

FORMING THE FUTURE



COIL FEEDING LINES IN SHORT SPACE DESIGN

COIL FEEDING LINES IN SHORT SPACE DESIGN. THE COST-EFFECTIVE SOLUTION.



Coil feeding lines in short space design from Schuler cover a broad spectrum of parts.

Reliable, modular and flexible. Schuler coil lines in the short space version were especially developed to meet the needs of customers in the supplier sector. They offer process reliability even for the most demanding materials. They are optimally suited for the manufacture of structural parts as well as for processing of high-strength materials – even for the higher ranges of strip thickness. In addition, they are the ideal solution for use in plants with limited space availability.

Our product program includes coil lines in high-performance basic models that are adapted to all press types. The modular concept permits flexible configuration of

the lines, for which we offer an extensive package of options. In this way, you stay flexible and can react quickly to changing requirements with a modest investment.

Basic version specs in brief

Coil width [mm]	up to 1.850
Material thickness [mm]	up to 12
Coil weight [t]	up to 27

YOUR REQUIREMENTS – OUR CAPABILITIES

Flexibility:

- Fast delivery of equipment and components
- Adapted to all press types
- Meets customer-specific requirements
- Can be used even with limited available space

Time savings:

- Process reliability even for demanding materials
- Minimal downtimes
- Short changeover times
- Optimally adapted to the press

Attractive price/performance ratio:

- Clear cost advantage by pre-defined basic designs and options

User-friendly operation of line:

- Operation concepts based on pictograms
- Easy fault correction/debugging
- Online diagnostics

Retrofit:

- Flexible interface with existing press systems



DECOILER AND LOADING PLATFORM

The coil loading cart is equipped with equipment to prevent tipping of the coil. The decoiler is designed for coils with an outside diameter up to 2,000 mm. The strip is drawn off from below by remote control into the threading device. This process is supported over the entire strip width by means of two coil adapter rollers.

Examples of options:

- Coil loading cart as scissor-type lift platform: The coil loading cart located above floor as a scissor-type lift platform.
- Enlarging the expansion range: Enlargement of the expansion range to a large inside coil diameter is achieved by means of slip-on clamping inserts on the adapter end of the decoiler mandrel.



THREADING DEVICE

The threading device consists of an upper threading wedge and a lower roller conveyor to guide the leading edge of the coil strip from below into the draw-in rollers of the straightener.



LOOP UNIT

The strip material is safely and reliably drawn off the decoiler mandrel. A space-saving minimal loop is formed behind and below the mandrel and is then fed into the straightening unit.

Draw-off rollers mounted onto the decoiler mandrel control the formation of the loop. This permits a constant strip traction even in reverse operating mode and thus improves the quality of coil end processing.



FEED STRAIGHTENER

The straightener unit cycles the material from the loop into the die during the opening of the press in segments according to the product-specific feed length.

Examples of options:

- Motorized straightening roller adjustment: The adjustment of the straightening roller is performed by an a.c. gear unit. For maximum flexibility the upper straightening rollers can be adjusted independently from one another. In addition, a virtual group adjustment is possible and can be activated by simply selecting from within the visualization/graphic display.

TECHNICAL EQUIPMENT OF THE COIL LINES IN SHORT SPACE DESIGN

	BASIC MODELS	OPTIONS
Coil loading cart	Traveling mechanism	Coil loading cart as scissor-type lift platform
	Two coil adapter rollers	Polyurethane coating for coil adapter rollers
	Hydraulic lift cylinder with guide pillars	Hydraulically actuated coil tip prevention
	Coil tip prevention	
Decoiler	Stationary machine frame	Four tapered rollers
	Driven decoiler mandrel	Expansion range enlargement
	Draw-off rollers	Decoiling operating mode
	Two tapered rollers	
	Pressure roller	
Threading device	Housing wall	
	Threading wedge	
	Roller conveyor	
Loop unit	Adapter rollers	
	Recoil protection with integrated sensors for loop control	
Straightener	Machine frame	Motorized coil side guiding
	Coil side guiding [Four-point guiding]	Off-center adjustment of coil side guiding
	Feed rollers	Motorized straightening roller adjustment
	Metering wheel	Motorized infeed height adjustment
	Drive	Strip lubrication unit
		Feed rollers TOPOCROM®
		Hard-chrome plated straightening rollers
		ZigZag
General		Engineering software licensing
		Labeling of the line in other languages
		Safety guarding
		Visualization/graphic display

SCHULER SERVICE.

STATE-OF-THE-ART SERVICE FOR MORE PERFORMANCE.

Schuler Service offers a tailored portfolio of services covering the entire life cycle of your equipment.

Over 900 service employees worldwide provide expert support 24/7 in close cooperation with you – our partners. Our main priority is always to ensure the maximum productivity and safety of your production equipment in order to secure your company's continued success.

With over 175 years of experience and expertise, we can guarantee the best possible support for the operation of your machines – and not only those supplied by Schuler, but by all other manufacturers. Whatever the situation, Schuler Service has the right solution for your specific needs.



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ABOUT THE SCHULER GROUP – WWW.SCHULERGROUP.COM

Schuler offers customized first-rate technology in all areas of forming – from the networked press to press shop planning. In addition to press, our product includes automation and software solutions, dies, process know-how and service for the entire metalworking industry. Our customers include automotive manufacturers and suppliers, as well as companies in the forging, household appliance and electronics industries. Presses from the Schuler Group mint coins for more than 180 countries. When it comes to the digital transformation of the forming technology, we support our customers worldwide as a supplier of innovative system solutions. Founded in 1839 with headquarters in Göppingen, Germany, Schuler AG has about 6,600 employees at production sites in Europe, China and America, as well as service companies in more than 40 countries. The company is majority-owned by the Austrian ANDRITZ Group.

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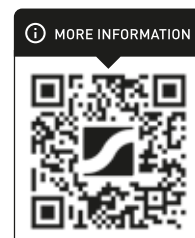
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