

Special Machines for the Electrical Industry





Loop winding machines

Fully-automatic, semi-automatic, and manual versions available. Our modular design offers an economic adaption to your particular production process. Contact us to facilitate your loop winding.

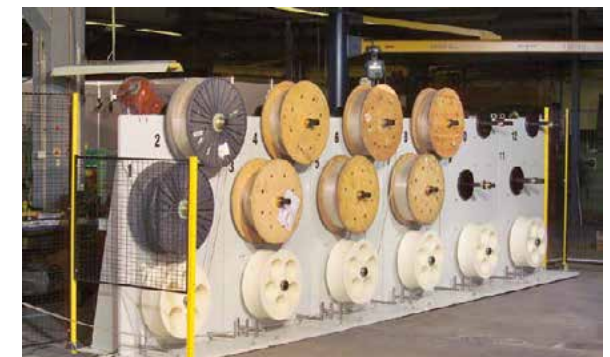


Loop Winding Machine „Selekta 245“



Loop Winding Machine „Selekta 245“

- suitable for all kind of loops
- equipped with up to 20 de-reeling stations
- automatic lead stripping
- automatic conductor bundle taping process
- automatic conductor cutting



Different de-reelers according to your demand

De-Reelers with Program Controlled Electric or Pneumatic Brakes for high quality loops.

Coil forming machines



Automatic Coil Forming Machine model „2030“

for servo-hydraulic spreading and forming of closed, diamond shaped coils up to 2.500 sqmm cross section.



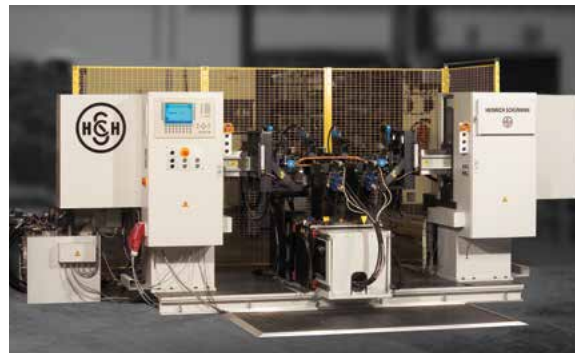
Automatic Heavy Coil Forming Machine model „2017“

for spreading and forming of closed, diamond shaped coils. Automatic setting of the machine according to your coil data. For loop length up to 6.000 mm



Automatic Coil Forming Machine model „2015“

for closed, diamond shaped high tension coils up to 2.000 mm straight portion. Standard machine for conventional loop coils and flat coil technology.



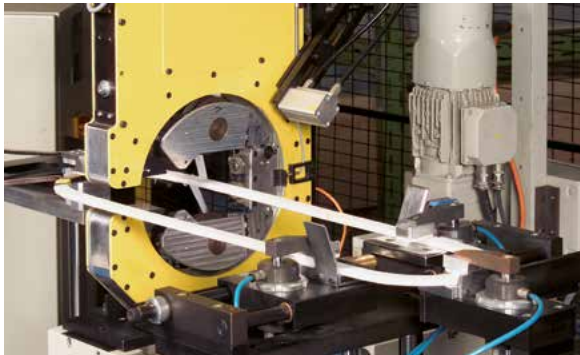
Automatic Coil Forming Machine model „2012“

for traction coils and small coils of highest accuracy.

For more than 50 years we have been producing hydraulic coil spreading and forming machines for loop lengths between 500 mm and 6.000 mm. More than 150 machines serve our clients world-wide. Many special versions have been developed to meet our clients' particular requirements. Please do not hesitate to contact us for any coil forming problem you might have.

Insulating machines

Both the semi-automatic and fully-automatic Schümann machines insulate coils and bars up to a length of 15.000 mm. We are ready to develop custom designs to meet your specific requirements.



Automatic insulating machine model „640“
for „Flat Coil“ Technology



Taping Robot model „670“
for taping closed, diamond shaped coils and bars up to 2.800 mm length



Taping Robot model „672“
for taping closed, diamond shaped coils and bars up to 15.000 mm length



Taping Robot model „675“
for bars up to 15.000 mm length



Our Taping Heads
For complete taping of bars, closed, diamond shaped coils including involutes and both coil noses, i.e. lead side and non-lead side. All your requirements can be fulfilled, with our wide variety of taping heads.

Coil presses

Fully automatic, PLC controlled coil presses for precise pressing of coils and bars of electrical machines.

Press heads of different sizes, variable horizontal and vertical pressing forces, programmable sequences of pressure, temperature, time and cooling cycles.

A kneading process in combination with precisely machined press bars equipped with special tubular heating elements.

Our technology ensures coils of highest accuracy and with the best insulation values.



Hydraulic Coil Press model „459“

Press box opening	66 x 124 mm
Press force per unit	horizontal 180.000 N vertical 70.000 N



Hydraulic Coil Press model „460“

Press box opening	66 x 220 mm
Press force per unit	horizontal 250.000 N vertical 80.000 N



Hydraulic Coil Press model „461“

Press box opening	170 x 198 mm
Press force per unit	horizontal 280.000 N vertical 140.000 N



Hydraulic Coil Press model „462“

Press box opening	120 x 220 mm
Press force per unit	horizontal 280.000 N vertical 140.000 N



Hydraulic Coil Press model „470“

for an economic pre-consolidation and two movable press boxes

Special designs for your particular requirements available.

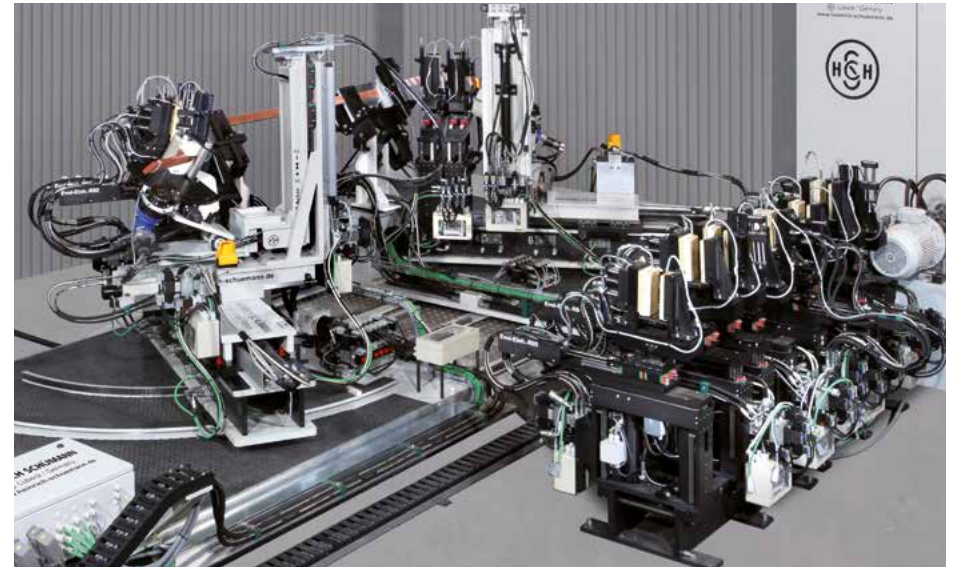
Bar bending machines

For bending your bars to the correct shape.

- Automatic forming
- Extremely short cycle time down to 4 minutes
- Suitable for hollow conductors

Optional

- heating for pre-consolidation of the involutes
 - hydraulic cutting station
 - brazing station
 - 3D measuring systems
-
- Machines for producing bars with straight and roebelled conductors



Model „7000“ and „7100“ for U- and Z-shape hydrobars



Model „8000“ and „8500“ for U- and Z-shape hydrobars and turbobars

Machines for other applications



Bar Insulating Machine model „630“

for semi-automatic taping of bars



VHM model „155“

for automatic magnetizing and assembly of rotor and stator



Bandaging Machines

for bandaging of rotors or for layer winding of large transformers

Torque	up to 32.000 Nm
Max. load between centres	up to 20.000 kg



Universal Winding Machines

Universal machine for insertion coils, armature and field coils. Equipped with automatic layer winding system for winding transformer coils.

Fulfilling your requirements on any kind of machines!

Tailor made solutions are our speciality.
Please feel free to contact us!

Heinrich Schümann

Our company was established in 1920 as a work shop for the repair of electric motors and transformers. The expertise in this field and the trustful co-operation with the electrical industry led to the development and manufacture of winding machines and special equipment for the production of transformers and electrical machines.

Where to find us

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