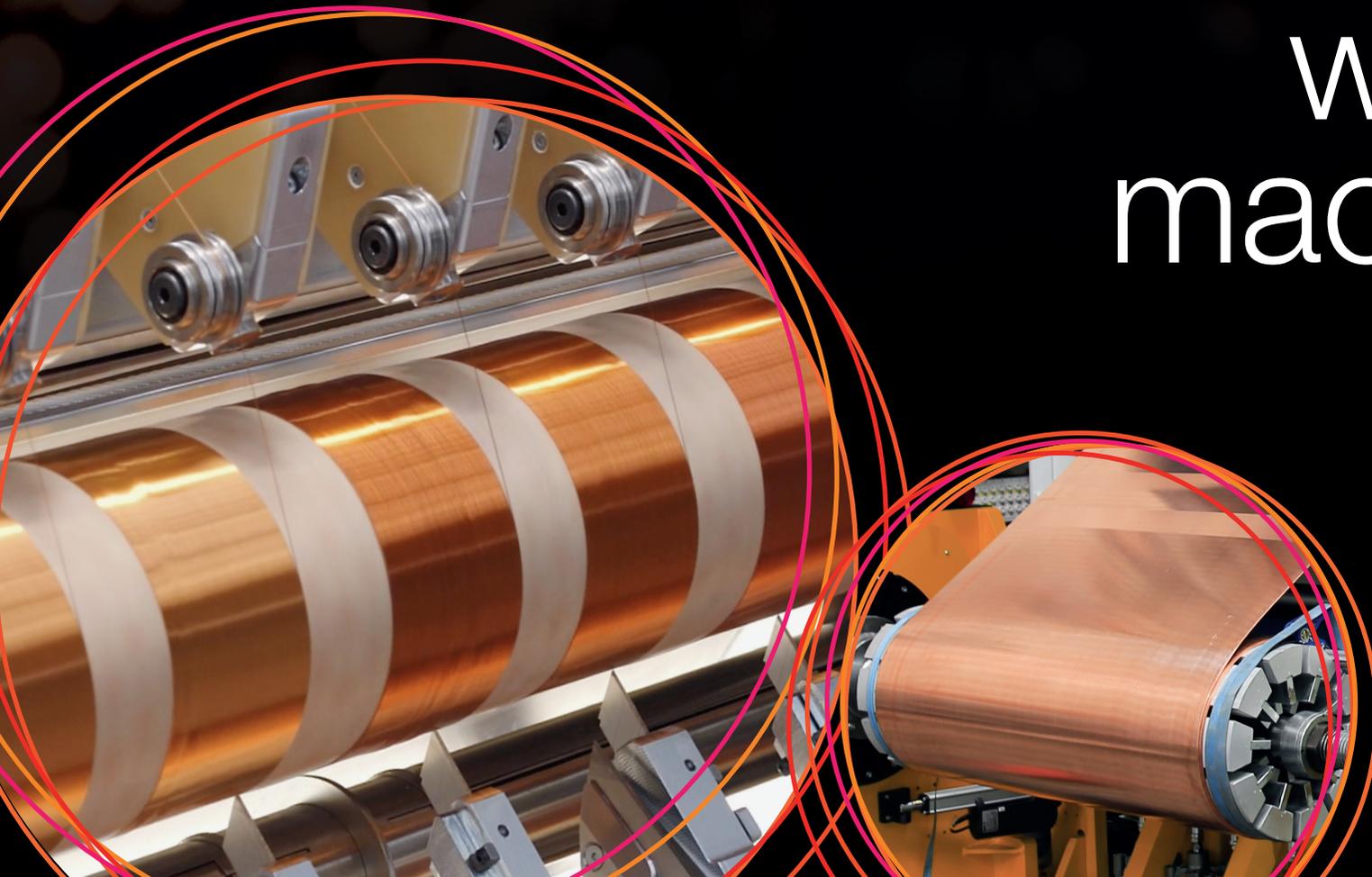


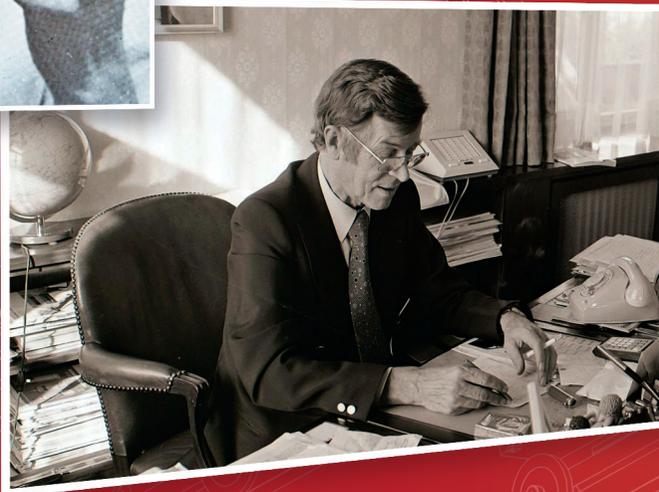
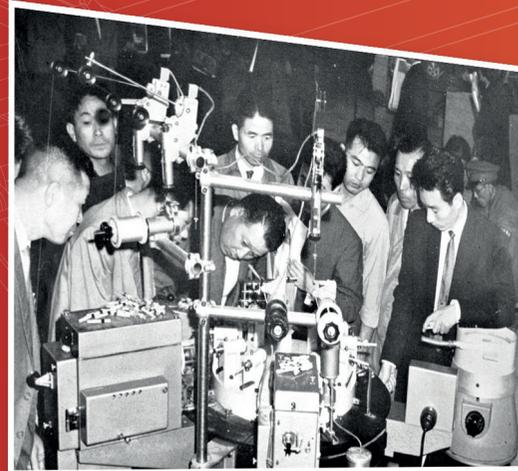
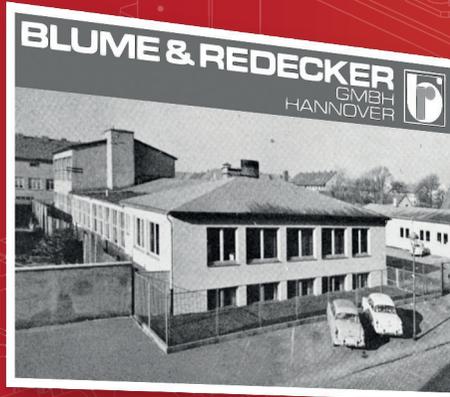
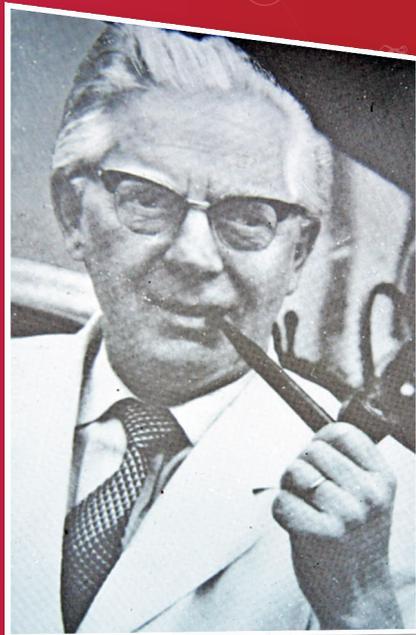
STANDARD AND CUSTOMIZED SOLUTIONS MADE IN GERMANY



winding machines

since 1948





How Blume & Redecker became BR Technologies



founding
1948

1950

1960

1970

1980

1990

2000

2010



1948
78 years
of experience
MADE IN GERMANY
2026



Sonja Quandt
Owner & CEO

In 1948 Mr. Hugo Blume and Mr. Karl Georg Redecker founded a highly specialized company for coil winding machines in Hanover, Germany.

The company grew rapidly until 1990 when our family joined the business to enable further growth. The name changed from "Blume + Redecker" to "BR Winding Systems" which later on became "BR Technologies" – in short: "BR".

today

"Your reliable partner
for coil winding solutions."



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Semi automatic



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HYDRA

Automatic winding machine

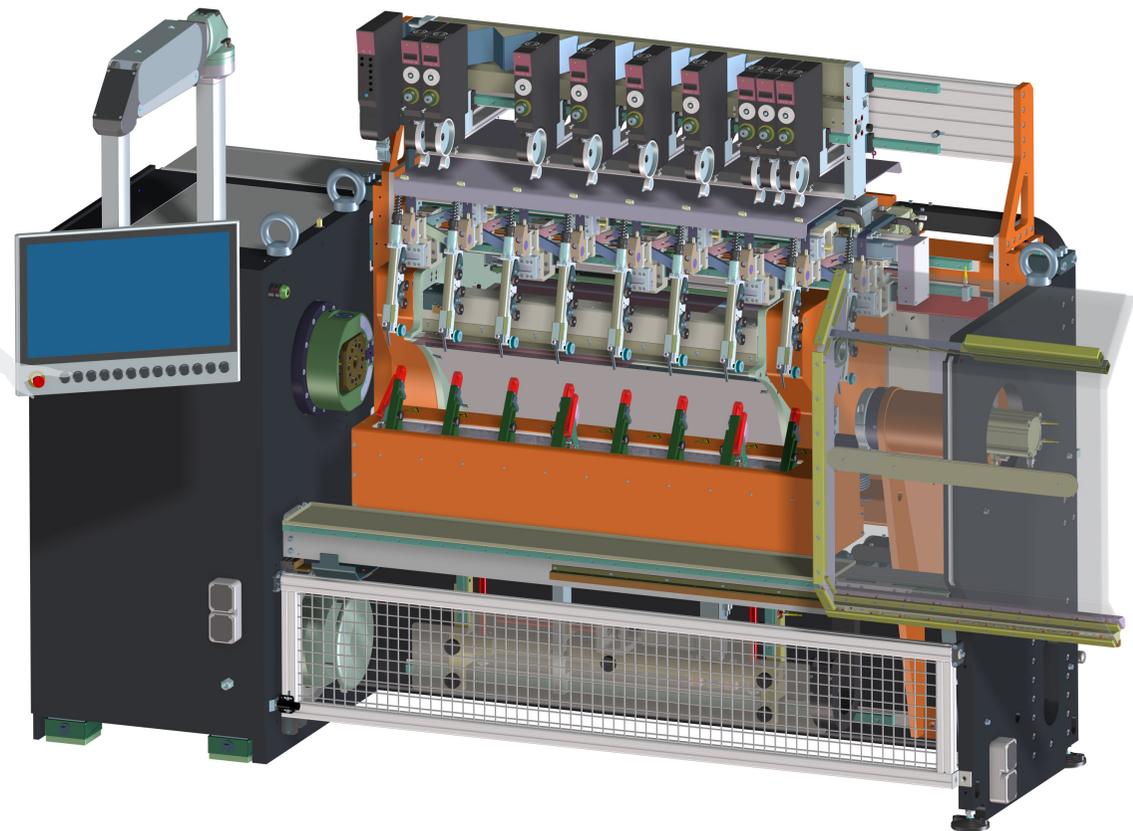
Medium voltage instrument transformers

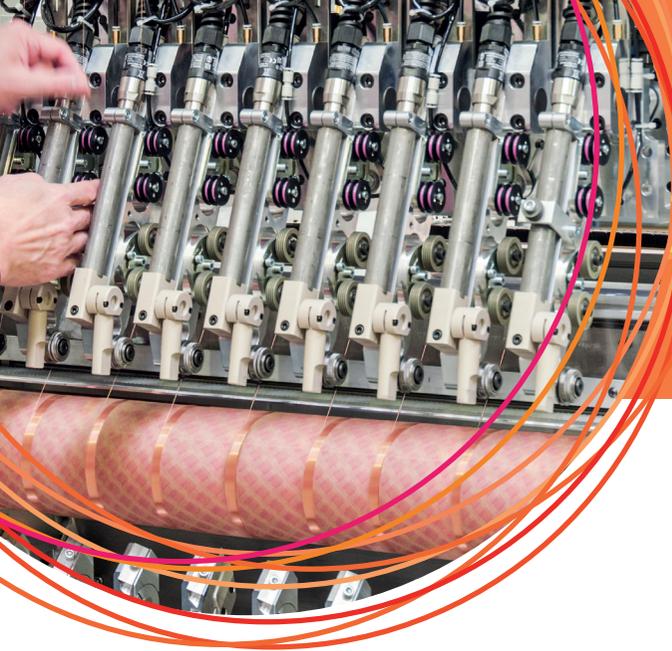
Basics

- Fully automatic operation
- Electronic wire tensioners ensuring constant wire tension
- Automatic insulation feeder
- Automatic coil separation
- Coil diameter up to 360 mm; coil width up to 180 mm
- Control system with network connection and remote maintenance
- Coil data files can be prepared in the office and loaded from a network server
- Round, oval and rectangular coils
- Cross section of winding: rectangular, trapezoidal or stepped

Options

- Automatic wire guide and blade distance adjustment
- Width-cutting of insulation
- Rewinding of leftover insulation
- Coil edge step cutting
- Safety fence available





HYDRA Strip

Automatic winding machine

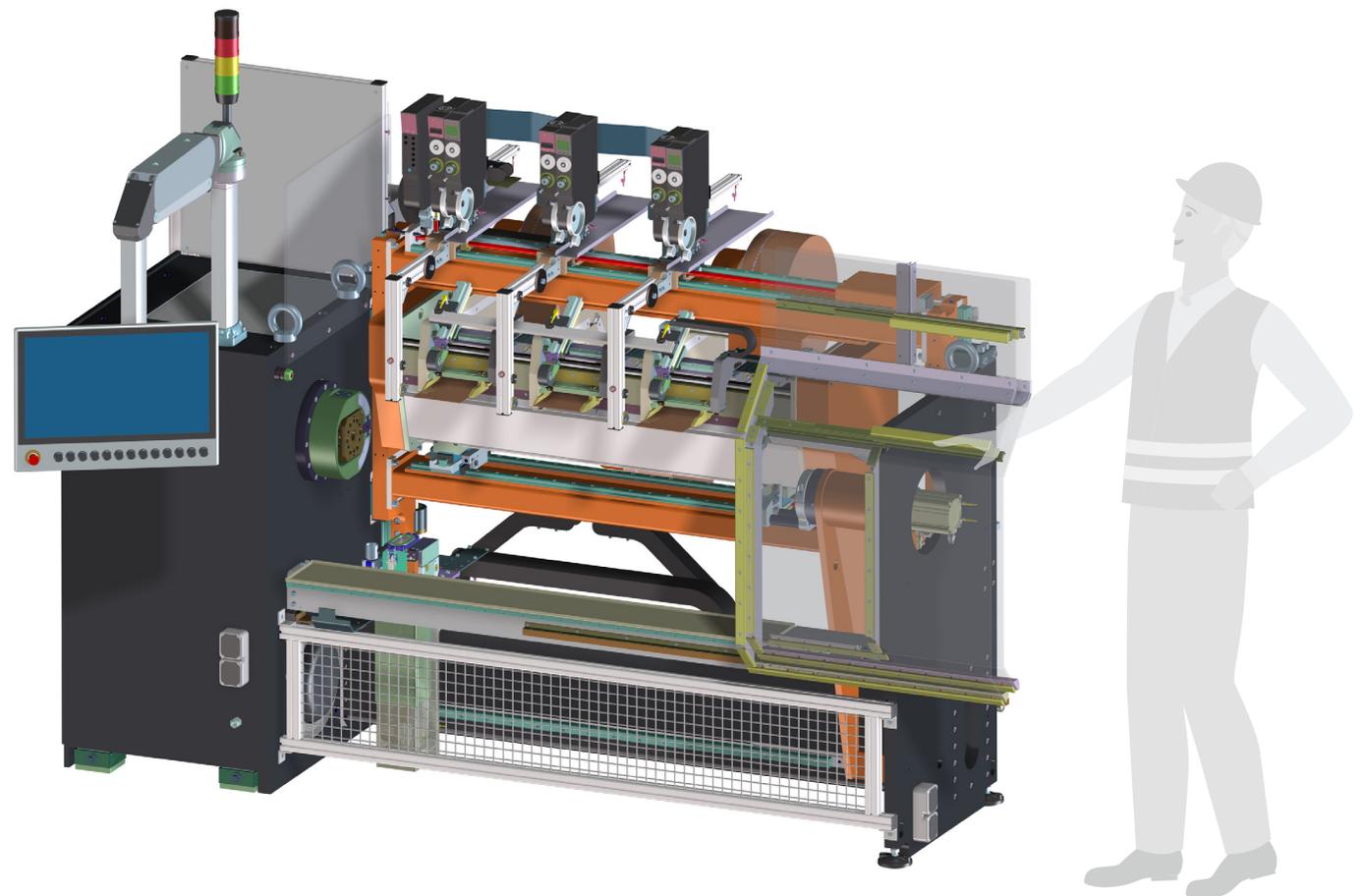
Medium voltage instrument transformers

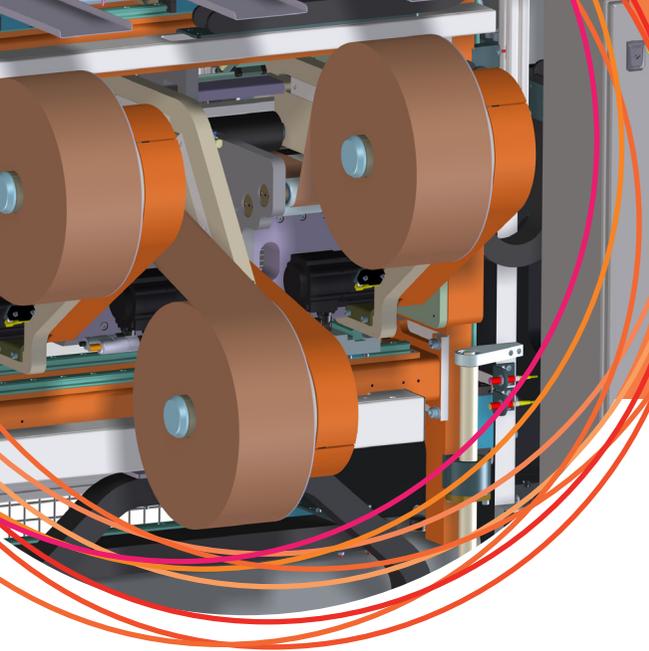
Basics

- Fully automatic operation
- Up to 6 coils simultaneously on one machine
- Coil diameter up to 220 mm;
coil width up to 150 mm
- Round, oval and rectangular coils
- Cross section of winding: rectangular
- Automatic insertion of layer insulation

Options

- Hot-melt glue devices
- Guiding roll and protection unit for wire drum
- Scale for wire end detection
- Safety fence available





PHOENIX

Automatic winding machine

High voltage instrument transformers

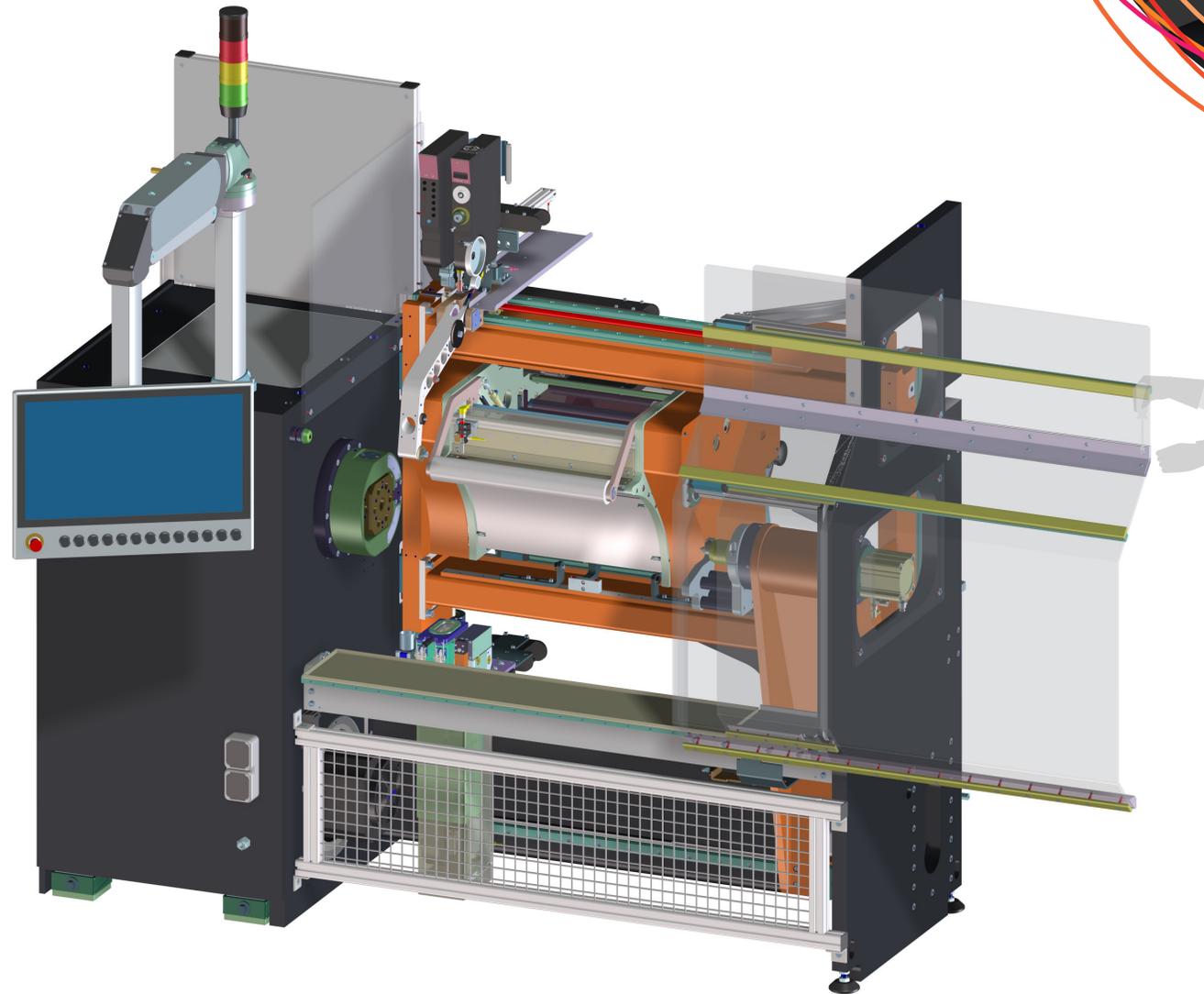
Basics

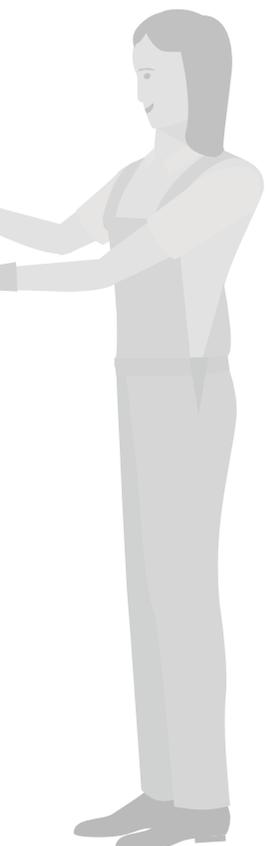
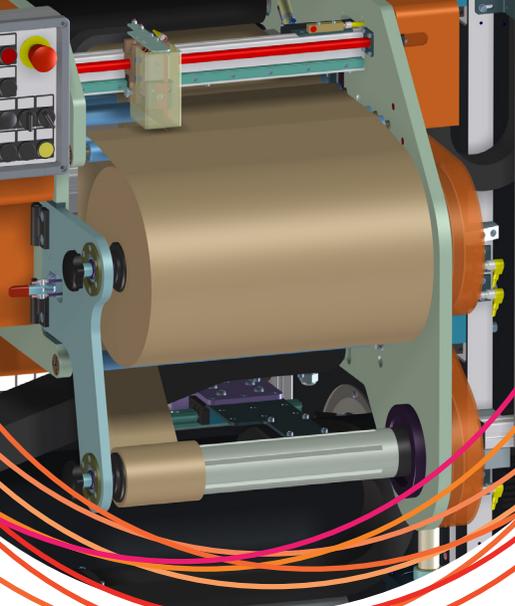
- Fully automatic operation
- Automatic insulation feeder with leftover material re-winder
- Coil diameter up to 500 mm; coil width up to 420 mm
- Control system with network connection and remote maintenance
- Coil data files can be prepared in the office and loaded from a network server
- Round coils
- Cross section of winding: rectangular, trapezoidal, stepped or customized shapes
- Hot-melt glue device

Options

- Second wire tensioner
- Guiding roll and protection unit for wire drum
- Scale for wire end detection
- Second hot-melt glue device
- Hot air blower
- Safety fence available

 Quality made in Germany



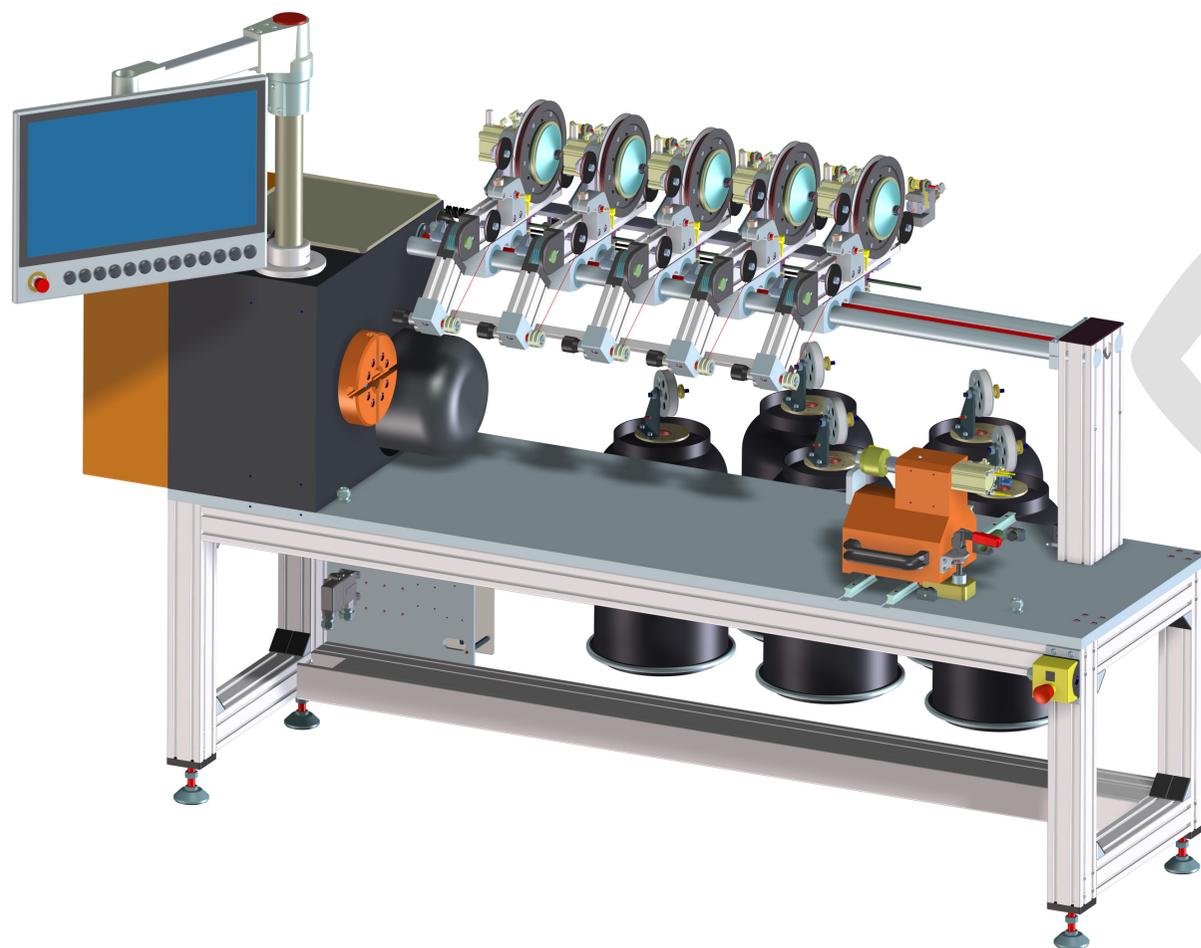


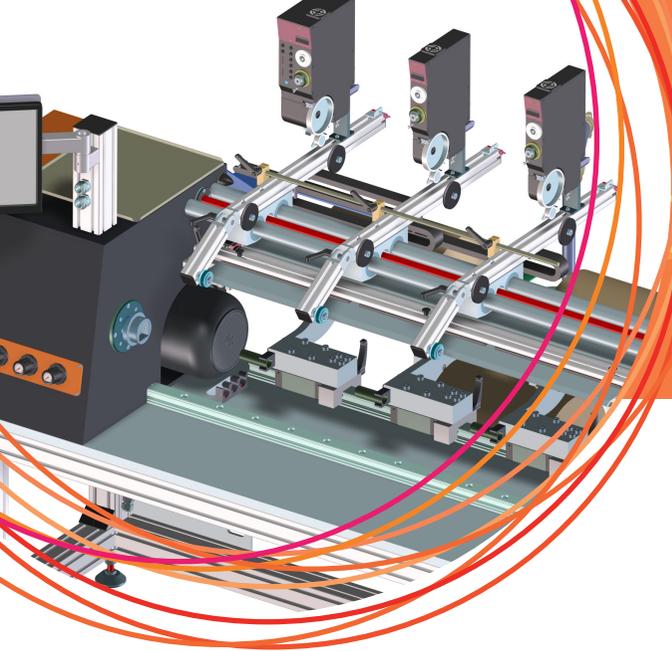
Basics

- Semi automatic operation
- Coil diameter up to 400 mm for round coils
- Full-width insulation
- PC based control system with network connection

Options

- Additional wire guides
- Guiding roll and protection unit for wire drum
- Scale for wire end detection
- Safety fence available





LION 1

Automatic winding machine

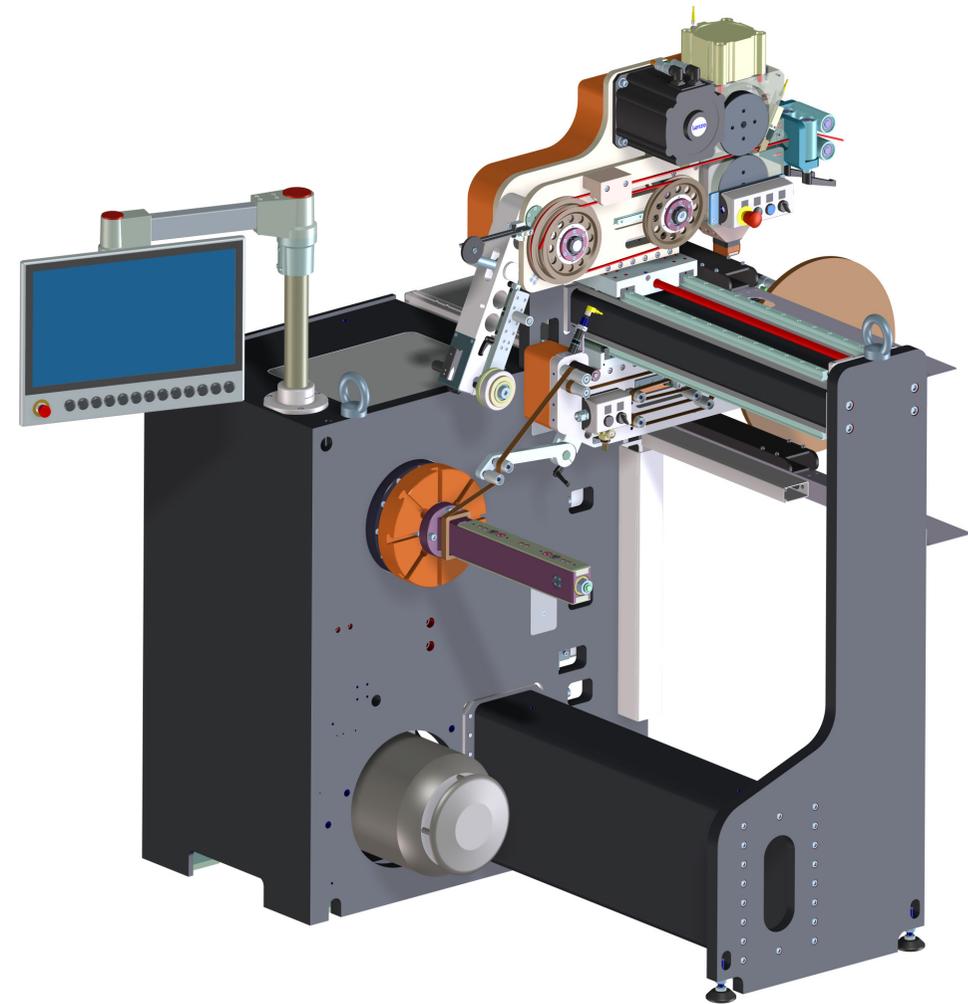
Distribution transformers

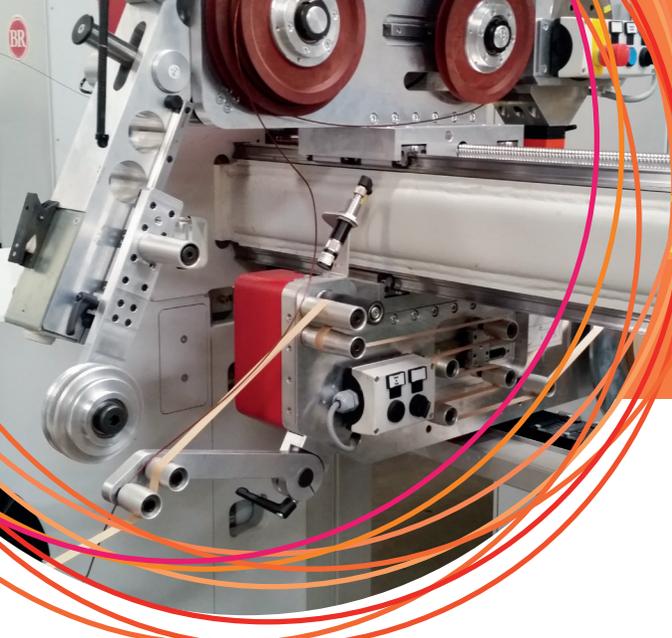
Basics

- Single strip insulation
- Control system with network connection and remote maintenance
- Coil data files can be prepared in the office and loaded from a network server
- Coil diameter up to 700 mm; coil width up to 420 mm
- Round, oval, rectangular coils
- Compact design
- Easy loading and unloading of the coil

Options

- Built-in wire flattener
- Dancer unit for higher speeds
- Safety fence available





LION 3

Automatic winding machine

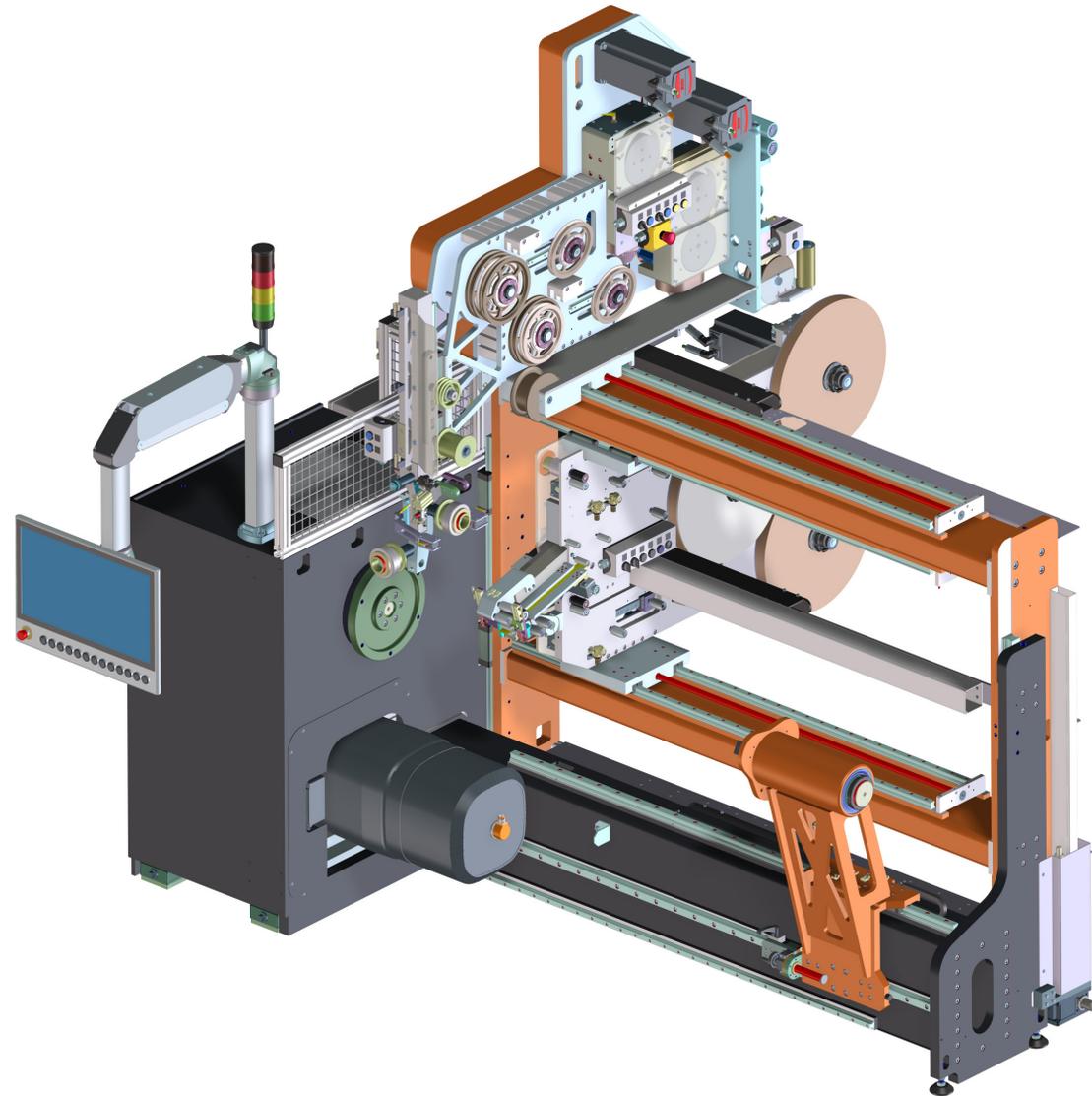
Distribution transformers

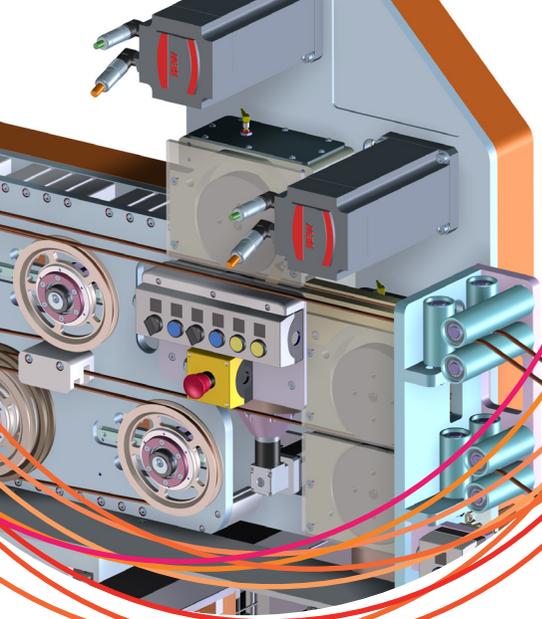
Basics

- 2-strip insulation
- Automatic end-fill strip
- Control system with network connection and remote maintenance
- Coil data files can be prepared in the office and loaded from a network server
- Coil diameter up to 700 mm; coil width up to 1.000 mm
- Round, oval, rectangular coils
- Compact design
- Easy loading and unloading of the coil

Options

- Built-in wire flattener
- Dancer unit for higher speeds
- Safety fence available





ZEBRA

Mini



Winding machine

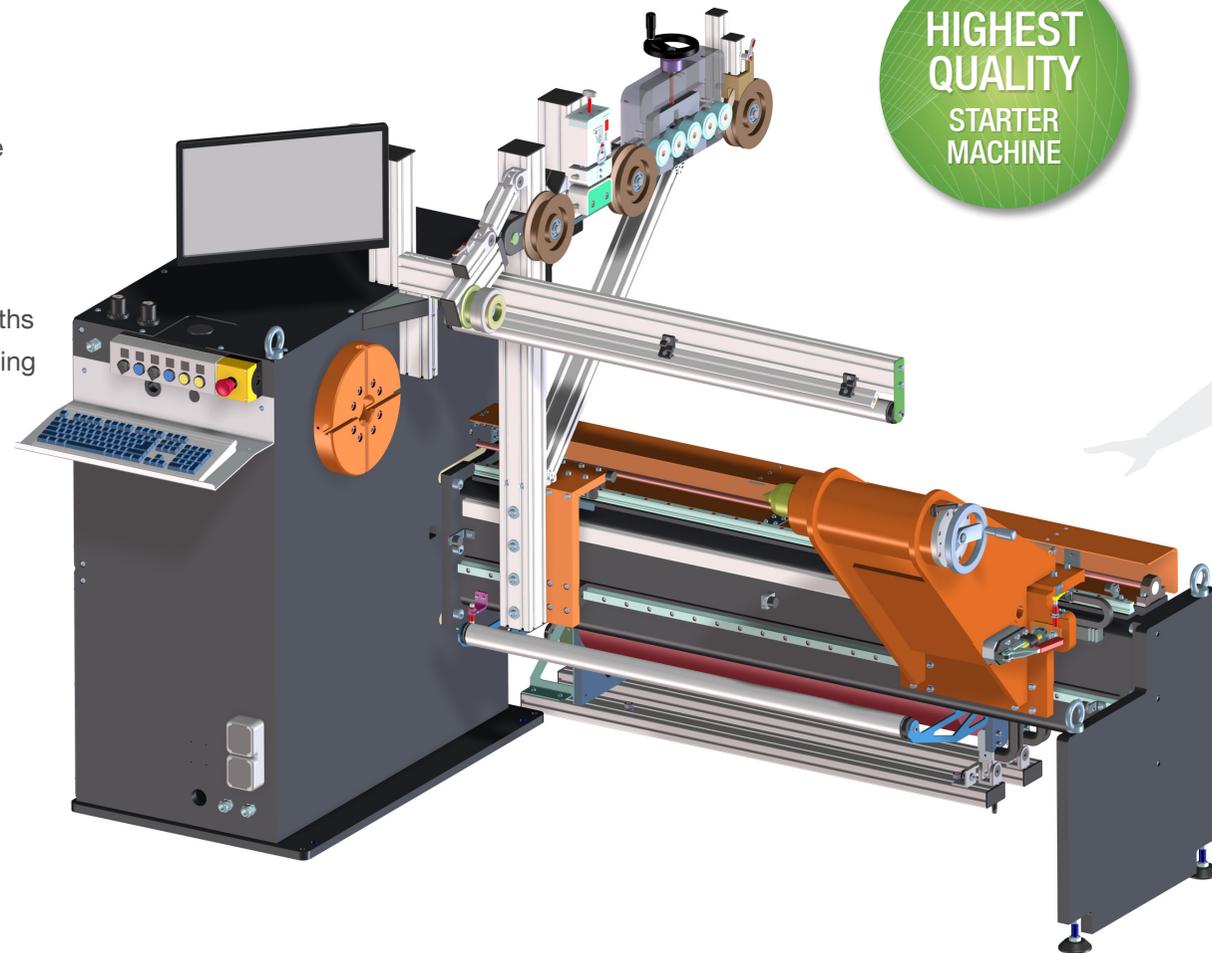
Welding transformers and small distribution transformers

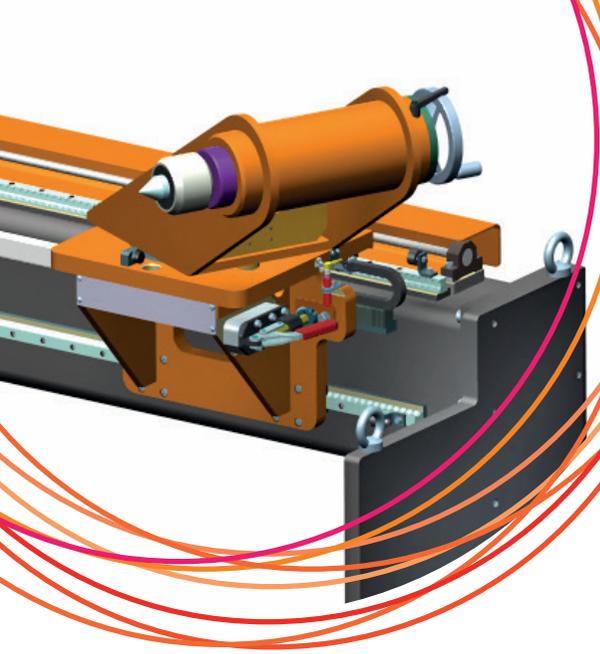
Basics

- Winding is possible in both directions
- Traverse feed is programmable with any value
- Infinite number of stops
- Coil diameter up to 500 mm;
coil width up to 1.500 mm
- Adjustable tailstock for different mandrel lengths
- Pivoting tailstock for easy loading and unloading

Options

- Mandrels
- Wire dereelers
- Winding width extension
- Additional wire guides
- Safety fence available





ZEBRA



Winding machine

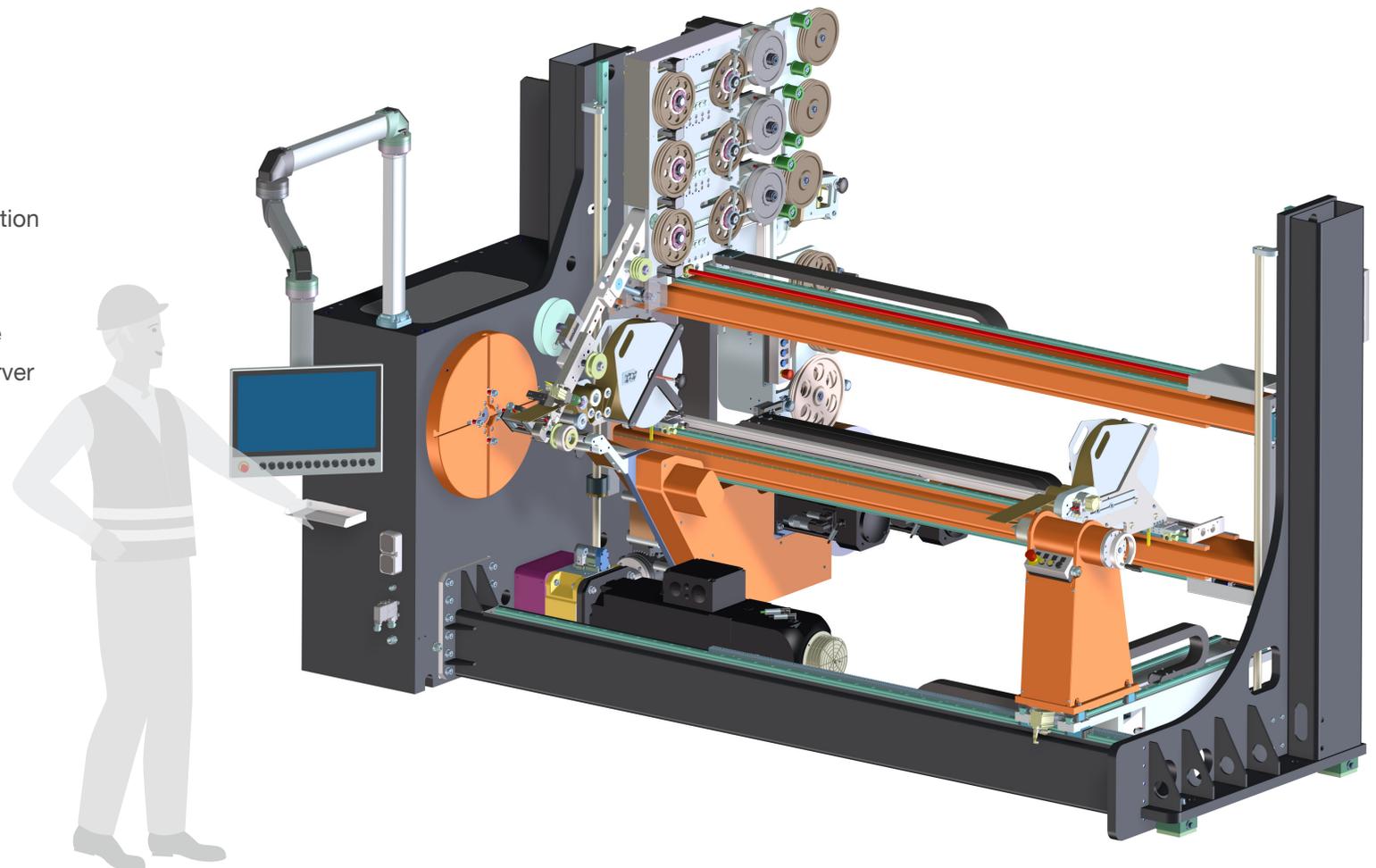
Distribution transformers and power transformers

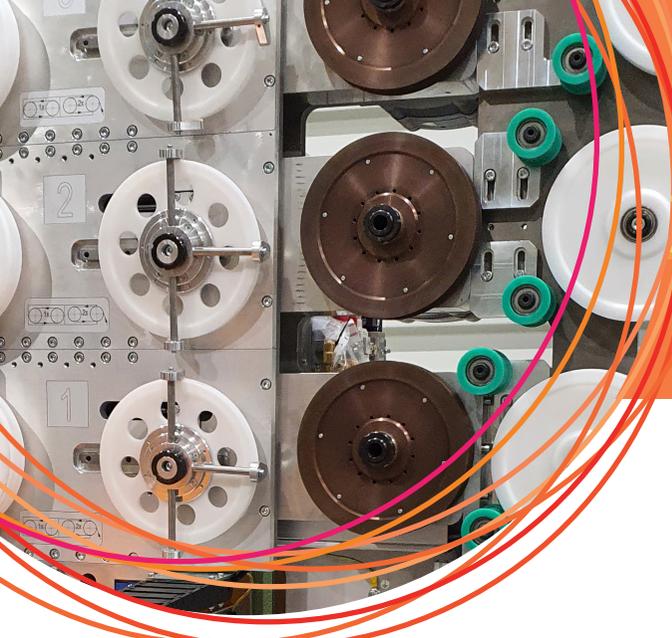
Basics

- Semi automatic operation
- Coil diameter up to 1.000 mm;
coil width up to 1.400 mm
- Control system with network connection
and remote maintenance
- Infinit number of stops
- Coil data files can be prepared in the
office and loaded from a network server

Options

- Full-width insulation feeder
- Flat and round wire brake
- Integrated flattening device with
dancer system
- Various types of dereelers
- End-fill strip feeders
- Strip insulation unit
- Safety fence available





ZEBRA

Train



Winding machine

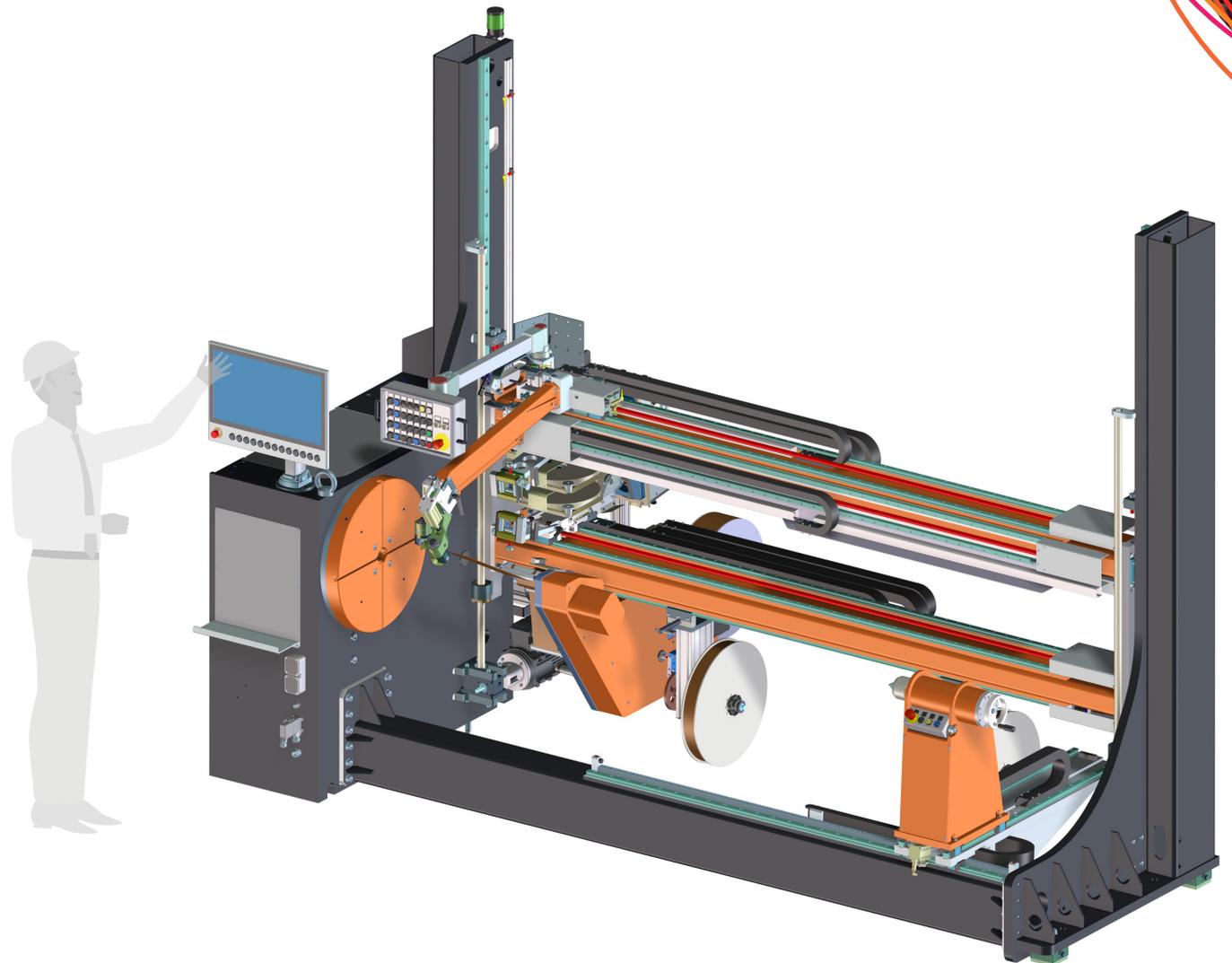
Train and traction transformers

Basics

- Semi automatic operation
- Layer windings and (horizontal) disc windings
- Vertically movable traverse
- Coil diameter up to 900 mm;
coil width up to 1.900 mm
- 2 separate wire guides for twin-windings
- 2 separate wire pressing devices
- Backwards movable tailstock for easy loading
and unloading

Options

- Pivoting wire dereelers
- Movable dereelers for CTC, flat and round wires
- Flat wire brakes
- Strip insulation feeder
- Safety fence available





RHINO



Foil winding machine

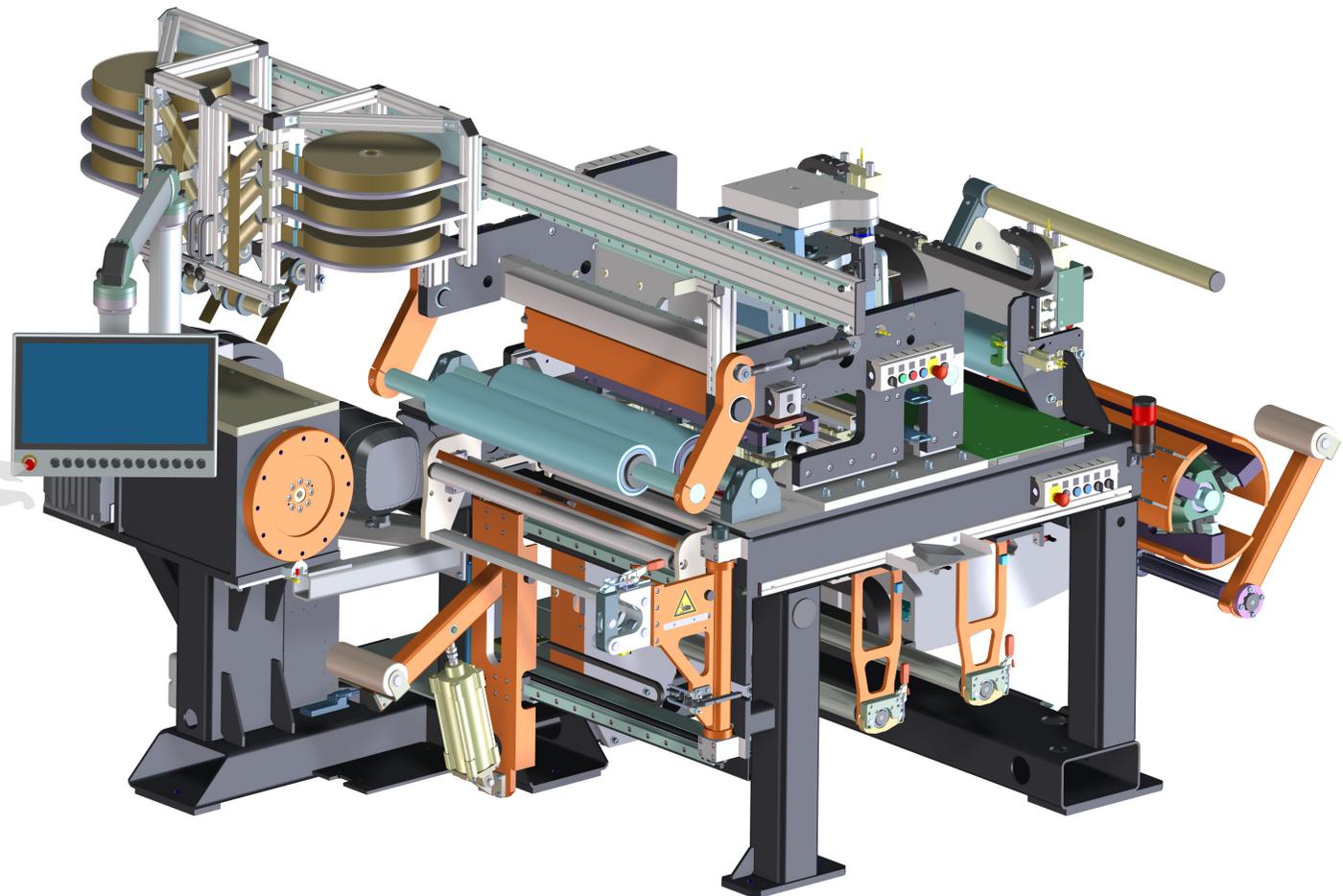
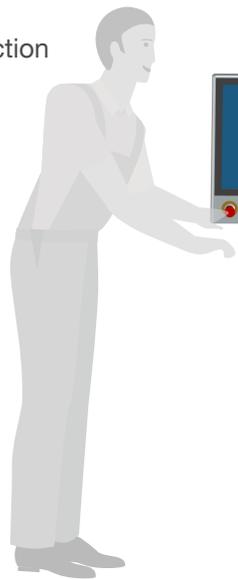
Power and distribution transformers

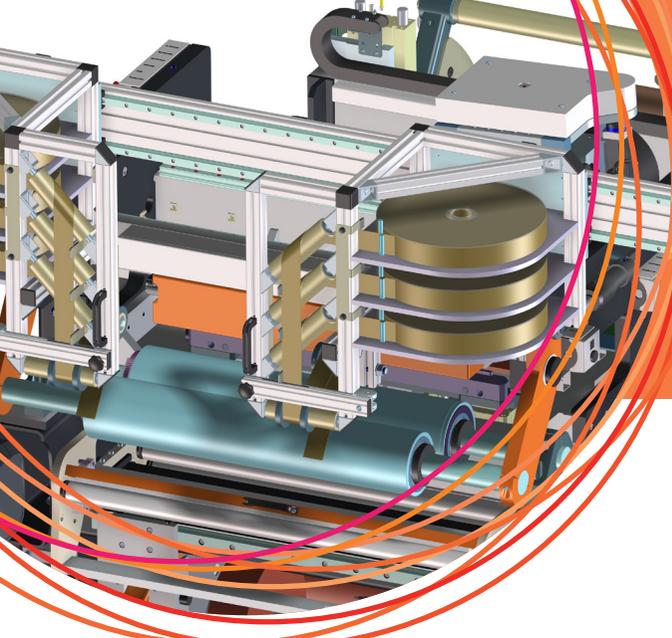
Basics

- Choose cold press welding or TIG welding
- Friction stir welding available on demand
- 2 insulation foil dereelers
- Coil diameter up to 500 mm;
coil width up to 1.060 mm
- Round, oval and rectangular coils
- Control system with network connection
and remote maintenance
- Backward winding possible

Options

- Counter bending roll
- End-fill strip feeders
- Edge-alignment of conductor foil
- Pressing arm at the winder
- Edge deburring unit
- Insulation loading cart
- Coil unloading cart
- Safety fence available





ELEPHANT



Foil winding machine

Power and distribution transformers

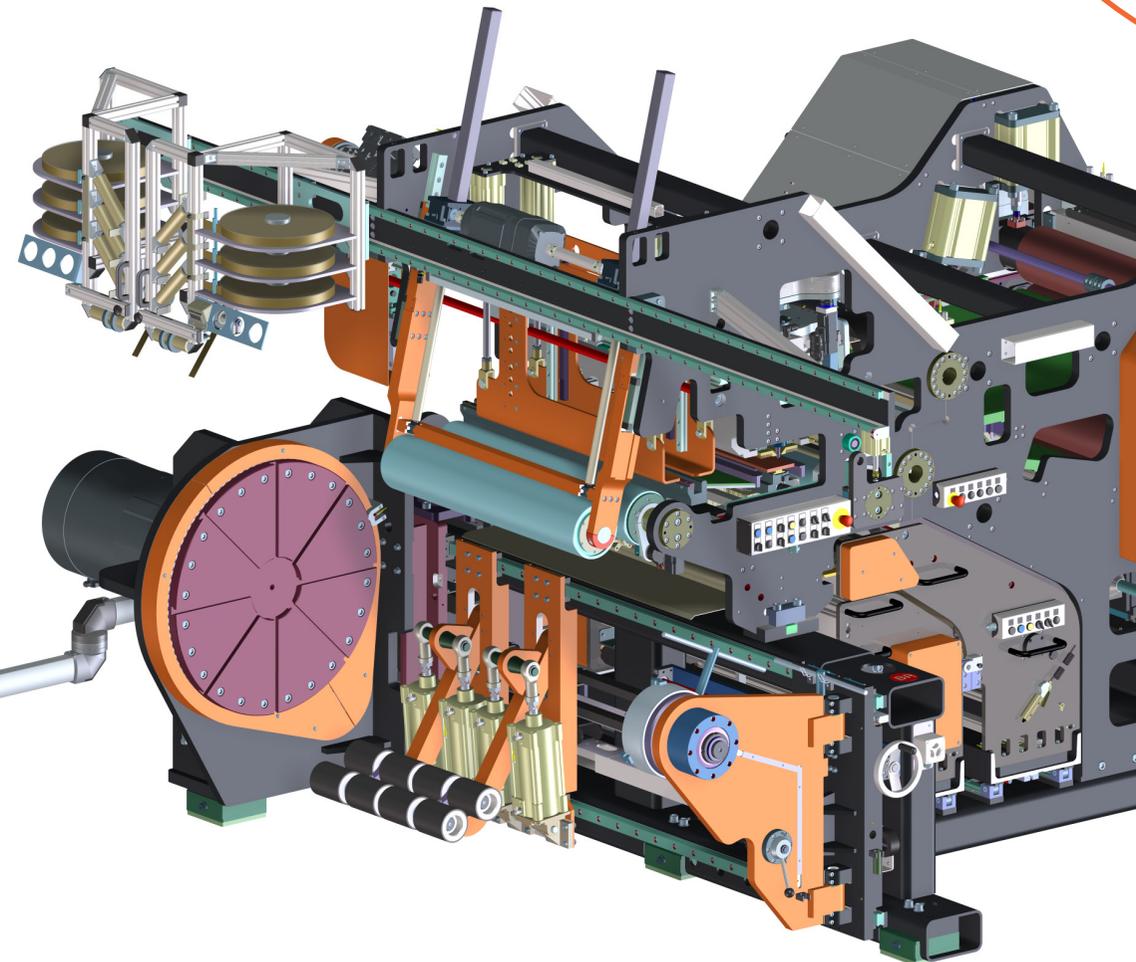
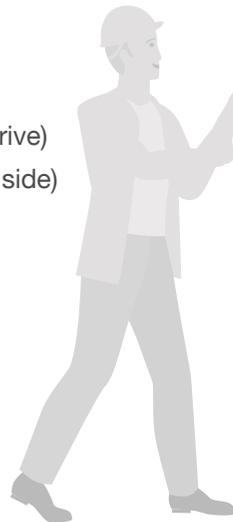
Basics

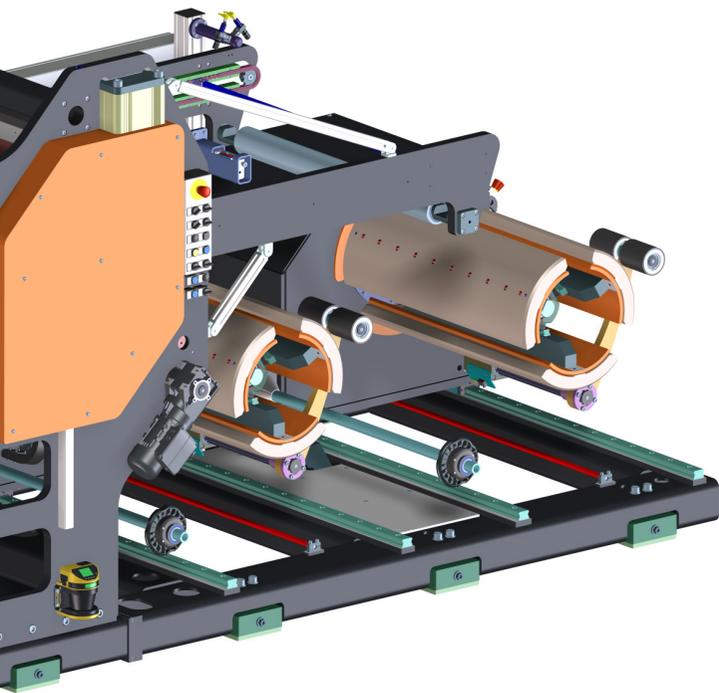
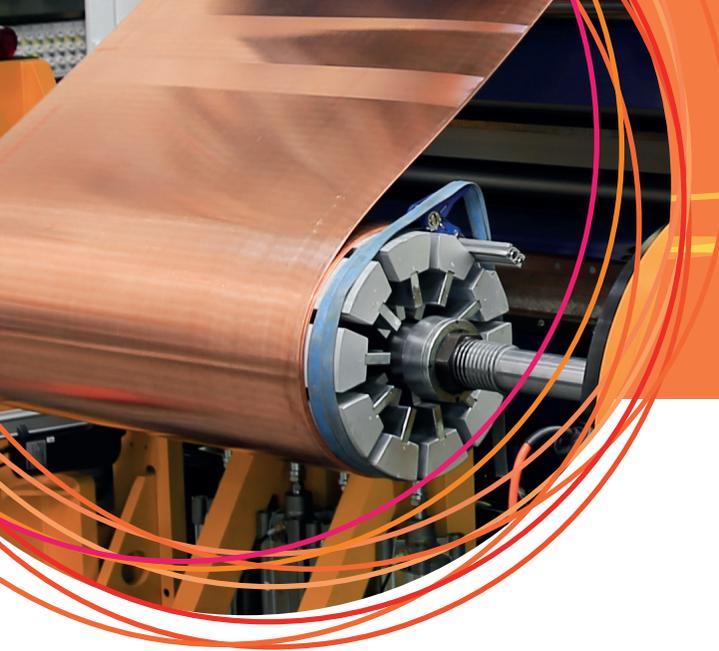
- High foil tension
- Choose Cold-press-welding or TIG-welding
- Friction stir welding available on demand
- 2 insulation foil dereelers
- Coil diameter up to 800 mm; coil width up to 1.360 mm
- Round, oval and rectangular coils
- Pressing arm at winder
- Edge-alignment unit
- Control system with network connection and remote maintenance

Options

- Winding on core (second winding drive)
- 2 conductor foils (on top or side by side)
- Counter bending roll
- End-fill strip feeders
- Bandaging unit
- Edge deburring unit
- Coil unloading cart
- Safety fence available

 Quality made in Germany





BULL

Horizontal winding machine

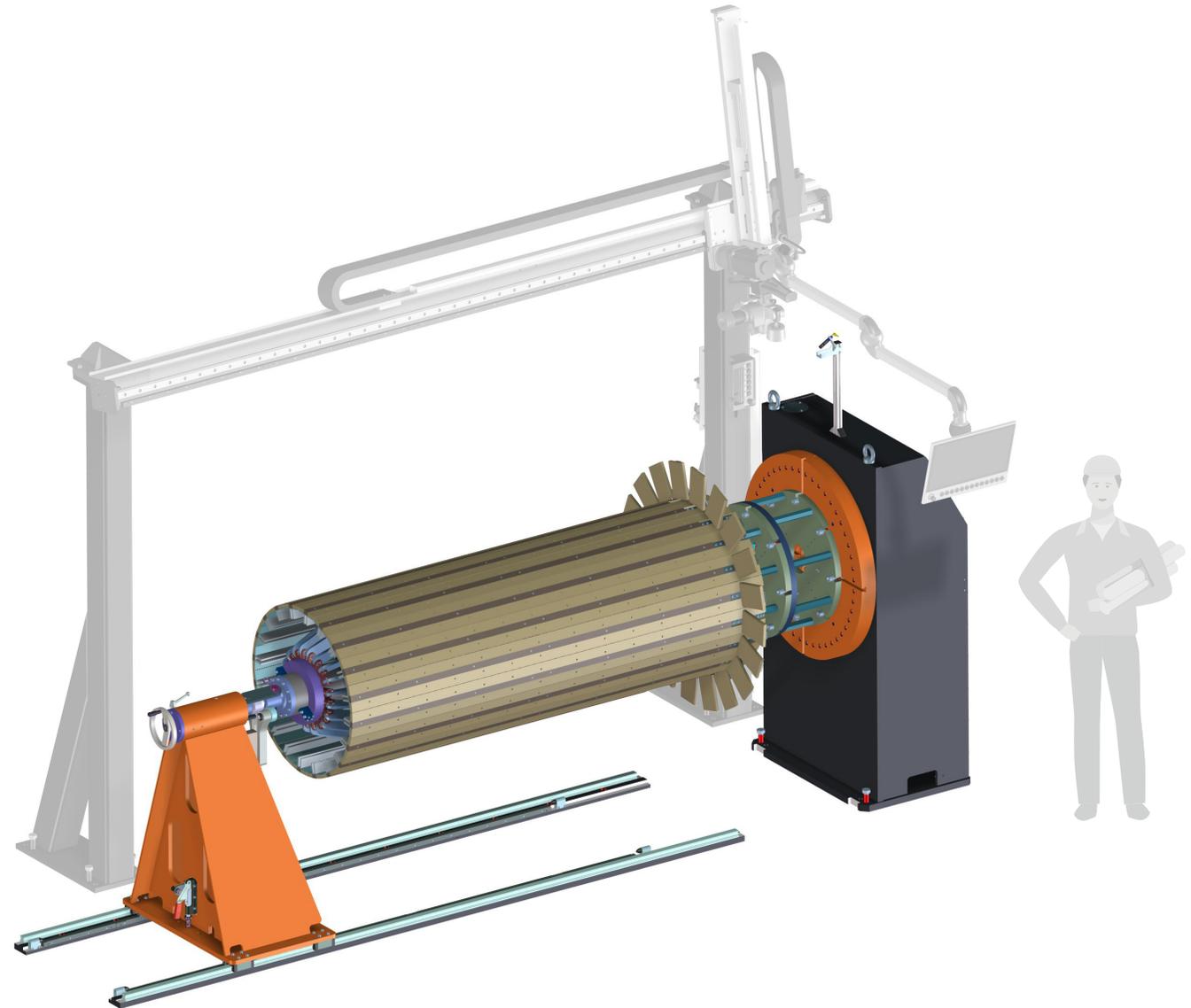
Power transformers

Basics

- Semi automatic operation
- Freely adjustable winding speed
- Control system with network connection and remote maintenance
- Coil weight up to 20 tons; coil diameter up to 3.000 mm

Options

- Pressing unit
- Various flat wire brakes
- Expandable mandrel
- Operator platform
- Various types of dereelers
- Safety fence available





WHALE



Vertical winding machine

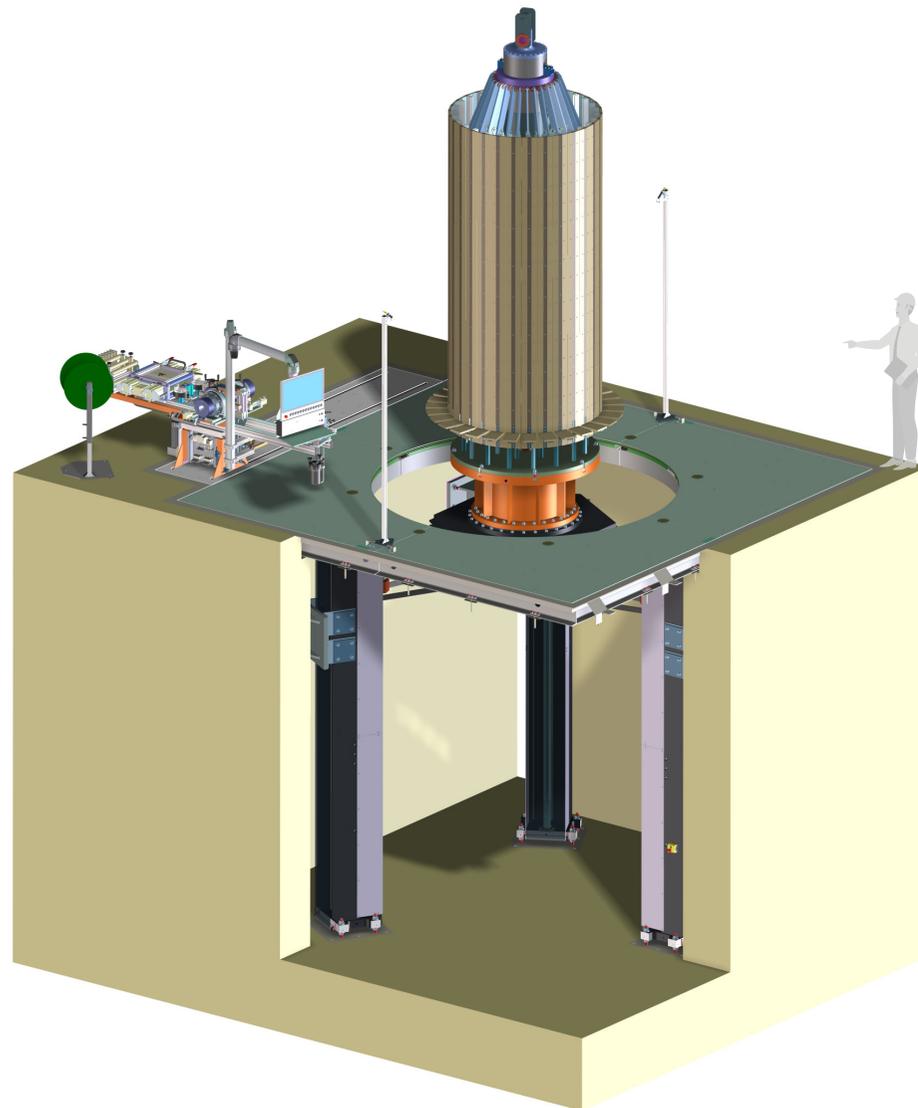
Power transformers

Basics

- Ball-screw spindles for lifting drive (wear-free)
- Iris with 8 sheets
- Coil weight from 5 - 35 tons:
coil diameter up to 3.600 mm
- PC based control system with network connection
- Remote service connection
- Coil specification with parameter files

Options

- Automatic bending station
- Flat wire brake for 1 – 16 wires
- Height adjustable device carrier
- Wire dereeler with pneumatic disc brake
- Pivoting dereeler with motorized brake
(backward winding possible)
- Cooling duct dereeler with automatic
gluing station



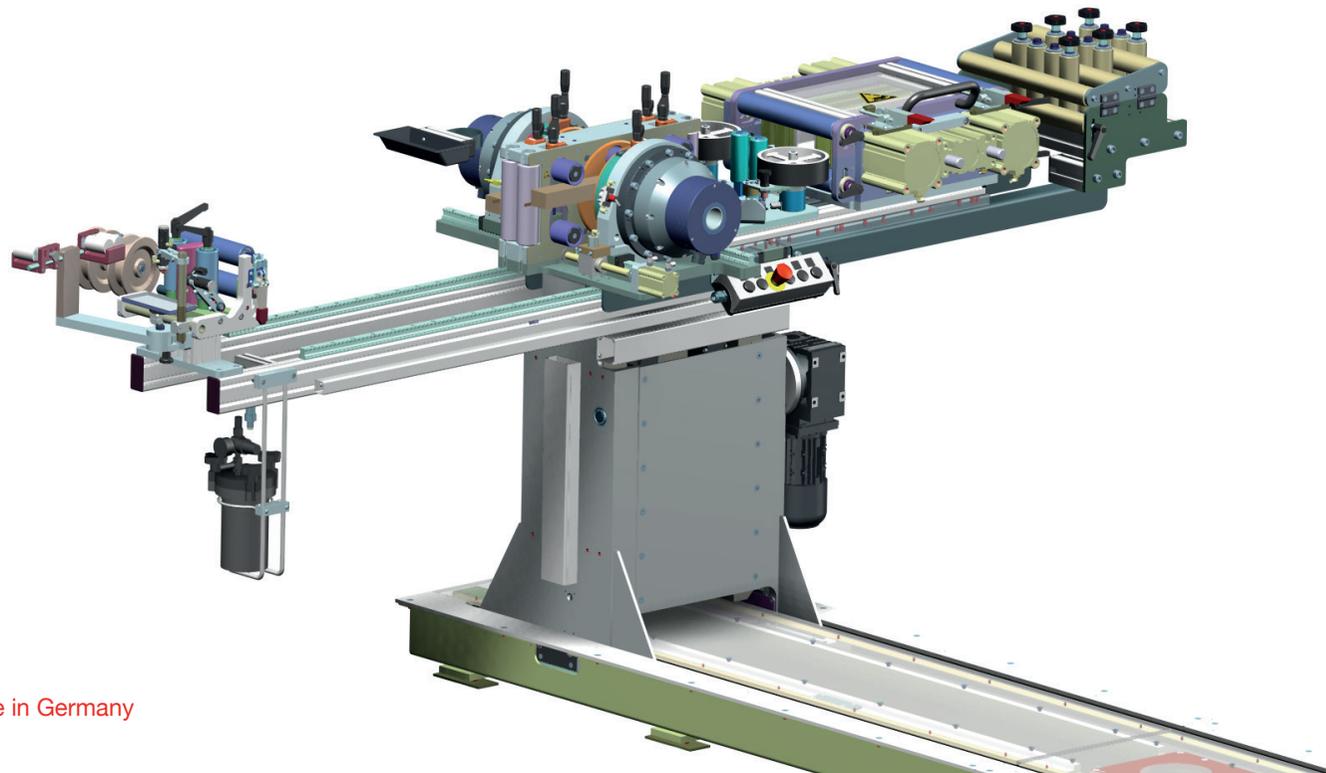


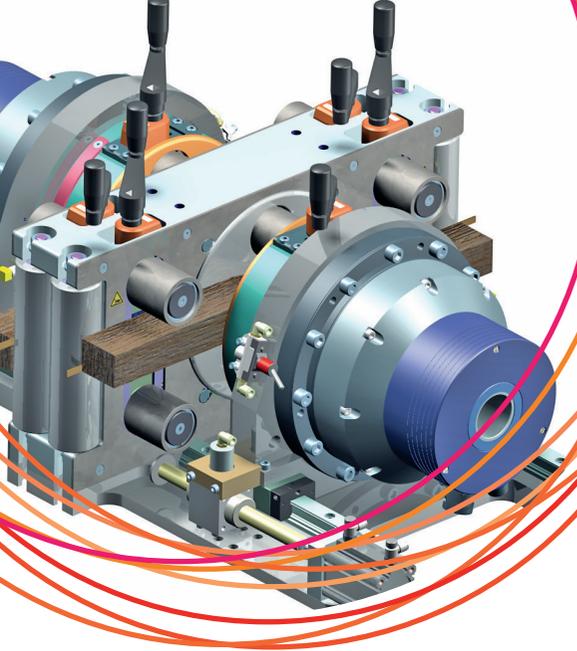
WHALE

Add-ons

Options

- Bending station for 2 flat or CTC wires
- Automatic gluing station for cooling ducts





Accessories

Dereelers

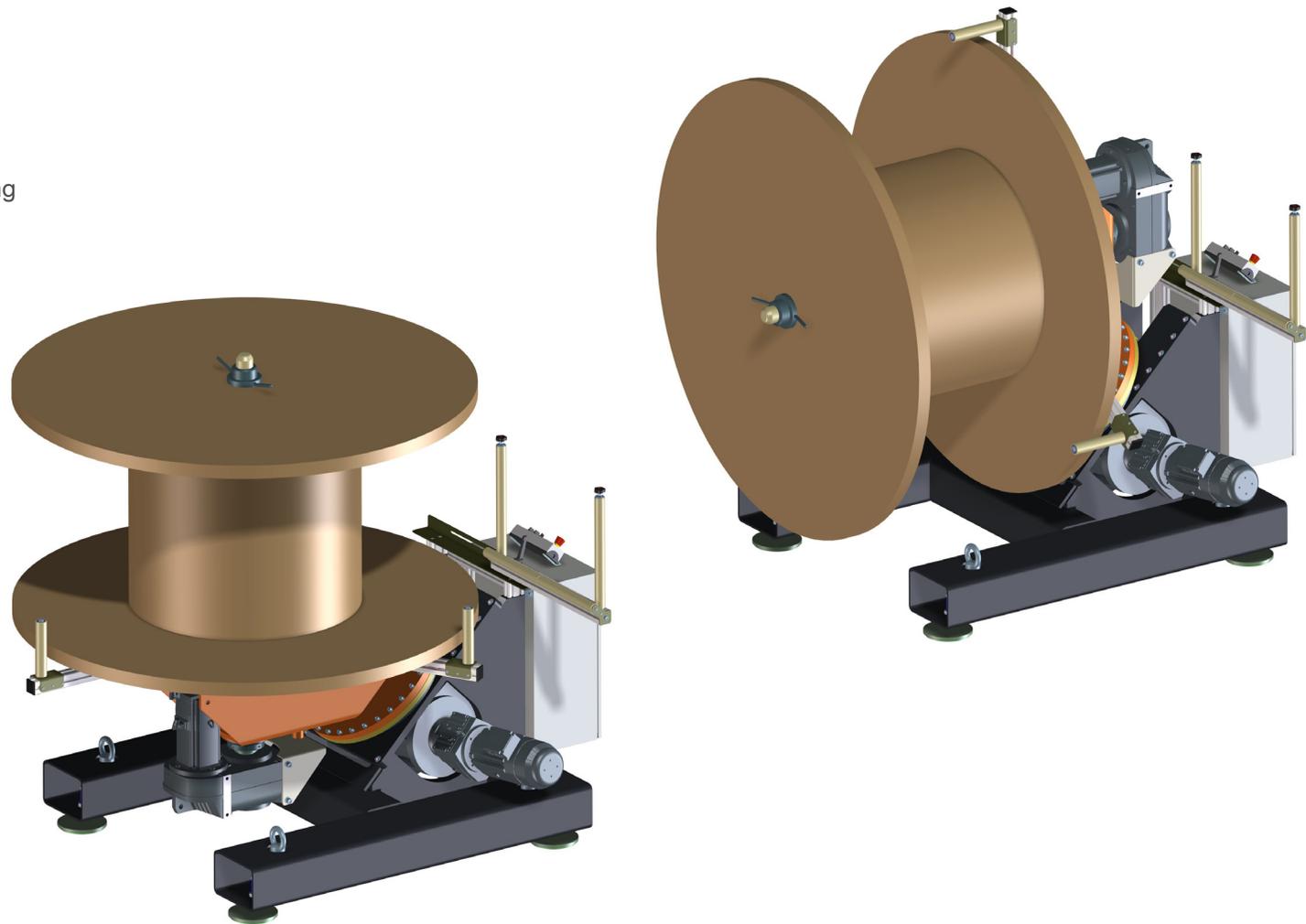
All transformer coils

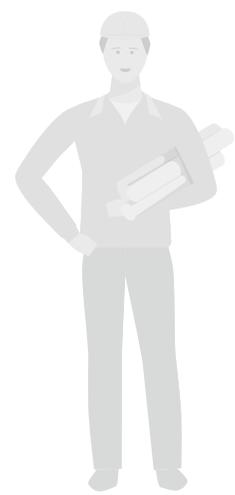
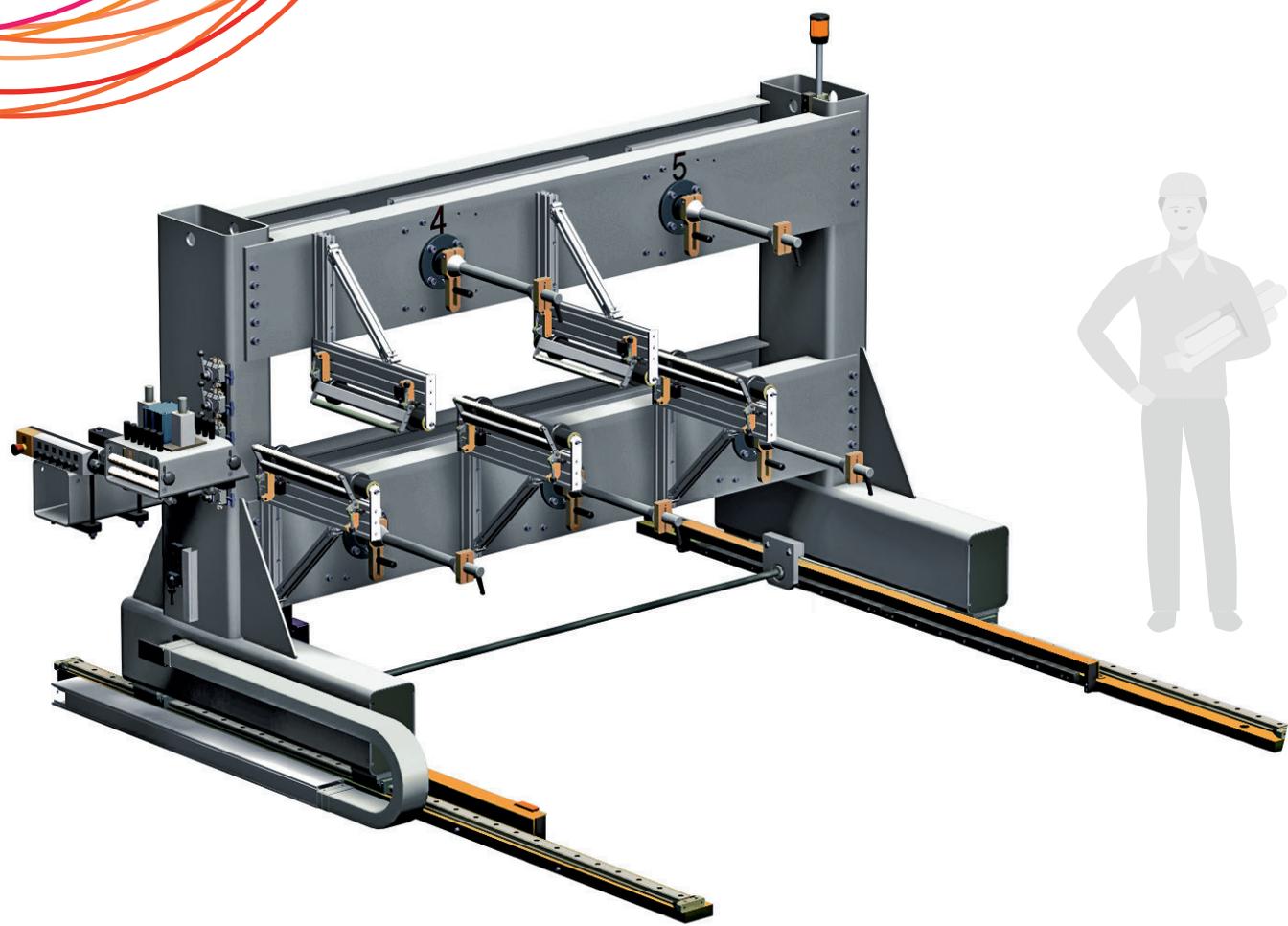
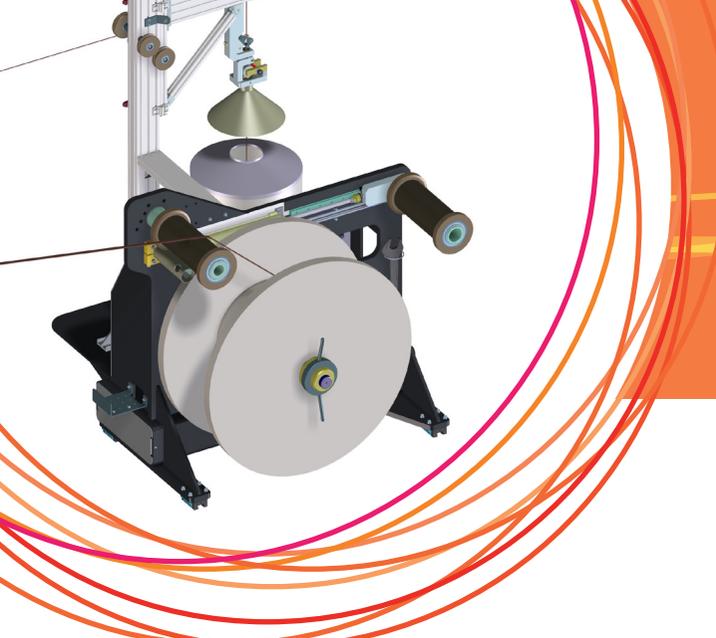
Basics

- Motorized decoiling and rewinding
- Brakable
- Pivoting
- Height adjustable

Options

- Fixed or movable





Basics

- Flat wire dereeler
- Round wire dereeler
- CTC dereeler

Options

- Single or multiple supply rolls
- Fixed or movable
- Pivoting
- Motorized braking
(backward winding possible)

Accessories

Mandrels

All transformer coils

Basics

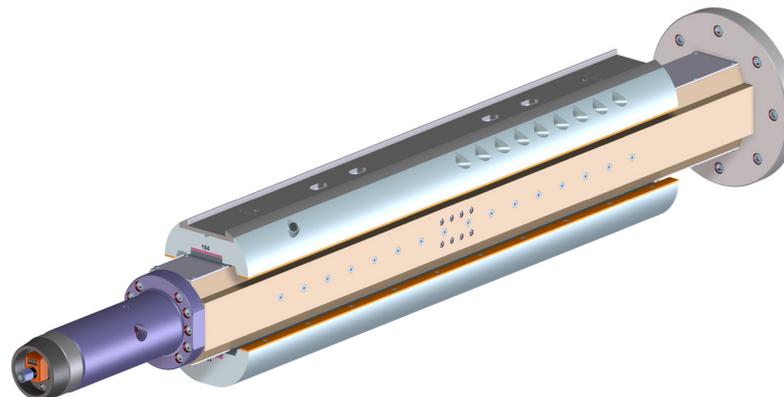
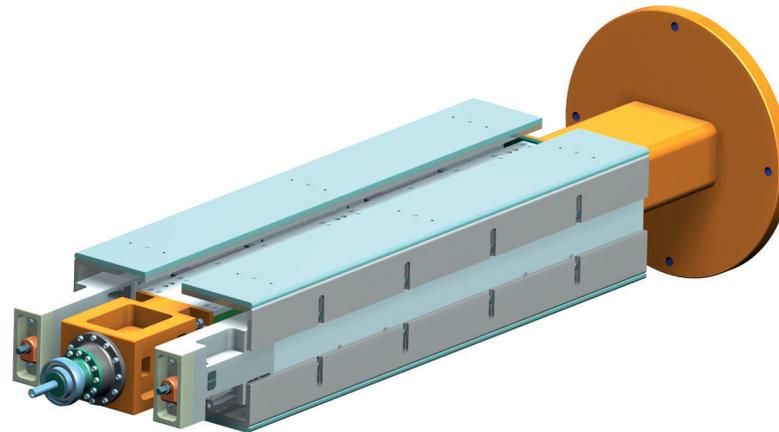
- Expandable mandrel wedge type
- Expandable mandrel umbrella type

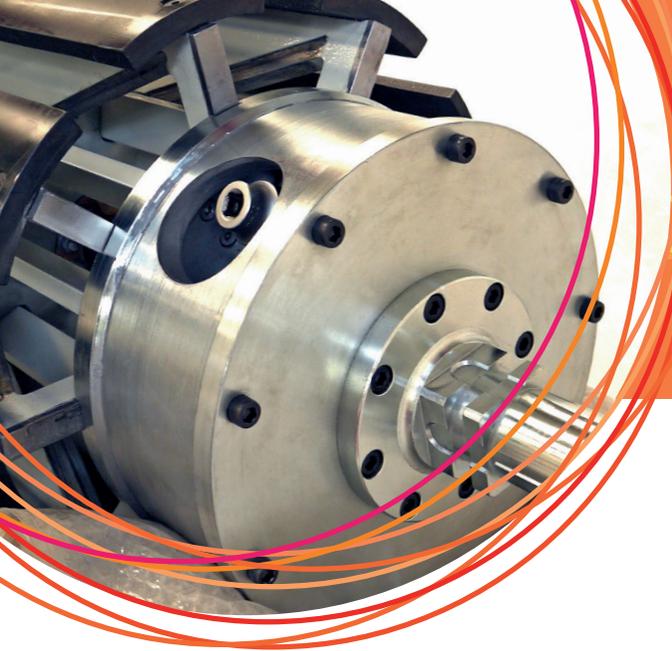
Accessories

- Mandrel support stands

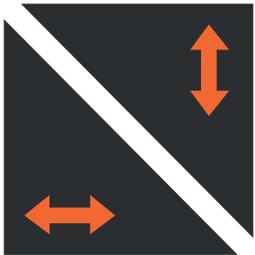
Options

- Wood battens
- Steel battens
- Wood stopper
- Steel stopper
- Zinc coated or gunmetal-finished

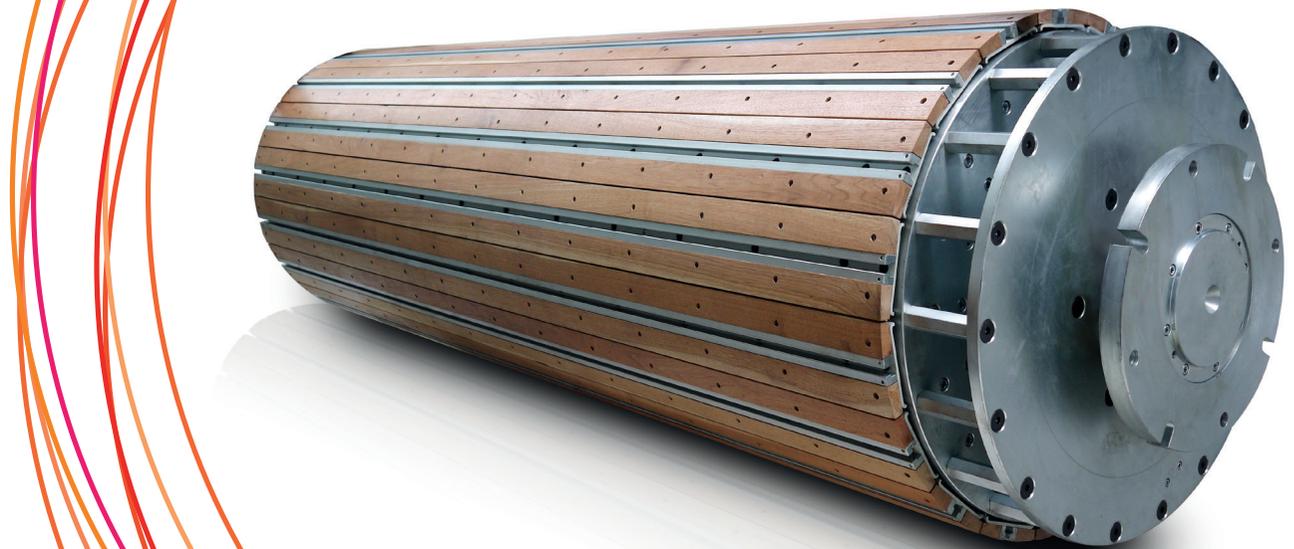
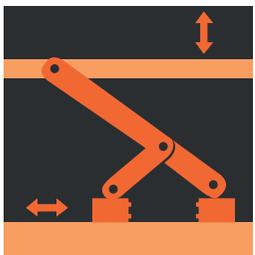




Wedge



Umbrella



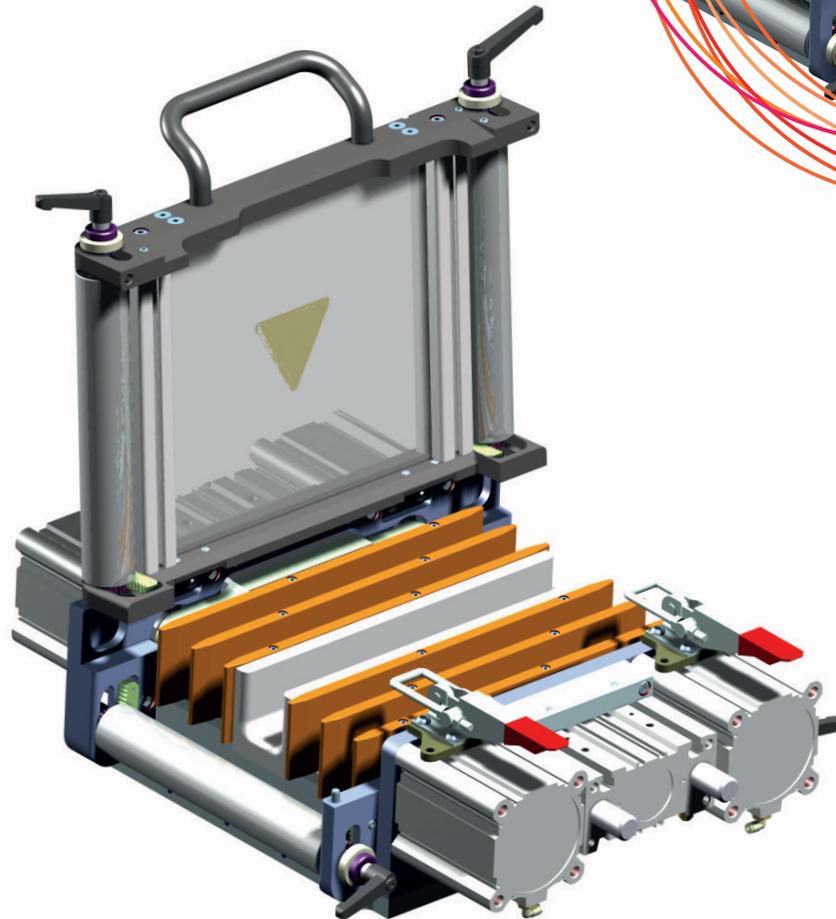
Accessories

Flat wire brakes

Power transformers

Basics

- Enhanced productivity and repeatability
- Same braking force for 2 to 16 flat wires
- Usable for vertical and horizontal winding machines





Accessories

Pressing device

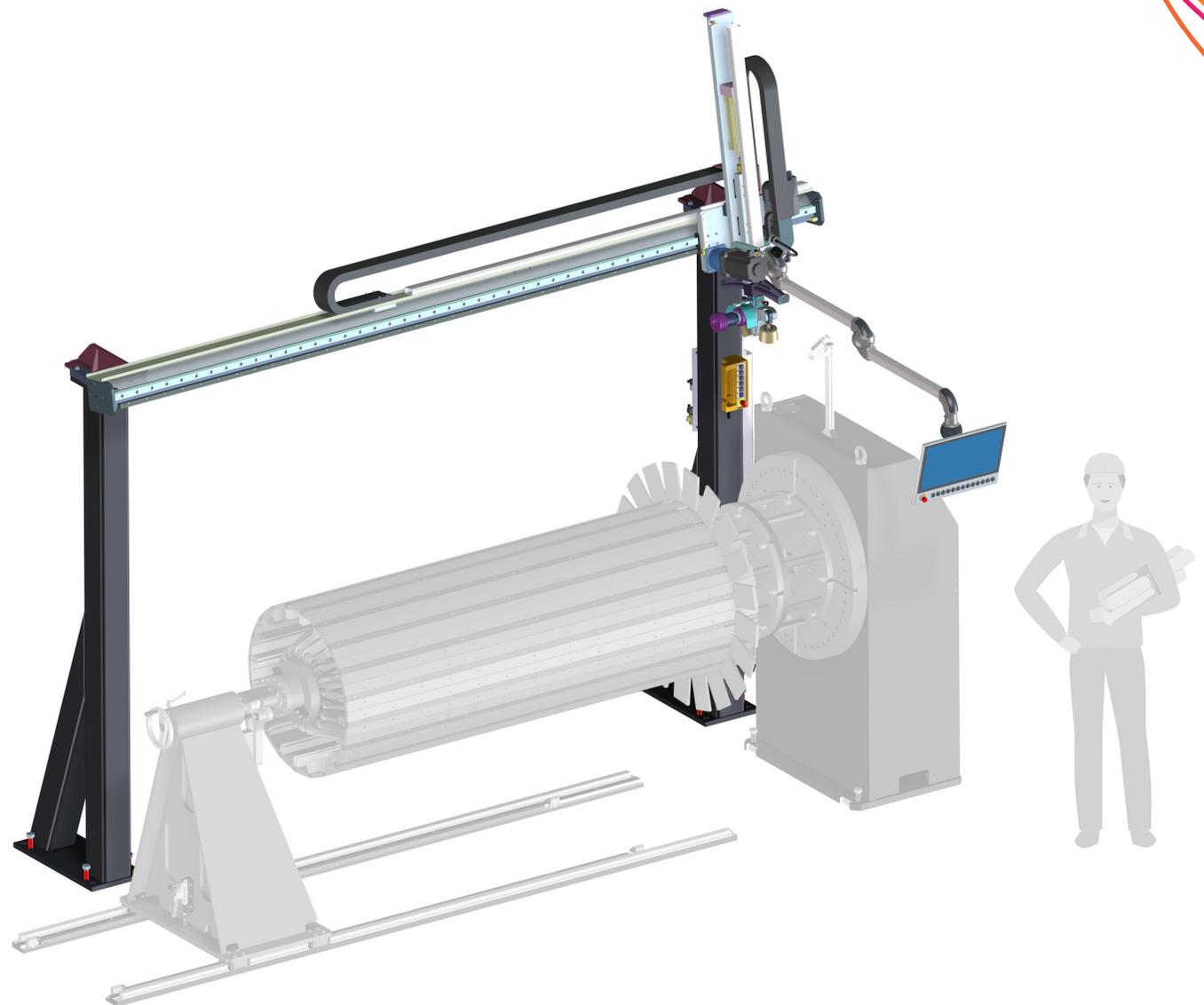
Power transformers

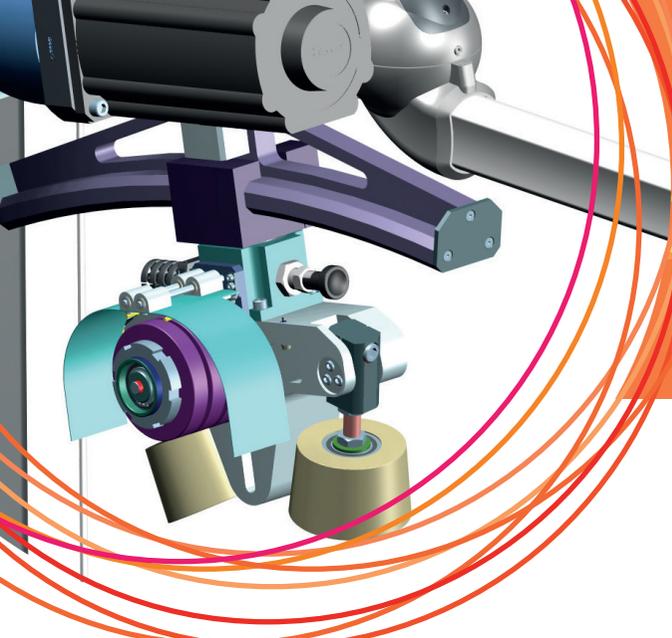
Basics

- Axial and radial pressing of flat wires
- Adjustable pressing forces
- Stand-alone unit
- Parking position of pressing arm for easy coil unloading
- Remote operating panel

Options

- Various types of pressing rolls





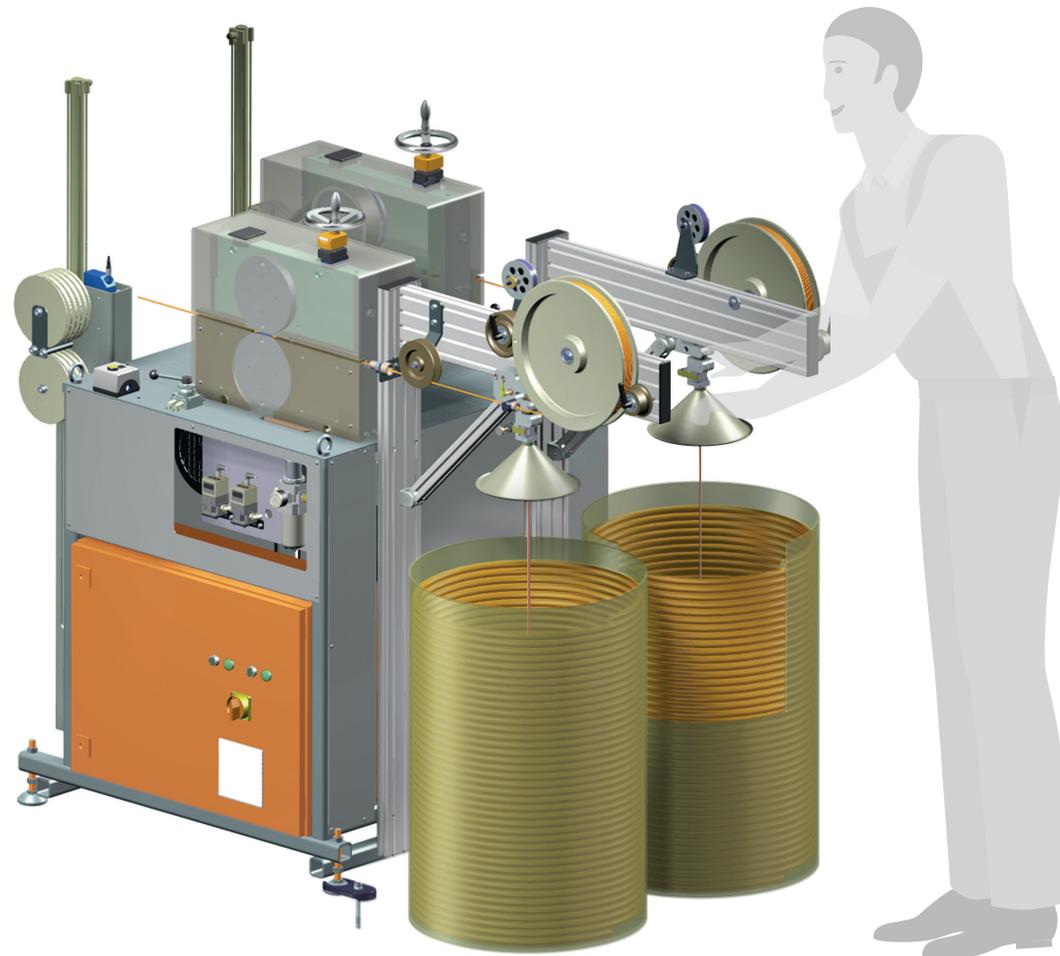
Accessories

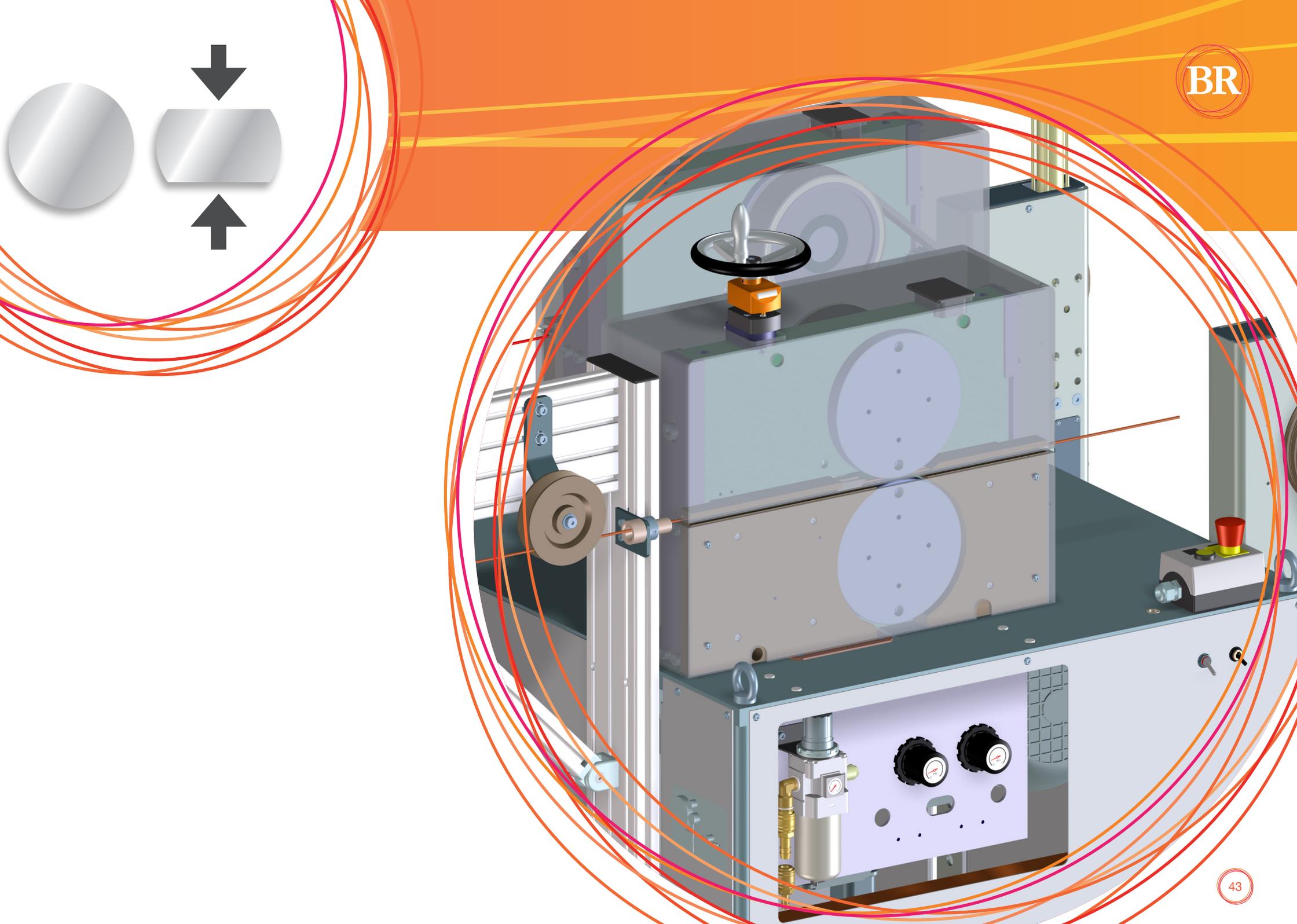
Wire flattening machine

Distribution transformers

Basics

- Remote setting of wire tension possible
- 1 or 2 wires
- For wire \varnothing 0.8 – 3.65 mm
- Stand-alone unit
- Motor-driven flattening mill
- Pneumatic dancer system for wire tension generation

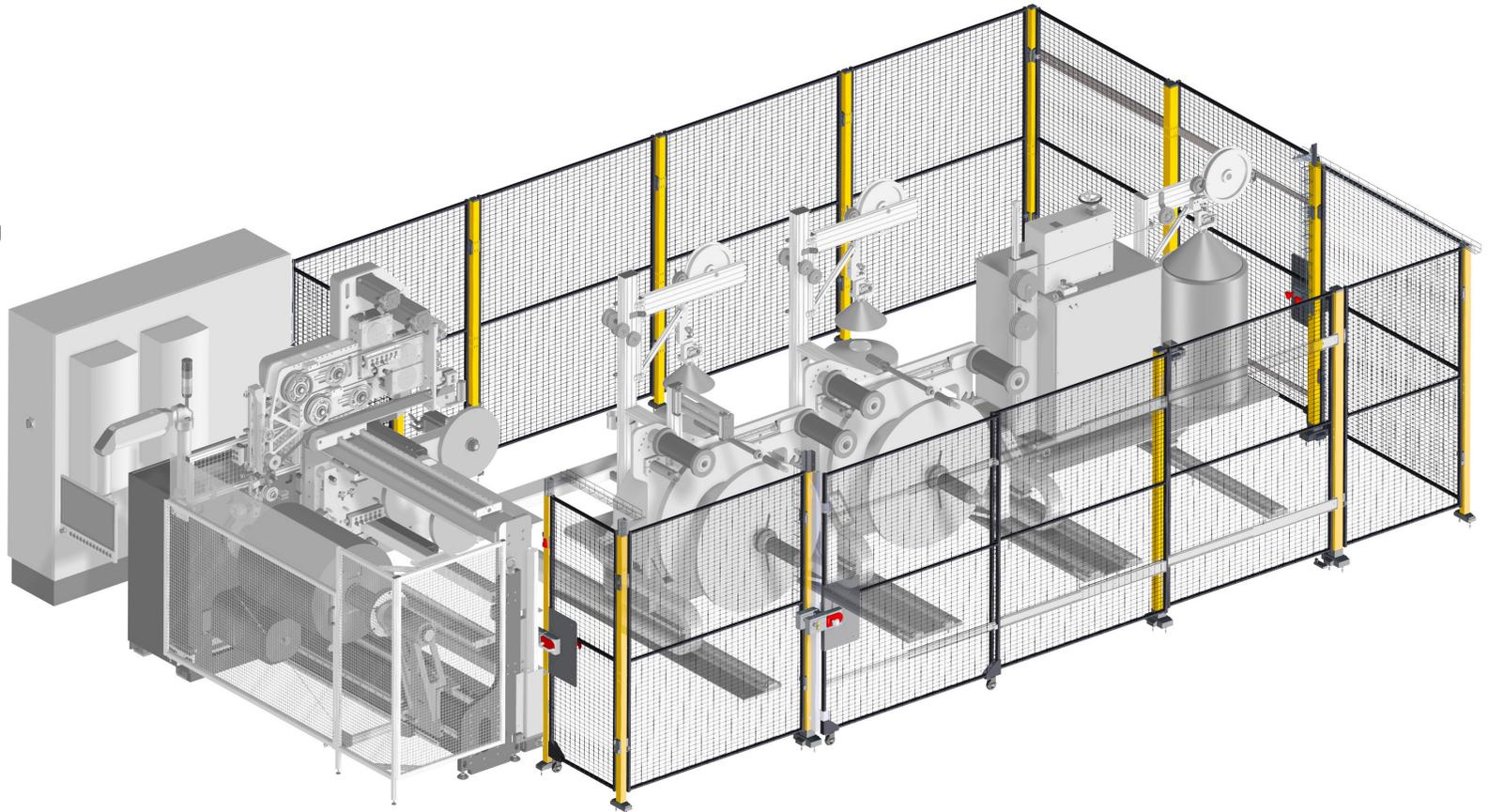




Safety

Safety

- Safety fences
- Light curtains
- Laser scanners
- Multifunctional gate box
- Machine design according to CE guidelines
- other guidelines possible



WiCoS X

WiCoS X CNC system

Basics

- Easy-to-use operator interface
- Using winding data from coil design programs or spreadsheets
- Remote service via internet
- Network integration for direct access of coil data files
- Based on standard industrial components

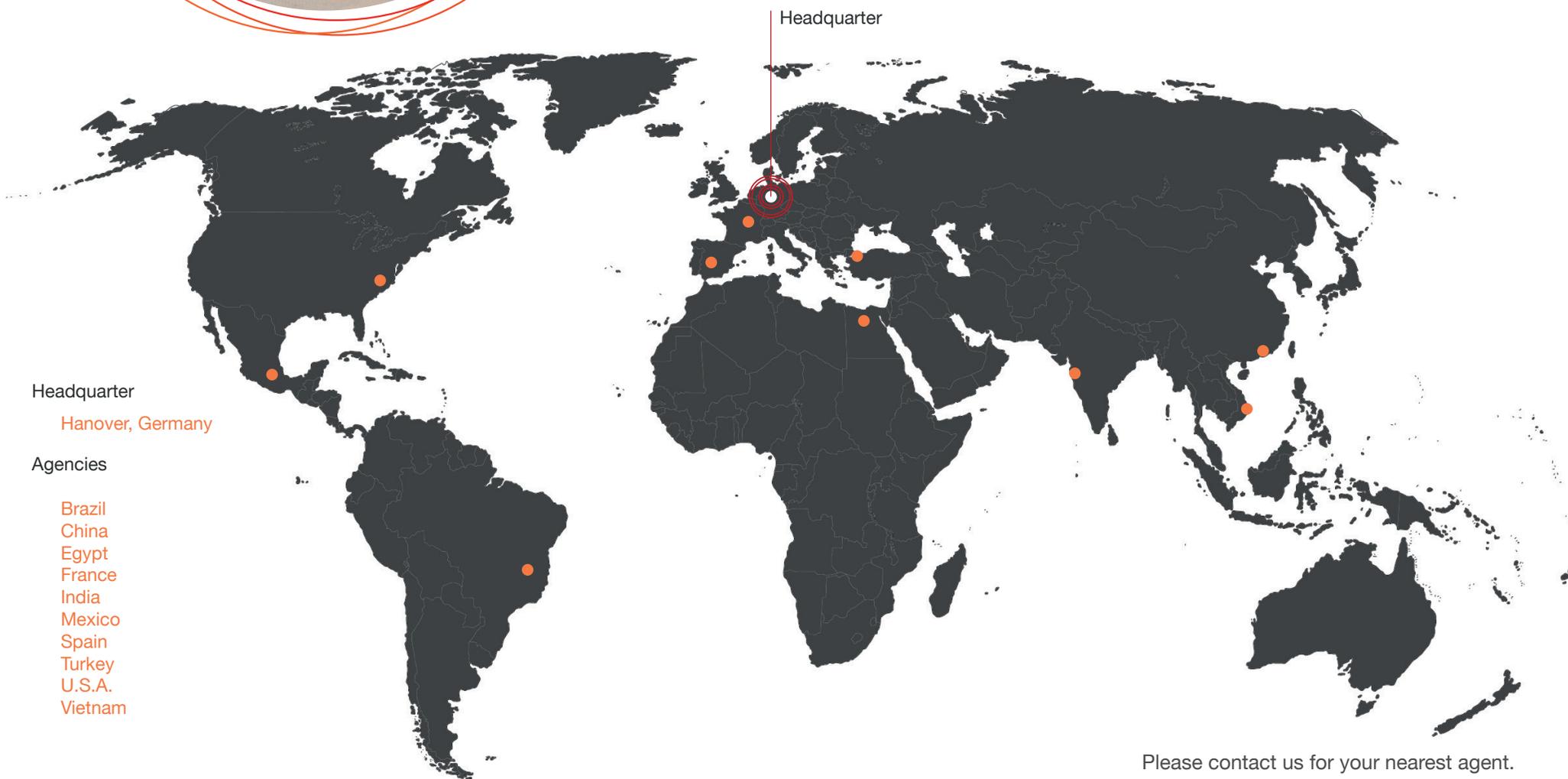


* registered trademark of Linus Torvalds

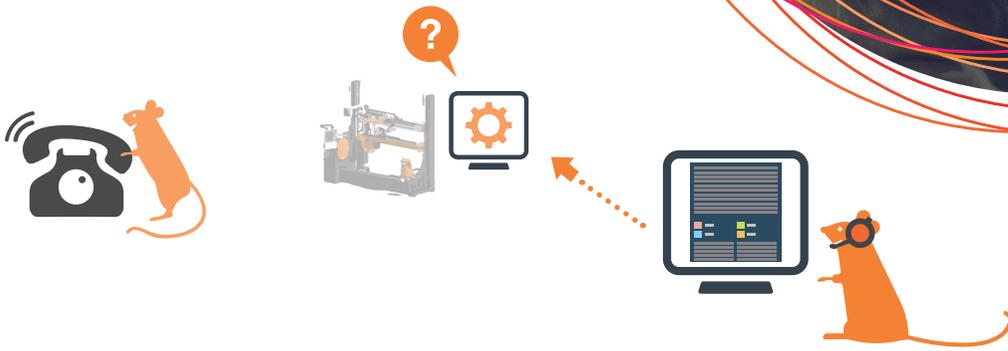
Operating system

- Best connectivity
- Realtime kernel
- High reliability



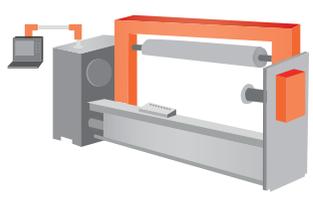


Please contact us for your nearest agent.



Support

- Best qualified technicians
- Maintenance concepts
- Spare parts
- Remote support
- On-site support



BR Home
 service@br-tech.de
 +49 511 655487-0



BR TECHNOLOGIES GmbH & Co. KG
Wohlenbergstraße 6
30179 Hannover, Germany
T +49 511 655487-0
F +49 511 655487-19
info@br-tech.de
www.br-tech.de

