

STR Stretching and Respooling Line



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The innovative STR stretching/respooling line is designed to produce high-resistance/high-ductility steel wire for concrete reinforcing elements.

	STR 12	STR 16	STR 20
Wire diameters	6 - 12 mm	8 - 16 mm	10 - 25 mm
Compact coil weight	2 - 6 tons	3 - 8 tons	3 - 8 tons
Pulling block power (AC motor)	160 kW	200 kW	315 kW
Spooler power (AC motor)	75 - 90 kW	90 - 110 kW	90 - 132 kW
Pay-off system	VPS	VPS	HPS



HPS



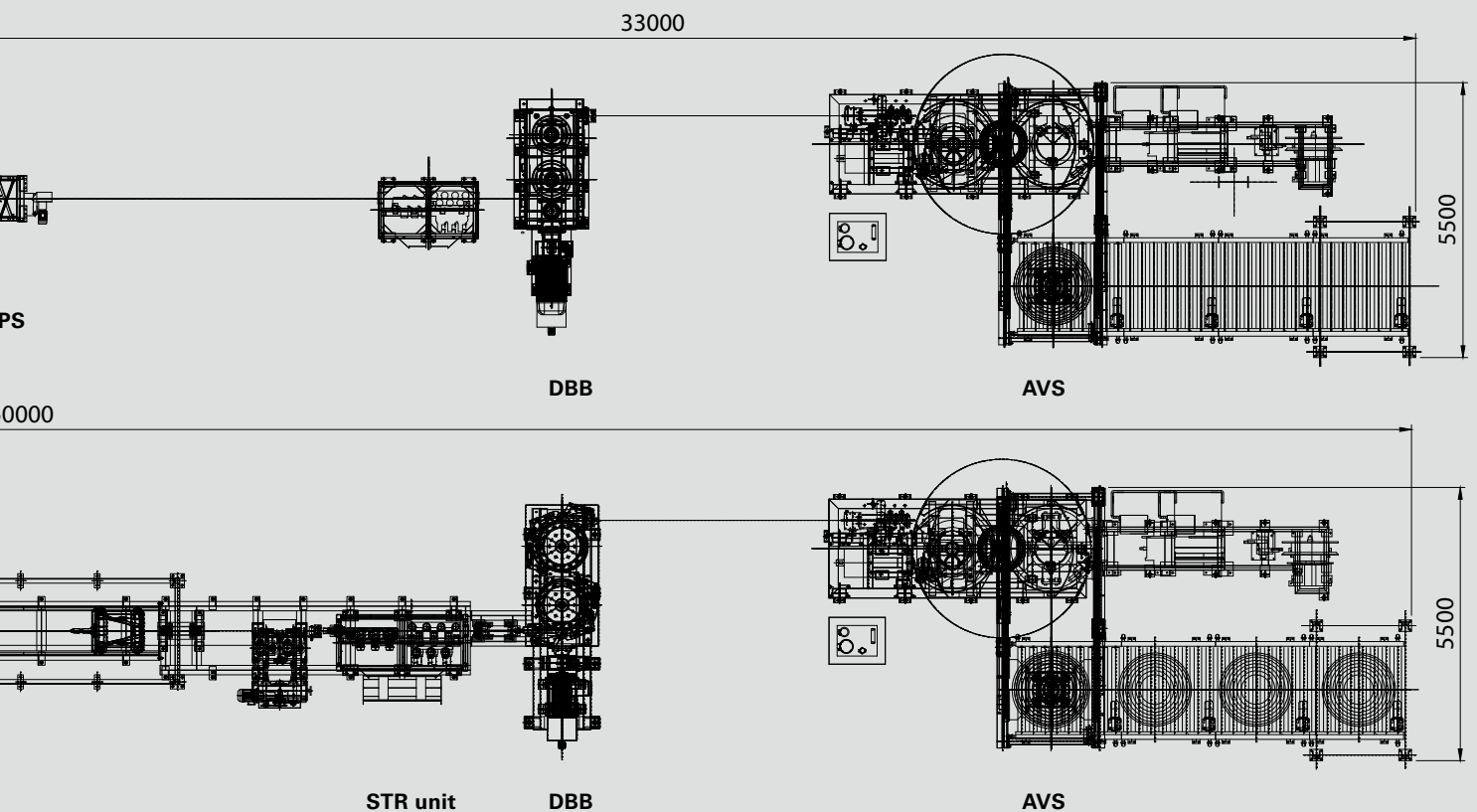
STR Line

The STR lines produce compact strapped coils, layer to layer, with wire diameters ranging from 6 mm to 25 mm and coil weights ranging from 2.5 tons to 8 tons. The compact coils are packed in fully automatic spoolers, where different options such as automatic strapping, labelling, weighing, sample taking or coil evacuation are integrated.

The STR lines mainly produce stretched/respoiled compact coils of classes 500 B or 500 C according to all updated European and worldwide standards. When upgraded for cold-rolling processes, reinforcing material of class 500 A can also be produced on the same line.



Video





Vertical VPS Pay-Off System

The vertical VPS pay-off system is used for uncoiling wire rod coils with diameters ranging from 5.5 mm to 16 mm and ensures continuous feeding of the line.

VPS Module

It is composed of two tilting fingers, where the wire rod coils are loaded in sequence, and a pay-off tower with sufficient height to guarantee high-speed wire uncoiling without tangles.



Video





HPS Horizontal Pay-Off System

The horizontal HPS pay-off system is used for the automatic uncoiling of wire wild coils with diameters from 10 mm to 25 mm.

HPS Module

The long supporting structure hanging on three clamps activated by electrical gear motors can hold up to a maximum of 5 coils of 3 tons each (total capacity 15 tons).

The HPS guarantees sufficient time for welding head-to-tail coils without having to interrupt the pay-off process. A special butt-welding machine is normally positioned at the entry side for welding low-carbon steel wire with diameters between 10 and 25 mm.



Video





STR Stretching Unit

The innovative STR stretching unit performs the stretching process, adjusting the mechanical characteristics in order to obtain high ductility/high resistance reinforcing steel wire for standard and seismic application.

STR Module

The STR unit is composed of innovative and robust stretching panels inclined at 90° with idle tungsten carbide rolls adjustable by means of precise electric motors. The unit is completely closed by means of front operable doors and includes scale and dust evacuation systems.



Video





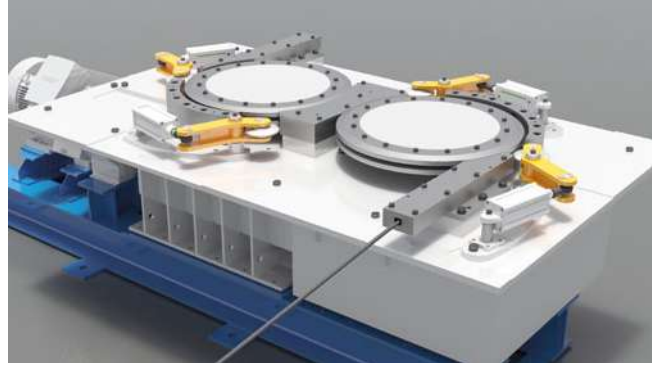
MDSTR Descaling / Stretching Device

The descaling / stretching device consists of special panels with a series of tungsten carbide rolls that withstand high speeds and stress.

MDSTR Module

This device is configured automatically from the control pulpit according to the wire diameter and mechanical characteristics to be produced.





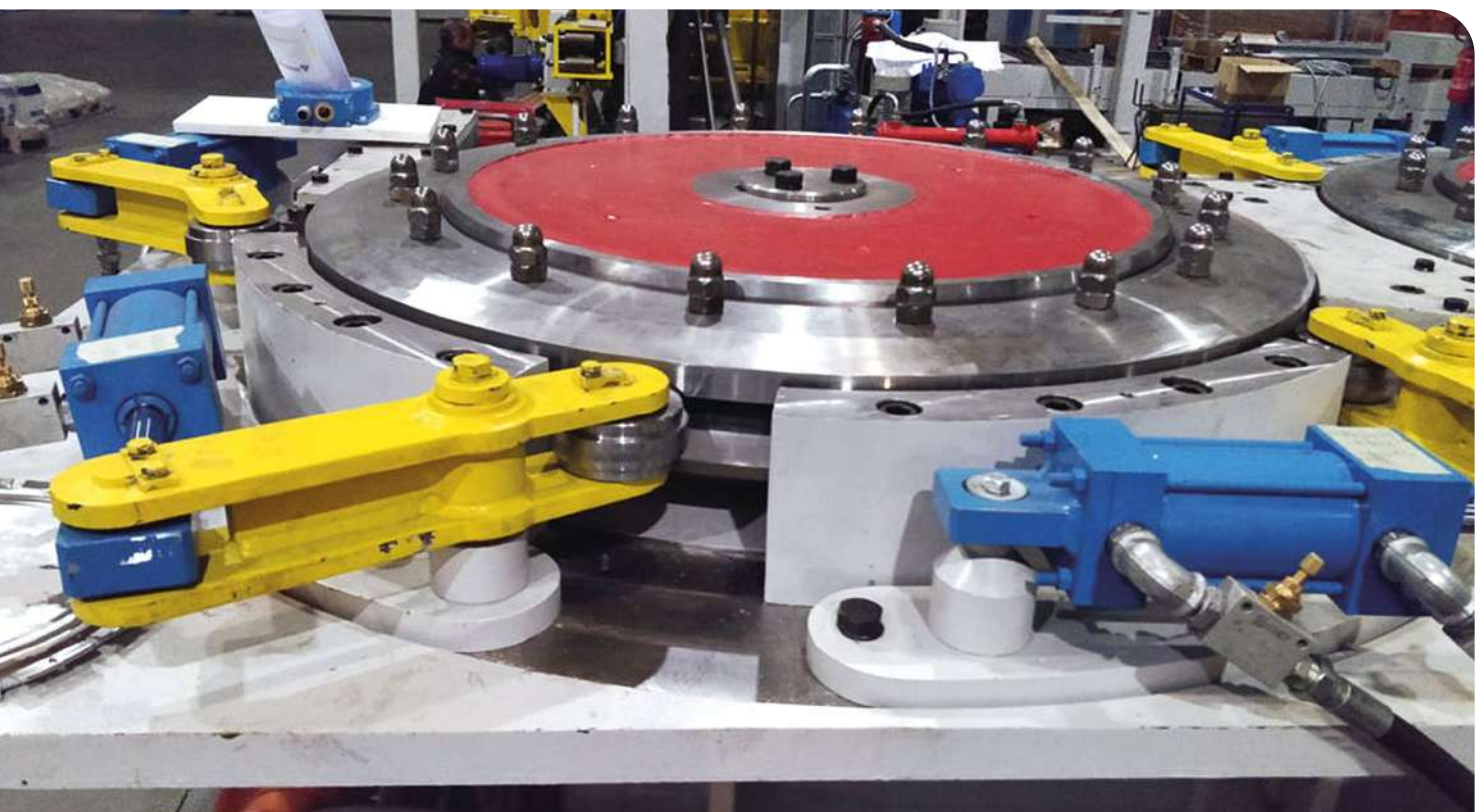
DBB Double Bull Block

The DBB double bull block pulls the reinforcing wire through two special capstans with V-shaped grooves.

DBB Module

The capstans are installed in two vertical and parallel axes, pulling the wire in an S curve form so as not to overlap the inlet with the outlet of the wire.

The DBB block is composed of a robust gear box connected directly to an AC motor by means of an elastic joint.





HS Horizontal Spooler

The horizontal HS spooler performs the spooling of wire on fixed or collapsible spools.

HS Module

It is composed of a robust structure and closed with a sliding door. The spools are held in a horizontal position by two centre pins, one moves axially by means of a hydraulic actuator and the other rotates driven by an AC motor.

The horizontal spooler includes a mobile platform and an extraction device to facilitate the movements of the empty or filled spools within the spooler.



Video



AVS Automatic Vertical Spooler

The most advanced fully automatic AVS spooler spools steel wire on collapsible spools while at the same time automatically packing strapped compact coils in a regular format, layer to layer.

AVS Module

It does not require any operator, since all the coiling, strapping/weighing/labelling operations and the evacuation of the compact coils are performed automatically and in less than two minutes of line downtime. The automatic AVS spooler is composed of a robust structure with a circular two-position platform.

In the first position, the collapsible spools are automatically loaded/unloaded, strapped/labelled/weighed and opened/closed, while wire winding, tail/point clamping and automatic sample taking take place in the second position.



Video





The automatic AVS spooler is supplied with two special automatic collapsible spools and can produce strapped compact coils with weights between 2 and 8 tons and wire diameters between 4 and 25 mm. The special overhead crane manipulator and roll/chain conveyer can be configured according to the customer's plant layout.

The automatic AVS spooler can also be used for coiling wire in fixed spools, and they are loaded/unloaded completely automatically.

Automatic WSL Weighing / Strapping / Labelling Systems

The automatic system for tying and packaging compact coils includes weighing cells, an automatic strapping machine and labelling / printing devices. Normally, this system is used in combination with an automatic spooler and can also be supplied separately.

Automatic SEH Spool / Coil evacuation and Handling System

The automatic coil / spool evacuation and handling devices normally added to automatic spoolers include tailor-made overhead cranes and roll / chain conveyers. The capacity and number of roll / chain conveyers depends on the plant layout.



A reliable partner in plant construction

The Schlatter Group is a world leader in plant manufacturing for resistance welding systems for specialized solution in the field as well as weaving and finishing machines for paper machine clothing, wire and mesh. With our long-standing expertise in industrial engineering, our spirit of innovation and our reliable customer service we offer our customers high-performance and high-quality manufacturing systems.



Experience in plant design

The combined competence in the fields of welding, weaving and industrial engineering makes the publicly listed Swiss Schlatter Group a secure title in plant engineering.

Welding segment

We develop and build resistance welding systems for the production of industrial and reinforcing mesh as well as rail welding.

Wire production

The innovative cold-rolling, drawing and stretching technology sets new standards in terms of safety, reliability and efficiency in the production of wire.

Weaving segment

We build weaving and finishing machines for paper machine clothing, as well as wire fabric and mesh under our Jäger brand.

Customer service

Our goal is to increase our customers' productivity and to extend their systems' service life.

Contact

Professional contacts for sales, technical support, customer service and administration are available worldwide in the group's companies and at select representatives/agents of the Schlatter Group. You can find the relevant contact data on our internet site www.schlattergroup.com.

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