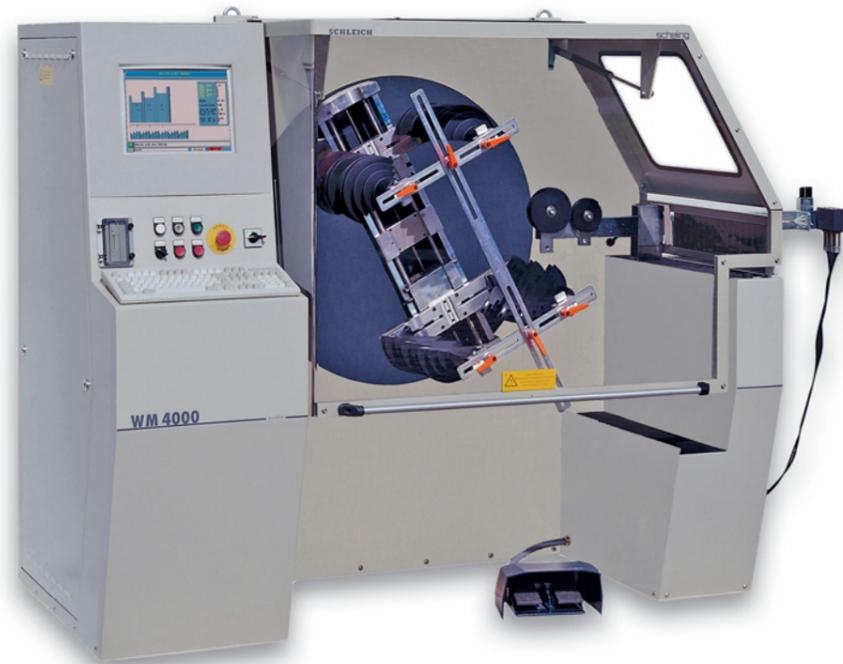


Winding Machines



Large winding machine WM 5000

WM 2000

Highlights

- for repairing electric motors
- for series production
- for large electric motors
- customer-specific special winders
- single-spindle winders and dual-spindle winders
- flyer winders

Our winding machines are used for producing and repairing motors from size 56 to size 450. Our product range also comprises machines for manufacturing wind-power generators.

Since our winding machines are PC-controlled, even users without special knowledge are able to work with the machines safely. The integrated motor database allows to store all winding data like dimensions of the coil, number of turns, diameter of wire, r.p.m., etc. Motors that are stored can be searched and loaded very fast. The machine automatically adapts to the new winding electrically and mechanically.

A great number of standard and special formers is available for many different winding tasks and coil forms.

At the beginning of the winding process, the formers are installed in the machine. This is followed by an automatic, electric motor-driven adjustment of the distance between the formers.

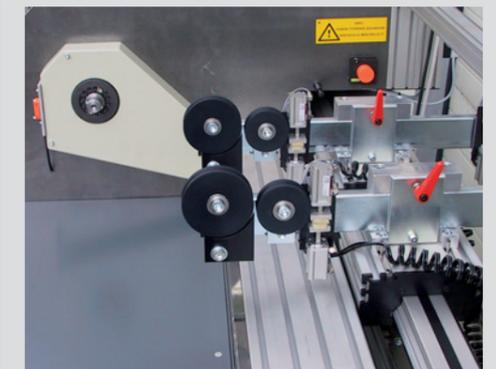
The winding process, that is performed automatically, produces optimum non-crossing coils, which can be inserted into the motor very fast.



Two-spindle winding machine WM 3003



WM 2000



Layering arms in WM 2000



WM 3000

Data of the standard machines

coil diameter	from 50mm to 2000mm
wire diameter	from 1 x 0.07mm to 100 x 1.5mm
wire control	from 4x to 48x as standard, extendable
RPM	stepless from 10 to 1000 RPM
torque	up to 4500Nm
supply voltage	230V or 400V 50Hz or according to customer's specification
special machines	on request

Refer to:

GLP1-e HV	22
GLP2-e ce up to 100kV	30
MotorAnalyzer	46
MTC2	48
MTC3 stator testers	50
Bonding machines	56