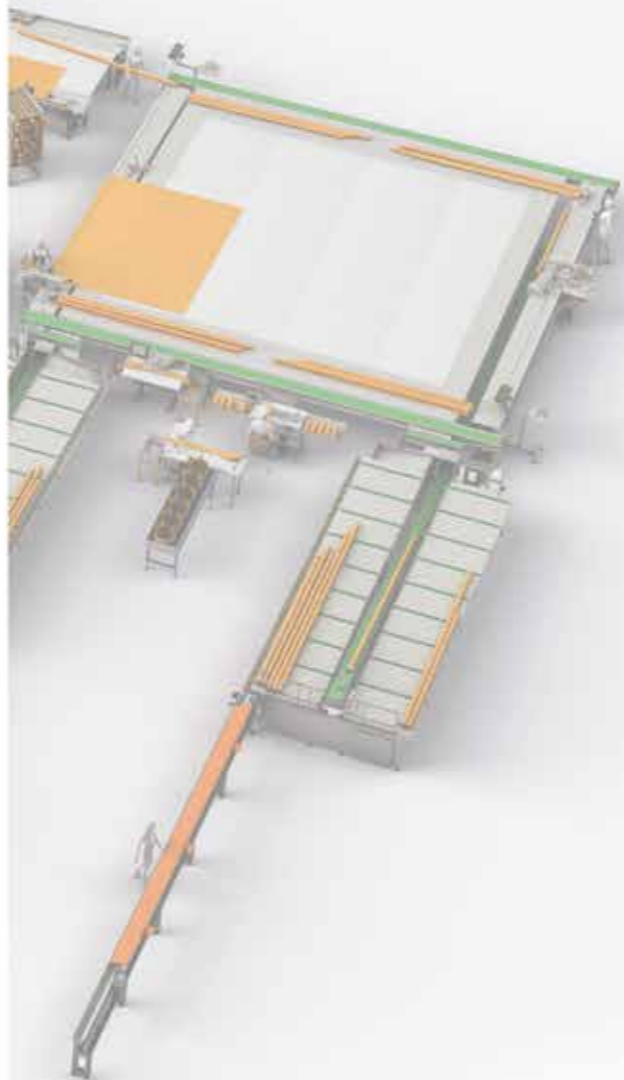**JENTSCHMANN AG**
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**PRODUCTS FOR THE
SUN SHADING INDUSTRY**

Edition 1/2024

ABOUT JENTSCHMANN AG

Jentschmann AG has been a leading manufacturer of machines for processing technical textiles for many years.

Since the early 1970s, Jentschmann AG has been producing machines and systems for the manufacture of awning fabrics, the manufacture of technical textiles and other customised applications.
The core business includes industrial sewing systems, ultrasonic welding machines, ultrasonic gluing machines and cutting machines.
A particular specialisation has been achieved in the field of ultrasonic applications with roll sonotrodes, which are used in various areas of industry.

Jentschmann AG has numerous customers in the sun shading industry and also offers solutions for the bedding industry, the manufacture of tarpaulins and banners (using digital printing processes), as well as in the clothing sector and the filter industry.
Thanks to our many years of experience in sewing, welding, gluing and cutting of technical textiles, as well as our in-depth knowledge of the industry, we are able to continuously release new innovations.
Focussing on ultrasonic technology is no coincidence, but a conscious decision to use emission and energy-saving processes and thus reduce production costs in the manufacture of technical textiles.

Jentschmann AG is a member of the ITRS association and supports the manufacturers of technical textiles in the planning of production processes and the creation of the associated machine layouts, as well as in the development of manufacturing machines.
Our company offers innovative products that meet the needs of our customers, especially in the sun shading industry.
We aspire to offer solutions to suit every requirement and are proud of our product range.

We invite you to discover the fascinating world of Jentschmann AG and hope you enjoy it!

Your Jentschmann Team

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Area of use   Product highlights   Technical data
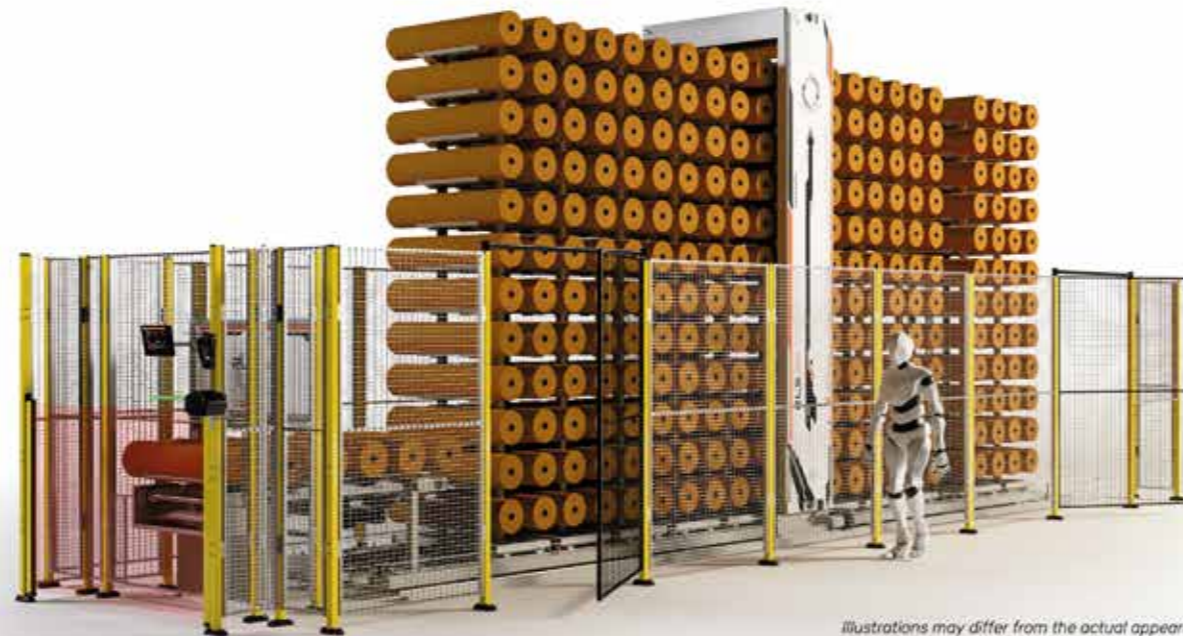
Roll Storage Systems

RLS Flex

The RLS Flex "roll storage system" is a dynamic fabric roll storage system with automatic feeding via a fabric roll changer to the ScreenCut or AcrylCut cutting machines.
Storage and retrieval processes are carried out simultaneously via a separate storage and retrieval station.
The storage locations of the RLS are optimised to automatically store all typical rolls for textile sun shading in widths from 1.2m to 3.5m.

RLS Pro

The "Roll Storage System" RLS Pro is a storage system optimised for 1.2 m wide rolls, which also has an automated feed to the AcrylCut cutting machine and a storage and retrieval station at the rear.

Illustrations may differ from the actual appearance of the machines.

Storing made efficient

The RLS offers maximum storage capacity in a minimum of space

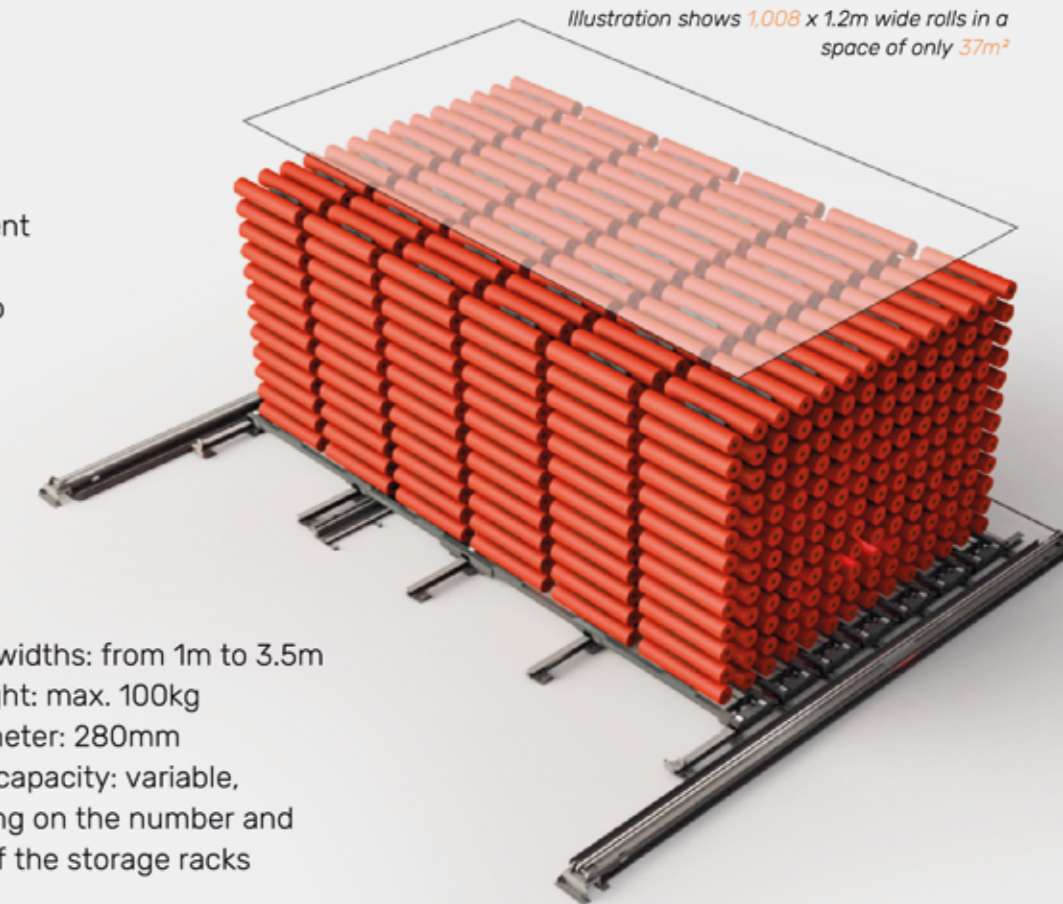| Pro	Flex
• Production of awnings with 1.2m fabric rolls • External sun shading	• Production of textile sun shading products with a variable fabric roll width between 1.2m - 3.5m • Internal and external sun shading

- Automatic roll changer frees up staff
- Next roll already in waiting position
- Minimised set-up times
- Increased productivity
- Real-time warehouse and inventory management via NODE Warehouse module
- Storage and retrieval possible simultaneously to cutting via a separate station
- Connection to customer ERP
- Selection of the right rolls via NODE Workflow module
- Movable storage racks reduce space requirements to a minimum

Pro	Flex
• Storage width: 1.3m • Roll weight: max. 45kg • Roll diameter: max. 280mm • Storage capacity: variable, depending on the number and design of the storage racks	• Storage widths: from 1m to 3.5m • Roll weight: max. 100kg • Roll diameter: 280mm • Storage capacity: variable, depending on the number and design of the storage racks

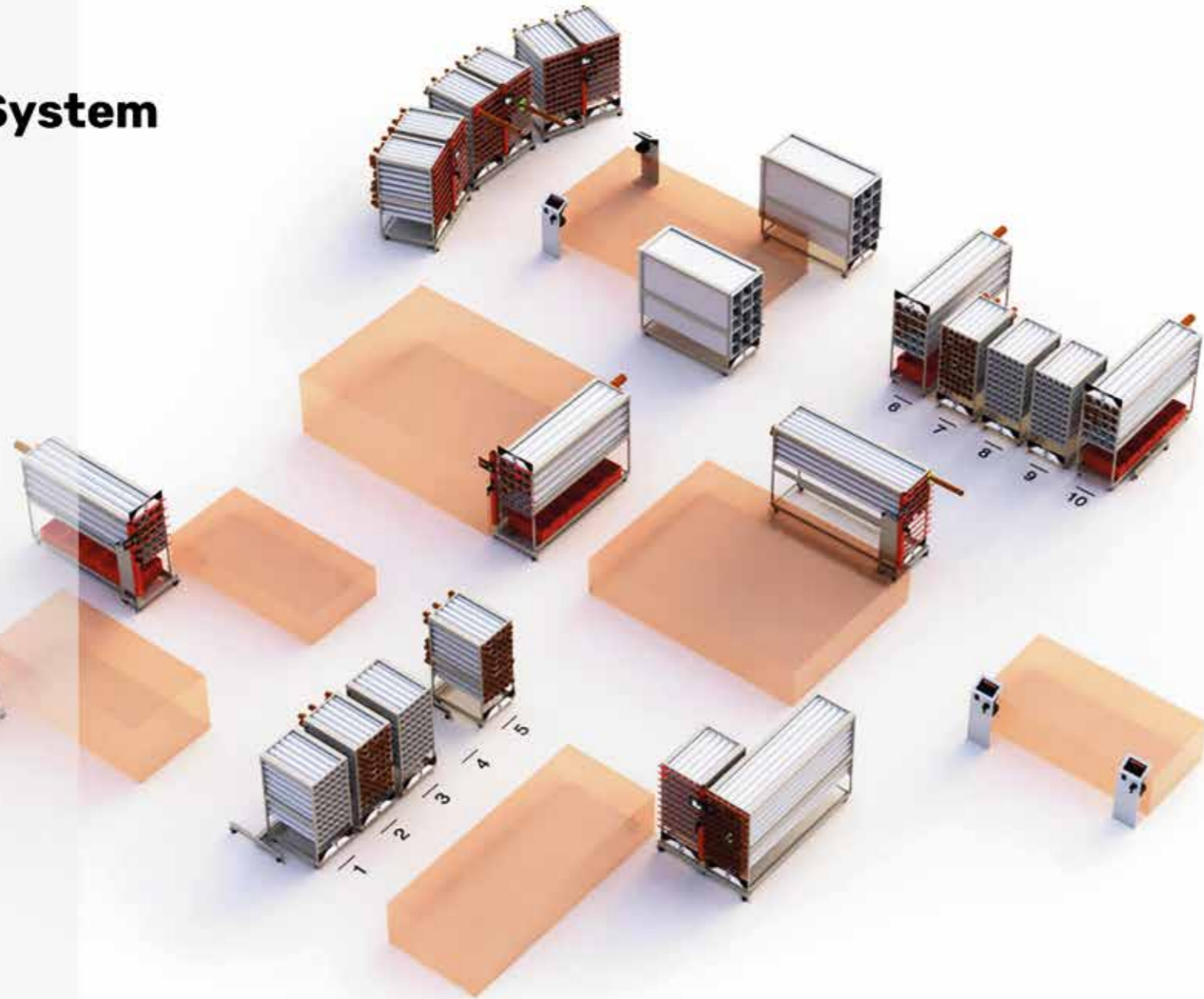*Illustration shows 1,008 x 1.2m wide rolls in a space of only 37m²*

Material Handling System

The material handling system consists of various modules that can be used to help digitalise production.

It can be customised to the processes of each individual customer. The aim is to gradually eliminate order documents from production and make the necessary process data available digitally.

Once implemented, orders can be tracked at any time and maximum transparency is achieved regarding the current status of orders in production.

Defined reaction points can actively control other processes so that an optimised and coordinated processing time is achieved.

Illustrations may differ from the actual appearance of the machines.

Digitalisation of the production process

The road to paperless manufacturing

- Connection to various process steps such as cutting, sewing, gluing, welding, eyeletting, packaging machines and others
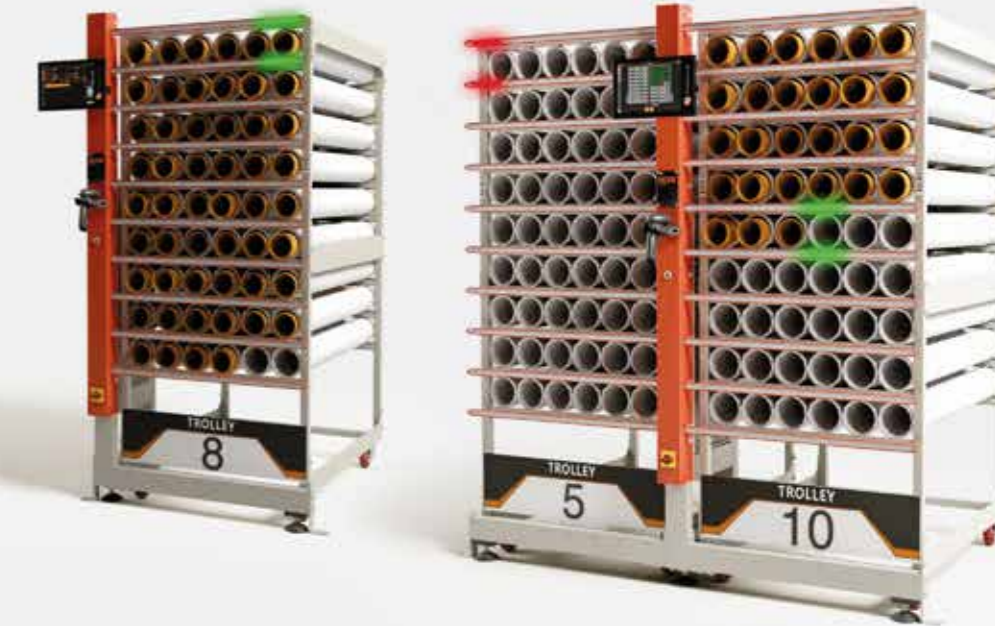
- Pick-by-light system guides the operator through the order
- Sorting of orders according to urgency
- 100% traceability of orders
- Tracking of processing times possible
- Prediction of planned processing time
- Self-learning system makes planned processing times increasingly accurate

- Double stand LED - for up to 108 x positions
- Single stand LED - for up to 54 x positions
- Features: Tablet PC, barcode scanner, label printer

Dimensions of the storage trolleys
- W: 56cm x L: 100cm (for acrylic)
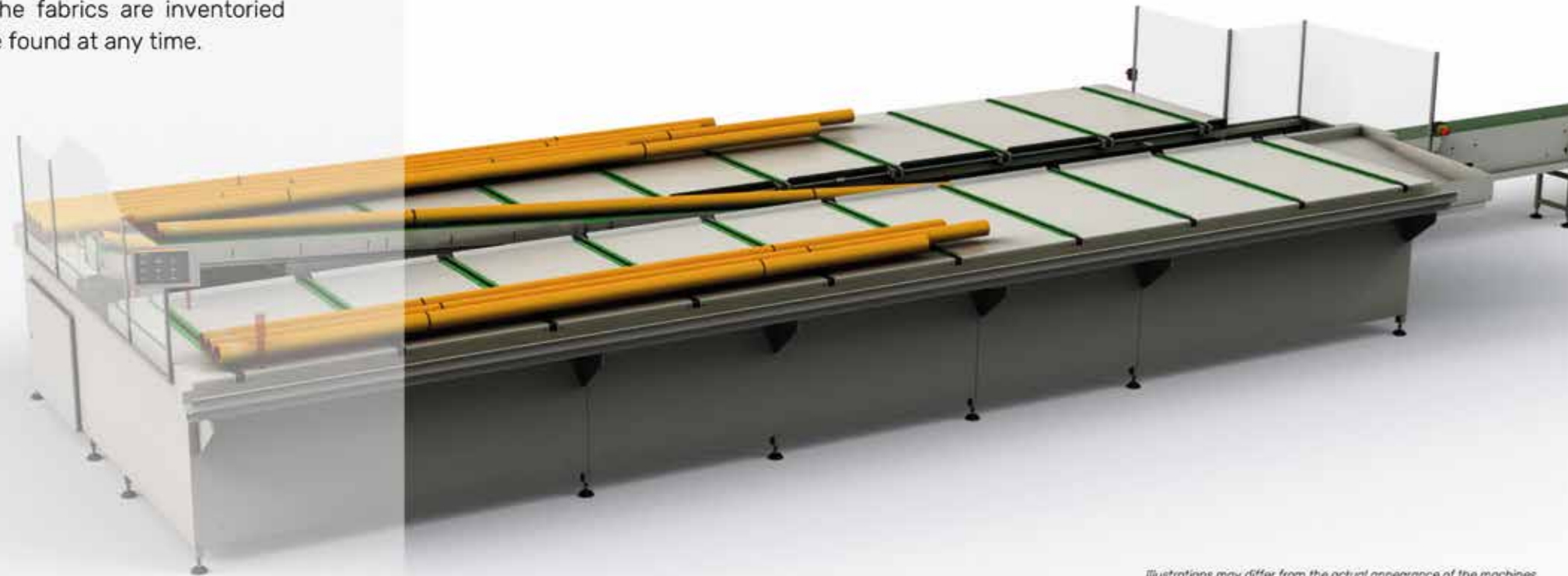- W: 56cm x L: 270cm (for screen)

Sorting and storage table SST

The sorting and storage table simplifies the handling of long and heavy fabrics by automatically transporting and sorting the fabrics from A to B.

The fabric is stored next to each other to protect the material and also allows direct access to the fabric.

Linked to the "Material Handling System", the fabrics are inventoried and can be found at any time.

Illustrations may differ from the actual appearance of the machines.

Handling is the key
Automated transport between the process stations

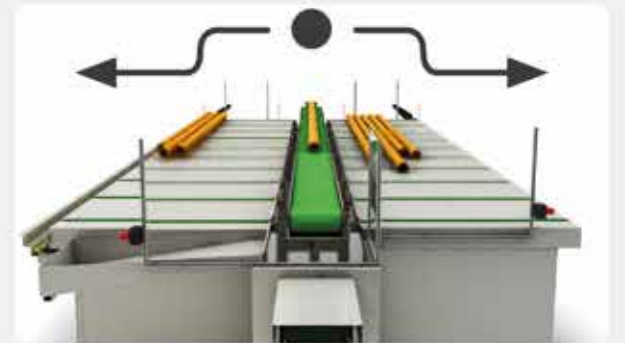- Connection between fabric production and hardware production

- Automatic transport of the fabrics
- No kinks or wrinkles
- Increased productivity at the linked process station
- Reduction of the movement radius of the operating staff
- Relief for the staff

- Capacity utilisation report
- Sorting for two subsequent processes (e.g. fabric shaft infeed, packaging)

Capacity utilisation monitor

Sorting in two directions

Process station #1

Process station #2

Fabric Tube Station FTS

The "Fabric Tube Station" FTS is a semi-automatic fabric feeding machine that can pull fabrics into the fabric shaft and wind them up automatically.

Illustrations may differ from the actual appearance of the machines.

The marriage of fabric and fabric tube

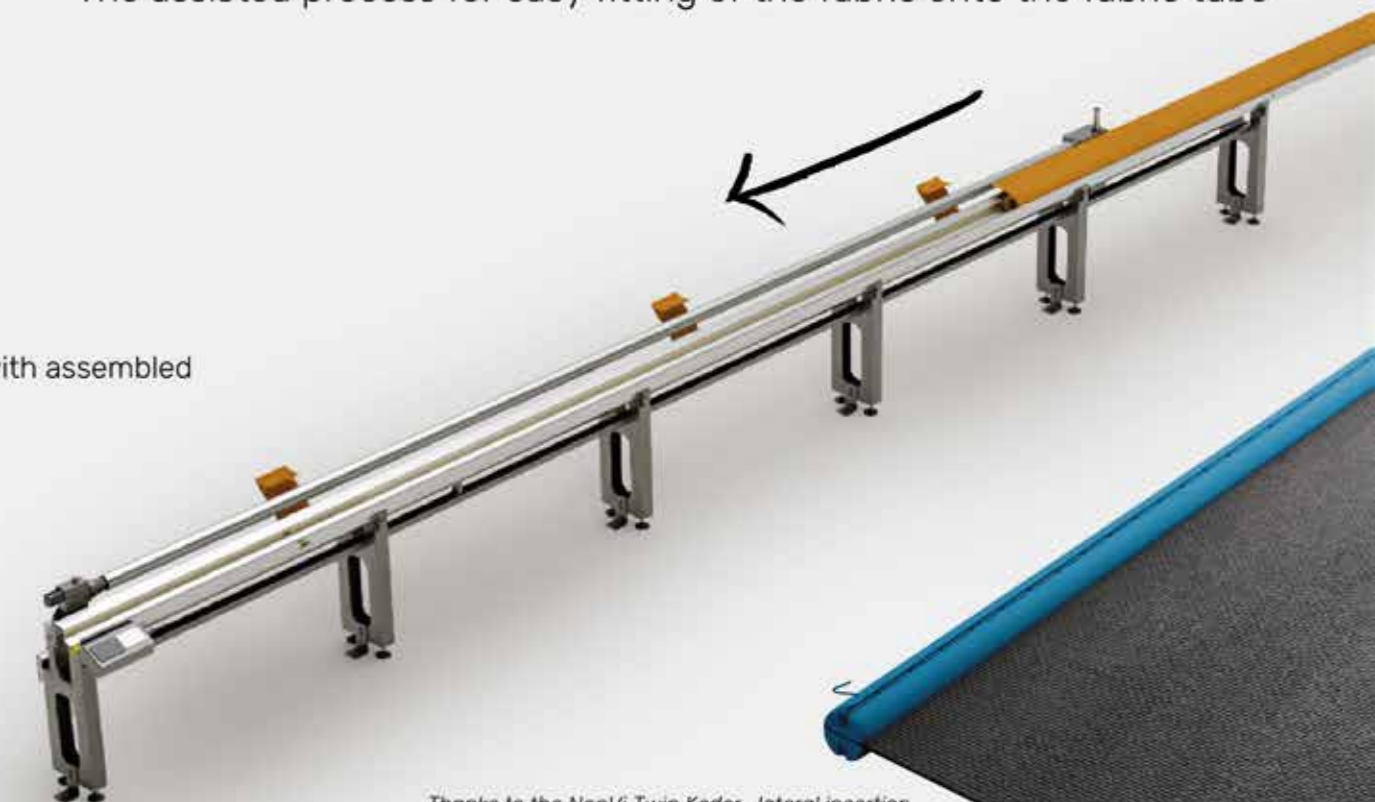The assisted process for easy fitting of the fabric onto the fabric tube

- "Marriage" from fabric tube with assembled fabric

- Automatic winding function
- Relief for staff

- Available in different lengths up to 7m
- Optionally with electronic pull-in device (not required when using the NonVi Flex plug-in keder or similar)

Thanks to the NonVi Twin Keder- lateral insertion into the fabric tube is much quicker and easier

NonVi Flex plug-in keder allows installation from the front so that the fabric does not have to be pulled in

Sewsy 4.0

The Sewsy 4.0 is a high-performance sewing unit for joining awning panels and attaching side hems.

The concept has been completely revised and now offers a wide range of new functions.

The Sewsy 4.0 can now be fully integrated into a "SmartFactory" solution and can load and recall process parameters.

Illustrations may differ from the actual appearance of the machines.

The high-performance sewing machine

Even smarter now!

- Processing of technical textiles
- Typical processing: Overlapping, right and left hem
- Sewing on zips and reinforcement strips

- Modern HMI
- Electric clamp for automatic positioning
- Defined fabric tension depending on fabric length
- Digital display of remaining bobbin thread length
- Different sewing programmes
- Programmable label position
- Remote maintenance and diagnosis

- Sewing unit available from 5m to 10m (other lengths available on request)
- Standard needle distance: 16mm
- Optional equipment:
- Electronic winding device
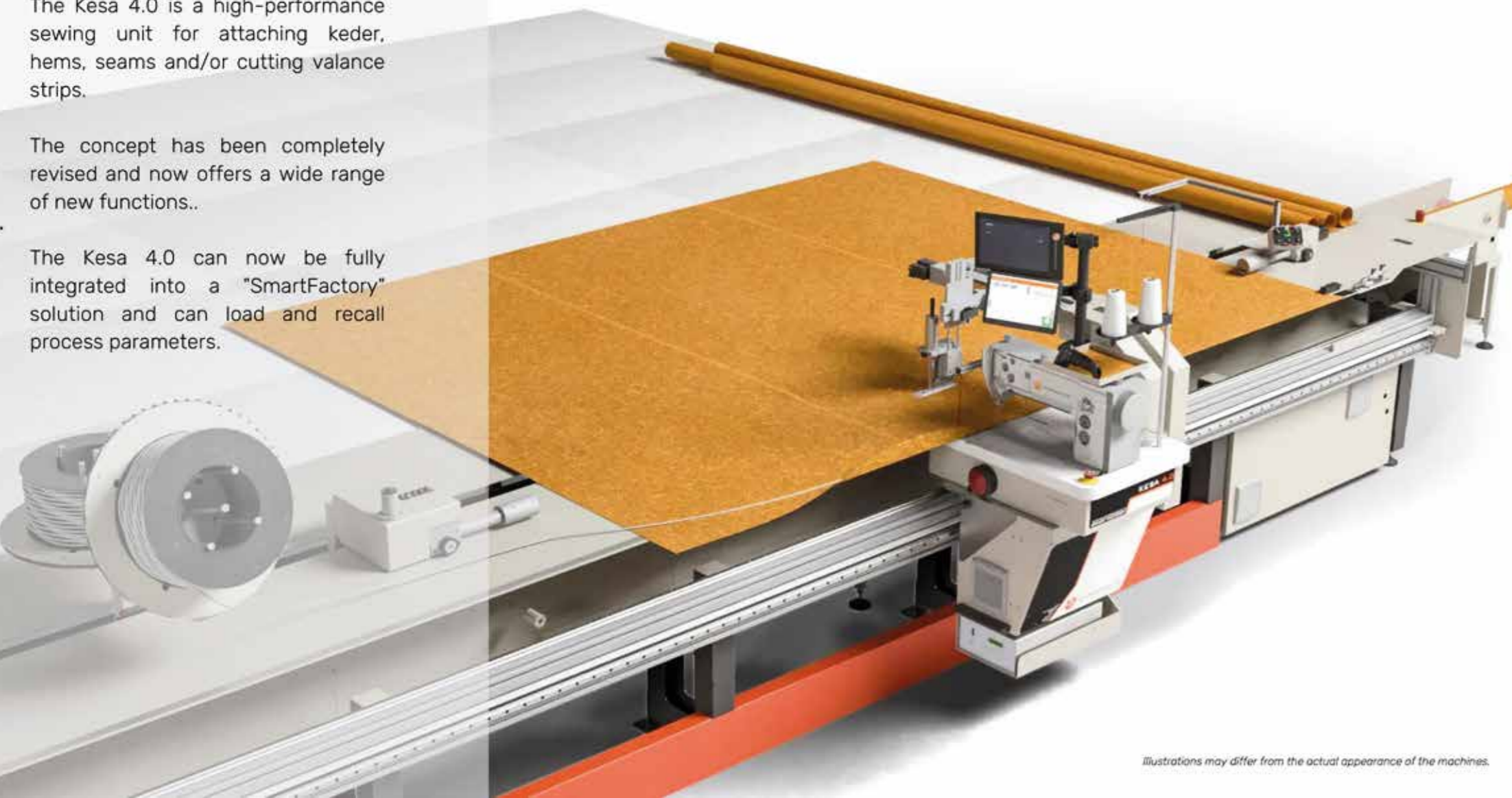 - insertion guide

Overlap and side hems

Optional electronic winding assistance

Kesa 4.0

The Kesa 4.0 is a high-performance sewing unit for attaching keder, hems, seams and/or cutting valance strips.

The concept has been completely revised and now offers a wide range of new functions..

The Kesa 4.0 can now be fully integrated into a "SmartFactory" solution and can load and recall process parameters.

Illustrations may differ from the actual appearance of the machines.

Edge processing made easy

Even smarter now!

- Processing of technical textiles
- Typical edge operations: hem, overlap, quick-fit keder
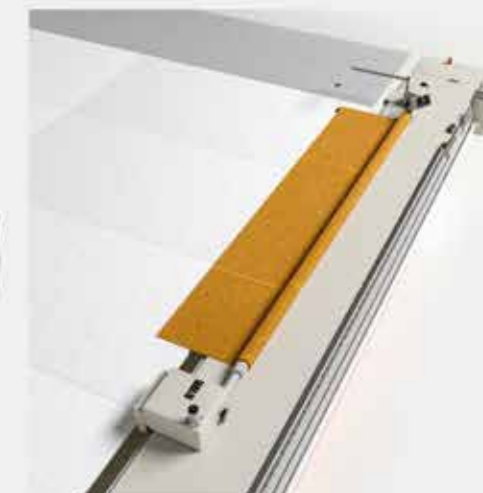- Also suitable for our **NonVi keder**

- Modern HMI
- Electronically positionable valance cutter
- Digital display of remaining bobbin thread length
- Different sewing programmes
- Programmable label position
- Remote maintenance and diagnosis

- Sewing unit available from 5m to 10m (other lengths available on request)
- Single needle or twin needle
- Optional features:
  - Valance cutter (cold knife or ultrasonic)
  - Electronic winding assistance
  - Keder roll holder

Keder roll holder

Electronic winding assistance

Valance cutter

NonVi Keder

Standard edge operations

Various keder types

R+T INNOVATION AWARD 2021 WINNER

937 Volant / Quick Zack

The 937 Volant is a special zig-zag sewing machine for binding valances with a binding tape.

The stationary binding tape feeder enables easy feeding of the valance and sewing of the folded binding tape with a zig-zag seam.

The electrically driven tape feed ensures that the binding tape is sewn in a loose state and without tension, which guarantees that it lies absolutely flat even in the various radii.

937 Volant

Quick Zack

Illustrations may differ from the actual appearance of the machines.

937 Volant
The endurance runner

- General zig-zag seams
- Binding of material edges, e.g. awning valances, sunshade membranes, etc.

- Suitable for continuous operation
- Electric tape feeder
- Convertible to straight stitch
- Thread cutter
- Fine sewing speed control via pedal
- Fixed feed for 20 mm tape
- Tape dispenser

- Maximum speed approx. 3,200 rpm

Quick Zack
The starter

- General zig-zag seams
- Binding of material edges, e.g. awning valances, sunshade membranes, etc.

- Suitable for occasional operation
- Electric tape feeder
- Convertible to straight stitch
- Thread cutter
- Fine sewing speed control via pedal
- Fixed feed for 20 mm tape
- Tape dispenser

- Maximum speed approx. 2,000 rpm

DA867

Semi-automatic sewing unit for kedering valances or awning fabrics with or without integrated keder feed.

Riegelautomat

Electronic automatic bartacker
This Brother electronic automatic bartacker is designed for sewing bartacks on lift tapes.
It can be used as a stand-alone machine or directly next to a cutting machine to ensure a continuous and smooth production process.

Illustrations may differ from the actual appearance of the machines.

DA867

- Edge processing for technical textiles such as hemming, application of various keder, NonVi keder

- Roller table on the side of the sewing machine simplifies handling
- Sewing machine with guide unit with or without keder guide and special foot
- Puller behind the sewing machine
- Stitch counter for bobbin thread control
- Quick-change device for the guide attachments
- Automatic start and end backtack

- Sewing machine with 3-fold feed
- Stitch length: 5.5 mm
- Sewing speed: up to 2,800 rpm
- Roller table 2x3 m or 2x6 m

Bartacker
Impressively quick and easy

- For sewing bartacks on lift tapes
- Suitable for all tapes (Texband and Webtex)

- Seam pattern: zig-zag bartack lengthwise or crosswise to the tape
- Fast sewing cycle for high production output
- Various seam patterns for single and double seams can be called up directly via the keyboard
- As stand-alone machine or directly next to cutting machine
- Special thread cutter for short thread ends
- For 6, 8 and 10 mm wide lift tapes

- 1,200 stitches per minute

Weldsonic Twin 4.0

The Weldsonic Twin 4.0 ultrasonic gluing machine is an automatic machine for continuous gluing of thermoplastic-coated fabrics such as PVC sheets, polyester or glass fibre screens, Soltis® etc., as well as for gluing non-thermoplastic materials such as acrylic or polyester fabrics using a hot-melt adhesive tape.

Illustrations may differ from the actual appearance of the machines.
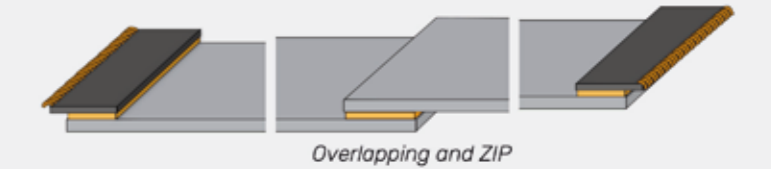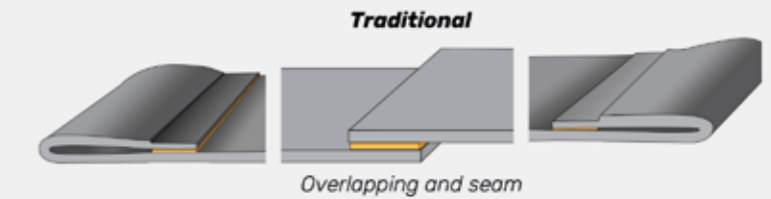
- Bonding of technical textiles (PVC-coated and PVC-free fabrics)
- Typical applications: Overlapping, right and left hem
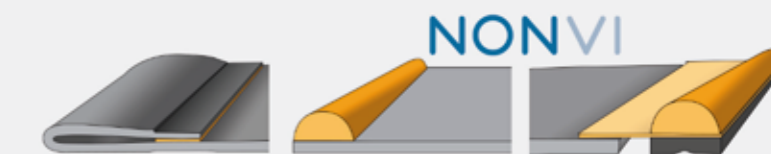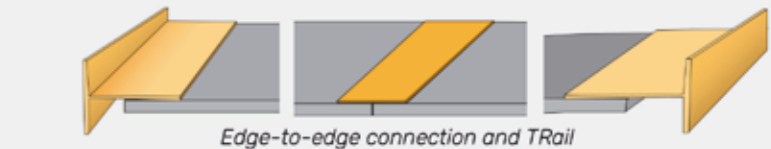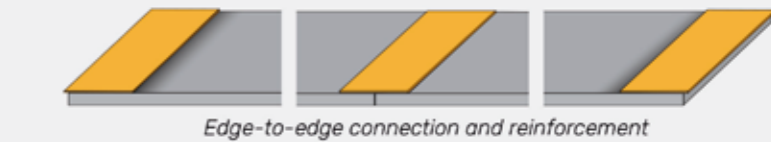- Suitable for **TRail, UltraSeam** and **NonVi** components

- Ultrasonic head with two rotary sonotrodes
- **360°** processing possible when mounted on a side table
- Programmable fabric settings
- 13" touch display with modern UI design
- Electric clamp for automatic positioning
- Defined fabric tension depending on fabric length
- Optimally accessible operating elements
- Real-time temperature monitoring of the seam

- Seam lengths from 5m to 10m (other lengths on request)
- Width of the glued seam: up to 21mm
- Optional equipment:
    - UltraSeam Kit
    - Automatic fabric width measurement
    - Electronic winding assistance
    - Insertion guide

Gluing can be so simple

Engineered with precision

Traditional

Overlapping and seam

Overlapping and ZIP

|ULTRA SEAM + **TRAIL**

Edge-to-edge connection and reinforcement

Edge-to-edge connection and TRail

NONVI

Longitudinal Processing

Cross Processing
(tube and drop profile fixation)

ScreenSonic 360°

The ScreenSonic ultrasonic gluing machine is the fastest solution on the market for processing all four edges of a textile screen.

The machine offers a revolutionary processing method in which all four sides of the textile can be processed on one machine by gradually rotating the fabric through 360°.
This leads to a significant increase in productivity of up to 80%.

- Bonding of technical textiles (PVC-coated and PVC-free fabrics)
- Production of window / vertical awnings
- Suitable for **TRail** and **NonVi** components
- Traditional production also possible (e.g. overlay, ZIP and similar)
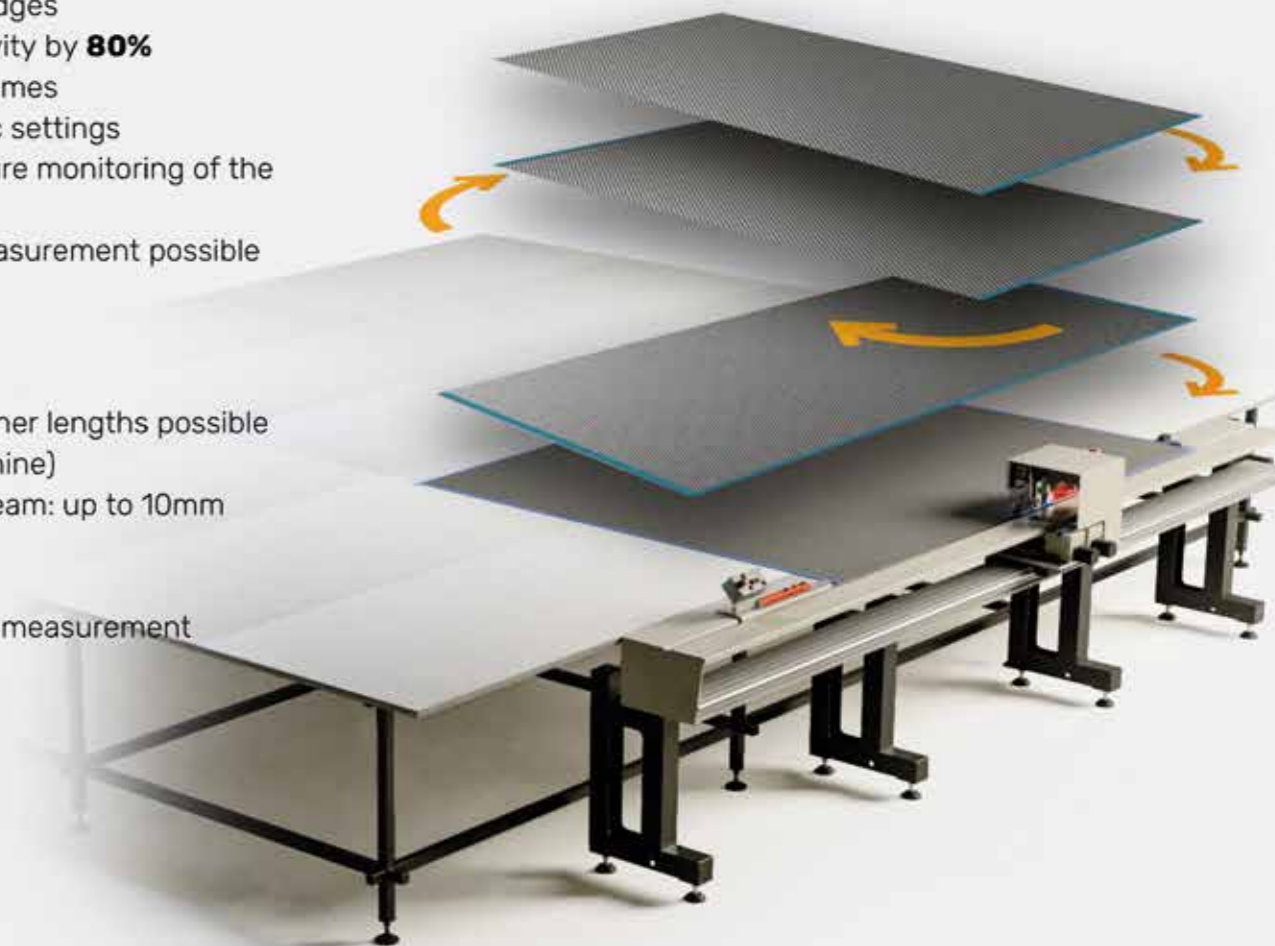
- Ultrasonic head with two rotary sonotrodes
- Gradual **360°** rotation of the fabric for processing all four edges
- Increase in productivity by **80%**
- No more rewinding times
- Programmable fabric settings
- Real-time temperature monitoring of the seam
- Automatic width measurement possible

- Seam length: 4m (other lengths possible by pushing the machine)
- Width of the glued seam: up to 10mm
- Optional equipment:
  - Insertion guide
  - Automatic width measurement

FOUR edges ONE machine

Processing the fabric step by step through 360°

Illustrations may differ from the actual appearance of the machines.

CutSonic

The CutSonic table cutting machine is the perfect entry-level machine for manual cutting of various technical textiles.

Whether tarpaulins & banners, roller blinds, PVC screens or awnings, almost any textile can be cut thanks to the use of different cutting tools.

Illustrations may differ from the actual appearance of the machines.

The allrounder

Can be used in a variety of applications

- Manual cutting of technical textiles
- Acrylic, PVC, polyester fabric

- Simple operation
- Selectable between ultrasonic and cold knife at the touch of a button
- Manually adjustable stopper
- Digital display of the length measurement

- Working widths: 4m, 5m, 6m
- Cutting tools: Ultrasound, cold knife
- Table size: variable
- Cutting speed: adjustable

CutSonic Pro

The CutSonic Pro table cutting machine is the perfect solution for getting started with automated awning cutting.
Simple and efficient.

Whether tarpaulins & banners, roller blinds, PVC screens or awnings, almost any textile can be cut thanks to the use of different cutting tools.

Illustrations may differ from the actual appearance of the machines.

The new generation

The further development of a long-established concept

- Automatic cutting of technical textiles
- Typical textiles: acrylic and polyester fabrics
- Use for awning production

- Automatic fabric pull-off
- Length cut during fabric pull-off
- Length and cross cut with ultrasound
- Awning calculation programme

- Working widths: 1.3m / 2m
- Pull-off lengths: 5m to 10m (other lengths on request)
- Cutting tool: Ultrasonic
- Cutting speed: adjustable
- Optional equipment:
  - Electronic winding assistance
  - Additional ultrasonic cutter

AcrylCut

The smallest and fastest acrylic cutting machine on the market. Ideal for anyone who wants to optimise the cutting process for acrylic rolls.
The machine is easy to operate and thanks to the latest NODE software technology, connection and integration to existing machines and operating processes is no problem.

An unbeatable solution in combination with the RLS Pro automatic roll storage system.

Illustrations may differ from the actual appearance of the machines.

Revolutionary design
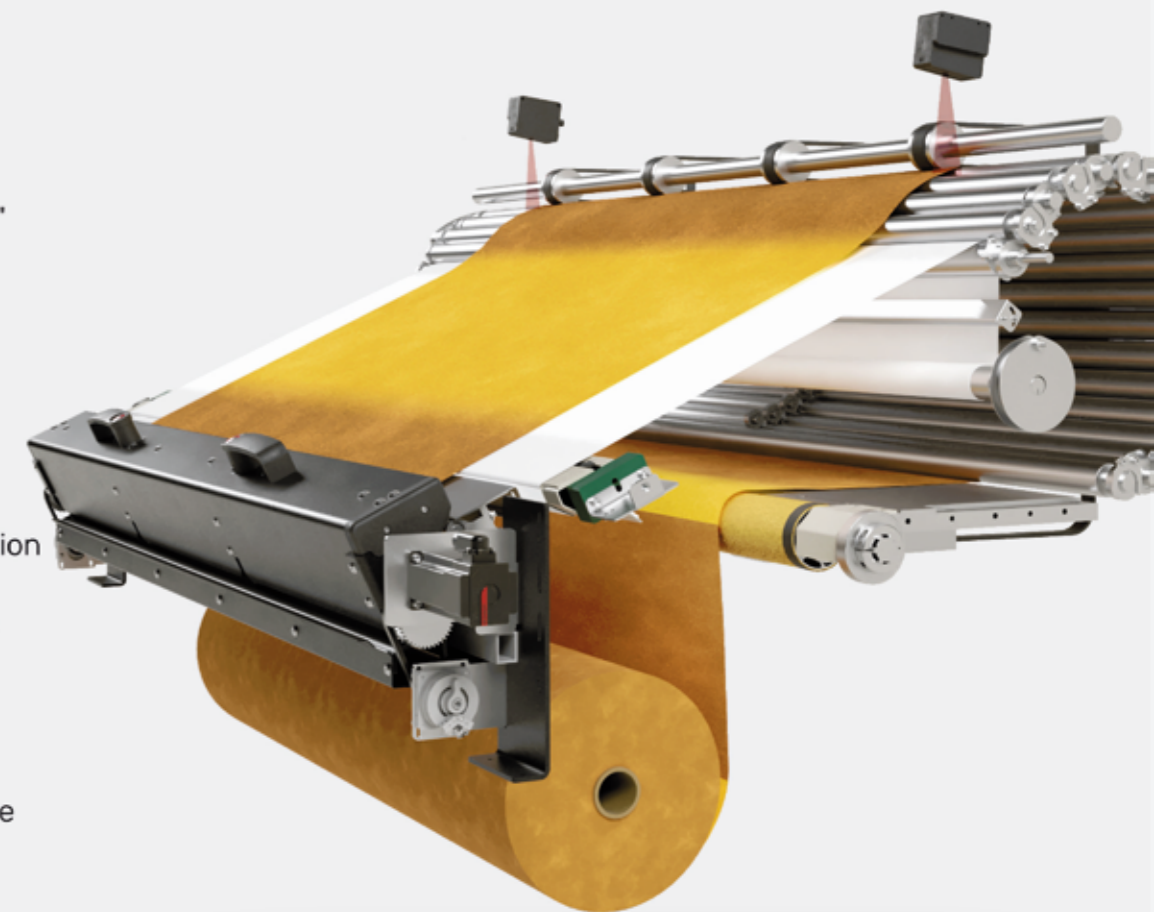
"Roll-to-roll" concept

- Automatic cutting of technical textiles
- Typical textiles: acrylic and polyester fabrics
- Use for awning production

- Only **3m²** space requirement
- Very high productivity due to "from roll to roll" concept
- Automatic winding of the fabric during the length cut
- Precise measurement, calculation and edge trimming of the fabric
- Relief for the staff
- Intuitive operation and modern HMI
- Ultrasonic cutting heads with electronic rotation axis
- Connection to RLS Pro automatic roll storage system possible

- Working widths: 1.3m
- Pull-off lengths: not limited (depending on the thickness and weight of the textile)
- Cutting tool: Ultrasonic
- Automatic winding device
- Automatic fabric position and width measurement
- Optional equipment:
  - Additional ultrasonic cutters (max. 4 pcs.)

ScreenCut

The ScreenCut revolutionises the cutting of fabrics.
The machine is characterised by simple, fast and precise processing of textiles.
The special design allows a significant increase in production capacity, as manual handling times are almost completely eliminated. A wide range of fabrics can be cut as it is possible to switch between ultrasonic and cold knives.

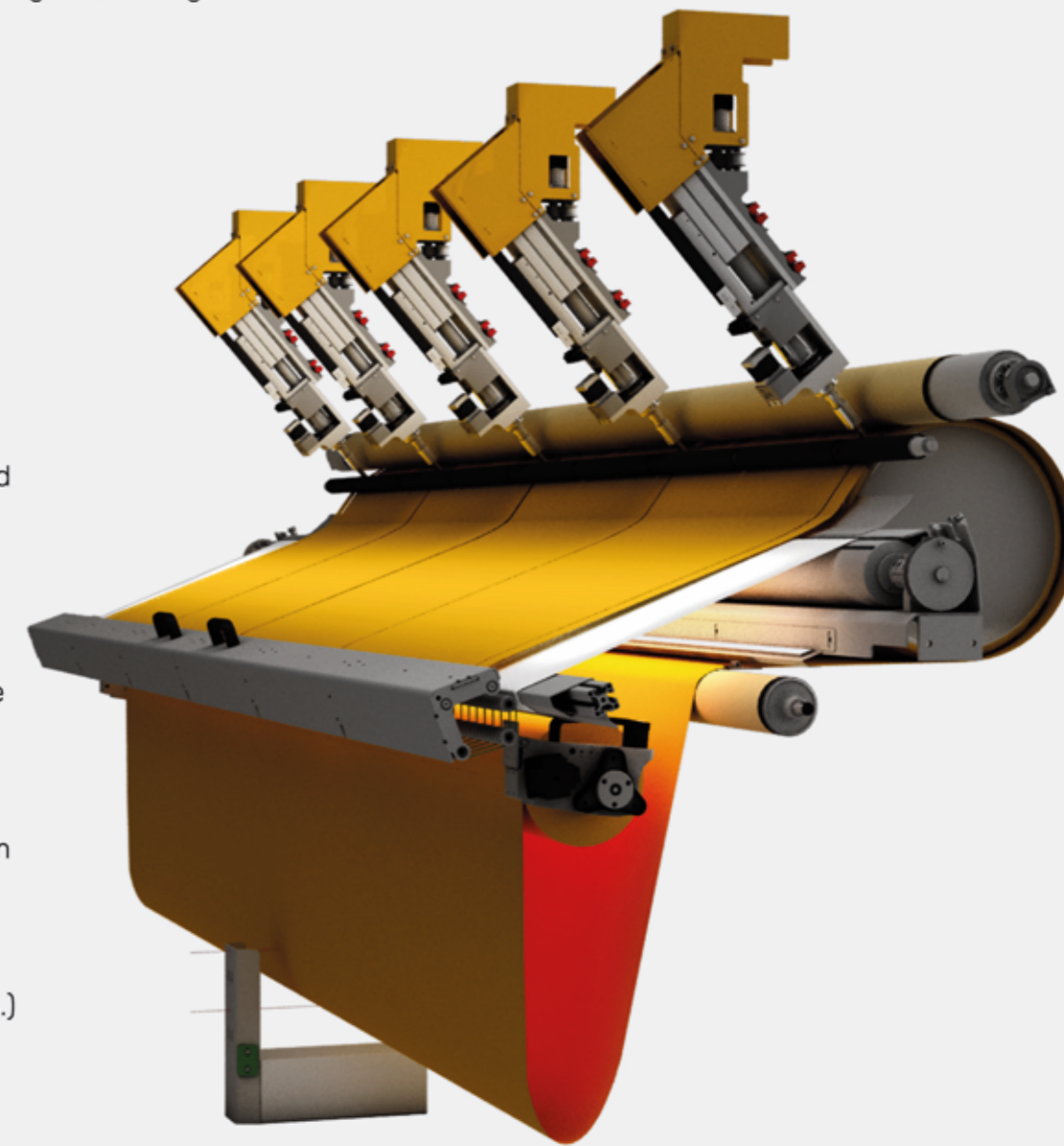*Illustrations may differ from the actual appearance of the machines.*

- Automatic cutting of technical textiles
- Typical textiles: Screen, Soltis, acrylic and polyester fabrics
- Used for the production of window awnings, pergolas, folding arm awnings, roller blinds and much more
- Internal and external sun shading

- Only **9m²** space requirement
- Screen cut to size in just 38 seconds (Fabric dimensions: H: 2.4m x W: 2m)
- Waste optimisation possible by nesting the orders
- Intuitive operation and modern HMI
- Connection to a "pick-place-by-light" system possible
- Quick changeover between ultrasonic and cold cutting possible
- Shape cutting possible

- Working width: max. 3.5m
- Pull-off lengths: not limited (depending on the thickness and weight of the textile)
- Automatic winding device
- Cardboard tube width: 800mm - 3,640mm
- Cardboard tube inner diameter: 45mm - 78mm
- Max. Roll weight: 100kg
- Max. Roll diameter: 280mm
- Optional equipment:
  - Additional cutting heads (up to max. 6 pcs.)
  - Selectable cutting technology (ultrasonic and/or cold knife)
  - Error mark detection

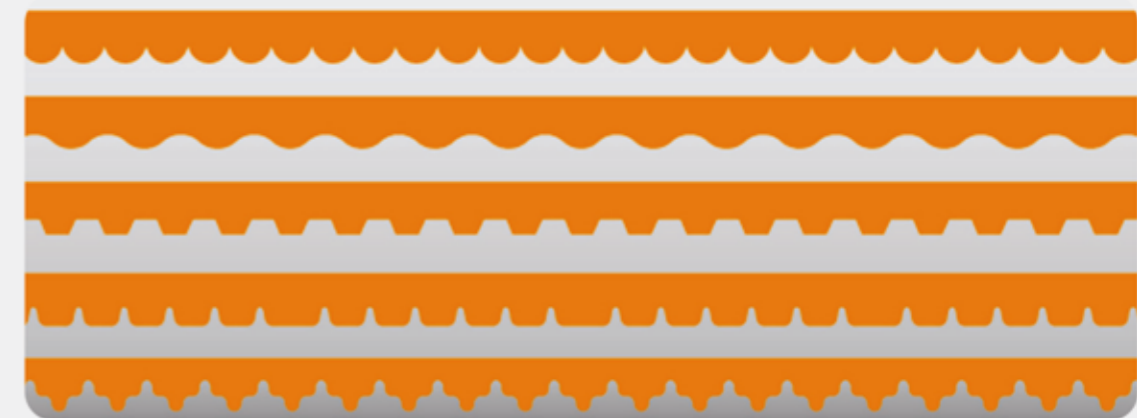# Revolutionary design

"Roll-to-roll" concept

Punchy

The Punchy is a computer-controlled cutting machine for automatically cutting a wide range of curves on awning valances.

After manually entering the valance dimensions or transferring them via the computerised network and selecting the valance curve pattern, the valance strip is inserted into the machine and automatically pulled to the starting position. When the cutting process starts, the valance is moved forwards via a transport system and cut at the same time.

Illustrations may differ from the actual appearance of the machines.

Numerous valance shapes

- Valance cutting

- Compact design
- Pattern preview
- Selection from over 60 pre-programmed shapes
- Automatic retraction of the valance strip to the starting position
- Network-compatible
- Data connection to customer ERP possible

- Valance height: 120mm - 450mm
- Trim height: min. 10mm
- Incision height: max. 70mm (90mm also possible depending on material)

TapeMaster Pro

Our latest innovation in the field of lift tape processing.

The TapeMasterPro has been specially developed for the fully automatic processing of lift tapes for external venetian blinds.

High capacity and short set-up times take your production to a new level.

Illustrations may differ from the actual appearance of the machines.

Fully automatic cutting, folding, sewing

with customised stacking of the tapes

- Fully automatic processing of lift tapes
- For high production volumes

- Processing of Webtex (Julius Koch) as well as TEXBAND® (Huber Bandfabrik)
- Tapes with a width of 6 and 8 mm can be processed
- Short cycle times and short set-up times
- Works largely autonomously and relieves staff
- Orders are read in via CSV file or entered manually via the display
- The type of stacking can be customised
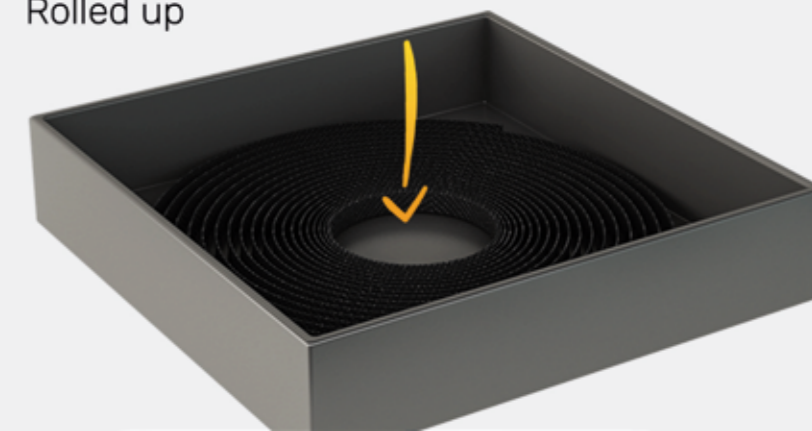
- Seam position 15-25mm
- Fold length 10-40mm

Single stack

Multi stack

Rolled up

LaserCut

Our latest innovation in the field of lift tape cutting.

The LaserCut was specially developed for processing the Webtex tape from Julius Koch and the Texband from Huber & Co. AG Bandfabrik. This means that the tapes from both manufacturers can be cut quickly and to a consistently high quality on just one machine, and marked with a fold embossing for the subsequent sewing process at the same time.

Lifttape Cutter

The fully equipped tape cutter was specially developed for processing of Texband from Huber & Co. AG Bandfabrik. This means that the tapes can be cut quickly and to a consistently high quality as well as marked with a fold embossing for the subsequent sewing process at the same time.

Illustrations may differ from the actual appearance of the machines.

Cutting can be this simple

The classic for Lifttape cutting

LaserCut

- Cutting of lift tapes
- For high production volumes

- Cutting of Webtex (Julius Koch) as well as TEXBAND® (Huber Bandfabrik) possible
- Tapes with 6, 8 and 10 mm width can be processed
- Laser cut for sealed edges
- Kink marking for easy recognition of the loop kink point
- Length accuracy due to kink marking
- Length and quantity can be entered on the display or imported via barcode scanner or network
- Label printer
- Integrated belt error control system
- Stacker for cut tapes

- Driven film spool
- Roller dancer for tension-free tape pull-off
- Output: 350 tapes of 2m per hour

Lifttape Cutter

- Cutting of Texband
- For high production volumes

- Textband in 6, 8 and 10 mm width
- Pneumatic cutter
- Kink marking for easy recognition of the loop kink point
- Length accuracy due to kink marking
- Integrated tape error control system
- Length and quantity can be entered on the display or imported via barcode scanner or network
- Stacker for cut belts

- Driven film spool
- Roller dancer for tension-free tape pull-off
- Output: 350 tapes of 2m per hour

NODE

The NODE system is a production planning and control software, also known as MES.

Various modules can be used to digitalise and network production at different stages.

The path to SmartFactory

Industry 4.0

NODE CORE

Master data management
- Fabric groups / fabric types / fabric articles etc.

NODE WAREHOUSE

Roll and component inventory management
- Real-time mapping of the inventory
- Automatic notification when stock shortages are reached
- Detailed roll information
  - Digital error map of rolls

NODE WORKFLOW

Production planning tool
- Import of customer orders
- Management of production lots
- Creation of a cutting preview
- Comparison of forecast consumption with available stock
- Notification of stock shortages before the start of production
- Optimisation of offcuts by nesting orders, taking into account the digital error map
- Creation of workflows (production steps) for products

NODE STATISTICS
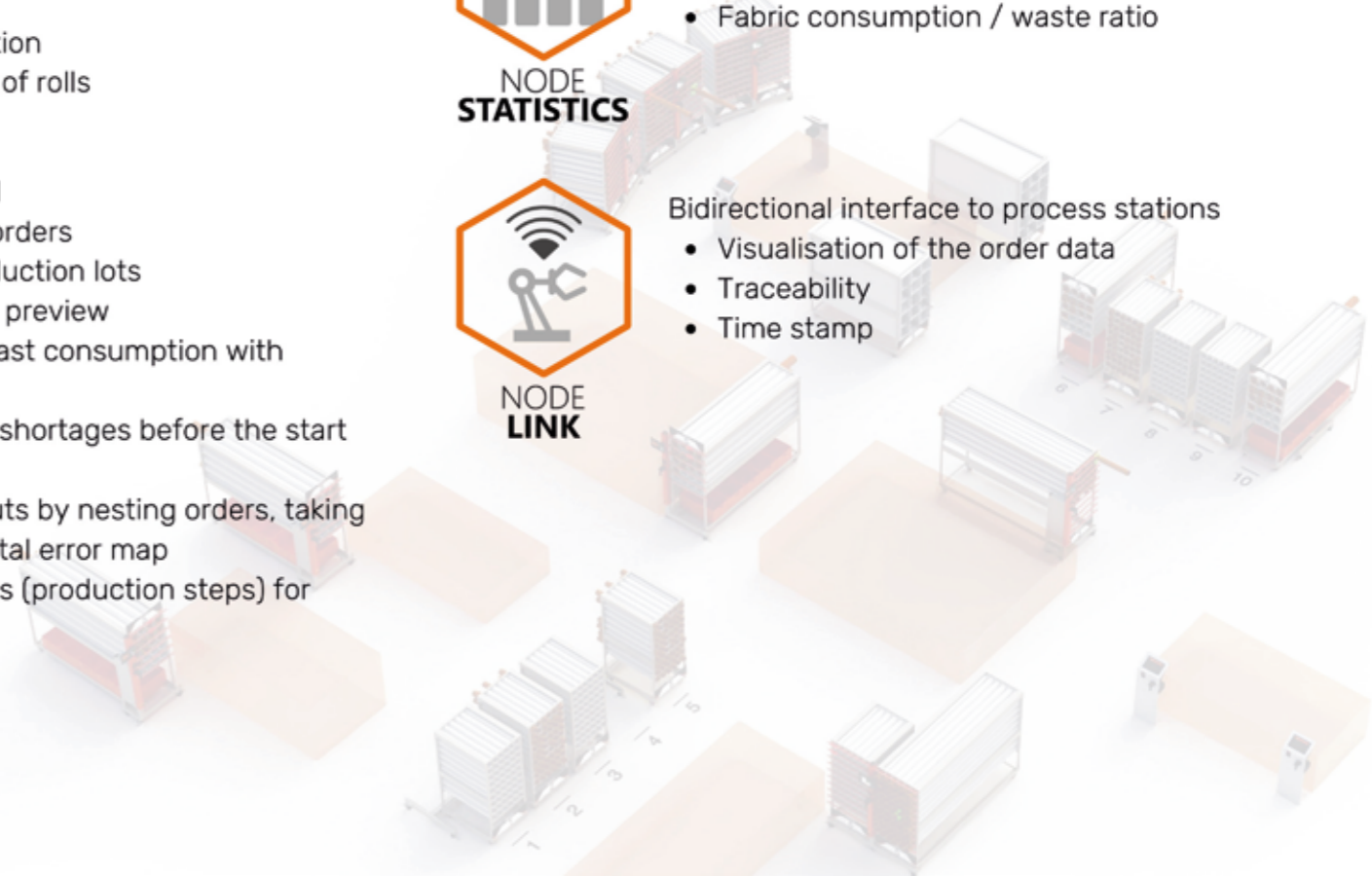
Dashboard on production-relevant information
- Average processing time
- Number of completed orders
- Fabric consumption / waste ratio
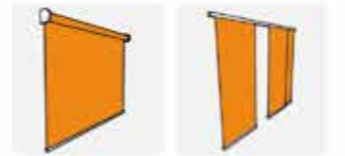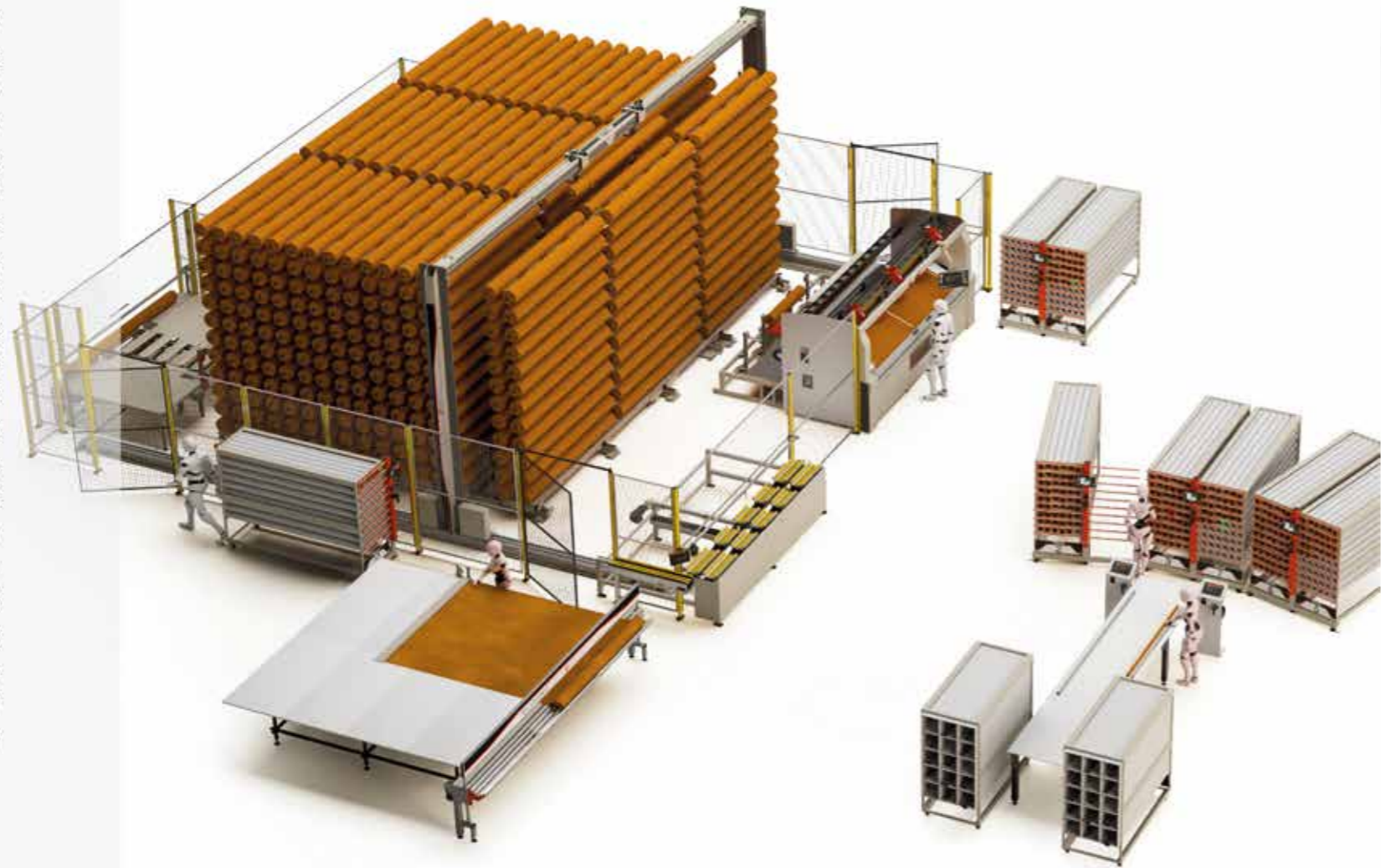
NODE LINK

Bidirectional interface to process stations
- Visualisation of the order data
- Traceability
- Time stamp

SmartFactory

Our company offers comprehensive consulting services for customers who are planning a new production hall or want to expand or modernise their existing production facilities. As an experienced system supplier for the sun shading industry, we support our customers with our expertise from concept development to implementation. We analyse the individual requirements and goals of each customer in order to develop tailor-made solutions that increase efficiency and minimise costs. We place particular emphasis on a holistic approach that includes aspects such as layout optimisation, material flow management and technology integration. Through our holistic approach, we support our customers in optimising their production capacities and ensuring long-term success.

Example of roller blind and panel curtain production

Example of awning production with slim fabric

Example of awning production with wide fabric

Illustrations may differ from the actual appearance of the machines.