


## Automatic Winding Machine WM 4500

 Made in Germany

Designed for use in series production and rewinding of electric motors and coils

- shortest setup times
- very simple data entry
- optimized ergonomic handling
- wide range of winding possibilities

# Technical Data Automatic Winding Machine WM 4500

## Performance data

- Winding speed ..... 10 – 200 min<sup>-1</sup> infinitely variable
- Rated winding torque ..... 330 Nm at speed 10 min<sup>-1</sup> to 80 min<sup>-1</sup>, then decreasing linearly to 1/3
- Peak winding torque ..... 600 Nm at speed 10 min<sup>-1</sup> to 80 min<sup>-1</sup>, then decreasing linearly to 1/3

## Working range

- for IEC frame sizes ..... 56 - 355

## Coil dimensions

- Coil-Ø ..... 1200 mm max.
- Enveloping circle ..... 1250 mm max. outer former edge
- Layering width ..... 400 mm

## Winding wire

- No. of parallel wires ..... 35 wires 1.32 mm Ø at 1200 mm winding diameter
- Wire entry height ..... 1.000 mm

## Machine dimensions

- Width ..... 2130 mm  
+ area for wire guide, wire monitoring and de-reeling device
- Depth ..... 1200 mm
- Height ..... 1700 mm
- Height with open cover ..... 2430 mm
- Weight ..... approx. 650 kg

## Power supply

- Connection voltage ..... 380 V- 480 V three-phase, selectable in 20 V steps, 50/60 Hz
- Connection power ..... 7 kVA

## Controls

- General ..... Integrated graphical winding machine control, built-in flash fixed storage device, TFT-display, keyboard nomenclature according to country, programs for standard formers pre-stored in software, data base for motor data, backup on USB-stick, easy graphical creation of custom former shapes and special programs without programming knowledge, feasibility check of data entries
- Number of winding counters ..... unlimited
- Number of turns ..... 0 - 99999
- Braking ..... fully automatic
- Wire guide ..... depending on wire diameter

## Special accessories

- Automatic opening of the protective cover (manual closing)
- Device for insulation sleeving insertion
- Individual wire monitoring for any number of parallel wires
- Adapter mandrels WD10 and formers 3/12 for the smallest motor coils
- Three-slot-formers 3/16
- Four-slot-formers 4/11 and 4/24
- Six-slot-formers 6/24
- Reinforced adapter mandrels for winding without requiring front support
- Winding fixture for rectangular and diamond shape windings with standard formers
- Centric adjustable fixture for rectangular windings with 6 slot formers 6/25 without requiring front support
- Adjustable former for DC-coils with built-in layer-winding program
- Manufacturing of special formers according to drawing or sample
- De-reeling and storage units of various types

## Manufacturer

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