

Ready for a new level?

The latest mesh welding machines for highly flexible
and productive reinforcement mesh production



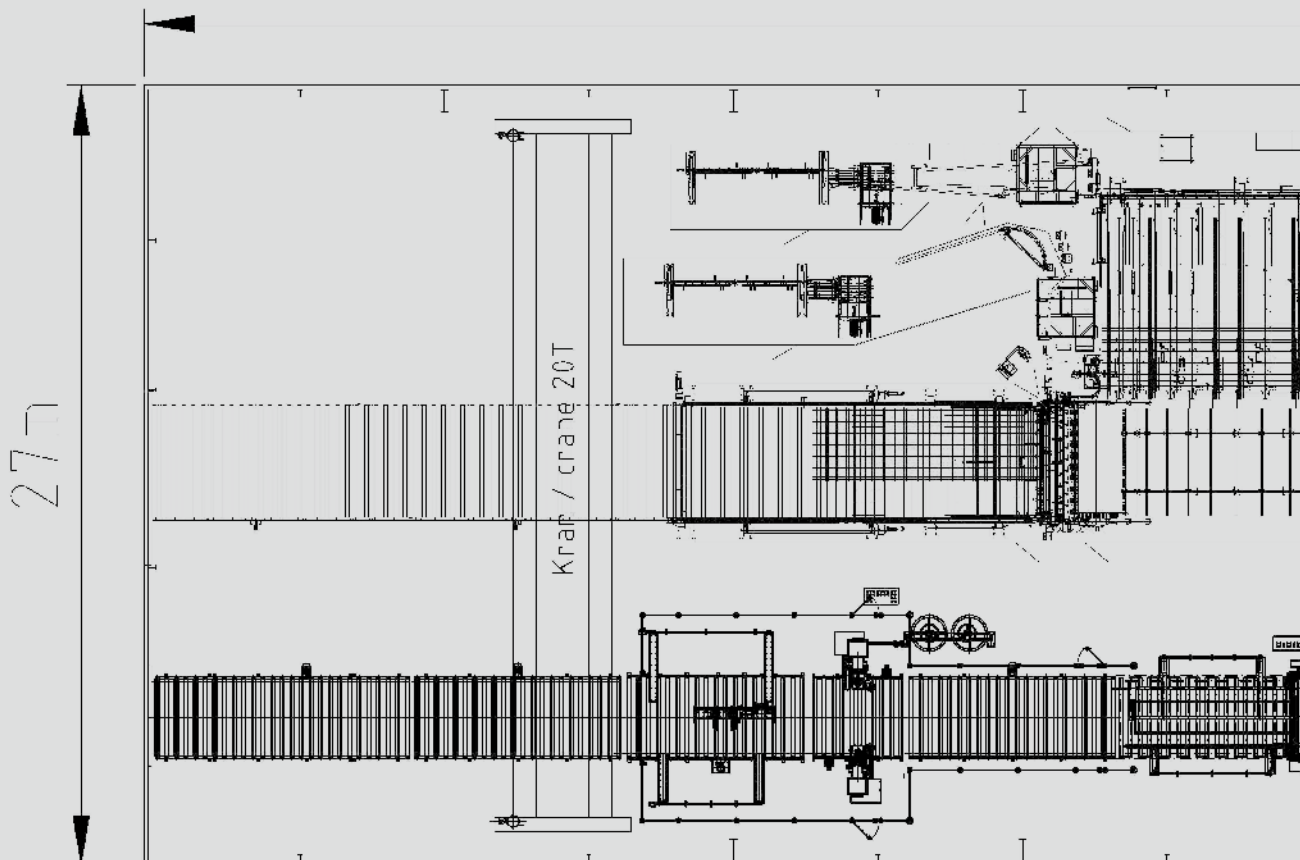
Systems MG316 and MG800: Production of reinforcement mesh on a new level

This system concept takes reinforcement mesh production to a whole new level of efficiency with only limited machinery, a small footprint, low personnel costs and low warehouse inventory.

80-100,000 tons with only two mesh welding machines

Schlatter is taking mesh production to a new level. An annual production of 80-100,000 tons is achieved with just two mesh welding machines – all while manufacturing countless different varieties of mesh with many different wire diameters.

How? – By using the MG316 optimised, heavy duty mesh welding machine and the newly developed, highly flexible yet powerful MG800 mesh welding machine. This combination allows for flexible production planning while keeping conversion costs low.



Limited machinery required

This “new level” concept will revolutionise conventional mesh production.

Now, the production volume that would normally require 4 to 5 machines can be achieved using just two mesh welding units. By drastically cutting down on the retooling and coil change times, the effective production time of the machines is increased by up to 50%.

Low personnel costs and small footprint

Fewer machines means less manpower, lower maintenance and energy costs. At the same time, there's a significant reduction in the space requirements and spares inventory, which ties up capital.

System MG316

The MG316 makes the manufacture of mass products highly efficient, processing speeds up to 200 cross wires per minute. This welding machine is equipped with direct welding groups, achieves a high level of production quality and requires no retooling in the welding portal area.

System MG800

Mesh orders at short notice are no longer a problem. The new, highly flexible MG800 can change mesh types with a maximum downtime of just 30 seconds. Nevertheless, there is no need to compromise on production output. At 150 cross wires per minute, the MG800 operates within the production range of a standard mesh welding machine.

Low warehouse inventory

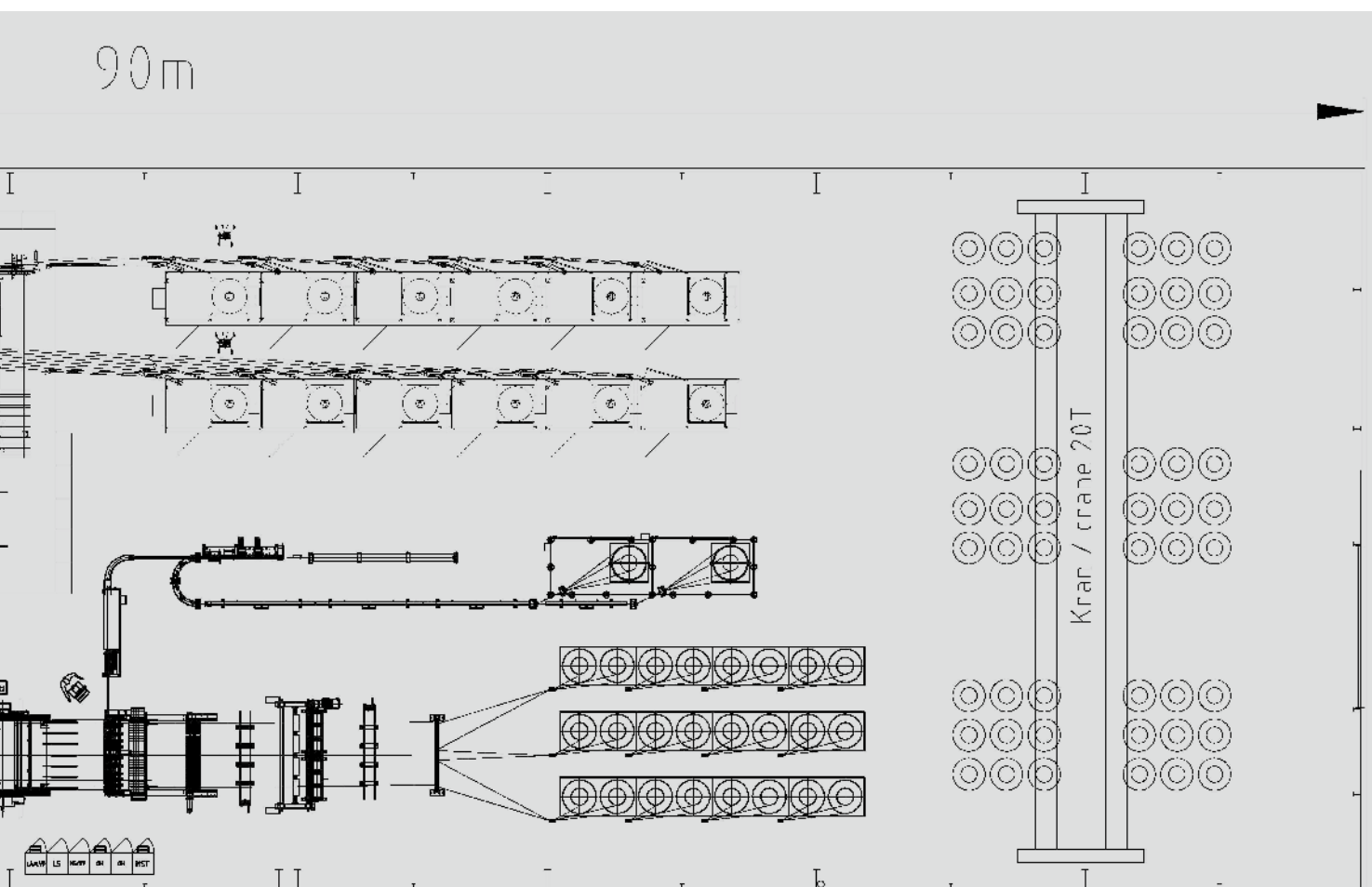
The system's flexibility drastically reduces the storage capacity required, which allows for lower net working capital (NWC) and storage space.

In addition, the procurement risk resulting from fluctuating steel prices is also made easier to manage.

Your advantages

- Less machinery
- Less space
- Lower labour cost
- Lower inventory
- Higher production flexibility

MG800 and MG316 factory layout





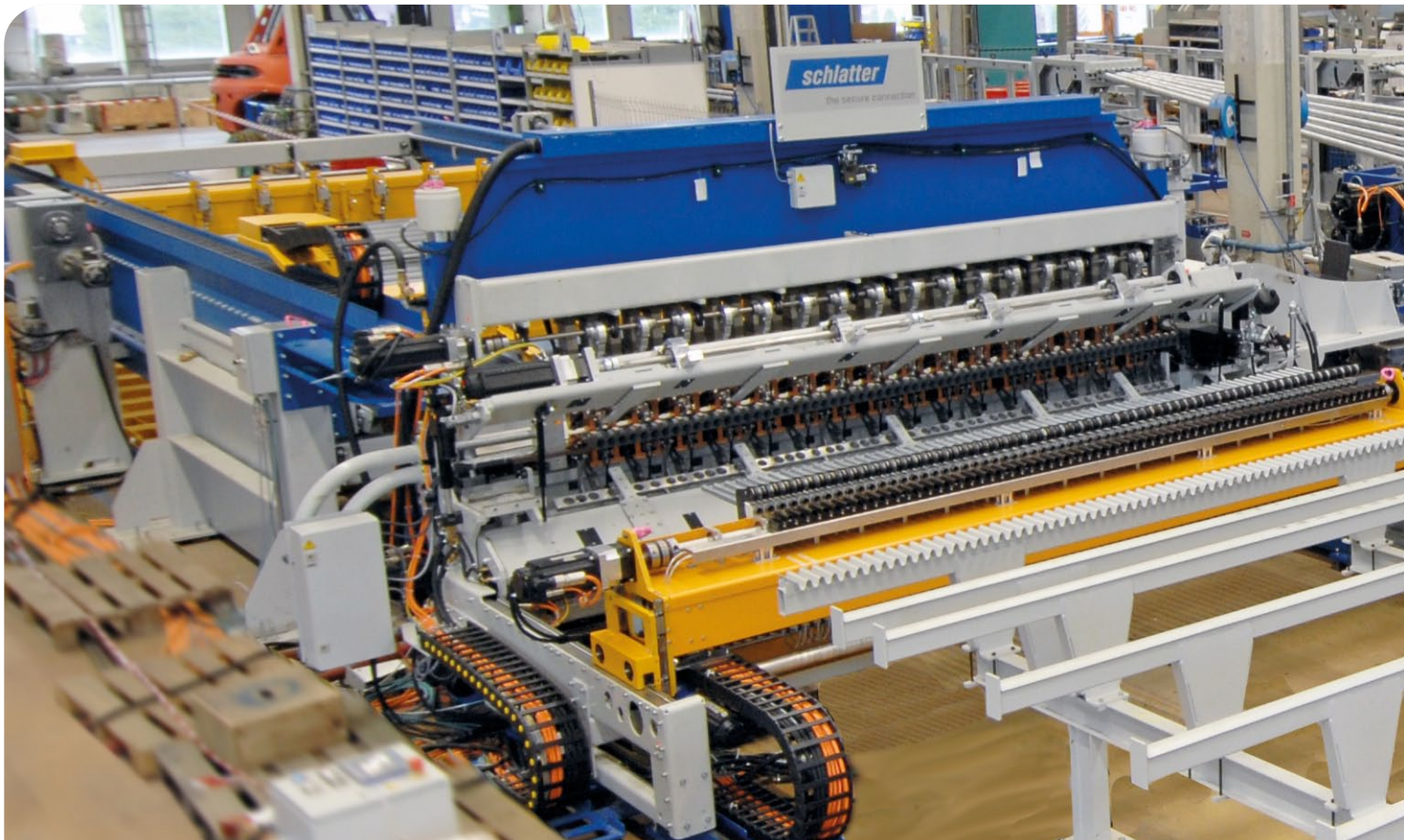
Straightening and cutting machine MRM

System MG800 for highly flexible and productive reinforcement mesh production

The MG800 is a mesh welding machine designed to be used wherever highly flexible and highly productive reinforcement mesh manufacture is required. This new machine concept raises the bar; to run reinforcement mesh production efficiently with less machinery, less space, low labour costs and low inventories.



Video MG800





Chain transfer for the line wires

High productivity

- High speed straightening and cutting machine (9m/s)
- High speed welding at 150 cross wires per minute
- No down time for welding machine between meshes
- Change over of wire diameter within 30 seconds
- No down time by changing the mesh geometry with unchanged wire diameter
- 30 seconds down time for coil changes if the same diameter is set up at two payoffs

High flexibility

- Line wire spacing in multiples of 50mm
- Cross wire from above and below, no turner needed
- Up to 6 different diameters for line and cross wire

High mesh quality

- High quality straightening and cutting machine
- Influence of wire twist eliminated

Product characteristics

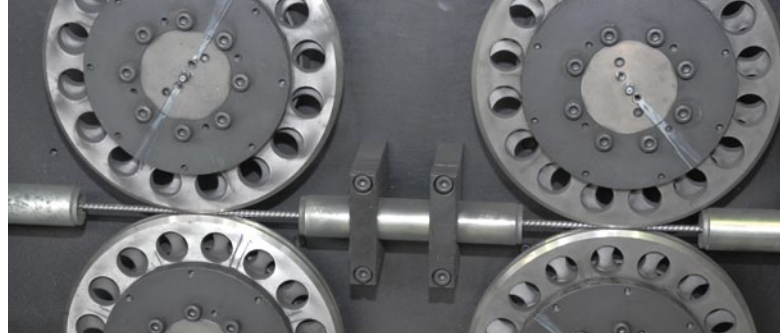
- Mesh width 500- 3700 mm
- Mesh length 1000- 12000 mm
- Wire diameter 5,0- 13,0 mm or 3,0- 10,0 mm
- Line wire spacing min. 50 mm

Options

- Automatic tying device
- Automatic mesh package stacker

System MG800

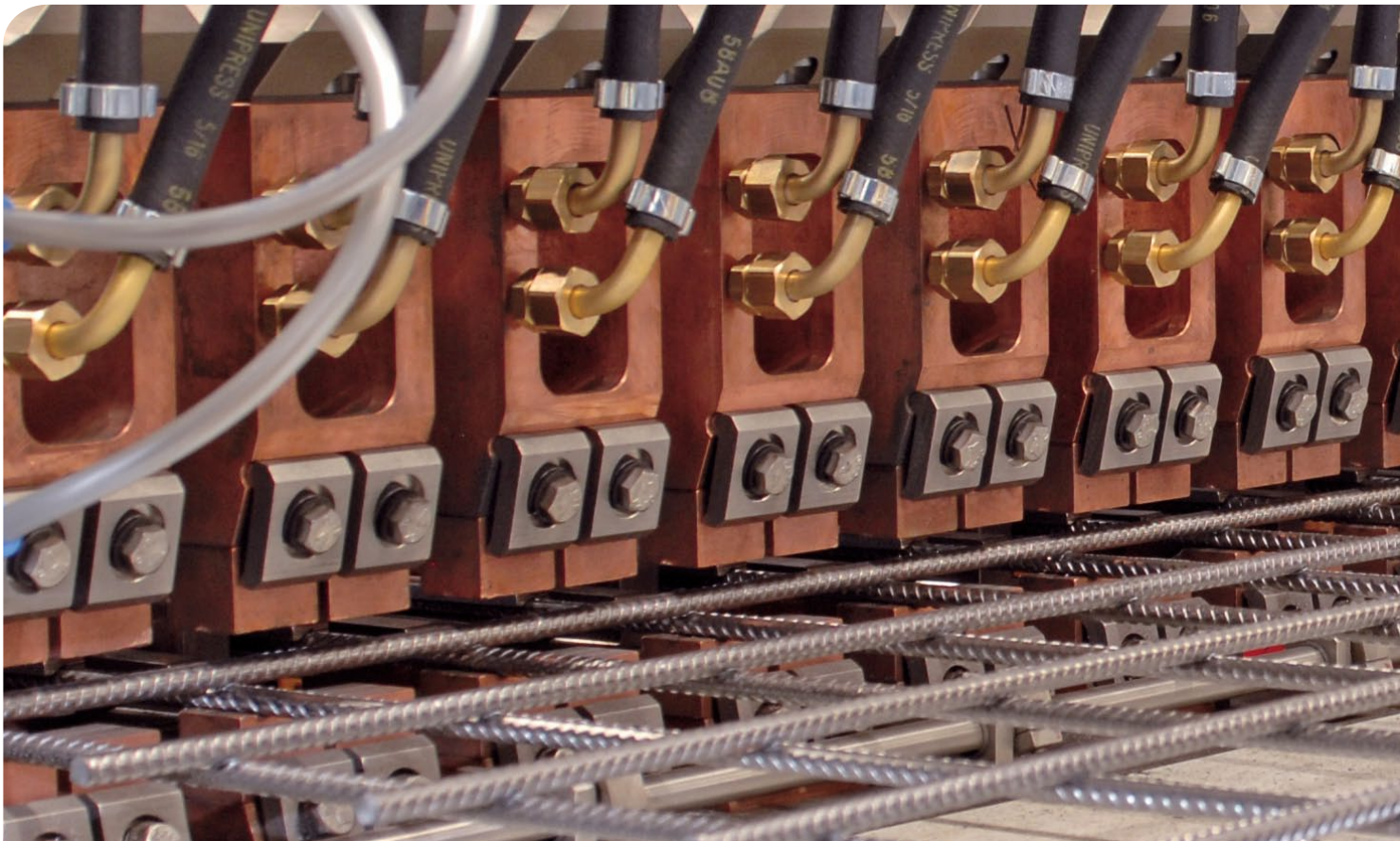




Roller pull-in element

The mesh welding system MG316 is now even more powerful and efficient

The new MG316 is designed to manufacture reinforcement mesh in sheets and rolls, as well as mine mesh efficiently. For this type of production, the machine concept is characterized by very high productivity, low operating costs and simple operation.





Cross wire feed with gripper

System MG316

The MG316 works with a powerful line wire feed-in device and highly efficient straightening and cutting machine for the cross wire. The cross wire is inserted over or under the line wires using an optimised method. This way, production speeds up to 200 cross wire per minute can be achieved easily.

Since the cross wire is fed over or under the line wires, there is no need for a turning process. Among other benefits, this has a positive effect on the production output for short panels.

The design of the new welding machine with single welding groups in the permanent structure of 50 mm line wire grids does not only greatly reduce the system's retooling times, it also improves the welding quality thanks to the use of direct welding technology.

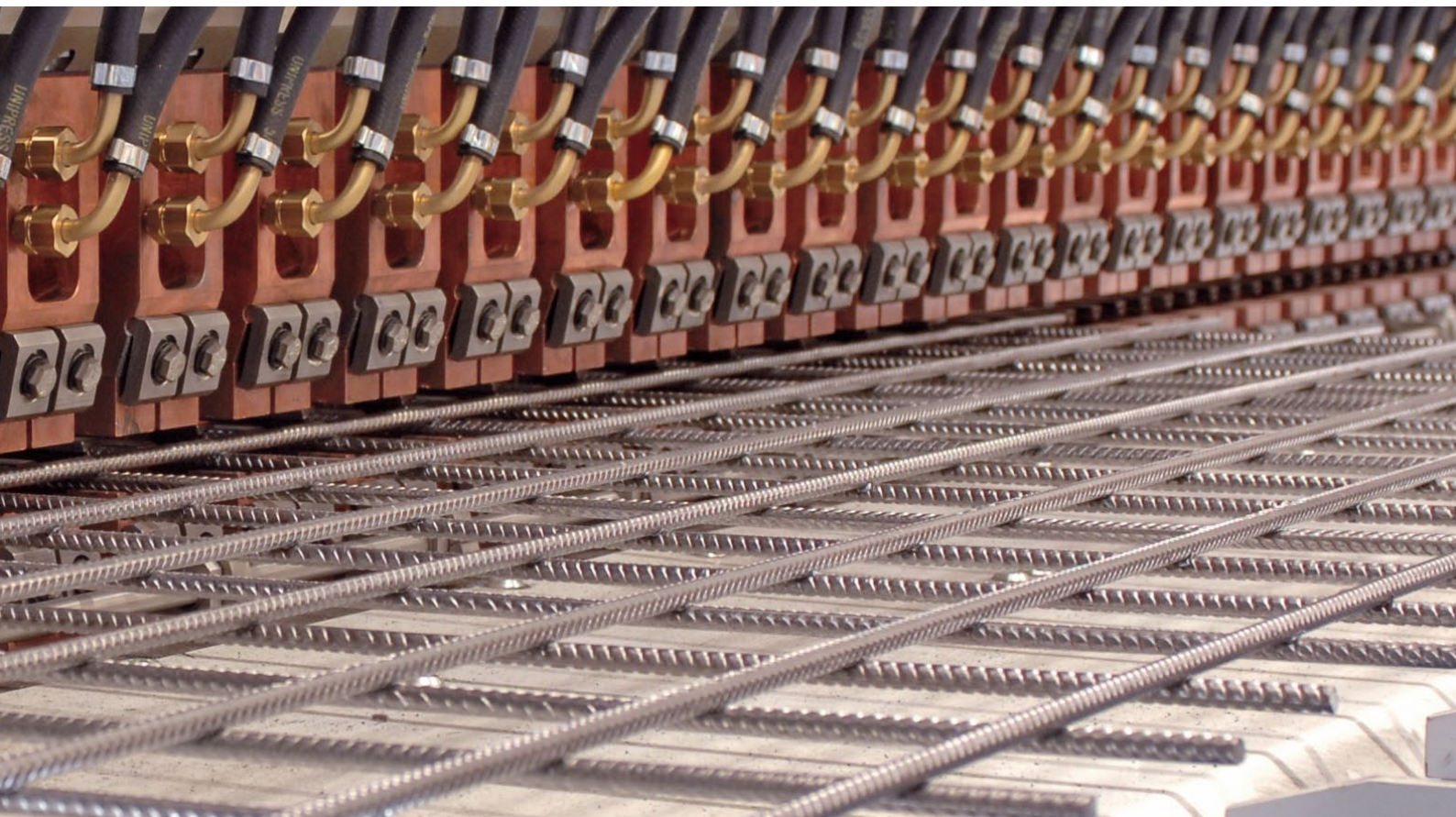
Like the MG800, the MG316 also boasts great ease of access and sturdy construction, which contributes to lower maintenance and repair costs.

With a wide selection of add-on modules to choose from, these models can be adjusted to meet a variety of needs and allow you to gradually expand the degree of automation.

Product characteristics

- Higher total productivity
- Higher production speed. Up to 200 cross wires per minute
- Reduced set-up times
- Performance improvement in short mesh
- The latest drive technology with environmentally friendly current regeneration
- Cross wire feeding from above or below
- Modular system allows an optimization of the machine configuration to your production requirements

Welding portal with single welding groups



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.

Segment resistance welding

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

Weaving segment

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

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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