

Coil and drum winding machine



Fig. 1 MOTROL® 1000

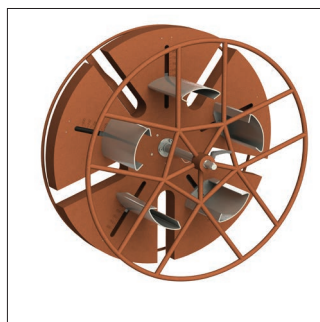


Fig. 2 Coiler head RAPID 1000 SL



Fig. 3 Lift-type device for drums



Fig. 4 Label printer

Customer logo

Measuring ID: 0001
Counter ID: 005500001
17.12.20 09:26:05
Length* 00006.905 m

Fig. 5 Label sample

MOTROL® 1000

This motor driven coil and spool winder enables to wind materials such as cables, tubes, hoses, steel cables, plastic profiles etc. onto coils or empty spools and to simultaneously carry out length measuring and cutting. The wound spools resp. drums can be removed with a lift-type device (Fig.3)

Technical Details

Coiler head / drum diameter	max. 1000 mm
Drum width (depending on type of drum winding axle)	max. 710 mm
Drum weight (depending on type of drum winding axle)	max. 350 kg
Winding material diameter (varying on conformity assessment)	1 - 50 mm
Winding drives selectable (depending on requirements)	75 rpm (1,5 kW) or 130 rpm (3,0 kW)
Electrical connection	400 V / 50 Hz
Traversing width	max. 650 mm
Inlet height	approx. 1140 mm
Pass-through direction	right to left
Length x Width x Height	approx. 2200 x 1400 x 1500 mm
Height with open protection cover	approx. 2450 mm
Colour machine	RAL 7005, mouse grey
Weight machine (without packing)	approx. 700 kg

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Basic equipment:

- Basic machine constructed as self-supported, torsionally resistant weldment with two lockable and two fixed steering rollers or four lockable steering rollers
- Drive by means of AC-gear motor via chain
- Speed control is continuously adjustable, allowing a smooth starting
- The winder is designed for winding heads, ring coiler heads or spool winding axles
- Manually operated traversing slide designed for accessories such as length measuring units, cutting units and guide rollers
- The control cabinet is installed in the machine frame
- The control panel with emergency stop button is ergonomically integrated in the base frame
- Protection cover with window to be hinged upwards (required for CE)
- CE conformity declaration according to machinery directive 2006/42/EG
- **Roller cages** before and behind the length measuring unit, easily adjustable to match the material
Various models available depending on the requirements
- **Length measuring unit MESSBOI 40 BVE or MESSBOI 40 Band** with preselection counter for winding material with outer diameter up to 30 mm or **MESSBOI 80 BVE** with preselection counter for winding material with outer diameter up to 50 mm
 - Error limit (with in-and outlet roller cages) +/- 0,5 %
 - Pre-selection counter with disconnecting contact of the drive

Recommended equipment:

- **Automatic traversing** consisting of gear motor with speed controller
Traversing can be moved to any position via joystick. This is important for the starting position of the winding drive. The motion reversing points can be stored via reference keys during machine downtime but also during winding operation. In usage of round cable the traversing pitch adapts automatically via diameter detection, but is also adjustable via rotary potentiometer during the winding operation. In case of winding flat material there is no diameter detection function. The traversing pitch has to be adjusted continuously via rotary potentiometer during the winding operation. The traversing speed automatically adapts to the winding speed (synchronization). The complete traversing drive can be disengaged for manual traversing
- **Manual, pneumatic or hydraulic operated cutting system** for cutting the winding material
- **Roller feed** in support of cutting process and in connection with pneumatic cutting device for additional operation mode "Cut to length without winding process"
- **Coiler head incl. adapter** for winding of coils
Various models available
- **Spool winding axle** with quick-locking mechanism and frictional driver for winding of spools
Various sizes available
- **Lift-type device for drums**
Moveable device for lifting and lowering of full and empty drums at the flange from the floor.

Conformity assessment / MID (formerly first calibration)

- **Data interface** module for storing of cutting data
- **Label printer** with interface to the preselection counter
- **Conformity assessment** of the length measuring unit with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery scope.

Further auxiliary equipment on request