

**Welding systems for standard and engineered mesh
System MG215 and MG230 Superflex**





Welding of heavy line and cross wires

Economic production of reinforcement mesh – in small batch sizes

The Schlatter welding systems MG215 and MG230 Superflex are designed for the efficient production of simple and complex reinforcement meshes (standard and engineered meshes) in small and large batch sizes from cold and hot-rolled material. The systems are distinguished by high availability, user friendliness and easy maintenance. A large selection of extra modules means they can be adapted to different requirements, while allowing a modular setup of the automation level.



Everything from a single source

The MG215 and MG230 Superflex systems enable the production of reinforcement meshes with different geometries in small and large batch sizes at competitive prices. Thanks to the modular extension options, the systems can be used in both up-and-coming and established markets.

It is not unusual for an MG215 or MG230 project to result in a complete factory, planned, installed and finally handed over to the customer by Schlatter as a turn-key system.

Depending on your investment options and the required degree of automation, Schlatter offers a complete solution from a single source – from a simple system through to a fully-automated plant.

The modular principle behind these systems also allows customers to start with a cost-effective and simple yet extendible system. The wide range of extra modules and options guarantees extension up to an automatic production system with minimum need for personnel. The choice of various cross wire feeds allows for the implementation of system concepts with extremely short set-up times and high working speeds.



Extendibility with modular principle

The right concept for individual requirements: The modular structure of the Schlatter welding systems lets you start with minimum investment costs. Then allowing you to convert or extend your plant in line with requirements.

System MG215

Welding machines of the MG215 system are set up with permanently installed welding presses in a predetermined pattern. Within the selected grid, the mesh geometry can be entered easily at the control unit or called up from a database.

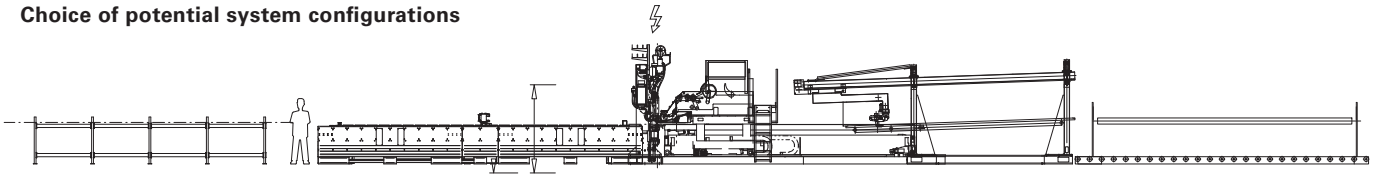
All materials used in the reinforcement mesh industry can be processed with the systems. Meshes can be produced with any number of different cross wire distances using the programmable mesh linear extraction. This opens up further opportunities when it comes to flexible machining in the reinforcement mesh market, in particular in the area of special meshes.

System MG230 Superflex

Welding machines of the MG230 Superflex system are equipped with powered infinitely adjustable compact welding groups, which automatically adjust to the geometry of the following reinforcement mesh.

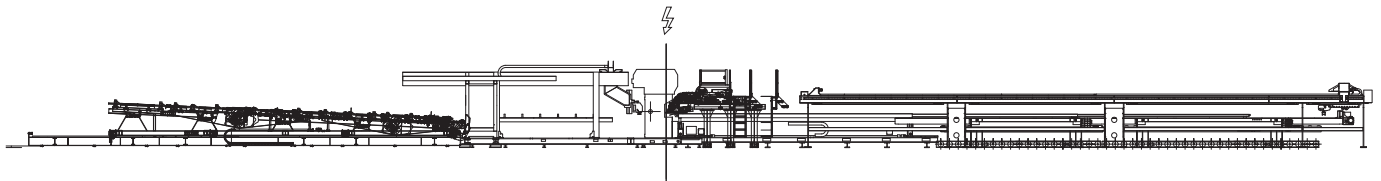
The welding current control SWEP developed by Schlatter guarantees uniform and consistent welding quality. The processes for the entire system are controlled by the process control system PLS Win. This control system is operated via a Windows interface and also provides interfaces for computer-assisted work preparation.

Choice of potential system configurations



MG215

Manual line wire feed; welding machine with fixed welding presses; mesh roller extraction; mesh stacking unit with linear insertion



MG230 Superflex

Semi-automatic line wire feed with vibration table and linear feed for line wires; welding machine with powered adjustable presses; servo line wire feed; mesh pull-out; mesh stacking unit



Product features

MG215 and MG230 Superflex are flexible mesh welding systems for the economic production of simple and complex reinforcement meshes (standard and engineered mesh) in small and large batch sizes.

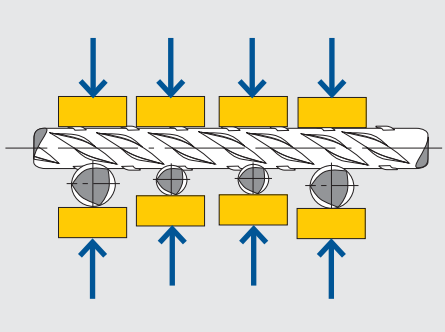
Extendible level of automation

The line and cross wires are aligned and transported to the system after being cut to length. The line wires are fed in via manual or semi-automatic feeding systems. An automatic line wire loading

with robotic grippers can be used for larger series. Depending on the equipment, the production of meshes with longitudinally offset line wires as well as dual-wire meshes is possible.

	MG215	MG230 Superflex
Mesh widths / Spacing of outermost line wires	2500 / 2350 mm 2900 / 2750 mm 3300 / 3150 mm 3700 / 3550 mm	2500 / 2400 mm 2900 / 2800 mm 3300 / 3200 mm 3700 / 3600 mm
Mesh lengths	1,8 – 14 m	1,8 – 14 m
Line wire division	min. 50 mm, in fixed pattern	min. 50 mm, infinite beyond
Cross wire division, infinite beyond	min. 50 mm	min. 50 mm
Line wire diameter	6,0 – 16,0 mm	6,0 – 25,0 mm
Cross wire diameter	6,0 – 16,0 mm	6,0 – 16,0 mm
Cross wire cycle time / Min.	100	100
Mesh transport	Mesh linear pull-out	Mesh linear pull-out

Further dimensions on request



Vertically-floating suspended welding presses ensure a reproducible weld quality

Wire material

- Cold-rolled, smooth or ribbed wire
- Hot-rolled wire with cooling and tempering process directly after rolling (Tempcore), ribbed
- Hot-rolled wire, micro-alloyed, ribbed
- Hot-rolled and subsequently stretched wire, ribbed

Depending on the automation required, the straightening and cutting system Syrocut can be integrated.



Designed with changing needs in mind

Schlatter offers a wide range of extra modules, which can usually also be integrated in existing systems later on. The following options represent a selection of our range for the MG215 and MG230 Superflex systems. We would be pleased to advise you in person if you require customized extensions.





Cross wire magazine
For dual-track mesh production



Cross wire dual-magazine
For two different wire diameters within the same reinforcement mesh



Position-accurate line wire provision
Directly from the coil, spool or reel after integration of the straightening and cutting unit system Syrocut



Longitudinal chain table
For feeding the wires transversely



Line wire vibration table
For wire-bundle distribution

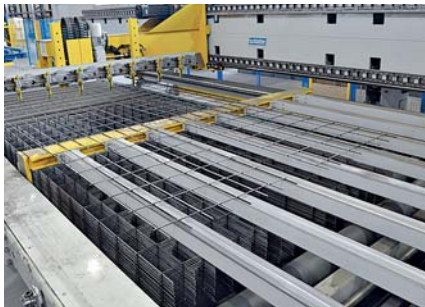


Line wire picker
For automatic loading



Individual line wire cutter

For economic production of short reinforcement meshes



Mesh stacker

For stacking lightweight and heavy meshes; the precise stacking enables automatic further processing, if required



Automatic mesh turning and stacking unit

To save transport costs, the meshes are partially turned and stacked



Automatic binding unit

The automatic binding of the mesh stack makes the production process more efficient



Mesh package stacker

The mesh package stacker speeds up and automates the logistics at the end of the production process

Investment certainty through long-term support

The aim of our work is to increase the productivity of our customers and extend the service life of their systems. Our customer service will therefore continue to provide support after your system has been commissioned. We shall be pleased to arrange a personal discussion and work out a service package customised to your requirements.

Helpdesk

Our multilingual Helpdesk team is available – by phone or via the Internet – to answer general technical questions and provide troubleshooting help for faults or malfunctions in your production system.

Field Service

For rapid on-site help, our Field Service experts offer professional support worldwide.

Repair Service

Schlatter has its own workshop where they can carry out repairs and overhauls to your control units and mechanical components.

Spare Parts Service

Our warehouse with over 15 000 spare parts and efficient logistics ensures a high availability and a rapid replacement of system components.

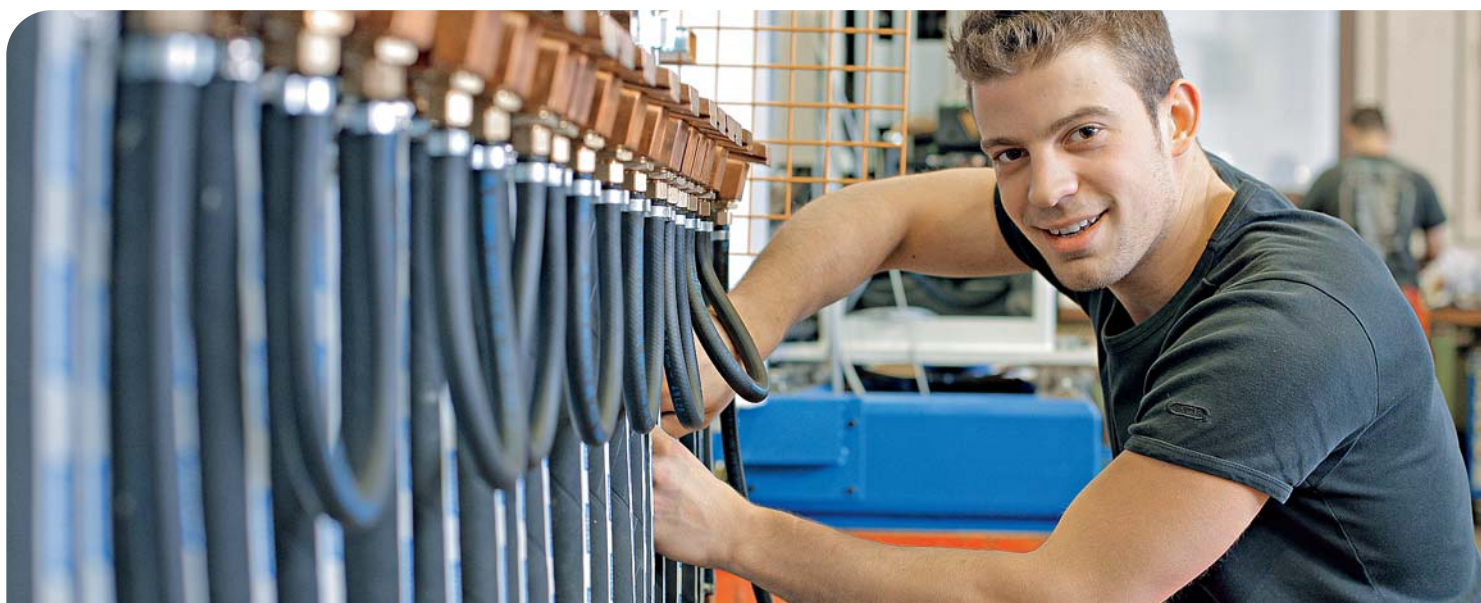
Training

We offer standardised courses as well as individual training measures in our welding laboratory at our training facilities in Schlieren (CH) or at your production site,

Direct contact with our customer service

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A reliable partner in plant construction

The Schlatter group is a world leader in plant manufacturing for resistance welding systems and weaving machines for special applications. With longstanding expertise in industrial engineering, innovative flair and a reliable customer service, the company group listed in Switzerland provides production systems offering high performance and quality.



Core competence

Schlatter has almost 100 years of expertise in plant construction, customer-oriented solutions, a world-wide presence and more than 500 dedicated employees. The combination of expertise in welding and systems technology makes Schlatter a reliable partner in plant construction.

Segment resistance welding

Schlatter has acquired unique experience in the development and production of reinforcing and industrial mesh welding systems, mobile and stationary rail welding machines as well as systems for manufacturing radiators.

Weaving segment

Under the brand Jäger, the Schlatter Group provides state-of-the-art weaving and finishing machines for the paper machine fabric industry.

Contact

Professional contacts for sales, technical support, customer service and administration are available world-wide 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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