ELWEBTEX

Infeed and exit systems
for textile production processese

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Guide rollers, heated and chill rollers, spreading rollers (based on bow rollers and rubber bands) 30
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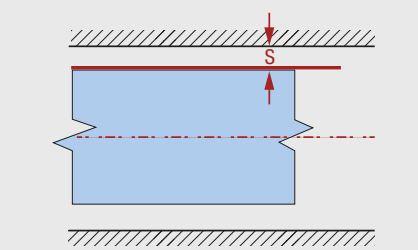
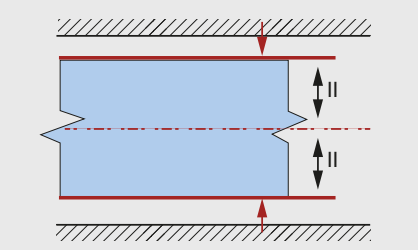
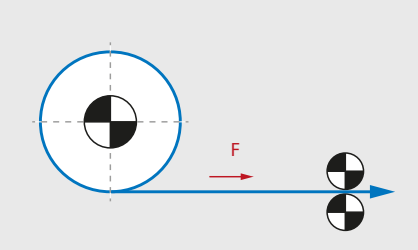
Key competences

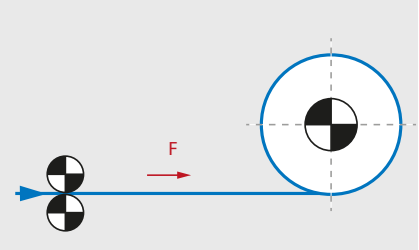
Web guiding
Web guiding by the web center or edge are essential for accurate infeed positioning during the process or for precise winding results after the process.



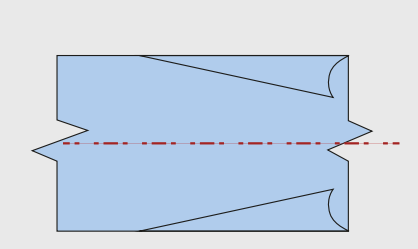


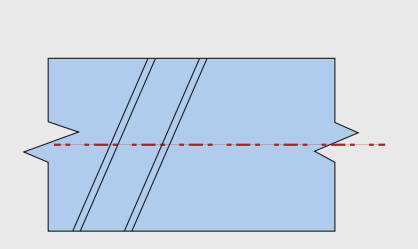
Web tension control
Reliable product quality depends upon consistent web infeed tension before, during and after the production process.



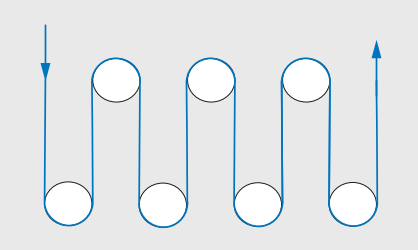


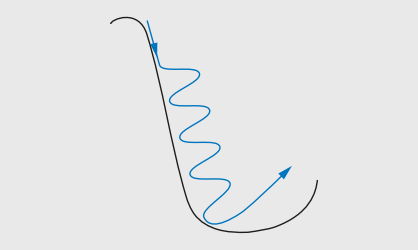
Web spreading
Crease-free webs and evenly spread web edges are essential for both the web infeed stage of the production process and during storage.



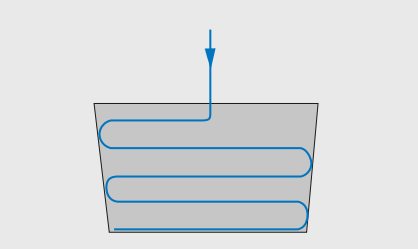


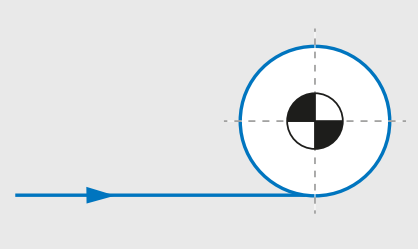
Web accumulator for continuous operation
A web accumulator before and after the process is mandatory for the batch changes required during continuous production.





Web accumulator for transport
For transportation to the next production process, the webs must be stored on large batches on an A-frame or in plaiter trolleys.

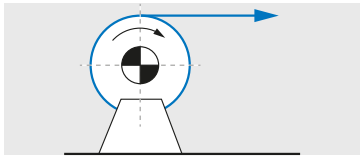




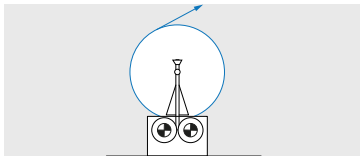
Infeed and exit systems

Textile processes

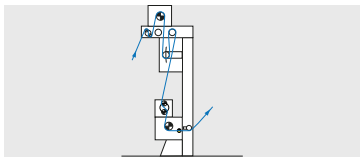
Center unwinder



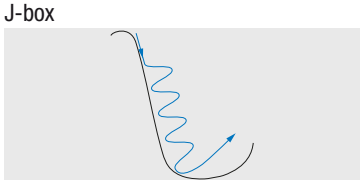
Ascending batch unwinder



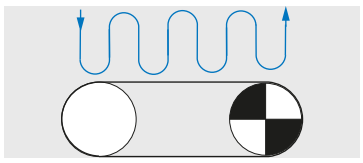
Infeed framework



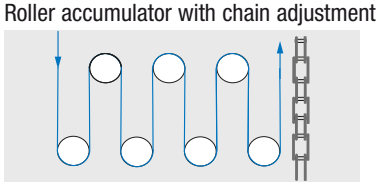
J-box



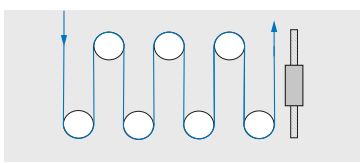
Belt accumulator



Roller accumulator with chain adjustment



Roller accumulator with spindle adjustment



Pretreatment

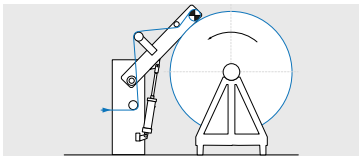
Dyeing

Finishing

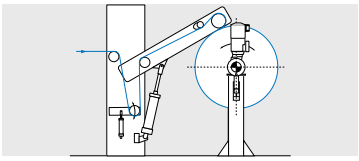
Coating

Inspection

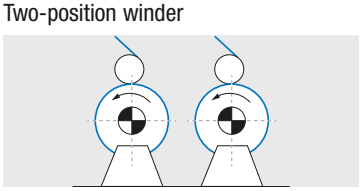
Surface winder



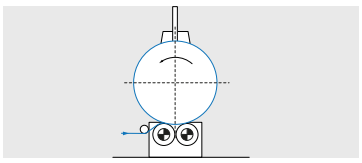
Center rewinder



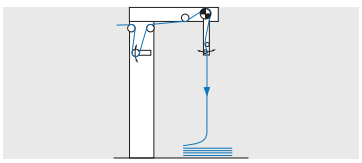
Two-position winder



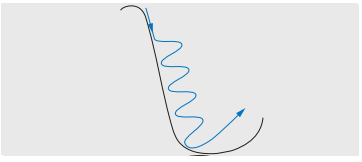
Ascending batch rewinder



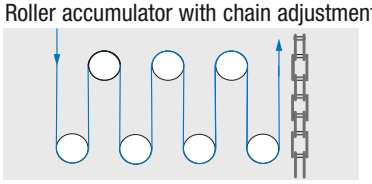
Plaiter



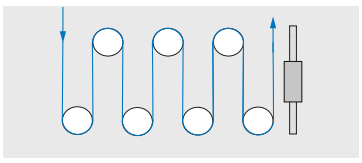
J-box



Roller accumulator with chain adjustment



Roller accumulator with spindle adjustment



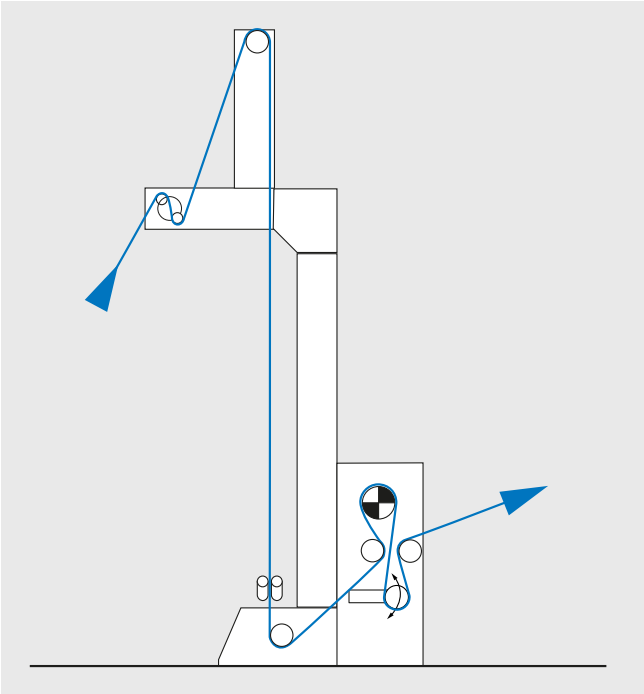
Infeed framework

+ Infeed systems for woven and knitted fabrics, non-woven fabrics, carpet and technical textiles before the production process
+ Frame construction with closed C profile, also for use as a cable duct
+ Tension control with dancer or load cell
+ Integrated web guiding with web guider or segmented roller guider with spreading
+ Suitable for dry or wet webs
+ Optional integrated traction unit available

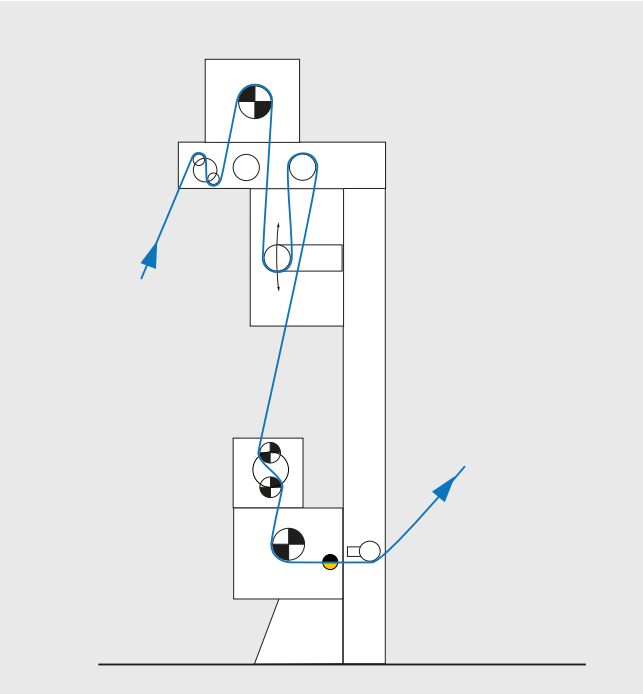
Infeed framework on a digital textile printing machine

Technical data

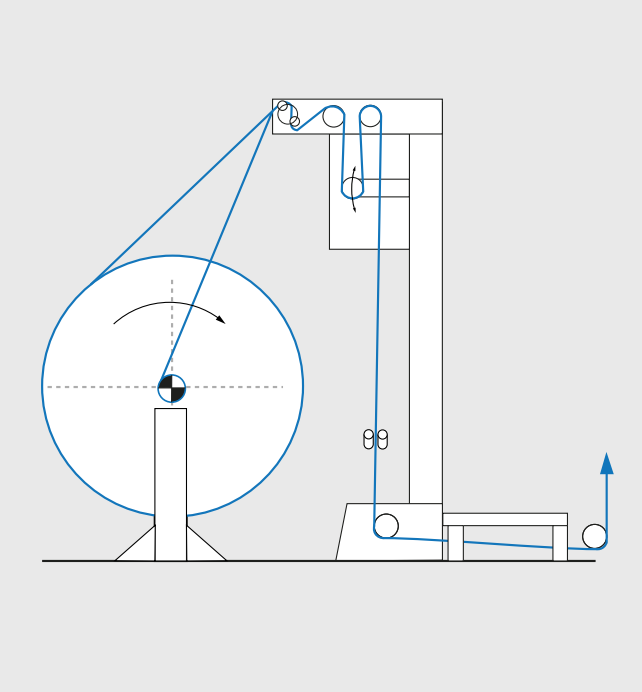
Web type	Woven fabrics, knitted fabrics, non-woven fabrics, carpet, technical textiles
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



Infeed framework with traction unit and web guider



Infeed framework with traction unit and segmented roller guider



Infeed framework with center unwinder and web guider

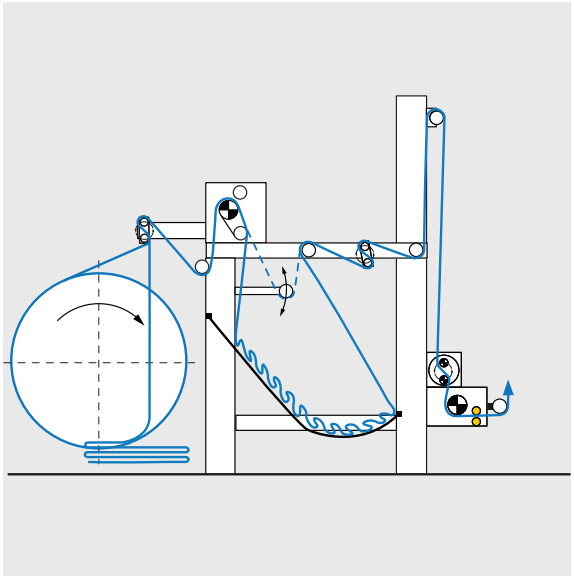
J-box

+ J-box for storing woven fabrics, non-woven fabrics, carpet and technical textiles before and after the production process
+ Frame construction with closed C profile, also for use as a cable duct
+ Dancer position control for tension control
+ Integrated web guiding with web guider or segmented roller guider with spreading
+ Stainless steel and plastic J-box – sliding guides for wet and dry webs

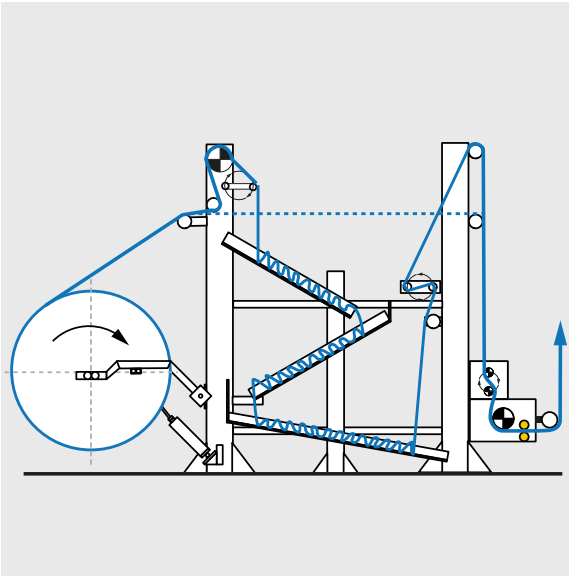
Infeed J-box

Technical data

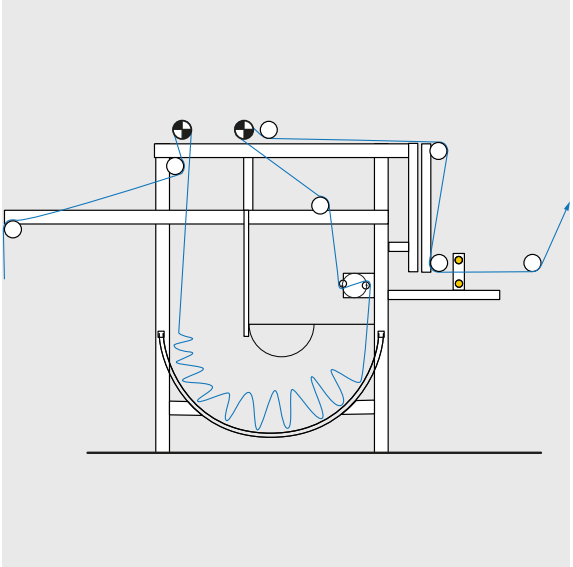
Web type	Woven fabrics, knitted fabrics, non-woven fabrics, carpet, technical textiles
Capacity	approx. 200 m (depending on material)
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



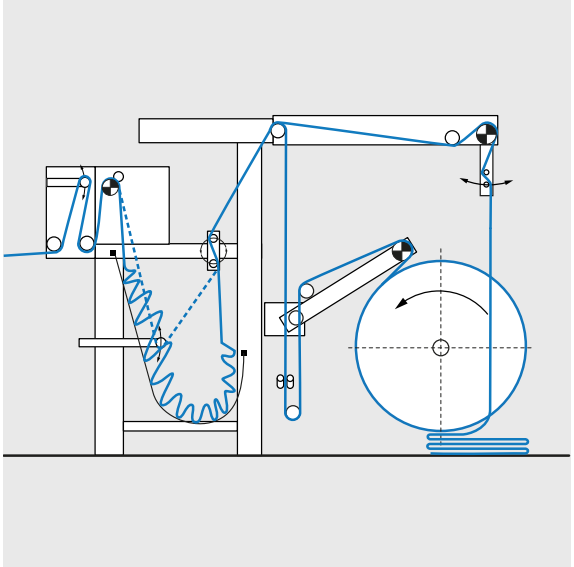
Infeed J-box for woven fabrics



Z-box for sensitive products



Infeed J-box for carpet



Exit J-box with traction unit, plaiter and surface winder

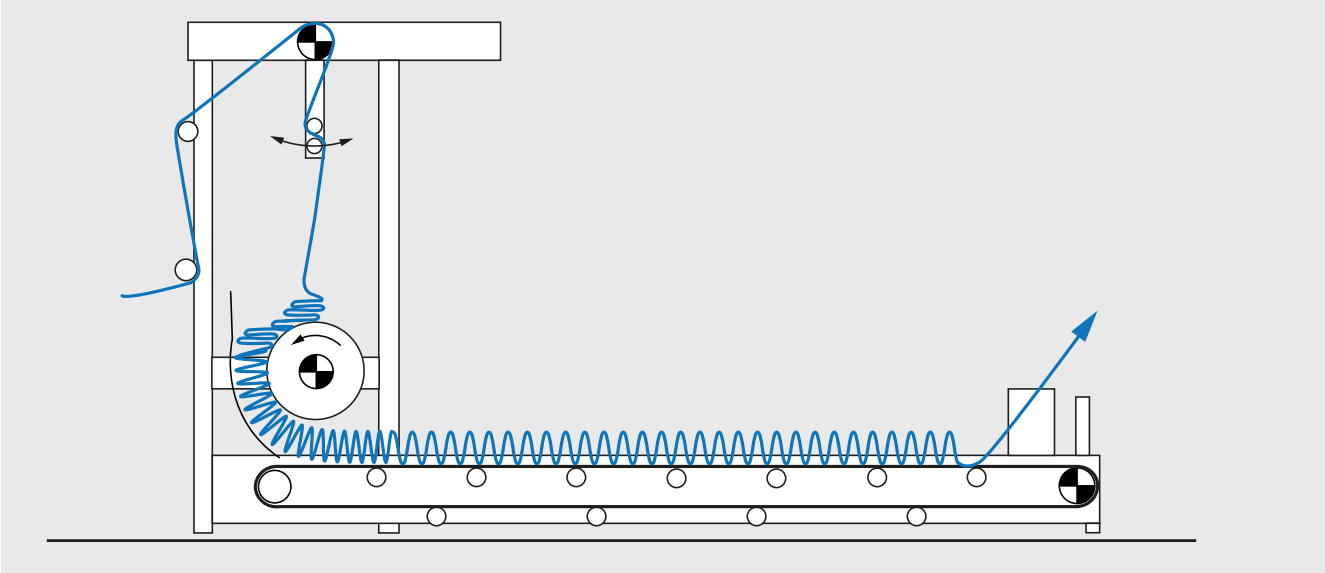
Belt accumulator

+ Belt accumulator for tension-free storage and resting of woven and knitted fabrics or non-woven fabrics at room temperature
+ Suitable for wet or dry applications
+ Integrated plaiter with storage drum for tension-free storage

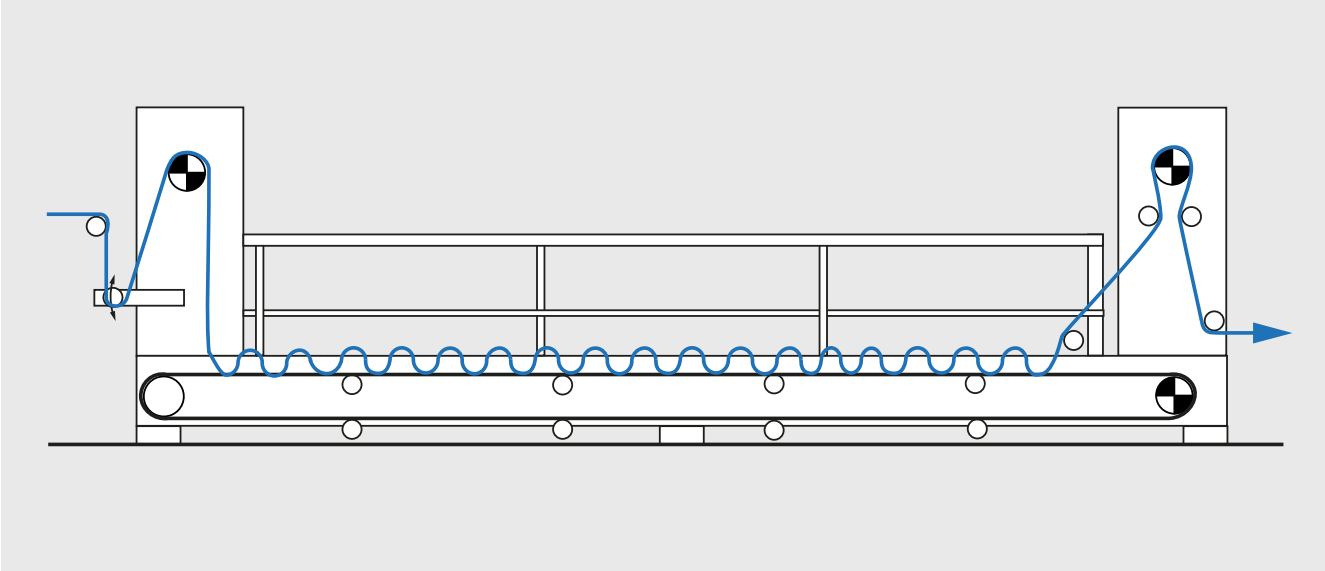
Belt accumulator

Technical data

Web type	Woven fabrics, knitted fabrics, non-woven fabrics
Capacity	Depends on resting time and material
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	Without tension
Roller diameter	100/140/160 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



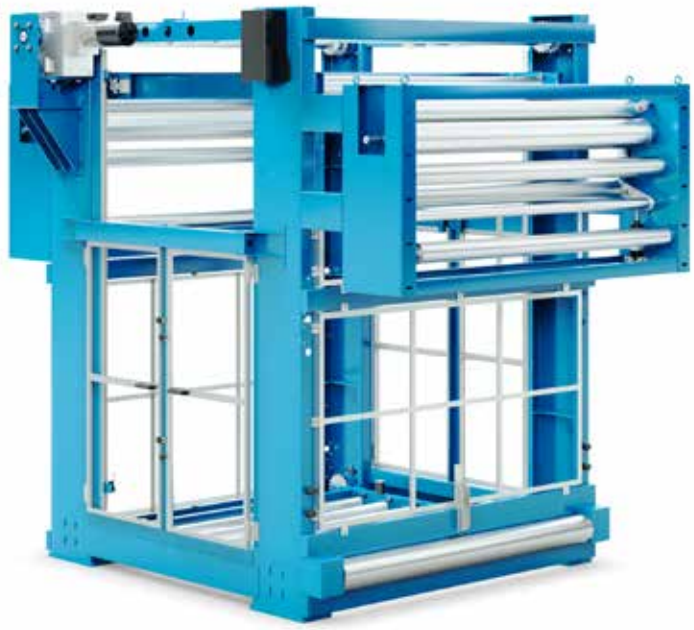
Belt accumulator with storage on drum



Standard belt accumulator

Roller accumulator with chain adjustment

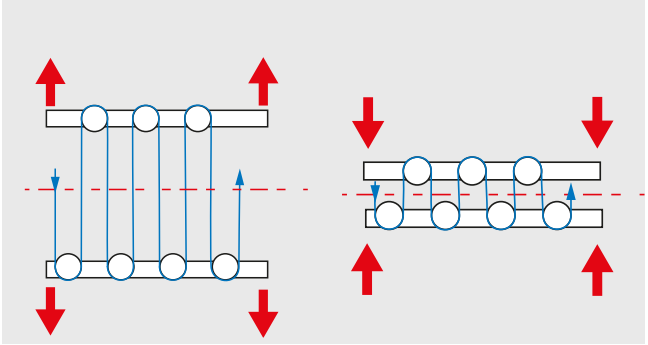
+ Web tension controlled roller accumulator with chain adjustment for web-based storing of woven fabrics, non-woven fabrics, technical textiles and carpet
+ Roller accumulator optimized for single infeed (comb accumulator)
+ Roller accumulator optimized to maximum capacity with minimum size (normal storage)
+ Parallel roller frame movement with prestretched chains
+ Optional infeed and exit traction unit available
+ Roller frame drive available as pneumatic or electric
+ Low web tension due to balanced roller frame
+ Optional double infeed available for minimum space requirements



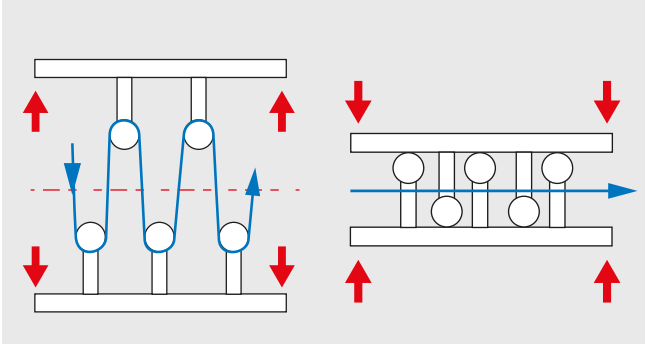
Technical data

Roller accumulator, capacity 30 m, comb version

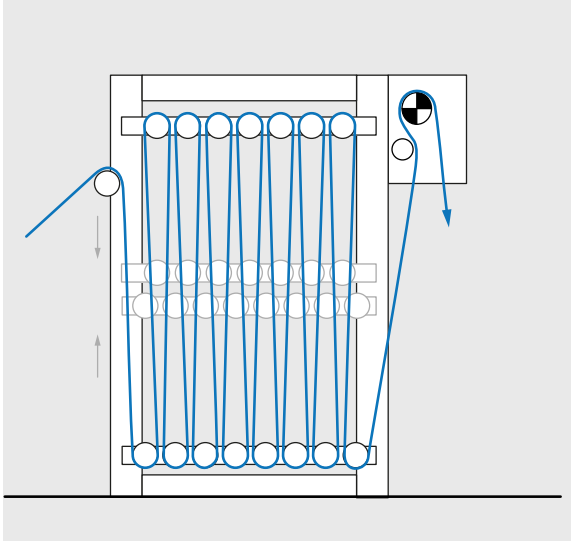
Web type	Woven fabrics, non-woven fabrics, carpet, technical textiles
Capacity	10 - 140 m
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



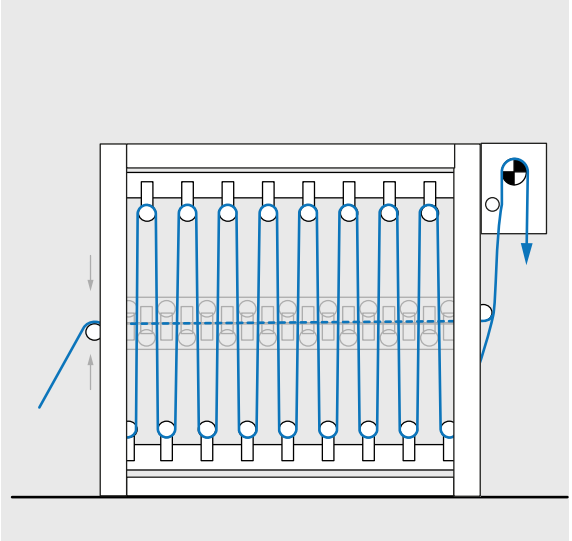
Function of standard roller accumulator, single infeed



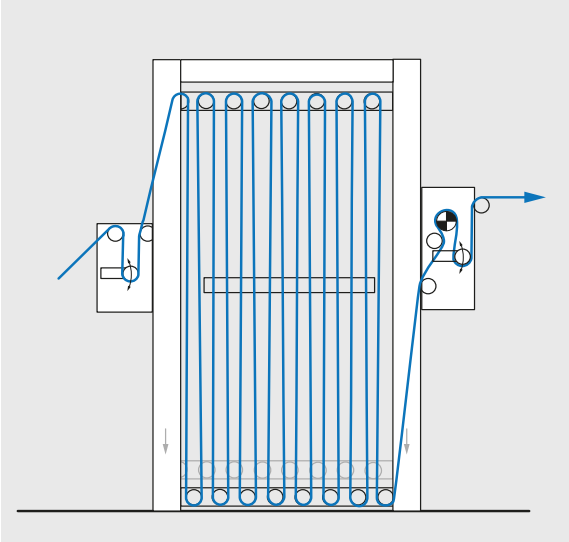
Function of roller accumulator with comb version, single infeed



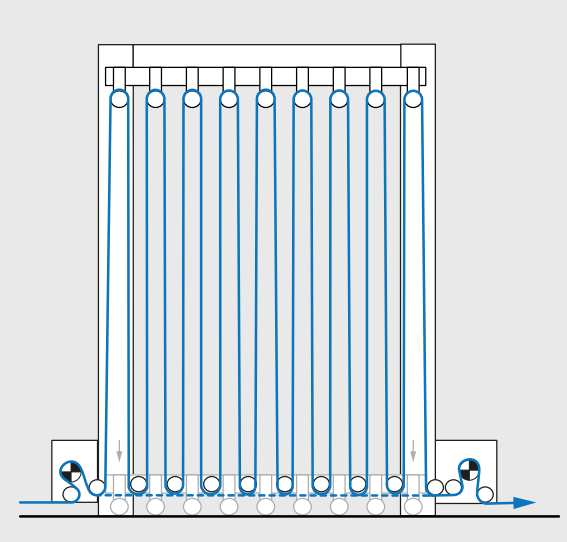
Roller accumulator with chain adjustment, storage capacity 30 m, standard design



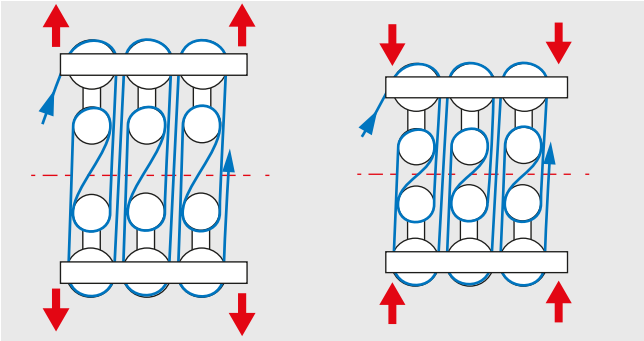
Roller accumulator with chain adjustment, storage capacity 30 m, comb version



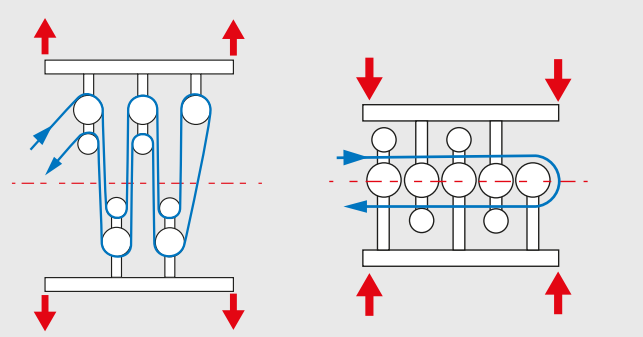
Roller accumulator with chain adjustment, storage capacity 50 m, standard design



Roller accumulator with chain adjustment, storage capacity 90 m, comb version



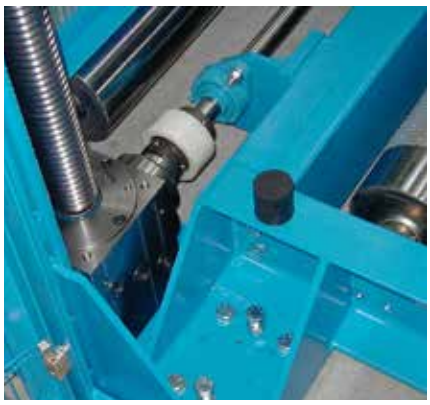
Function of standard roller accumulator, double infeed



Function of roller accumulator with comb version, double infeed

Roller accumulator with spindle adjustment

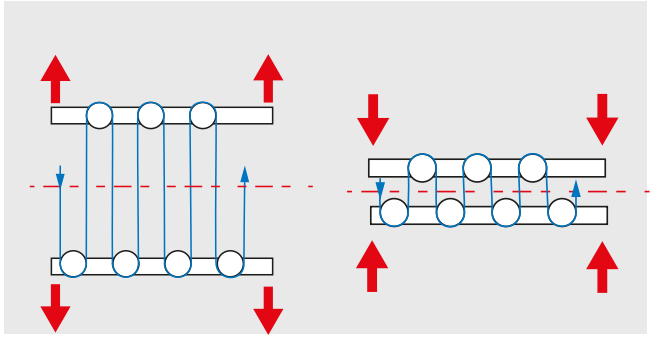
+ Web tension controlled roller accumulator with spindle adjustment for storing woven fabrics, non-woven fabrics, technical textiles and carpet
+ Roller accumulator optimized for single infeed (comb accumulator)
+ Roller accumulator optimized to maximum capacity with minimum size (normal storage/double infeed)
+ Parallel roller frame movement with recirculating ball screw, electrically driven
+ Optional infeed and exit traction unit available



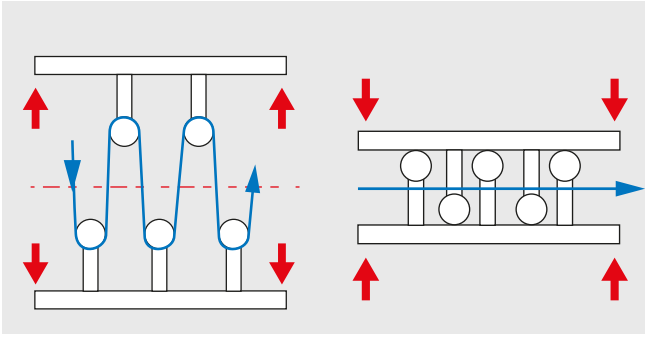
Roller accumulator with spindle adjustment, standard

Technical data

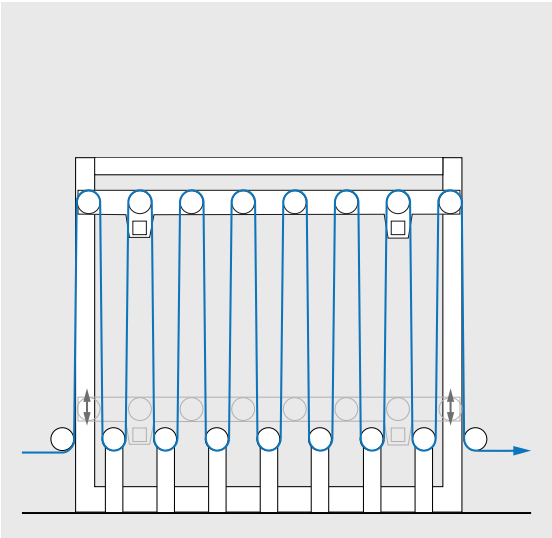
Web type	Woven fabrics, non-woven fabrics, carpet, technical textiles
Capacity	10 – 140 m
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



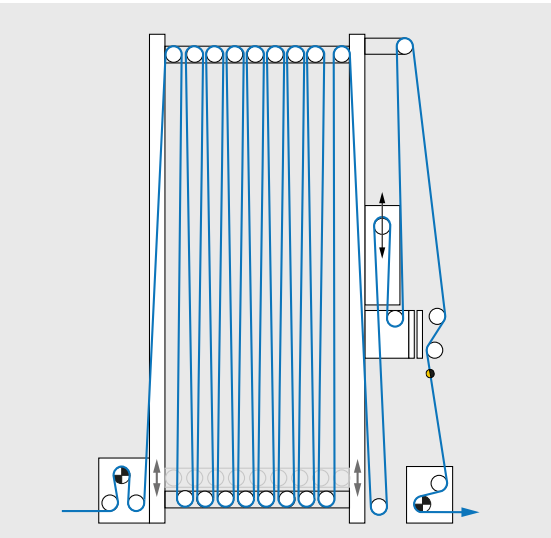
Function of standard roller accumulator, single infeed



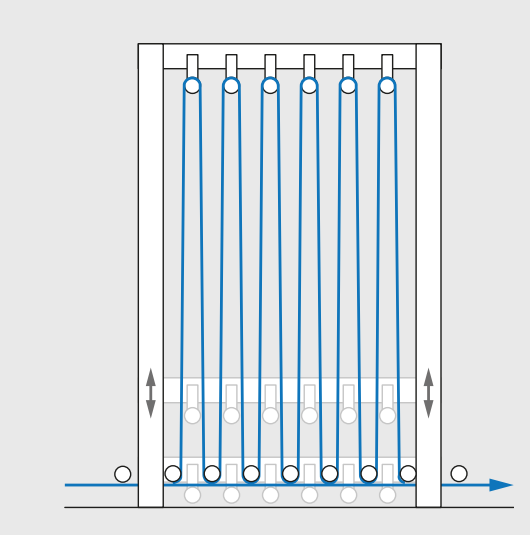
Function of roller accumulator with comb version, single infeed



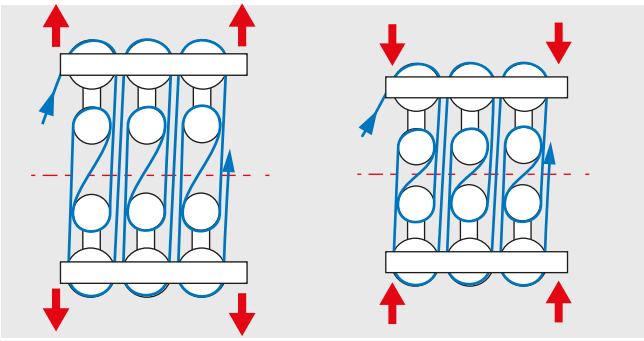
Roller accumulator with spindle adjustment, storage capacity 50 m, standard design



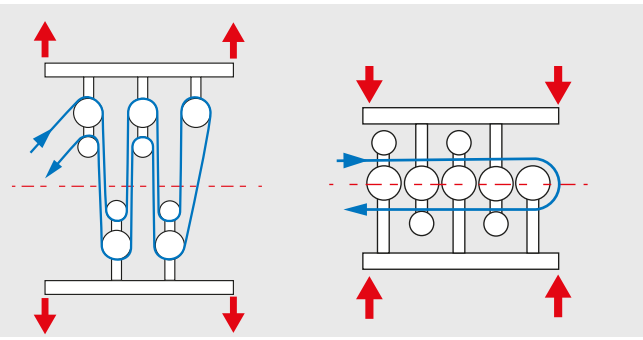
Roller accumulator with spindle adjustment, storage capacity 90 m, standard design



Roller accumulator with spindle adjustment, storage capacity 90 m, comb version



Function of standard roller accumulator, double infeed



Function of roller accumulator with comb version, double infeed

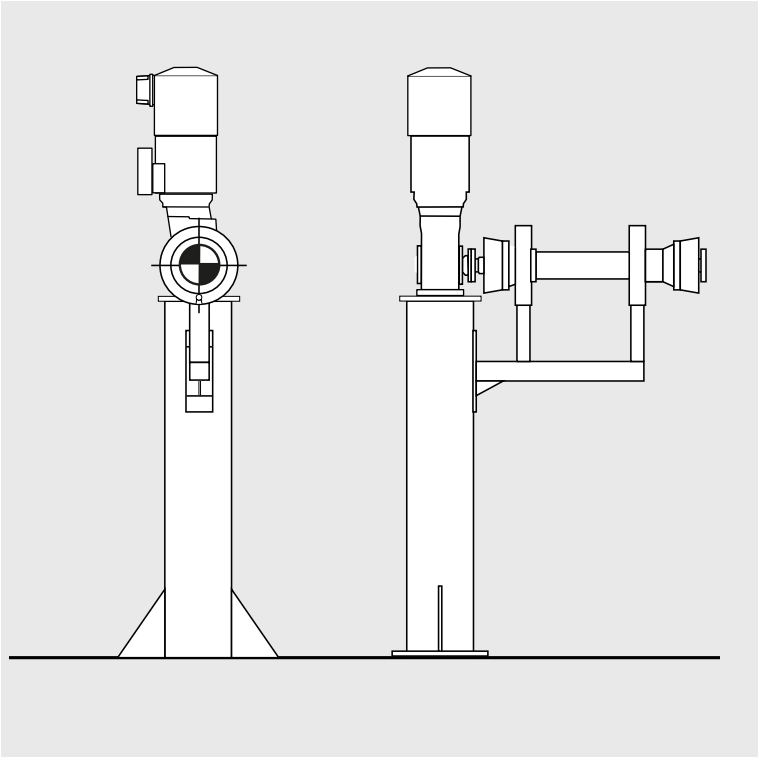
Center unwinder

+ Center winder for unwinding woven and knitted fabrics, non-woven fabrics and technical textiles
+ With cardan shaft to connect large batches on an A-frame
+ Available in stationary, moveable or suspended design
+ Speed-regulated drive for dancer position or web tension control

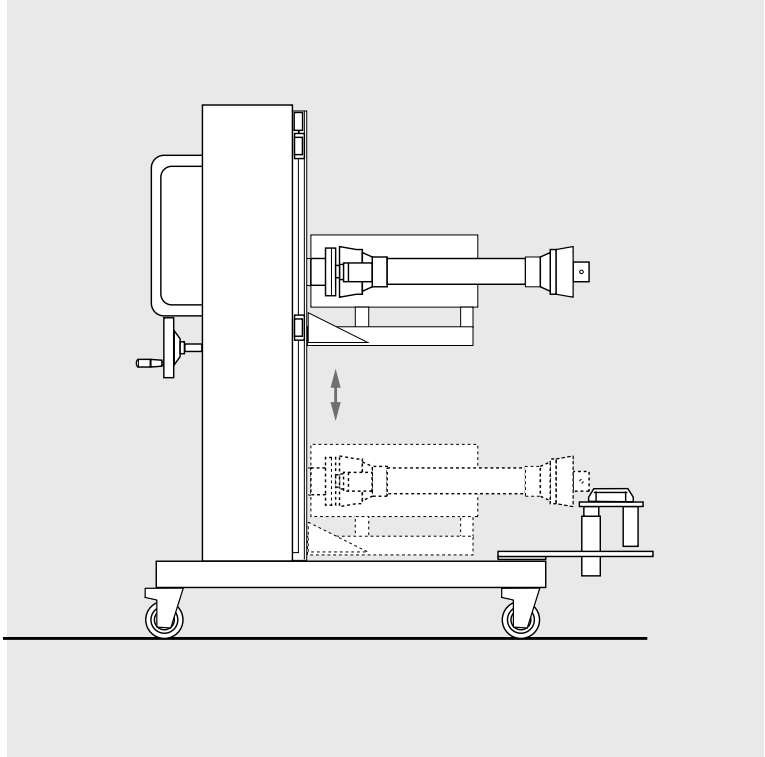
Technical data

Center unwinder on tenter infeed

Web type	Woven fabrics, knitted fabrics, non-woven fabrics, technical textiles
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Ambient temperature	0 – 50 °C



Stationary center unwinder



Moveable center unwinder

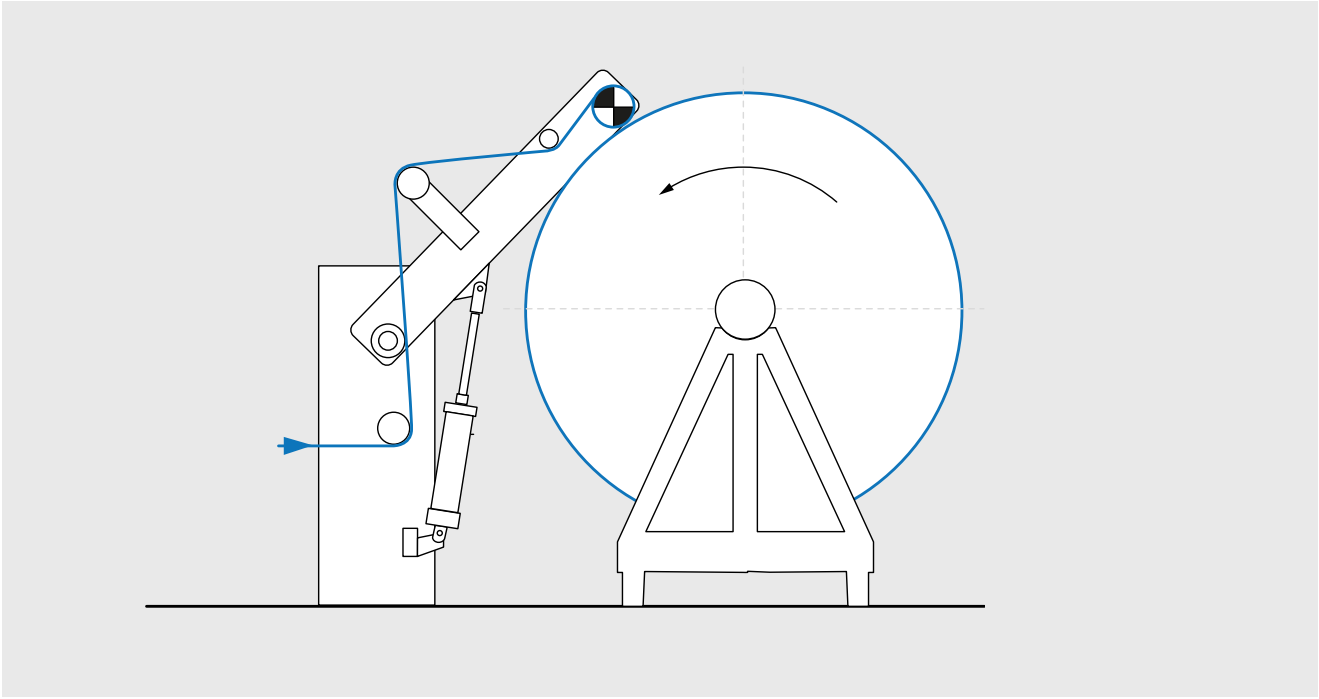
Surface winder

+ Surface winder for rewinding woven fabrics, non-woven fabrics and technical textiles onto large batches on an A-frame
+ Consistent web tension from lowest to maximum coil diameter
+ Winding arm with pneumatic adjustment
+ Spreading with curved spreader roller or curved, polished stainless steel pipe
+ Optional mechanical oscillation feature available
+ Also combinable with a plaiter

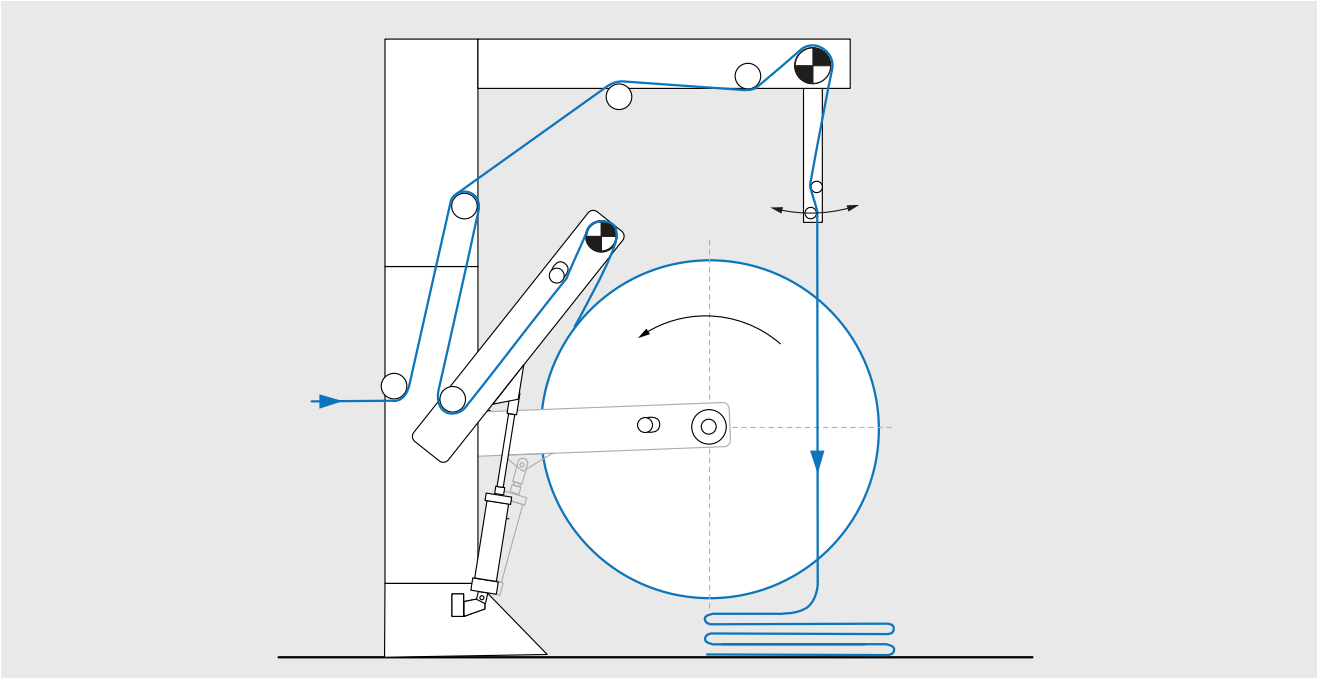
Surface winder on tenter exit

Technical data

Web type	Woven fabrics, non-woven fabrics, technical textiles
Roller diameter	1800 mm
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



Surface winder



Surface winder with plaiter

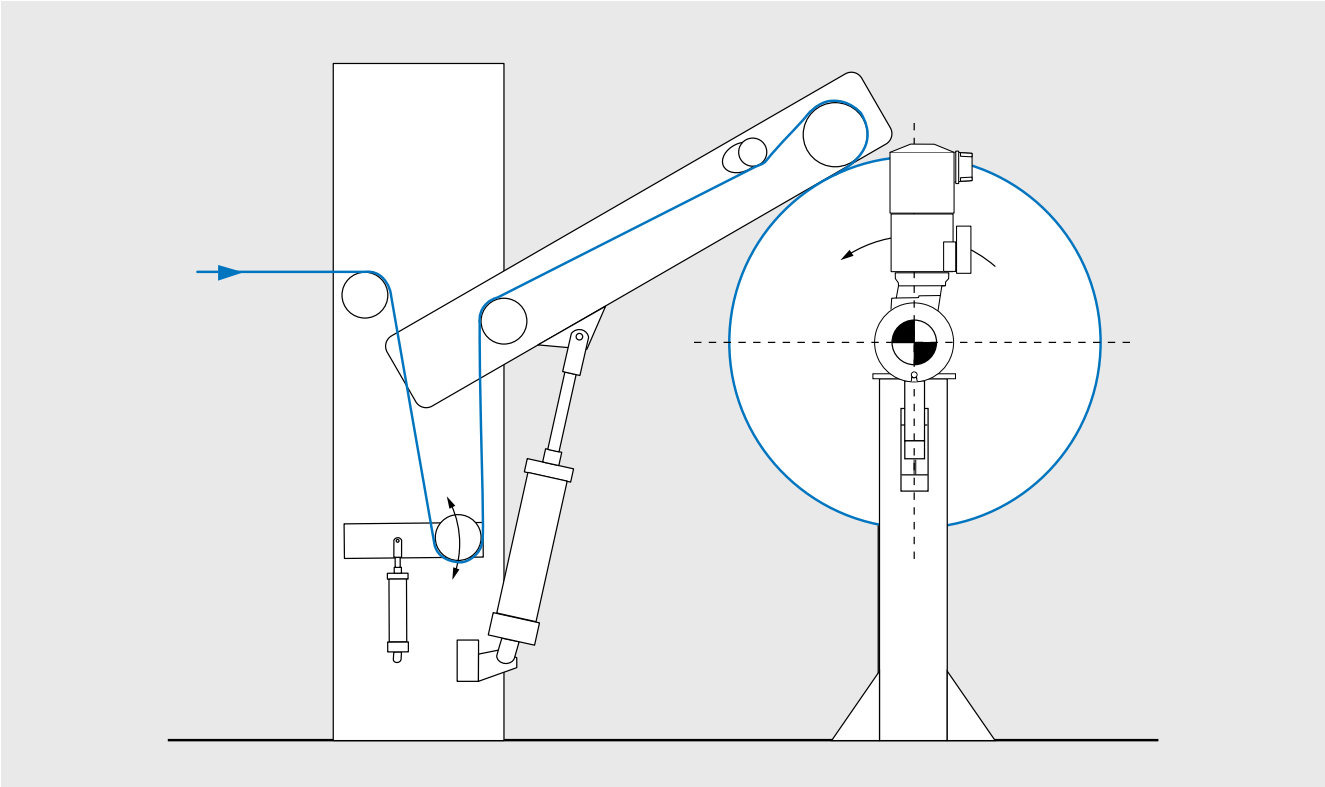
Center rewinder

+ Center winder for winding woven and knitted fabrics, non-woven fabrics and technical textiles onto large batches on an A-frame
+ Consistent web tension from lowest to maximum coil diameter
+ Winding arm with pneumatic adjustment, including distance control to the winder
+ Spreading with curved spreader roller or curved, polished stainless steel pipe
+ Optional mechanical oscillation feature available
+ Also combinable with a plaiter

Pneumatic cylinder for sochor arm

Technical data

Web type	Woven fabrics, knitted fabrics, non-woven fabrics, technical textiles
Coil diameter	max. 1800 mm
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



Center rewinder

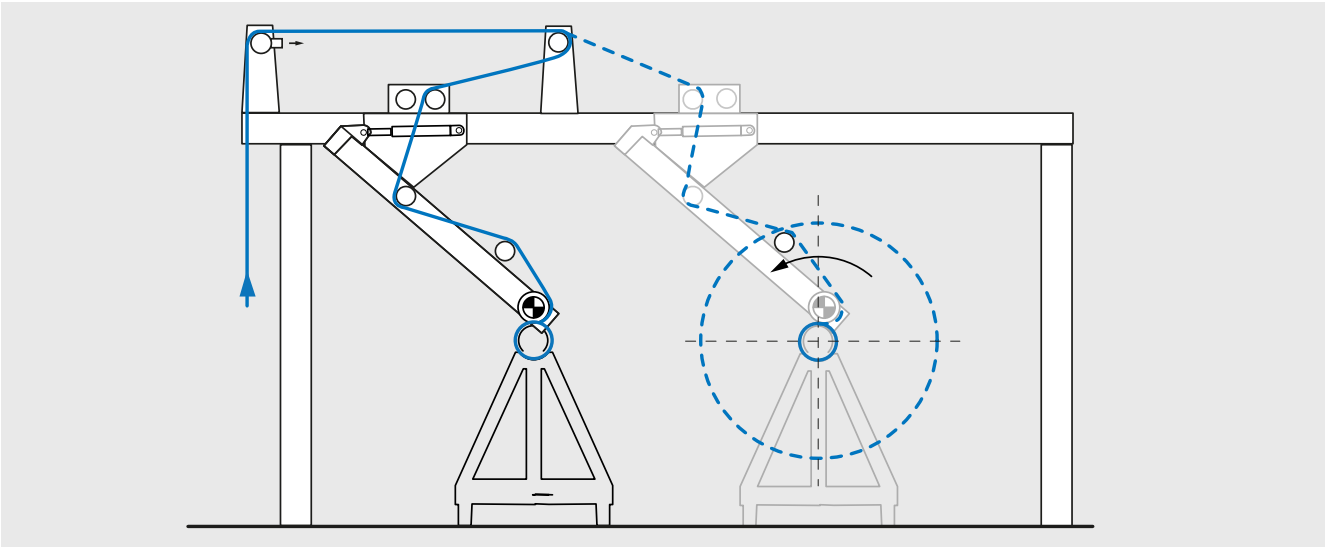
Two-position winder

+ Semi-automatic surface or center winder for continuous rewinding of woven fabrics or technical textiles onto large batches on an A-frame
+ Continuous production is assured in conjunction with an upstream accumulator
+ Speed-regulated drive for dancer position or web tension control
+ Winding arm with hydraulic adjustment, including gap control for center winder
+ Spreading with curved spreader roller
+ Optional mechanical oscillating feature available

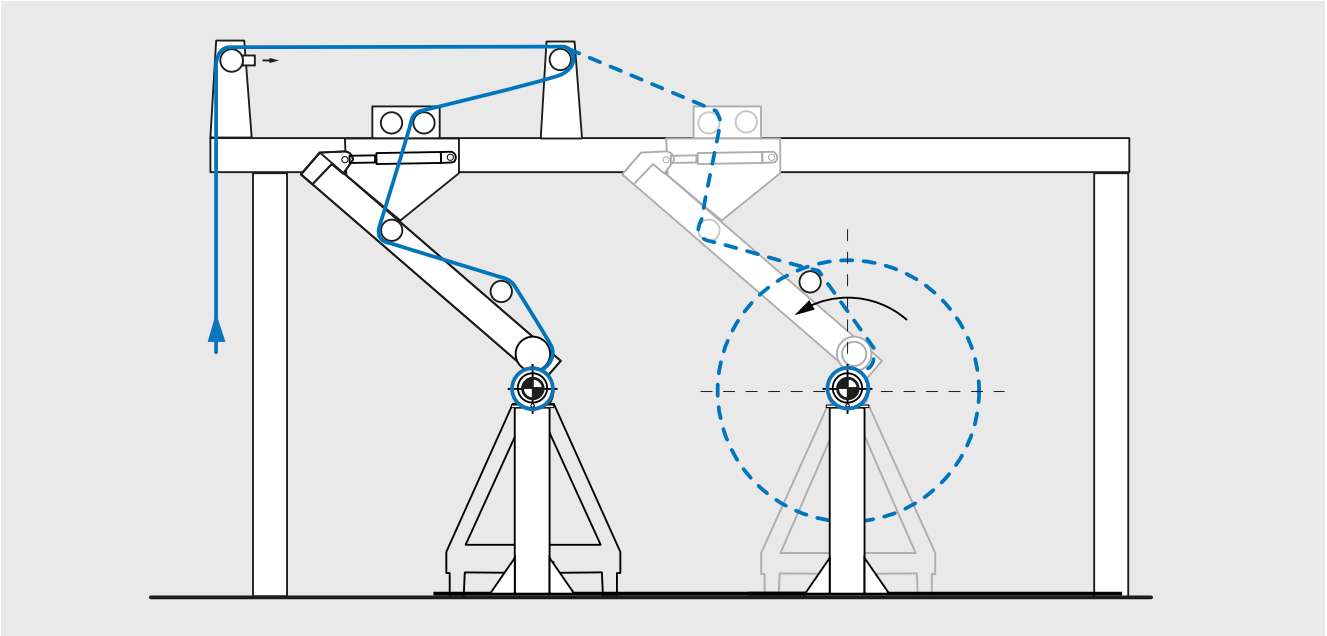
Two-position winder

Technical data

Web type	Woven fabrics, technical textiles
Coil diameter	1800 mm
Web width	1600 – 5400 mm
Machine speed	0 – 200 m/min
Web tension	max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



Two-position surface winder



Two-position center winder

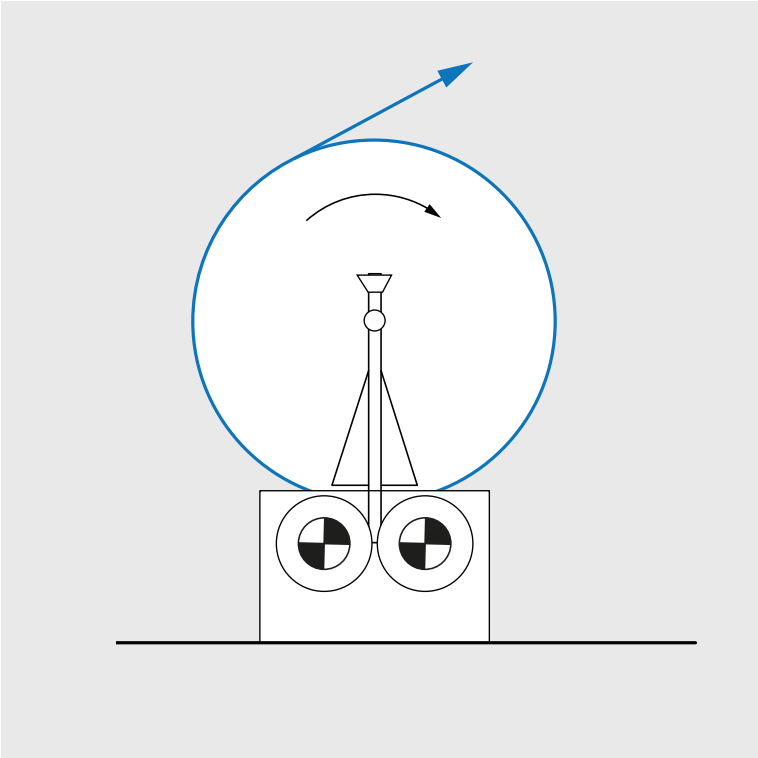
Ascending batch winder

+ Ascending batch winder for unwinding or rewinding woven fabrics, non-woven fabrics and technical textiles onto large batches on A-frames
+ Adjustable roll hardness for winding
+ With pressure roller for reliable and firm winding

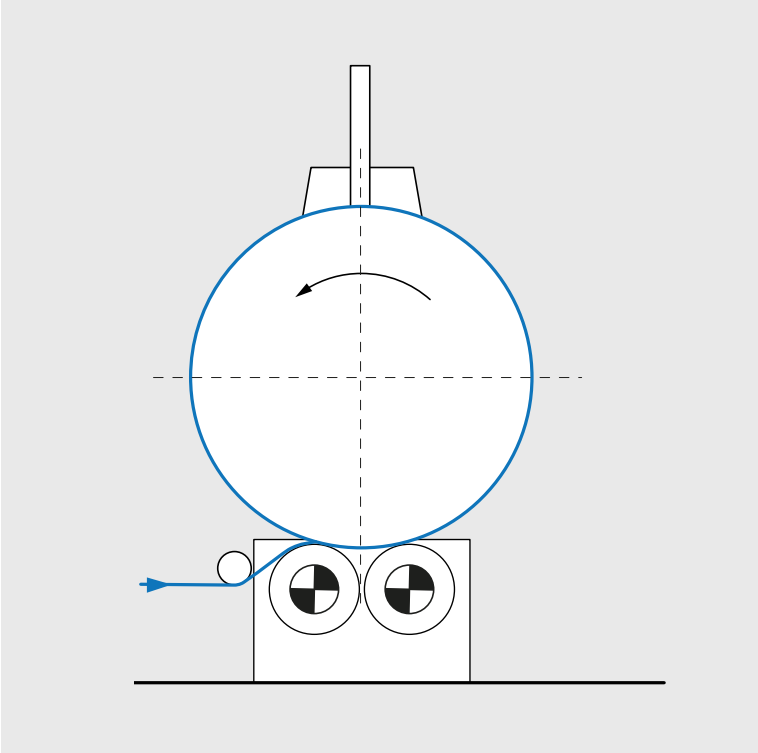
Ascending batch winder

Technical data

Web type	Woven fabrics, non-woven fabrics, technical textiles
Coil diameter	1600 mm
Web width	1600 – 5400 mm
Machine speed	0 – 100 m/min
Web tension	Max. 1000 N
Roller diameter	100/140/160/220 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



Ascending batch unwinder



Ascending batch rewinder

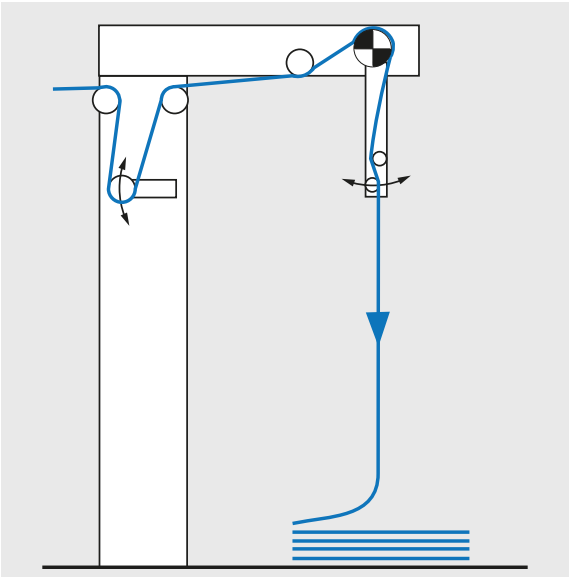
Plaiter

+ Plaiter for placing down woven and knitted fabrics
+ Available either as rocker or linear design
+ Adjustable plaiting length
+ Combinable with surface or center winder
+ Speed-regulated drive for dancer position or web tension control

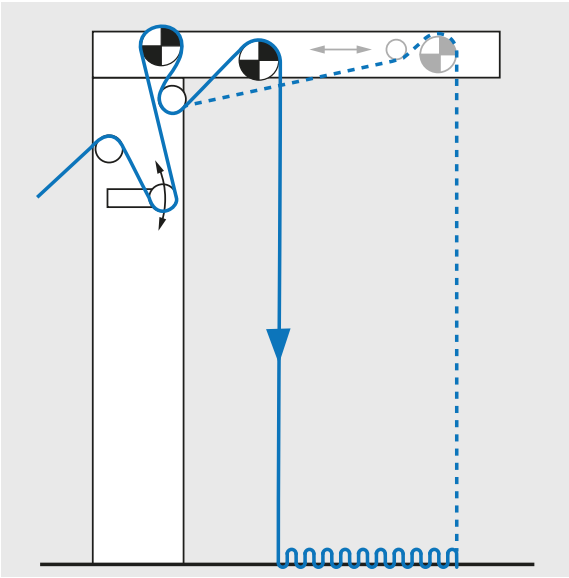
Plaiter on a digital textile printing machine

Technical data

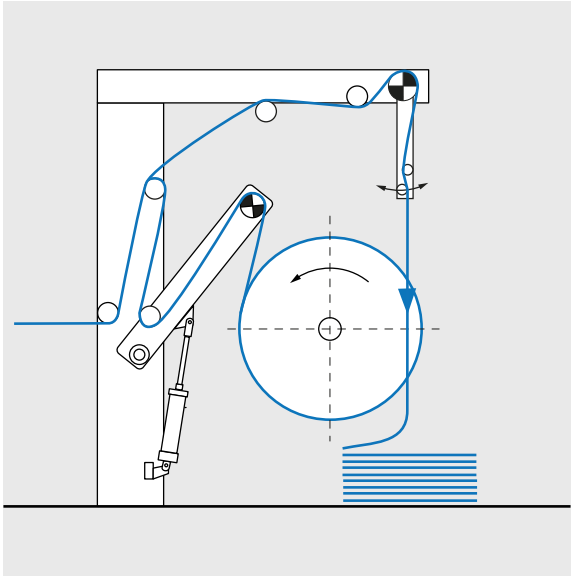
Web type	Woven fabrics, knitted fabrics
Web width	1600 – 3200 mm
Machine speed	0 – 80 m/min
Web tension	max. 500 N
Roller diameter	100/140/160 mm
Roller width	Web width + 200 mm (standard)
Roller material	Aluminum/stainless steel
Ambient temperature	0 – 50 °C



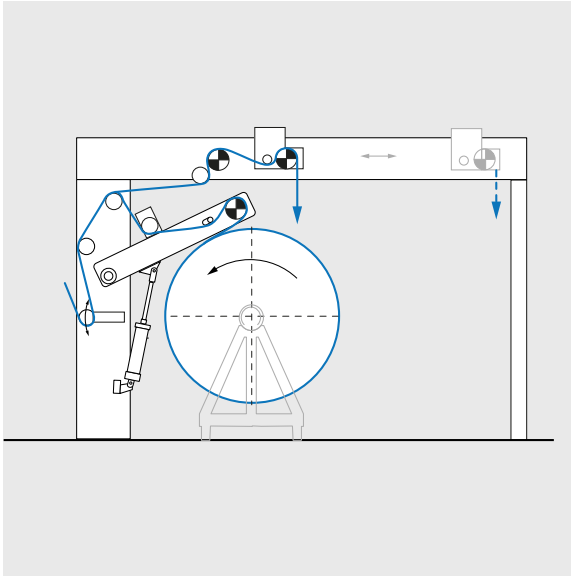
Exit framework with plaiter



Exit framework with linear plaiter



Exit framework with plaiter and surface rewinder



Exit framework with linear plaiter and surface rewinder

Services

Project planning/engineering

Together, we compile your requirements and work out the best solution to meet your needs. By using the very latest products from our manufacturers, we achieve maximum flexibility and high production reliability, with a ready supply of spare parts available at short notice.

Drive technology

As your system partner, Erhardt+Leimer provides a one-stop, financially viable drive system. We work with well-known and trusted manufacturers, such as Siemens, Bosch Rexroth and Lenze. We also implement an end-to-end automation concept from the control system to an intelligent drive solution with technology modules.

Control cabinet and control engineering

Our range includes all control cabinet sizes – from small operating panels to complex control cabinet systems. As "approved and certified control cabinet constructor in accordance with UL 508A", Erhardt+Leimer has been a trusted partner for projects on the American continent for many years. We design, construct and approve control cabinets for various branches in accordance with the UL 508A standard.

Programming

Our engineers program solutions for your projects and assignments. We have in-house component libraries for many of these applications. These enable us to realize your projects quickly and reliably. The programming process then becomes a project-based parameterization.

Our projects are mainly realized with the following control systems:

» Siemens Simatic S7
» Bosch Rexroth
» Allen Bradley

Visualization/operation

We offer customized visualization applications for a clear presentation of your production processes on one or more PCs. These are based on established programs such as SIMATIC WinCC.

Remote maintenance/diagnosis

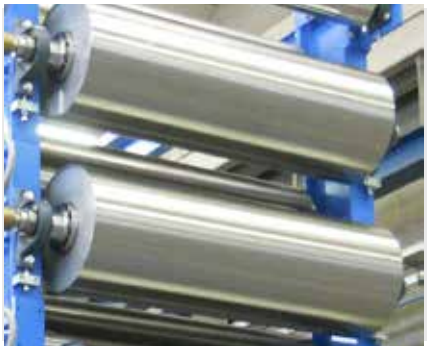
Remote diagnosis and maintenance ensure minimum downtime for you and therefore maximum availability throughout the entire service life of your facility.

Additional products

Guide rollers

Guiding rollers, measuring rollers and path rollers are required wherever webs run. A high level of quality on the rollers ensures the accuracy of the web guiding and in this way creates the prerequisite for high production velocities.

E+L offers:
» Aluminum roller with blank or hard-anodized surface, static or dynamic balancing
» Steel rollers with painted, chrome-plated or rubber surface, static or dynamic balancing
» Stainless steel rollers



Heated and chill rollers

Heated and chill rollers are used to heat, cool and smooth out all types of web-based products.

E+L offers:
» Heated and chill rollers in steel or stainless steel
» Double-walled with spiral baffle
» Single-sided entry and exit
» Entry and exit on opposite sides

Spreading rollers (based on bow rollers)

Spreading rollers are used in the paper, plastics and textile industries to ensure that webs are processed with even width and free of creases. Spreading rollers are used after cutting stations to separate the individual panels in order, to prevent the webs from running into one another.

E+L offers:
» Bow roller with rubber mantle
» Flange or pedestal bearing version
» Manually adjustable bow position

Spreading rollers (based on rubber bands)

The spreading roller effect is achieved through stretching the highly elastic rubber bands which are distributed evenly over the surface. This spreading effect can be adjusted as required by changing the angle of the guide plates. Spreading rollers with rubber bands are used in particular for sensitive material webs or webs with high surface stability.

E+L offers:
» Spreading rollers with a diameter of 127 or 154 mm
» Continuously adjustable spreading effect

Oscillating rollers (mechanical function)

Oscillating rollers move a guide roller axially with an adjustable travel distance and a required frequency. The main area of application is on center or surface winders to achieve even winding and to prevent unwanted raised edges.

E+L offers:
» Oscillating rollers with an adjustable travel of 0 to 55 mm

Bearing caps

Bearing caps are suitable for unwinding and rewinding materials on reels. They are available as bearing block or flange bearing design, with and without drive shaft. Alternatively, the bearing caps can also be designed as sliding bearings for axial displacement of the winding product.

E+L offers:
» Bearing cap in pedestal bearing version
» Bearing cap in flange bearing version
» Sliding-bearing cap in pedestal bearing version
» Sliding-bearing cap in flange bearing version

Expanding shafts

Expanding shafts, also know as winding shafts, are used to accommodate sleeves during the unwinding or rewinding of web-based materials. The actual tensioning process i.e. the expansion of the tensioning elements, can be achieved with various different auxiliary energy sources.

E+L offers:
» Pneumatic expanding shafts with central hose
» Pneumatic expanding shafts with clamping strips
» Friction winding shafts

Questionnaire

General data

Customer			
Street			
Zip code		City/town	
Country		Internet	
Telephone		Fax	
Contact person			
Telephone		E-mail	
Project			

Technical data

Type of machine				
Make				
Position on the machine				
Web type	❑ Woven fabrics	❑ Knitted fabrics	❑ Carpet	❑ Non-woven fabric ❑
Web elasticity	❑ Lengthwise elasticity		❑ Crosswise elasticity	
Web surface	❑ Not transparent	❑ Transparent	❑	
Web edge	❑ Straight	❑ Frayed	❑ Wavy	❑ Rolled up
Web width	Min. _____mm		Max. _____mm	
Web thickness	Min. _____mm		Max. _____mm	
Web weight	Min. _____g/m²		Max. _____g/m²	
Web speed	Min. _____m/min		Max. _____m/min	
Web tension	Min. _____N		Max. _____N	
Condition in operation	❑ Dry	❑ Damp	❑ Wet	❑
Ambient temperature	_____°C			
Ambient conditions	❑ Dry	❑ Damp	❑ Wet	❑
Infeed error	+/-_____mm			
Operating pressure	_____bar			
Reference voltage	Machine speed	❑ 0-10 V DC	❑ 0/4-20 mA	
Operating side	In direction of production	❑ Left	❑ Right	
Drive side	In direction of production	❑ Left	❑ Right	
Control voltage	_____V	_____Hz	❑ 24 V DC	
Operating voltage	3x_____V	_____Hz		

Technical specifications for infeed systems

Infeed framework for woven and knitted fabrics

❑ **Infeed framework for woven and knitted fabrics**	❑ With center unwinder	❑ Without drive	❑ With drive
	❑ With traction unit on the infeed framework	❑ Without drive	❑ With drive
	❑ With traction unit after the infeed framework	❑ Without drive	❑ With drive
	❑ Synchronization traction unit - subsequent machine	❑ With dancer roller	❑ With flange load cell
	❑ With web guiding	❑ Segmented roller guider	❑ Web guider
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Infeed system with J-box for woven and sturdy knitted fabrics

❑ **Infeed system with J-box for woven and sturdy knitted fabrics**	Web infeed	❑ Plaited	❑ From the roll
	❑ With center unwinder	❑ Without drive	❑ With drive
	❑ With infeed traction unit for J-box	❑ Without drive	❑ With drive
	❑ With web guiding	❑ Segmented roller guider	❑ Web guider
	❑ With traction unit for exit	❑ Without drive	❑ With drive
	❑ Synchronization traction unit – subsequent machine	❑ With dancer roller	❑ With load cell
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Infeed system with Z-box for very light textiles

❑ **Infeed system with Z-box for very light textiles**	❑ With small roll unwinding		
	❑ With center unwinder	❑ Without drive	❑ With drive
	❑ Synchronization center unwinder – traction unit	❑ Without dancer roller	❑ With load cell
	❑ Traction unit in J-box	❑ Without drive	❑ With drive
	❑ With web guiding	❑ Segmented roller guider	❑ Web guider
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Questionnaire

Center unwinder

❑ **Center unwinder**	Version	❑ Stationary	❑ Moveable
	Center drive	❑ Without drive	❑ With drive
	Coil diameter	Min._____mm	Max._____mm
	❑ With synchronization	❑ With dancer roller	❑ With load cell
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Ascending batch unwinder

❑ **Ascending batch unwinder**	Coil diameter	Min._____mm	Max._____mm
	Drive	❑ Without drive	❑ With drive
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Technical specification storage systems

Infeed or exit J-box for carpet

❑ **Infeed or exit J-box for carpet**	Traction unit for storage	❑ Without drive	❑ With drive
	❑ With traction unit for extraction	❑ Without drive	❑ With drive
	❑ Synchronization before traction unit	❑ With dancer roller	❑ With load cell
	❑ Synchronization after traction unit	❑ With dancer roller	❑ With load cell
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Belt accumulator

❑ **Belt accumulator**	Position on the system	❑ Before production system	❑ After production system
	Version	❑ Linear storage	❑ With storage drum
	Storage length (belt length)	_____m	
	Traction unit on infeed	❑ Without drive	❑ With drive
	❑ With traction unit on exit	❑ Without drive	❑ With drive
	❑ With synchronization infeed	❑ With dancer roller	❑ With load cell
	❑ With synchronization exit	❑ With dancer roller	❑ With load cell
	❑ With web guiding	❑ Segmented roller guider	❑ Web guider
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Roller accumulator before or after production system

❑ **Roller accumulator before or after production system**	Position on the system	❑ Before production system	❑ After production system
	Roller frame version	❑ Standard	❑ Combing
	Roller frame adjustment version	❑ With chain	❑ With spindle (only motorized)
	Roller frame drive version	❑ Pneumatic	❑ Motorized
	Web feed	❑ Single	❑ Double
	Memory capacity	_____m	
	❑ With traction unit on infeed	❑ Without drive	❑ With drive
	❑ With traction unit on exit	❑ Without drive	❑ With drive
	❑ With synchronization infeed	❑ Dancer roller	❑ Flange load cells
	❑ With synchronization exit	❑ Dancer roller	❑ Flange load cells
	Advanced speed during storage operation		_____%
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Questionnaire

Technical specifications for infeed systems

Plaiter

❑ **Plaiter**	Version	❑ Rocker	❑ Linear plaiter
	Drive	❑ Without drive	❑ With drive
	❑ With synchronization	❑ With dancer roller	❑ With load cell
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Exit system with J-box for woven and sturdy knitted fabrics

❑ **Exit system with J-box for woven and sturdy knitted fabrics**	Synchronization previous machine – traction unit	❑ With dancer roller	❑ With load cell
	Traction unit into the J-box	❑ Without drive	❑ With drive
	❑ With center rewinder	❑ Without drive	❑ With drive
	❑ With surface rewinder	❑ Without drive	❑ With drive
	❑ With web guiding	❑ Segmented roller guider	❑ Web guider
	❑ With plaiter	❑ Without drive	❑ With drive
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Exit system with surface winder

❑ **Exit system with surface winder**	Surface winder drive	❑ Without drive	❑ With drive
	Coil diameter	Min. _____mm	Max._____mm
	❑ With synchronization	❑ With dancer roller	❑ With load cell
	❑ With spreading on sochor arm	❑ With bent stainless steel pipe	❑ With spreading rollers
	❑ With oscillation on sochor arm	+/-_____mm	
	❑ With plaiter	❑ Rocker	❑ Linear plaiter
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Exit system with center rewinder

❑ **Exit system with center winder**	Version	❑ Stationary	❑ Moveable
	Center drive	❑ Without drive	❑ With drive
	Coil diameter	Min. _____mm	Max. _____mm
	❑ With synchronization	❑ With dancer roller	❑ With load cell
	❑ With spreading on sochor arm	❑ With bent stainless steel pipe	❑ With spreading roller
	❑ With oscillation on sochor arm	+/-_____mm	
	❑ With plaiter	❑ Rocker	❑ Linear plaiter
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Semi-automatic surface or center rewinder

❑ **Exit system with semi-automatic surface or center winder (two-position winder)**	Winder	❑ Surface	❑ Center
	Drive	❑ Without drive	❑ With drive
	Coil diameter	Min. _____mm	Max. _____mm
	❑ With synchronization	❑ With dancer roller	❑ With load cell
	❑ With spreading on sochor arm	❑ With bent stainless steel pipe	❑ With spreading roller
	❑ With oscillation on sochor arm	+/-_____mm	
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Ascending batch rewinder

❑ **Ascending batch rewinder**	Coil diameter	Min. _____mm	Max. _____mm
	Drive	❑ Without drive	❑ With drive
	Electrical control	❑ Without control	❑ With control
	Command station	❑ Without command station	❑ With command station

Questionnaire

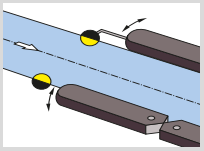
Transport/packaging/assembly and commissioning

Transport	❑ Truck freight	❑ Sea freight	❑ Air freight
Packaging	❑ Wooden crate	❑ Wooden crate seaworthy	❑ For container
Assembly	❑ By customer	❑ By E+L	
Commissioning	❑ By customer	❑ By E+L	

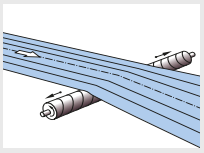
Comments

Date:	**Issuer:**

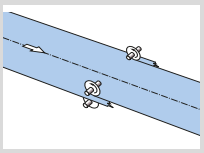
Other products for the textile industry



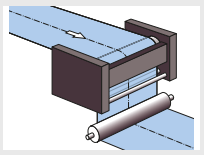
ELFEED – Tenter infeed systems



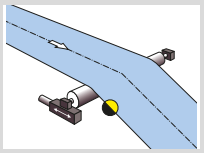
ELSPREADER – Web spreading systems



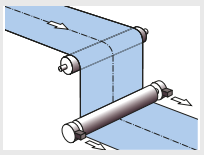
ELCUT – Web cutting systems



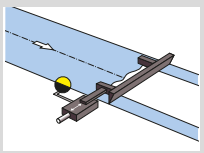
ELSMART – Web guiding systems



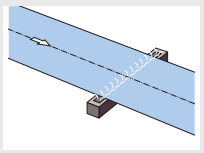
ELBANDER – Conveyor belt control systems



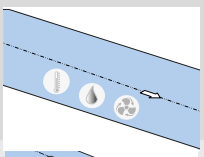
ELTENS – Web tension control systems



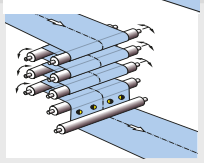
ELPOSER – Positioning and follow-up control systems



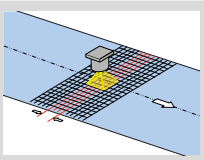
ELMETA – Metal detection systems



ELMAT – Process control systems for tenters



ELSTRAIGHT – Textile straightening systems



ELCOUNT – Thread counting systems

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