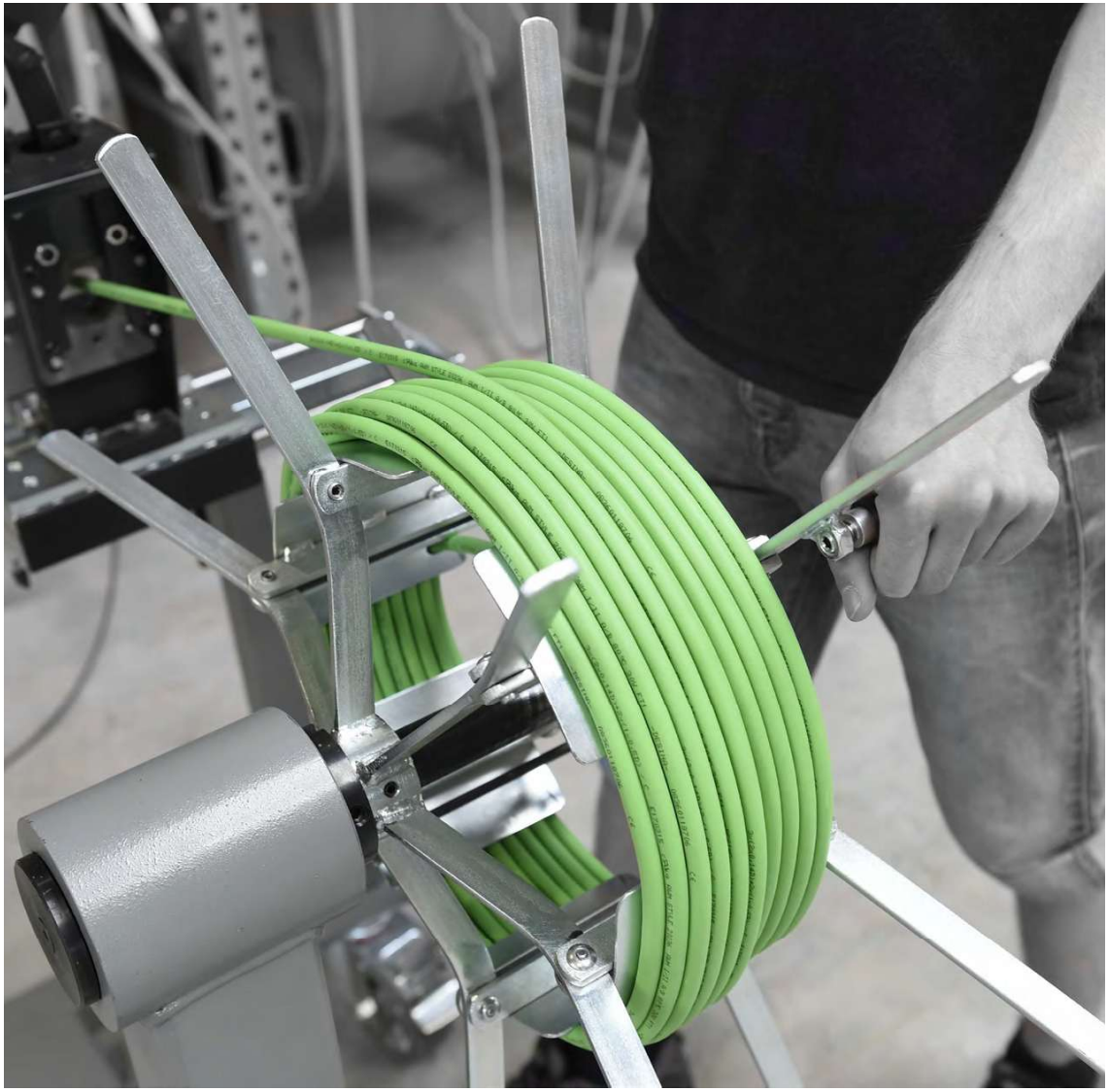
MANUAL WINDING TECHNOLOGY



PRODUCTS

MESSROL 450

Coil and spool rewinder, manual

Rewind coils and spools while simultaneously measuring

Fig.1: MESSROL 450 complete device with RAPID 450 SP, RINGFIX 480 and MESSBOI 10

MESSROL 450

- **Coil and spool rewinder for small coils and spools**

Functionality:

This manual coil and spool rewinder enables to wind winding material like cables, wires etc. from coils or spools into smaller coils or onto smaller spools while at the same time the material is measured exactly.

- Flexible modular system
- Easy winding while simultaneously measuring
- Adjustable break mechnism at the base frame avoid an uncontrolled material flow
- Easy assembly and removal of the coils and spools
- Continuous and central tension of the coils

Fig. 2: MESSROL 450 with spool winding axle, MESSBOI 25 with roller cage unit and inlet roller

MESSROL 450

Coil and spool rewinder, manual

Complete device

Complete device	MESSROL 450 complete device
Part No.	**86001121**
consisting of:	
Frame	85100436
Pillar mobile	85100437
RINGFIX 480	85101509
RAPID 450 SP	85100090
MESSBOI 10	85100471
Technical device	
L x W x H	approx. 1000 x 400 x 1200 mm
Colour	RAL 7005 mouse grey
Weight	approx. 48 kg

Fig. 3: MESSROL 450 complete device

Frame

Technical data	MESSROL 450 base frame / desk frame
Part No.	**85100436**
Axle holder-Ø	Ø 20 mm
L x W x H	approx. 1000 x 400 x 350 mm
Colour	RAL 7005 mouse grey
Weight	approx. 14,5 kg

Fig. 4: MESSROL 450 base frame / desk frame

Pillars with rollers for base frame

Technical data	MESSROL 450 mobile
Part No.	**85100437**
Steering rollers (4 pcs. set)	brakeable
Colour	RAL 7005 mouse grey
Material	steel
Weight (Set)	12 kg
Length	approx. 750 mm

Scope: 4 pillars with brakeable steering rollers

Fig. 5: MESSROL 450 pillar mobile

Inlet roller for unwinding from drums

Technical data	MESSROL 450 inlet roller
Part No.	**85100438**
Inlet roller	Ø 50 mm
Colour	RAL 7005 mouse grey
Weight	approx. 3,4 kg

Fig. 6: MESSROL 450 inlet roller

Coiler head with hand crank

Technical data	RAPID 400 SP	RAPID 450 SP
Part No.	**85100089**	**85100090**
Coil-Ø	max. 400 mm	max. 450 mm
Winding width	max. 70 mm	max. 70 mm
Core-Ø	130 mm	250 mm
Axle holder-Ø	20 mm	20 mm
Load capacity	max. 15 kg	max. 15 kg
Colour	galvanised	galvanised
Material	steel	steel
Weight	approx. 4,0 kg	approx. 4,5 kg

Fig. 7: RAPID 400 SP

Spool winding axle with hand crank

Technical data	Spool winding axle
Part No.	**86118100**
Spool-Ø	max. 310 mm
Spool width	max. 220 mm
Spool bore	25 - 80 mm
Load capacity	max. 10 kg
Axle holder-Ø	20 mm
Axle	Ø 16 mm x 270 mm
Colour	RAL 7035 light grey

Fig. 8: Spool winding axle with hand crank

Coil unwinding plate

Technical data	RINGFIX 480
Part No.	**85101509**
Coil-Ø	max. 470 mm
Plate-Ø	480 mm
Height core bolts	250 mm
Core adjusting range	140 - 320 mm
Load capacity	max. 20 kg
Colour	zinc-plated
Weight	approx. 15 kg

Fig. 9: RINGFIX 480

Spool unwinding plate

Technical data	SPULFIX 480
Part No.	**85101516**
Spool-Ø	max. 470 mm
Spool width	max. 150 mm
Plate-Ø	480 mm
Core bolt dimensions	Ø 16 x 200 mm
Centering cone for bore	25 - 80 mm
Load capacity	max. 25 kg
Colour	zinc-plated
Weight	approx. 5,7 kg

Fig. 10: SPULFIX 480

MESSROL 450
Coil and spool rewinder, manual

Length measuring device

Technical data	MESSBOI 10
Part No.	**85100471**
Measuring range	1 - 15 mm
L x W x H	approx. 160 x 110 x 85 mm
Display of counter	9999,99 m
Error limit	+ / -2 %
Measuring force	Spring pressure
Measuring wheel	Plastic
Housing	Polystyrene
Colour	black / white
Weight	approx. 0,5 kg

Fig.11: MESSBOI 10

Technical data	MESSBOI 25	MESSBOI 25 conformity assessed*
Part No.	**85101000**	**86101000**
Measuring range	2 - 25 mm	2 - 15 mm
L x W x H	approx. 120 x 160 x 350 mm	approx. 120 x 160 x 350 mm
Display of counter	9999,99 m	9999,99 m
Error limit	+/- 0,5 %	+/- 0,5 %
Measuring wheel	aluminum with vulcanized PUR coating	aluminum with vulcanized PUR coating
Housing	aluminum	aluminum
Weight	approx. 1,4 kg	approx. 1,4 kg
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey

Fig. 12: MESSBOI 25
with roller cage unit

Technical data	Inlet and outlet roller cage for MESSBOI 25
Art.-Nr.	**85101001**
Roller cage unit for better guidance of the winding goods. Note: In combination with MESSROL 450 the inlet and outlet roller cage unit is necessary.	

*Conformity assessment of the lenght measuring device according module F1 with additional inlet and outlet roller cage is approved by German calibration authority. Valid for an unlimited period in the EEA. Conformity assessment has to be carried out in the manufacturing firm. Re-assessment after two years is not required, but maintenance by Kabelmat is recommended. **Only approved for useage in direct sales!**

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Manual winding, measuring and cutting

Fig. 1: MESSROL 670 with RAPID 600 SP and MESSBOI 25 with roller cage unit

MESSROL 670 / 1000

- **Manual coil and spool winder**

Functionality:

This manual coil and spool winder enables to wind winding material like cables, wires etc. into coils or onto spools while length measuring and cut to lenght at the same time.

- Modular system
- Easy winding while length measuring at the same time
- Movable traversing slide for a smooth winding pattern
- Easy assembly and removal of the coils and spools
- Optional: cutting device
- Optimal combination / supplement with unwinder or drum rack

Modular system

Possible combination:

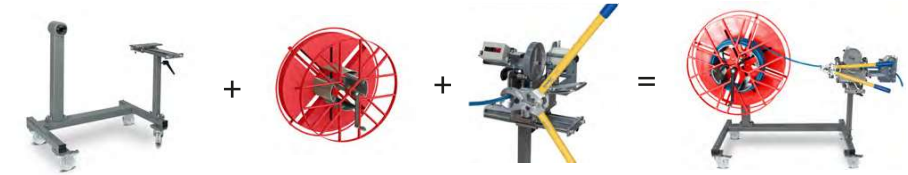


Fig. 2: MESSROL 1000 base frame

Fig. 3: RAPID 800 SL

Fig. 4: MESSBOI 40 BAE with inlet roller cage and MATIS 25 M

Fig. 5: MESSROL 1000 with RAPID 800 SL, MESSBOI 40 BAE, inlet roller cage and MATIS 25 M

MESSROL 670 / 1000
Coil and spool winder, manual

Complete device

- **Complete device with measuring device**

Complete device	MESSROL 670
Part No.	**86100015**
Components	consisting of:
Base frame mobile	Part No. 86180439
MESSBOI 25	Part No. 85101000
Inlet and outlet roller cage unit	Part No. 85101001
RAPID 600 SP	Part No. 85100091
Technical data	
L x W x H	approx. 880 x 680 x 1210 mm
Colour	RAL 7005 mouse grey
Weight	approx. 52 kg

Fig. 6: MESSROL 670 complete device

- **Complete device with measuring device / cutting unit**

Complete device	MESSROL 1000
Part No.	**85100015**
Components	consisting of:
Base frame mobile	Part No. 85100439
MESSBOI 40 BAE	Part No. 85100003
Inlet roller cage	Part No. 85100189
MATIS 25	Part No. 85100163
RAPID 600 SP	Part No. 85100091
Technical data	
L x W x H	approx. 1250 x 710 x 910 mm
Colour	RAL 7005 mouse grey
Weight	approx. 80 kg

Fig. 7: MESSROL 1000 complete device

- **Complete device without measuring device / cutting unit**

Complete device	MESSROL 1000 RM
Part No.	**86180500**
Components	consisting of:
Base frame mobile	Part No. 86180440
RAPID 850 ST	Part No. 85100466
Technical data	
L x W x H	approx. 1200 x 710 x 1135 mm
Colour	RAL 7005 mouse grey
Weight	approx. 67 kg

Fig. 8: MESSROL 1000 RM complete device

MESSROL 670 / 1000
Coil and spool winder, manual

Base frame

Technical data	MESSROL 1000	MESSROL 670
Part No.	**85100439**	**86180439**
Coil-Ø / Spool-Ø	max. 1000 mm	max. 670 mm
Axle holder-Ø	30 mm	30 mm
Traversing width	250 mm	250 mm
L x W x H	approx. 1200 x 710 x 910 mm	approx. 860 x 680 x 910 mm
Weight	approx. 51 kg	approx. 41 kg
Scope of delivery: Steel frame with brakeable steering rollers and traversing slide with holder for length measuring device.		

Fig. 9: MESSROL 1000 base frame

Technical data	MESSROL 1000 RM
Part No.	**86180440**
Coil-Ø / Spool-Ø	max. 1000 mm
Axle holder-Ø	30 mm
Traversing width	250 mm
L x W x H	approx. 1200 x 710 x 910 mm
Weight	approx. 35 kg
Scope of delivery: Steel frame with brakeable steering rollers.	

Fig. 10: MESSROL 1000 RM base frame

Length measuring unit

Technical data	MESSBOI 25*
Part No.	**85101000**
Measuring range	2 - 25 mm
Display of counter	9999,99 m
L x W x H	approx. 120 x 160 x 350 mm
Error limit	+/- 0,5 %
Measuring wheel	aluminum with vulcanized PUR coating
Colour	RAL 7005 mouse grey
Weight	approx. 2,2 kg

Abb. 11: MESSBOI 25 with roller cage unit

Technical data	Inlet and outlet roller cage for MESSBOI 25
Part No.	**85101001**
Roller cage unit for better guidance of the winding goods. Note: In combination with MESSROL 670 / 1000 the inlet and outlet roller cage unit is necessary.	

* MESSBOI 25: Available with conformity assessment (formerly first calibration). Conformity assessment of the lenght measuring device according module F1 with additional inlet and outlet roller cage is approved by German calibration authority. Valid for an unlimited period in the EEA. Conformity assessment has to be carried out in the manufacturing firm. Re-assessment after two years is not required, but maintenance by Kabelmat is recommended. **Only approved for useage in direct sales!**

MESSROL 670 / 1000
Coil and spool winder, manual

Length measuring device

Technical data	MESSBOI 40 BAE*
Part No.	**85100003**
Measuring range	1 - 40 mm
Measuring range conformity assessed	2 - 25 mm
L x W x H (without roller cages)	approx. 320 x 320 x 280 mm
Display of counter	9999,99 m
Measuring wheel circumference	0,5 m
Error limit with roller cages due to class of accuracy III	+ / - 0,5 %
Weight	12 kg

* Note: MESSBOI 40 BAE is also available with stainless steel counter roller for wire rope or steel cable. Part No. 86000316.

Fig. 12: MESSBOI 40 BAE length measuring device

Roller cages

Fig. 3 Inlet and outlet roller cages

Fig. 4 Inlet and outlet roller cages

Fig. 5 Inlet roller cage

Fig. 6 Inlet or outlet roller cage

Technical data	Inlet and outlet roller cages (pair)	Inlet and outlet roller cages (pair)	Inlet roller cage (piece)	Inlet or outlet roller cage (piece)
Part No.	**85100185**	**85100186**	**85100189**	**86001454**
Suitable for MESSBOI 40 BAE	✓	✓	✓	✓
For winding from an unwinder	✓	-	-	✓
For winding out of a drum rack	-	✓	✓	-
Rollers horizontal adjustable	✓	✓	✓	✓
Rollers horizontal and vertical adjustable	✓	✓	-	✓
Material-Ø	max. 40 mm	max. 40 mm	max. 40 mm	max. 40 mm
Guide outlet rollers-Ø	35 mm	35 mm	-	-
Guide inlet rollers-Ø	35 mm	80 mm	80 mm	35 mm
Weight	approx. 10 kg / pair	approx. 10 kg / pair	approx. 5 kg	approx. 5 kg
Housing	steel zinc-plated	steel zinc-plated	steel zinc-plated	steel zinc-plated
Guide rollers inlet	stainless steel	plastic	plastic	stainless steel
Guide rollers outlet	stainless steel	stainless steel	-	-

Conformity assessment

Technical data	Conformity assessment / MID (formerly first calibration)
Part No.	**146**
Conformity assessment of the lenght measuring device according module F1 with additional inlet and outlet roller cage is approved by German calibration authority. Valid for an unlimited period in the EEA. Conformity assessment has to be carried out in the manufacturing firm. Re-assessment after two years is not required, but maintenance by Kabelmat is recommended. **Only approved for useage in direct sales!**	

Cutting devices and accessory

Technical data	MATIS 25 M cutter	MATIS 35 cutter
Part No.	**85100163**	**85100162**
mounted on MESSBOI 40	✓	-
Material-Ø	max. 25 mm	max. 35 mm
Weight	approx. 4,9 kg	approx. 3,9 kg
Colour plastic cover	yellow	yellow
Note: not suitable for steel cables. *Only possible in combination with MESSBOI 40.		

Technical data	Holder for cutter MATIS 35
Part No.	**85100558**
mounted on base frame	✓
L x W x B	approx. 150 x 50 x 400 mm
Weight	approx. 2,5 kg
Colour	RAL 7005 mouse grey
Note: Not suitable for wire ropes.	

Technical data	**MATIS 40 lever shear** for cable (fine-wire)
Part No.	**86001132**
Material-Ø	max. 40 mm
B x W x H	approx. 110 x 130 x 720 mm
Weight	approx. 8,3 kg
Material	Blades made of oxide ceramics
Complete closed knife. Cut release via hand lever.	

Technical data	Alu profile for MESSBOI 40 for mounting onto MESSROL
Part No.	**86100005**
With mounting plates for roller cages, length measuring device, housing for counter and lever shear on MESSROL. Note: The length of the alu profile is adjusted according to the modular design.	

Technical data	Alu profile for MESSBOI 25 and MATIS 40 lever shear
Part No.	**86100008**

Spool winding axle with hand crank

Technical data	Spool winding axle 800 MB	Spool winding axle 800 RM
Part No.	**85100435**	**85100555**
Spool-Ø	max. 800 mm	max. 800 mm
Spool width	max. 395 mm (at bore 40 mm)	max. 430 mm (at bore 35 mm)
	max. 470 mm (at bore 80 mm)	max. 445 mm (at bore 50 mm)
		max. 475 mm (at bore 85 mm)
Spool bore-Ø	40 - 80 mm	35 - 85 mm
Axle holder-Ø	30 mm	30 mm
Axle-Ø	30 mm	30 mm
Colour	zinc-plated	zinc-plated
Load capacity	max. 60 kg	max. 100 kg
Weight	approx. 8 kg	approx. 10 kg
Driving pin	Ø 25 mm with an adjustment range of 80 - 170 mm	-


Fig. 18 MATIS 25 M (mounted)


Fig. 19 MATIS 35 (loose)


Fig. 20 Holder for MATIS 35


Fig. 21 MATIS 40


Fig. 22 Alu profile for MATIS 40


Fig.23 Spool winding axle 800 MB with driving pin


Fig.24 Spool winding axle 800 RM

MESSROL 670 / 1000
Coil and spool winder, manual

Coiler head with hand crank


Fig. 24: RAPID 600 SP


Fig. 25: RAPID 670 ST


Fig. 26: RAPID 480 SL


Fig. 27: RAPID 800 SL

Technical data	RAPID 600 SP
Part No.	**85100091**
Coil-Ø	max. 600 mm
Core-Ø (**fixed core**)	300 mm
Coil width	max. 120 mm
Load capacity	max. 25 kg
Axle holder-Ø	30 mm
Weight	approx. 8 kg
Colour	zinc-plated

Technical data	RAPID 480 ST	RAPID 670 ST	RAPID 850 ST*	RAPID 1000 ST*
Part No.	**85100557**	**85100465**	**85100466**	**85100884**
Coil-Ø	max. 480 mm	max. 670 mm	max. 850 mm	max. 1000 mm
Core adjusting range (**in steps**)	200/250/300/350 mm	250/400/500 mm	250/350/450/550/650 mm	250/350/450/550/650 mm
Coil width	80 - 250 mm	80 - 250 mm	80 - 250 mm	80 - 250 mm
Load capacity	max. 50 kg	max. 80 kg	max. 80 kg	max. 80 kg
Axle holder-Ø	30 mm	30 mm	30 mm	30 mm
Weight	approx. 25 kg	approx. 28 kg	approx. 32 kg	approx. 38 kg
Colour	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red

Technical data	RAPID 480 SL	RAPID 800 SL*	RAPID 1000 SL*
Part No.	**85100083**	**85100174**	**86001457**
Coil-Ø	max. 480 mm	max. 800 mm	max. 1000 mm
Core adjusting range (**stepless**)	200 - 370 mm	300 - 550 mm	550 - 800 mm
Coil width	50 - 250 mm	50 - 250 mm	20 - 250 mm
Load capacity	max. 65 kg	max. 80 kg	max. 100 kg
Axle holder-Ø	30 mm	30 mm	30 mm
Weight	approx. 40 kg	approx. 70 kg	approx. 85 kg
Colour	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red

*only in combination with MESSROL 1000.

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

MESSROL 500

Coil and spool winder, manual

Manual winder with a lot of working surface

Available with battery mode

Fig. 1 MESSBOI 40 BVE and high performance battery

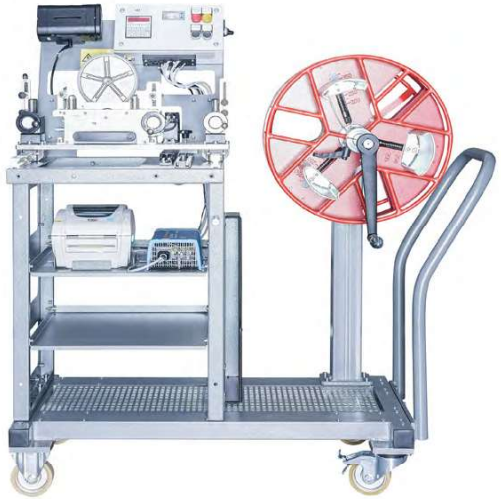


Fig. 2 MESSROL 500 with RAPID 480 SL, MESSBOI 40 LC-MID and battery mode

MESSROL 500

- **Manual coil and spool winder**

Functionality:

This manual coil and spool winder enables to wind winding material like cables, tubes, hoses, steel cables, plastic profiles etc. onto coils or empty spools and to simutaneously carry out lenght measuring and cutting. MESSROL 500 is optionally available with a high performance battery. This enables an especially flexible usage while maintaining power supply of the electronical components. In addition, MESSROL 500 offers a lot of working surface and is therefore a perfect allrounder in warehousing.

- Modular system
- Working surfaces for accessories, e.g. tools
- Easy winding while length measuring at the same time
- Movable traversing slide for a smooth winding pattern
- Easy assembly and removal of the coils and spools
- Optimal combination / supplement with unwinder or drum rack
- **Optional: also available with battery mode which enables a wireless energy supply of electonical components (mobility)**

Technical data	MESSROL 500
Part No.	**0601.000**
Coiler head / Spool-Ø	max. 500 mm
Spool width	max. 310 mm
Spool weight	max. 100 kg
Winding material-Ø (varying on conformity assessment)	1 - 30 mm
Traversing width	max. 340 mm
Inlet height	ca. 1000 mm
Running direction	both directions
L x W x H	approx. 1300 x 680 x 1300 mm
Colour	RAL 7005 mouse grey
Weight	approx. 200 kg

MESSROL 500

Coil and spool winder, manual

Basic equipment:

MESSROL 500 basic frame	**Part No. 85100564**
• Mobile device with two lockable steering rollers and two fixed rollers	
• Handle for a comfortable moving of the device	
• The winder is designed to admit winding head or spool winding axle	
• Manually operated traversing slide designed for accessories such as length measuring unit, cutting unit and guiding rollers	
• Working surface (e. g. for dropping rings or tools)	
Manual cutting unit MATIS 40	**Part No. 86001132**
• For cutting the winding materials	
Winding head RAPID 480 SL	**Part No. 85100083**
• For winding of coils	
Spool winding axles 800 RB with quick-locking mechanism	**Part No. 85100555**
• For winding of spools	
1:3 translation	**Part No. 85100565**
• For a more convenient winding of the spools	

Fig. 3 MESSROL 500 with spool winding axle, MESSBOI 40 LC-MID with roller cages, conformity assessment, label printer, high-performance battery

Additional equipment:

• **Length measuring unit MESSBOI 25 with mechanical counter for winding material up to 25 mm outer diameter**	**Part No. 85101000**
• Error limit (incl. inlet and outlet roller cages) + / - 0,5 %	
• **Roller cages** for a better guidance of the winding material	**Part No. 85101000**
• **Conformity assessment for direct sales - in the presence of the customer - (Module F1)**	**Part No. 86101000**
• **Length measuring unit MESSBOI 40 BAE with mechanical counter for winding material up to 30 mm outer diameter**	**Part No. 85100003**
• Error limit (incl. inlet and outlet roller cages) + / - 0,5 %	
• **Roller cages** for a better guidance of the winding material	**Part No. 85100186**
• **Conformity assessment for direct sales - in the presence of the customer - (Module F1)**	**Part No. 146**
• **Length measuring unit MESSBOI 40 LC / LC-MID with preselection counter and data memory for winding material up to 30 mm outer diameter**	**Part No. 85100455**
• Error limit (incl. inlet and outlet roller cages) + / - 0,5 %	
• Preselection counter with disabling contacts	
• **Roller cages** for a better guidance of the winding material	**Part No. 85100186**
• **Conformity assessment for factory sales - without presence of the customer - (Module F)**	**Part No. 242**
• **Label printer** with interface to the preselection counter	**Part No. 5101.000**
• **Console for the label printer**	**Part No. 85100567**
• **Changeable high-performance battery** 10 Ah for supplying energy to the preselection counter, data interface module and label printer without network connection (mobility)	**Part No. 85100566**
• **Charging cable**	**Part No. 89929871**

Fig. 4 MESSROL 500 Series

Fig. 5 MESSROL 500 with spool winding axle 800 RB, MESSBOI 40 LC-MID and battery mode

Fig. 6 MESSROL 500 with coiler head RAPID 480 SL, MESSBOI 40 LC-MID and battery mode

Technical data:

Cutting device

Technical data	**MATIS 40 lever shear** for cable (fine-wire)
Part No.	**86001132**
Material-Ø	max. 40 mm
B x W x H	approx. 110 x 130 x 720 mm
Weight	approx. 8,3 kg
Material	Blades made of oxide ceramics
Cut release via hand lever.	

Fig. 7 MATIS 40 lever shear

MESSROL 500
Coil and spool winder, manual

Technical data:

Coiler head with hand crank

Technical data	RAPID 480 SL
Part No.	**85100083**
Coil-Ø	max. 480 mm
Core adjusting range (continuously adjustable)	200 - 370 mm
Coil width	50 - 250 mm
Load capacity	max. 65 kg
Axle holder-Ø	30 mm
Weight	approx. 40 kg
Colour	RAL 3020 traffic red

Fig. 8 RAPID 480 SL

Technical data	RAPID 480 ST
Part No.	**85100557**
Coil-Ø	max. 480 mm
Core adjusting range (adjustable in steps)	200/250/300/ 350 mm
Coil width	80 - 250 mm
Load capacity	max. 50 kg
Axle holder-Ø	30 mm
Weight	approx. 25 kg
Colour	RAL 3020 traffic red

Fig. 9 RAPID 480 ST (Fig. similar)

Spool winding axle with hand crank

Technical data	Spool winding axle 800 MB	Spool winding axle 800 RM
Part No.	**85100435**	**85100555**
Spool-Ø	max. 800 mm	max. 800 mm
Spool width	max. 395 mm (at bore 40 mm)	max. 430 mm (at bore 35 mm)
	max. 470 mm (at bore 80 mm)	max. 445 mm (at bore 50 mm)
		max. 475 mm (at bore 85 mm)
Spool bore-Ø	40 - 80 mm	35 - 85 mm
Axle holder-Ø	30 mm	30 mm
Axle-Ø	30 mm	30 mm
Colour	zinc-plated	zinc-plated
Load capacity	max. 60 kg	max. 100 kg
Weight	approx. 8 kg	approx. 10 kg
Driving pin	Ø 25 mm with an adjustment range of 80 - 170 mm	-

Fig. 10 Spool winding axle 800 RM

Fig. 11 Spool winding axle 800 MB with driving pin

Technical data:

Length measuring device

Technical data	MESSBOI 25	MESSBOI 25 conformity assessment
Part No.	**85101000**	**86101000**
Measuring range	2 - 25 mm	2 - 15 mm
Display of counter	9999,99 m	9999,99 m
L x W x H	approx. 120 x 160 x 350 mm	approx. 120 x 160 x 350 mm
Error limit	+ / - 0,5 %	+ / - 0,5 %
Measuring wheel	aluminum with vulcanized PUR coating	aluminum with vulcanized PUR coating
Colour	aluminum / silver	aluminum / silver
Weight	approx. 1,4 kg	approx. 1,4 kg

Fig. 12 MESSBOI 25 with inlet and outlet roller cages

Technical data	MESSBOI 40 BAE*
Part No.	**85100003**
Measuring range (with conformity assessment)	1 - 40 mm (2 - 25 mm)
L x W x H (without roller cages)	approx. 320 x 320 x 280 mm
Display of counter	9999,99 m
Measuring wheel extent	0,5 m
Error limit with roller cages according accuracy class III	+ / - 0,5 %
Weight	ca. 12 kg
Speed conformity assessed	max. 80 m / min

Fig. 13 MESSBOI 40 BAE

* Note: MESSBOI 40 BAE is also available with stainless steel counter roller for wire rope or steel cable. Part No. 86000316

Technical data	MESSBOI 40 LC / LC-MID
Part No.	**85100455**
With 2 potential-free change-over contact with pre-and limit switching	
Round cable-Ø with MID / conformity assessment	2 - 40 mm
Tube-Ø with MID / conformity assessment	2 - 40 mm
Steel cable-Ø with MID / conformity assessment	2 - 15 mm
Thickness range flat cable with MID / conformity assessment	2 - 15 mm
Width range flat cable with MID / conformity assessment	10 - 40 mm
Measuring wheel extent	0,5 m
Rotary pulse encoder	500 Imp / per turn 24 VDC
Error limit regarding accuracy class III (incl. inlet and outlet roller cages)	+ / - 0,5 %
Display of counter	99999,999 m
Speed with MID / conformity assessment	max. 250 m /min
L x W x H (without roller cages)	approx. 400 x 310 x 400 mm
Weigth	approx. 10 kg

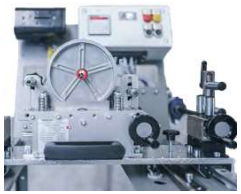


Fig. 14 MESSBOI 40 LC with inlet and outlet roller cages and battery mode

MESSROL 500
Coil and spool winder, manual

Technical data:

Roller cages

Technical data	Inlet and outlet roller cage unit for MESSBOI 25
Part No.	**85101001**
Roller cage unit for better guidance of the winding goods.	

Fig. 3 Inlet and outlet roller cages

Fig. 4 Inlet and outlet roller cages

Fig. 5 Inlet roller cage

Fig. 6 Inlet or outlet roller cage

Technical data	Inlet and outlet roller cages (pair)	Inlet and outlet roller cages (pair)	Inlet roller cage (piece)	Inlet or outlet roller cage (piece)
Part No.	**85100185**	**85100186**	**85100189**	**86001454**
Suitable for MESSBOI 40 BAE	✓	✓	✓	✓
For winding from an unwinder	✓	-	-	✓
For winding out of a drum rack	-	✓	✓	-
Rollers horizontal adjustable	✓	✓	✓	✓
Rollers horizontal and vertical adjustable	✓	✓	-	✓
Material-Ø	max. 40 mm	max. 40 mm	max. 40 mm	max. 40 mm
Guide outlet rollers-Ø	35 mm	35 mm	-	-
Guide inlet rollers-Ø	35 mm	80 mm	80 mm	35 mm
Weight	approx. 10 kg / pair	approx. 10 kg / pair	approx. 5 kg	approx. 5 kg
Housing	steel zinc-plated	steel zinc-plated	steel zinc-plated	steel zinc-plated
Guide rollers inlet	stainless steel	plastic	plastic	stainless steel
Guide rollers outlet	stainless steel	stainless steel	-	-

Conformity assessment

Technical data	Conformity assessment module F1
Part No.	**146**
Conformity assessment for direct sales due to module F1 (presence of the customer is required) with additional inlet and outlet roller cages is carried out by the German calibration authority valid unlimited for all European member states. Re-assessment is not necessary, a maintenance every 2 years by the manufacturer is recommended. Only authorised for use in direct sales!	

Technical data	Conformity assessment module F
Part No.	**242**
Conformity assessment for factory sales due to module F (presence of the customer not required) with additional inlet and outlet roller cages is carried out by the German calibration authority valid for a period of two years for all European member states. Conformity has to be carried out in the manufacturing firm. The re-assessment after two years is necessary, but not included in the scope of delivery. Required accessories: label printer (part no. 5101.000) and console for label printer (part no. 85100567)	

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TISCHROL 450

Coil and spool winder, manual

Practical table winder

Fig. 1 TISCHROL Complete device TISCHROL 1:3 with spool winding axle

TISCHROL 450

- **Manual coil and spool winder for small coils and spools**

Functionality:

This manual coil and spool winder enables to wind winding material like cables, wires etc. into small coils or onto small spools.
A main feature is an economic transmission ratio of 1:3.

- User-friendly hand winder
- Modular system
- Transmission ratio between rotary speed and winding speed 1:3
- Coiler head depending on coil size

Fig. 2 RAPID 450 SP folded for the removal of the coil

Fig. 3 RAPID 400 SP

Complete device

Technical data	TISCHROL 450 complete device
Part No.	**85100012**
Transmission ratio	1:3
Load capacity	max. 10 kg
Spool plate-Ø	300 mm
Spool width	165 mm (at bore 80 mm)
	150 mm (at bore 50 mm)
	135 mm (at bore 25 mm)
Axle holder-Ø	20 mm
Axle-Ø	16 x 200 mm
Colour pillar / Colour plate	RAL 7005 mouse grey / RAL 7035 light grey
L x W x H	approx. 300 x 445 x 410 mm
Weight	approx. 5,3 kg

Scope of delivery: Pillar, base plate and hand crank, plate with axle and centring cone. To ensure stable and user-friendly operation, we recommend that the base plate is always firmly fixed to the ground by means of screws. Screws are not included in the scope of delivery.

TISCHROL 450

Coil and spool winder, manual

Modular system

Possible combination:

Fig. 4 TISCHROL 1:1 base frame

+

Fig. 5 RAPID 450 SP

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Fig. 6 TISCHROL 1:1 with RAPID 450 SP

Base frame

Technical data	TISCHROL 1:1	TISCHROL 1:3
Part No.	**85100433**	**85100434**
Transmission ratio	1:1	1:3
Axle holder-Ø	20 mm	20 mm
Dimension base plate to centre line	250 mm	250 mm
Coiler head-Ø / Spool-Ø	max. 450 mm	max. 450 mm
Weight	approx. 2,6 kg	approx. 3,8 kg
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey
L x W x H	approx. 100 x 270 x 325 mm	approx. 100 x 270 x 295 mm

Scope of delivery: Pillar, base plate and hand crank. To ensure stable and user-friendly operation, we recommend that the base plate is always firmly fixed to the ground by means of screws. Screws are not included in the scope of delivery.

Coiler head with hand crank

Technical data	RAPID 400 SP	RAPID 450 SP
Part No.	**85100089**	**85100090**
Coil-Ø	max. 400 mm	max. 450 mm
Coil width	max. 70 mm	max. 70 mm
Core-Ø	130 mm	250 mm
Axle holder-Ø	max. 20 mm	max. 20 mm
Load capacity	max. 15 kg	max. 15 kg
Colour	zinc-plated	zinc-plated
Weight	approx. 4 kg	approx. 4,5 kg

Spool winding axle with hand crank

Technical data	Spool winding axle
Part No.	**85100100**
Load capacity	max. 10 kg
Spool plate-Ø	300 mm
Spool width	165 mm (at bore 80 mm)
	150 mm (at bore 50 mm)
	135 mm (at bore 25 mm)
Spool bore-Ø	25 - 80 mm
Axle holder-Ø	20 mm
Axle-Ø	16 x 200 mm
Colour	RAL 7035 light grey
Weight	approx. 1,5 kg
Scope of delivery: Plate with axle and centring cone	

Fig. 7 Spool winding axle

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Practical table or stand winder

Fig. 1 TISCHROL 1000 with RAPID 600 SP

Fig. 2 TISCHROL 1000 H with RAPID 600 SP and MESSBOI 30 in combination with TROMBOI 500 mobile drum unwinder

TISCHROL 1000

- **Manual coil and spool winder**

Functionality:

This manual coil and spool winder enables to wind winding material like cables, wires etc. into coils or onto epmty spools. TISCHROL 1000 is available in two versions: table or stand winder

- User-friendlly winder
- Modular system
- Easy assembly and removal of the coils and spools
- Length measurement possible

Modular system

Possible combination:

Fig. 3 TISCHROL 1000 base frame

+

Fig. 4 RAPID 600 SP

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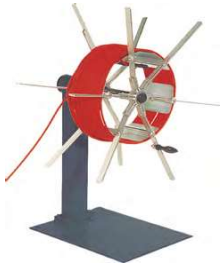

Fig. 5 TISCHROL 1000 with RAPID 600 SP

TISCHROL 1000
Coil and spool winder, manual

Base frame

Technical data	TISCHROL 1000	TISCHROL 1000 H
Part No.	**85100180**	**86003049**
Coiler head-Ø / Spool-Ø	max. 1000 mm	max. 1000 mm
Axle holder-Ø	30 mm	30 mm
Transmission ratio	1:1	1:1
L x W x H	approx. 450 x 330 x **580** mm	approx. 450 x 330 x **1065** mm
Weight	approx. 20 kg	approx. 26 kg
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey
Scope of delivery: pillar and base plate. To guarantee a stable and user-friendly operation, we recommend the fixing of the bottom plate by screwing it on the underground. Screws are not included in the scope of delivery.		

Fig. 6 TISCHROL 1000

Coiler head with hand crank

Fig. 7 RAPID 600 SP

Fig. 8 RAPID 670 ST

Fig. 9 RAPID 480 SL

Fig. 10 RAPID 800 SL

Technical data	RAPID 600 SP
Part No.	**85100091**
Coil-Ø	max. 600 mm
Core-Ø (**fixed core**)	300 mm
Coil width	max. 120 mm
Load capacity	max. 25 kg
Axle holder-Ø	30 mm
Weight	approx. 8 kg
Colour	zinc-plated

Technical data	RAPID 480 ST	RAPID 670 ST	RAPID 850 ST	RAPID 1000 ST
Part No.	**85100557**	**85100465**	**85100466**	**85100884**
Coil-Ø	max. 480 mm	max. 670 mm	max. 850 mm	max. 1000 mm
Core adjusting range (**in steps**)	200/250/300/350 mm	250/400/500 mm	250/350/450/550/650 mm	250/350/450/550/650 mm
Coil width	80 - 250 mm	80 - 250 mm	80 - 250 mm	80 - 250 mm
Load capacity	max. 50 kg	max. 80 kg	max. 80 kg	max. 80 kg
Axle holder-Ø	30 mm	30 mm	30 mm	30 mm
Weight	approx. 25 kg	approx. 28 kg	approx. 32 kg	approx. 38 kg
Colour	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red

Technical data	RAPID 480 SL	RAPID 800 SL	RAPID 1000 SL
Part No.	**85100083**	**85100174**	**86001457**
Coil-Ø	max. 480 mm	max. 800 mm	max. 1000 mm
Core adjusting range (**stepless**)	200 - 370 mm	300 - 550 mm	550 - 800 mm
Coil width	50 - 250 mm	50 - 250 mm	50 - 250 mm
Load capacity	max. 65 kg	max. 80 kg	max. 100 kg
Axle holder-Ø	30 mm	30 mm	30 mm
Weight	approx. 40 kg	approx. 70 kg	approx. 85 kg
Colour	RAL 3020 traffic red	RAL 3020 traffic red	RAL 3020 traffic red

TISCHROL 1000

Coil and spool winder, manual

Spool winding axle with hand crank

Fig. 11: Spool winding axle 800 MB with driving pin

Fig. 12: Spool winding axle 800 RM

Technical data	Spool winding axle 800 MB	Spool winding axle 800 RM
Part No.	**85100435**	**85100555**
Spool-Ø	max. 800 mm	max. 800 mm
Spool width	max. 395 mm (at bore 40 mm)	max. 430 mm (at bore 35 mm)
	max. 470 mm (at bore 80 mm)	max. 445 mm (at bore 50 mm)
		max. 475 mm (at bore 85 mm)
Spool bore-Ø	40 - 80 mm	35 - 85 mm
Axle holder-Ø	30 mm	30 mm
Axle-Ø	30 mm	30 mm
Colour	zinc-plated	zinc-plated
Load capacity	max. 60 kg	max. 100 kg
Weight	approx. 8 kg	approx. 10 kg
Driving pin	Ø 25 mm with an adjustment range of 80 - 170 mm	-

Length measuring device and holder

Fig. 13: Holder for MESSBOI 10 / 25

Fig. 14: MESSBOI 10

Fig. 15: MESSBOI 25

Technical data	TISCHROL holder for length measuring device MESSBOI 10 / 25	Inlet and outlet roller cage unit with fixing device for MESSBOI 25
Part No.	**85100542**	**85101001**
Weight	approx. 3,5 kg	approx. 2,0 kg
L x W x H	approx. 630 x 365 x 360 mm	-

85101000	MESSBOI 10	MESSBOI 25*
Part No.	**85100471**	**85101000**
Measuring range	1 - 15 mm	2 - 25 mm
L x W x H	approx. 160 x 110 x 85 mm	approx. 120 x 160 x 350 mm
Display of counter	9999,99 m	9999,99 m
Error limit	+ / - 2 %	+ / - 0,5 %
Measuring force	Spring pressure	Spring pressure
Measuring wheel	Plastic	Aluminum with vulcanized PUR coating
Housing	Polystyrene	Aluminium
Colour	black / white	aluminum / silver
Weight	approx. 0,5 kg	approx. 1,4 kg

* MESSBOI 25: Available with conformity assessment (formerly first calibration). Conformity assessment of the lenght measuring device according module F1 with additional inlet and outlet roller cage is approved by German calibration authority. Valid for an unlimited period in the EEA. Conformity assessment has to be carried out in the manufacturing firm. Re-assessment after two years is not required, but maintenance by Kabelmat is recommended. **Only approved for useage in direct sales!**

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Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

RINGFIX / SPULFIX

Coil and spool unwinder, manual

Also available for tubes and plastic pipes

Fig. 1 RINGFIX TABLE with RINGFIX 480

Fig. 2 RINGFIX MOBILE with RINGFIX 480

Fig. 3 RINGFIX STATIONARY with RINGFIX 480

RINGFIX / SPULFIX

- **Manual coil and spool unwinder**

Functionality:

This manual coil and spool unwinder enables to pull off material like cables, wires, tubes, plastic pipes etc. from coils or spools.
Adjustable break mechanism avoid an uncontrolled material flow. Coils and and spools rest with their dead weight centrally tensioned on the winding plates. A separate bouncing protection is the optimal addition to unwind tubes and plastic pipes easily.

- Twisting-free unwinding of the winding material
- Adjustable break mechnism at the base frame avoid an uncontrolled material flow
- Easy assembly and removal of the coils and spools
- Inside diameter continuously adjustable via core bolts and fixable in every position
- Optional: Bouncing protection for unwinding tubes or plastic pipes

Modular system

Possible combination:

Fig. 4 RINGFIX TABLE

+

Fig. 5 RINGFIX 480

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Fig. 6 RINGFIX TABLE with RINGFIX 480

Base frame incl. break mechanism

Technical data	RINGFIX TABLE	RINGFIX MOBILE	RINGFIX STATIONARY
Part No.	**85101513**	**85101514**	**85101515**
Unwinding height	160 mm	825 - 975 mm	695 - 840 mm
L x W x H	approx. 520 x 520 x 102 mm	approx. 1045 x 1045 x 920 mm	approx. 880 x 880 x 790 mm
Plate-Ø	480 - 800 mm	480 - 800 mm	480 - 800 mm
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight	approx. 8,5 kg	approx. 32 kg	approx. 27 kg
With rollers (set)	-	✓	-

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For coils

Fig. 5 RINGFIX TABLE with RINGFIX 480

For tube and plastic pipe coils

Fig. 6 RINGFIX TABLE with RINGFIX 480 and bouncing protection for tubes / plastic pipe

Coil unwinding plates

Technical data	RINGFIX 480	RINGFIX 650	RINGFIX 800
Part No.	**85101509**	**85101510**	**85101511**
Coil-Ø	max. 470 mm	max. 640 mm	max. 790 mm
Plate-Ø	480 mm	650 mm	800 mm
Height core bolts	250 mm	250 mm	250 mm
Core adjusting range	140 - 320 mm	180 - 500 mm	220 - 660 mm
Load capacity	max. 20 kg	max. 20 kg	max. 20 kg
Colour	zinc-plated	zinc-plated	zinc-plated
Weight	approx. 15 kg	approx. 46 kg	approx. 56 kg

Bouncing protection

- Border bolts and cover plate to avoid the bounce of the coil (e.g. for tubes and plastic pipes)

Technical data	for RINGFIX 480	for RINGFIX 650	for RINGFIX 800
Part No.	**85101504**	**85101507**	**85101512**
Cover plate-Ø	max. 480 mm	max. 650 mm	max. 800 mm
Incl. 5 border bolts	✓	✓	✓
Height border bolts	305 mm	305 mm	305 mm
Coil height	max. 230 mm	max. 230 mm	max. 230 mm
Weight	approx. 7,3 kg	approx. 10 kg	approx. 12,5 kg
Weight cover plate	approx. 3,3 kg	approx. 4,4 kg	approx. 5,4 kg
Colour cover plate	RAL 7005 mouse grey	RAL 7005 mouse grey	RAL 7005 mouse grey
Colour border bolts	zinc-plated	zinc-plated	zinc-plated

Spool unwinding plate

Technical data	SPULFIX 480
Part No.	**85101516**
Spool-Ø	max. 470 mm
Spool width	max. 150 mm
Plate-Ø	480 mm
Axle-Ø	16 x 200 mm
Centering cone for bore-Ø	25 - 80 mm
Load capacity	max. 20 kg
Colour	zinc-plated
Weight	approx. 5,5 kg

Fig. 7 SPULFIX 480

RINGFIX / SPULFIX
Coil and spool unwinder, manual

Complete devices

- for unwinding small coils and spools

Fig. 8 RINGFIX 300

Fig. 9 SPULFIX 300

Coil unwinder

Technical data	RINGFIX 300	RINGFIX 450
Part No.	**85100004**	**85100005**
Coil-Ø	max. 290 mm	max. 440 mm
Height core bolts	110 mm	110 mm
Core adjusting range	90 - 190 mm	150 - 250 mm
Plate-Ø	300 mm	450 mm
Load capacity	max. 10 kg	max. 12 kg
Colour	RAL 7035 light grey	RAL 7035 light grey
Weight	approx. 2,5 kg	approx. 4,5 kg

Spool unwinder

Technical data	SPULFIX 300	SPULFIX 450
Part No.	**85100007**	**85100475**
Spool-Ø	max. 290 mm	max. 440 mm
Spool height	max. 150 mm	max. 150 mm
Centering cone for bore-Ø	25 - 80 mm	25 - 80 mm
Axle-Ø	16 x 200 mm	16 x 200 mm
Load capacity	max. 10 kg	max. 12 kg
Colour	RAL 7035 light grey	RAL 7035 light grey
Weight	approx. 2,5 kg	approx. 4,5 kg

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

KOMBITRAK 800

Coil and spool unwinder, manual

For heavy coils and spools

Fig. 1 KOMBITRAK 800 T with coiler head RAPID 800 SL

Fig. 2 Back side KOMBITRAK 800 T

Fig. 3 Back side KOMBITRAK 800 B

Fig. 4 Spool winding axle 800 MB

Fig. 5 Spool winding axle 800 RM

KOMBITRAK 800

- **Manual coil and spool unwinder with mechanical brake or pendulum with rope brake**

Functionality:

This manual coil and spool unwinder enables to unwind material like cables, wires etc. from coils or spools. Adjustable brake mech-anism avoid an uncontrolled material flow.

- Twisting-free pull unwind the winding material
- Adjustable brake mechnism avoid an uncontrolled material flow
- Easy assembly and removal of the coils and spools
- Continuous and central tension of the coils

KOMBITRAK 800

Coil and spool unwinder, manual

Base frame

Technical data	KOMBITRAK 800 B	KOMBITRAK 800 T
Part No.	**87000305**	**85100912**
Brake mechanism	with mechanical brake	with pendulum and rope brake
Winding head-Ø / Spool-Ø	max. 800 mm	max. 800 mm
Locating bore	30 mm	30 mm
Loading weight	max. 150 kg	max. 150 kg
L x W x H	approx. 1200 x 1000 x 1000 mm	approx. 1200 x 1000 x 1000 mm
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight	approx. 70 kg	approx. 70 kg
Flow direction	both sides	from right to left

Coiler head without hand crank

Technical data	RAPID 480 SL	RAPID 800 SL
Part No.	**85100082**	**85100101**
Coil-Ø	max. 480 mm	max. 800 mm
Core adjusting range	200 - 370 mm	300 - 550 mm
Coil width	50 - 250 mm	50 - 250 mm
Load capacity	max. 65 kg	max. 80 kg
Axle holder-Ø	30 mm	30 mm
Weight	approx. 40 kg	approx. 70 kg
Colour	RAL 3020 traffic red	RAL 3020 traffic red

Spool winding axle without hand crank

Technical data	Spool winding axle 800 MB	Spoolwinding axle 800 RM
Part No.	**85100103**	**87000224**
Spool-Ø	max. 800 mm	max. 800 mm
Spool width	max. 395 mm (at bore 40 mm)	max. 430 mm (at bore hole 35 mm)
	max. 470 mm (at bore 80 mm)	max. 445 mm (at bore hole 50 mm)
		max. 475 mm (at bore hole 85 mm)
Core bore of the spool	40 - 80 mm	35 - 85 mm
Axle holder-Ø	30 mm	30 mm
Axle-Ø	30 mm	30 mm
Load capacity	max. 50 kg	max. 100 kg
Weight	approx. 8 kg	approx. 10 kg
Colour	zinc-plated	zinc-plated
Driving pin	Ø 25 mm with an adjustment range of 80 - 170 mm	-

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

RINGO 500

Coil and drum unwinder, manual

Perfect for building site

Fig. 1 RINGO 500 with cable coil

Fig. 2 RINGO 500 with cable drum

Fig. 3 RINGO 500 top part for drum

RINGO 500

- **Universal manual coil and drum unwinder**

Functionality:

This universal unwinder enables to unwind drums and coils twisting-free at the place of processing.

- Compact design
- Dynamic roll-off brake for a steady tensile force (braking effect is adapted to the supported weight)
- Low weight
- Small dimension
- Also suitable for damaged drums
- Maintenance-free
- Slipping-free
- Outdoor use possible

Technical data	RINGO 500
Part No.	**85102215**
Load weight	max. 380 kg
Coil outer-Ø	max. 500 mm
Coil inner-Ø	min. 120 mm
Brum bore	min. 50 mm
Weight	approx. 7 kg

Fig. may differ from original.
Technical modifications reserved.

TROMBOI 500 / 800 / 1400

Drum unwinder, manual

Compact design

Fig. 1 TROMBOI 500

Fig. 2 TROMBOI 500 MOBILE

Fig. 3 TROMBOI 800

Fig. 4 TROMBOI 1400

TROMBOI 500 - 1400

- **Manual drum unwinder for drums from 140 to 1500 kg**

Functionality :

These manual drum unwinders enables to unwind drums made from wood, steel, plastic easy and twist-free at the place of processing.

- Compact design
- Easy, twist-free unwinding of the drum
- High quality adjustable carrying rollers with ball bearings

Technial Data	TROMBOI 500	TROMBOI 500 MOBILE	TROMBOI 800	TROMBOI 1400
Part No.	**85100910**	**85100915**	**85100009**	**85100010**
Drum Ø	150 - 700 mm	150 - 700	400 - 1000 mm	500 - 1800 mm
Drum width	max. 520 mm	max. 520 mm	max. 580 mm	variable
Load capacity*	max. 140 kg	max. 140 kg	max. 500 kg	max. 1500 kg
Side guide rollers	-	-	2 pieces with ball bearings	2 pieces with ball bearings
Carrying rollers	-	-	2 pieces with double ball bearings	4 pieces with double ball bearings
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey	zinc-plated	zinc-plated
L x W x H	approx. 550 x 530 x 80 mm	approx. 550 x 530 x 200 mm	approx. 700 x 700 x 140 mm	approx. 760 x 270 x 140 mm
Weight	approx. 8 kg	approx. 10 kg	approx. 21 kg	approx. 27 kg (pair)
Brakeable steering rollers (set)	-	✓	-	-

*Load capacity is only valid for non-continuous unwinding with undamaged drums.

Accessories	Brakeable steering rollers (set = 4 pieces) for TROMBOI 500
Part No.	**85100911**
Weight	approx. 1,7 kg

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TROMBOI 7-10 / 9-14

Drum unwinder, manual

Fig. 1 TROMBOI 7-10 with drum sample

Fig. 2 TROMBOI 7-10

TROMBOI 7-10 / 9-14

High stability

- **Manual drum unwinder for drums max. 1000 kg / max. 1700 kg**

Functionality:

These manual drum unwinders enable to unwind the drums easy and twisting-free at the place of processing. These unwinders are qualified for drums made from wood, steel and plastics.

- Due to axle bearing only low tensile force is needed
- Also suitable for drums with damaged drum flange (unwinding performance will not be affected due to axle bearing)
- High stability via largely dimensioned base plates
- Easy lifting of the drum via lever mechanism
- Stabil steel welded construction

Technical Data	TROMBOI 7-10	TROMBOI 9-14
Part No.	**85005031**	**85005041**
Drum-Ø	710 - 1000 mm	900 - 1400 mm
Drum axle with cones	no.1 Ø 34 x 840 mm	no. 3 Ø 60 x 1140 mm
Load capacity	max. 1000 kg	max. 1700 kg
L x W	approx. 500 x 240 mm	approx. 600 x 250 mm
Height adjustable	420 - 600 mm	700 - 830 mm
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight with axle and cones	approx. 32 kg / pair	approx. 51 kg / pair

Accessories	Additional drum axle		
Part No.	**Description**	**for TROMBOI 7-10**	**for TROMBOI 9-14**
85008010	Drum axle no. 1 Ø 34 x 840 mm | Load capacity max. 1000 kg	✓	✓
85008020	Drum axle no. 2 Ø 34 x 1140 mm | Load capacity max. 700 kg	✓	✓
85008030	Drum axle no. 3 Ø 60 x 1140 mm | Load capacity max. 1700 kg	-	✓
85008040	Drum axle no. 4 Ø 60 x 1340 mm | Load capacity max. 2000 kg	-	✓

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Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TROMBOI 2003

Drum unwinder, manual

Fig. 1 TROMBOI 2003 with drum sample

Fig. 2 TROMBOI 2003

TROMBOI 2003

For heavy drums

- **Manual drum unwinder with hydraulic hand pump for drums max. 4000 kg**

Functionality:

The manual drum unwinder enables to unwind the drums easy and twisting-free at the place of processing. This unwinder is qualified for drums made from wood, steel and plastics.

- Particularly suitable for heavy drums
- Also suitable for drums with damaged drum flange (unwinding performance will not be affected due to axle bearing)
- Due to axle bearing only low tensile force is needed
- Easy lifting of the drum via hand hydraulic pump
- Lowering of the drum via vent screw
- Stabil steel welded construction

Fig. 3 Hydraulic hand pump

Technical data	TROMBOI 2003
Part No.	**85005091**
Drum-Ø	900 - 2000 mm
Drum axle no. 6 with adjustment ring	Ø 76 x 1700 mm
Load capacity	max. 4000 kg
L x W x H	approx. 550 x 300 x 1520 mm
Colour	RAL 7005 mouse grey
Weight with axle and cones	approx. 132 kg / pair

Accessories	Additional drum axle
Part No.	**Description**
85008020	Drum axle no. 2 Ø 34 x 1140 mm | Load capacity max. 700 kg
85008030	Drum axle no. 3 Ø 60 x 1140 mm | Load capacity max. 1700 kg
85008040	Drum axle no. 4 Ø 60 x 1340 mm | Load capacity max. 2000 kg
85008060	Drum axle no. 6 Ø 76 x 1700 mm | Load capacity max. 4000 kg

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

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TROMTRAK 1250

Drum unwinder, manual

Fig. 1 TROMTRAK 1250 with drum sample incl. axles with centering cones

Fig. 2 TROMTRAK 1250 incl. adjustable driving pin

TROMTRAK 1250

Perfect completement to processing line

- **Manual drum unwinder with adjustable brake**

Functionality:

The manual drum unwinders enables to unwind the drums easy and twisting-free at the place of processing. This unwinder is qualified for drums made from wood, steel and plastics and a perfect addition to a Kabelmat cutting automat.

- Suitable for usage in a mechanical processing line
- Base frame with brakeable driving wheels
- Drum axle with adjustable shoe brake
- Drum axle with adjustable shoe brake
- Double bearing axle
- Stabil steel welded construction

Technical data	TROMTRAK 1250 with centering cones	TROMTRAK 1250 with driving pin Ø 25mm	TROMTRAK 1250 with driving pin Ø28 mm
Part No.	**85100011**	**85100581**	**85100582**
Drum-Ø	630 - 1250 mm	630 - 1250 mm	630 - 1250 mm
Drum axle-Ø	34 mm	34 mm	60 mm
Load capacity	**max. 250 kg**	**max. 250 kg**	**max. 500 kg**
Drum width	max. 890 mm	max. 730 mm (at bore 40 mm)	max. 880 mm (at bore 80 mm)
	-	max. 810 mm (at bore 80 mm)	-
L x W x H	approx. 860 x 1300 x 720 mm	approx. 860 x 1300 x 720 mm	approx. 860 x 1300 x 720 mm
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight	approx. 50 kg	approx. 50 kg	approx. 60 kg
Adjustment range driving pin	-	80 - 170 mm	100 - 300 mm

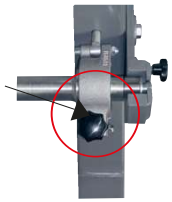

Fig. 3 Shoe brake

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TROMCAR 1000 / 1250

Unwinder and transport device for drums, manual

Fig. 1 TROMCAR 1000

Fig. 2 TROMCAR 1250

TROMCAR 1000 / 1250

Unwinding and transport

- **Manual unwinder and transport device for drums**

Functionality:

These especially robust manual unwinding and transport systems are used for the in-house transport; they can be used to transport drums and unwind them at the processing site.

- Flexible usage
- Large heavy-duty rollers
- All steel welded construction
- Optional measuring device possible

Technical data	TROMCAR 1000	TROMCAR 1250
Part No.	**85006002**	**85006003**
Drum-Ø	500 - 1000 mm	500 - 1250 mm
Drum axle with centering cones	no. 1 Ø 34 x 840 mm	no. 2 Ø 34 x 1140 mm
Load capacity	max. 1000 kg	max. 700 kg
Drum width	max. 710 mm	max. 1000 mm
L x W x H	approx. 1600 x 1040 x 770 mm	approx. 1600 x 1360 x 830 mm
Colour	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight	approx. 50 kg	approx. 52 kg
Equipment	2 fixed rollers | 2 pillars	2 fixed rollers | 1 steering roller

Equipment	
Part No.	**Description**
85101001*	Inlet and outlet roller cage unit with fixing device for MESSBOI 25
85101000	MESSBOI 25 length measuring device for measuring range 2 - 25 mm
86101000	MESSBOI 25 length measuring device conformity assessed for measuring range 2 - 15 mm

*Note: In combination with TROMCAR 1000 / 1250 the inlet and outlet roller cage unit is necessary.

Abb. 3: MESSBOI 25 with roller cage unit and mounting device

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

MACHINE WINDING TECHNOLOGY

PRODUCTS

AUTOCUT 40

Length cutting machine

Easy operation -
Exact cutting

Fig. 1 AUTOCUT 40 with closed protection cover

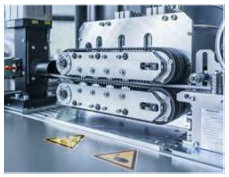

Fig. 2 Installation with a calibratable length measuring device, belt feed and pneumatic cable cutter

Fig. 3 Control panel with touch panel control and regulated positioning servo drive

Fig. 4 AUTOCUT 40 with open protective cover

Fig. 5 Pot winder with adjustable drive motor

AUTOCUT 40

- **Cutting machine for cables, pipes, hoses and more**

Functionality:

This motorised length cutting machine is suitable for measuring and cutting to length materials such as cables, pipes, hoses, steel ropes, plastic profiles etc. The powerful feed allows the draw-off directly from an unwinding system without motor such as drum rack or drum unwinder. In connection with a coil pin the cut-off materials are coiled in rings.

Technical Data	AUTOCUT 40
Part No.	**1284.000**
Winding material-Ø	1 - 30 mm
Inlet hight	approx. 1000 mm
Running direction	right to left
L x W x H	approx. 1160 x 950 x 1550 mm
Height with open protection cover	approx. 2050 mm
Length with pot winder	approx. 1800 mm
Colour	RAL 7005 mouse grey
Weight (without accessories)	approx. 350 kg

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AUTOCUT 40

Length cutting machine

Basic equipment:

- Basic machine constructed as self-supported, torsionally resistant weldment with two lockable and two fixed steering rollers or four lockable steering rollers
- Speed control is continuously ajdustable, allowing a smooth starting
- 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 cage** before the length measuring unit, easily adjustable to match the material
- **Length measuring device MESSBOI 40 LC / LC-MID** with preselection counter
  - Error limit (with in-and outlet roller cages) + / - 0,5 %
  - Pre-selection counter with disconnecting contact of the drive

Recommended equipment:

- **Pneummatically or hydraulically operated cutting** system for cutting the winding material.
- **Roller feed** as a transport- and positioning unit
  - Rubber plated high resistant drive rollers with non-return safety device
  - Lifting and lowering of the top roller unit via push button
  - Contact pressure manually adjustable by a pressure controller
  - Drive of the lower transport roller by the speed-controlled geared motor
  - Feeding speed max. 30 m / min
  - Tensile force approx. 120 N
- **Alternative belt feed**
  - Lifting and lowering of the top belt unit via push button
  - Contact pressure manually adjustable by a pressure controller
  - Drive of both belts by means of a speed-controlled geared motor with retractable precision drive shafts
  - Feeding speed max. 55 m / min
  - Tensile force approx. 500 N
- **Coil pin motorized** size of the coil pins is selectable.
- **Printer head holder and guide for inkjet printer** with fine adjustment in the X and Y axis
  - **Second rotary pulse** for Inkjet-printersystem
  - **Straightening unit** adjustable by hand
- **Conformity assessment / MID (formerly first calibration)**
  - **Automatic storage** of the cutting data
  - **Label printer** with interface to the preselection counter
  - **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

kabelmat easy winding. easy working.

Compact winding machine with high operating comfort

Fig. 1 MOTROL 500

Fig. 2 Coiler head 480SL

Fig. 3 Spool winding axle

Fig. 4 Label printer

Fig. 5 Label sample

MOTROL 500

- **Coil and spool winding machine for coiler head / spool-Ø max. 500 mm**

Functionality:

This motor-driven coil and spool winder enables to wind winding material like cables, tubes, hoses, steel cables, plastic profiles etc. onto coils or empty spools and to simutaneously carry out length measuring and cutting.

Technical Data	MOTROL 500
Part No.	**0674.000**
Winding material-Ø (depending on material)	2 - 30 mm
Coiler head / spool-Ø	max. 500 mm
Spool width (depending on type of spool winding axle)	max. 290 mm
Spool weight (depending on type of spool winding axle)	max. 100 kg
Winding drives selectable (depending on requirements)	140 rpm (075 kW) or 240 rpm (1,5 kW)
Electrical connection	230 V / 50 Hz or 400 V / 50 Hz
Traversing width	max. 270 mm
Inlet height	approx. 1100 mm
Pass-through direction	right to left
L x W x H	approx.1500 x 900 x1400 mm
Length with open protection cover	approx. 2100 mm
Colour machine	RAL 7005 mouse grey
Weight machine (without packing)	approx. 290 kg

MOTROL 500
Coil and spool winding machine

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-geared motor via chain
- Speed control is continuously ajdustable, 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 slided sidewards (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 device MESSBOI 40 LC / LC-MID** or **MESSBOI 40 B LC / LC-MID**
  - 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 winding material the traversing pitch adapts automatically via dia meter 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 continously 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 or pneumatic operated cutting system** for cutting the winding material

- **Roller feed** in support of cutting process and in connection with pneumatic cutting device for addtional operation mode „cut to length without winding process"

- **Coiler head** for winding of coils.
  Various models available

- **Spool winding axle** with quick-locking mechanism and frictional driver for winding of spools.
  Various sizes available

- **Conformity assessment / MID (formerly first calibration)**
  - **Automatic storage** of the cutting data
  - **Label printer** with interface to the preselection counter
  - **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

MOTROL 800 EASY

Coil and spool winding machine

Take it Easy.
Smart entry-level model

Fig. 1 MOTROL 800 EASY

Fig. 2 Coiler head RAPID 800 SL

Fig. 3 Spool winding axle

Fig. 4 Label printer

Fig. 5 Label sample

MOTROL 800 EASY

- **Coil and spool winding machine for coiler head / spool-Ø max. 800 mm**

Functionality:

This motor-driven coil and spool winder enables to wind winding material like cables, tubes, hoses, steel cables, plastic profiles etc. onto coils or empty spools and to simutaneously carry out length measuring and cutting.

Technical Data	MOTROL 800 EASY
Part No.	**0676.000**
Winding material-Ø (depending on material)	2 - 30 mm
Coiler head / spool-Ø	max. 800 mm
Spool width (depending on type of spool winding axle)	max. 310 mm
Spool weight (depending on type of spool winding axle)	max. 100 kg
Winding drive	70 rpm (0,75 kW)
Electrical connection	230 V / 50 Hz
Traversing width	max. 300 mm
Inlet height	approx. 1080 mm
Pass-through direction	right to left
L x W x H	approx. 1800 x 850 x1400 mm
Height with open protection cover	approx. 2000 mm
Colour machine	RAL 7005 mouse grey
Weight machine (without packing)	approx. 300 kg

MOTROL 800 EASY

Coil and spool winding machine

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-geared motor via chain
- Speed control is continuously ajdustable, 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
- **Length measuring device MESSBOI 40 LC / LC-MID**
  - Error limit (with in- and outlet roller cages) + / - 0,5 %
  - Pre-selection counter with disconnecting contact of the drive

Recommended equipment:

- **Manual operated cutting system** for cutting the winding material

- **Coiler head** for winding of coils.
  Various models available

- **Spool winding axle** with quick-locking mechanism and frictional driver for winding of spools.
  Various sizes available

Conformity assessment / MID (formerly first calibration)

- **Automatic storage** of the cutting data
- **Label printer** with interface to the preselection counter
- **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Winding machine for professionals

Fig. 1 MOTROL 800

Fig. 2 Coiler head RAPID 800 SL

Fig. 3 Spool winding axle

Fig. 4 Label printer

Fig. 5 Label sample

MOTROL 800

- **Coil and spool winding machine for coiler head / spool-Ø max. 800 mm**

Functionality:

This motor-driven coil and spool winder enables to wind winding material like cables, tubes, hoses, steel cables, plastic profiles etc. onto coils or empty spools and to simutaneously carry out length measuring and cutting.

Technical data	MOTROL 800
Part No.	**0715.000**
Winding material-Ø (depending on material)	2 - 60 mm
Coiler head / spool-Ø	max. 800 mm
Spool width (depending on type of spool winding axle)	max. 425 mm
Spool weight (depending on type of spool winding axle)	max. 100 kg
Winding drives selectable (depending on requirements)	95 rpm (1,5 kW) or 130 rpm (3,0 kW)
Electrical connection	400 V / 50 Hz
Traversing width	max. 400 mm
Inlet height	approx. 1140 mm
Pass-through direction	right to left
L x W x H	approx. 2000 x 1000 x 1400 mm
Height with open protection cover	approx. 2150 mm
Colour machine	RAL 7005 mouse grey
Weight machine (without packing)	approx. 500 kg

MOTROL 800
Coil and spool winding machine

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-geared motor via chain
- Speed control is continuously ajdustable, 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 device MESSBOI 40 LC / LC-MID, MESSBOI 40 B LC / LC-MID** or **MESSBOI 80 LC / LC-MID**
  - 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 winding material the traversing pitch adapts automatically via dia meter 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 continously 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 addtional operation mode "Cut to length without winding process"

- **Coiler head** for winding of coils. Various models available

- **Spool winding axle** with quick-locking mechanism and frictional driver for winding of spools. Various sizes available

- **Conformity assessment / MID (formerly first calibration)**
  - **Automatic storage** of the cutting data
  - **Label printer** with interface to the preselection counter
  - **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Winding machine in a perfect combination

Fig. 1 MOTROL 1000

Fig. 2 Coiler head RAPID 1000 SL

Fig. 3 Lift-type device for drums

Fig. 4 Label printer

Fig. 5 Label sample

MOTROL 1000

- **Coil and spool winding machine for coiler head / drum-Ø max. 1000 mm**

Functionality:

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 winded spools resp. drums can be removed with a lift-type device (Fig.3)

Technical data	MOTROL 1000
Part No.	**0705.000**
Winding material-Ø (depending on material)	2 - 60 mm
Coiler head / drum-Ø	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 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
L x W x H	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

MOTROL 1000
Coil and drum winding machine

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-geared motor via chain
- Speed control is continuously ajdustable, 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 device MESSBOI 40 LC / LC-MID, MESSBOI 40 LC / LC-MID** or **MESSBOI 80 LC / LC-MID**
  - 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 winding material the traversing pitch adapts automatically via dia meter 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 continously 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 addtional 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)**
  - **Automatic storage** of the cutting data
  - **Label printer** with interface to the preselection counter
  - **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Coil winding made easy

Fig. 1 RINGROL 600 with open cover and binding device

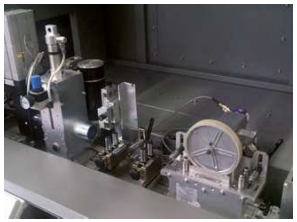

Fig. 2 Example traversing unit

Fig. 3 Winding unit

Fig. 4 Cable fixing clamp for winding plate

RINGROL 600

- **Semi-automatic coil winding machine for coil-Ø max. 600 mm**

Functionality:

This semi-automatic coil winder allows to wind materials such as cables, tubes etc. onto coilers.Simultaneously, the material can be measured and cut to length. The mounted extension unit with automatic traversing drive is provided for the installation of a length measuring device (additional equipment), a material cutter or a feeder unit. The machine works semi-automatically, the cable catch is manually fed into the winding core. The machine winds the coil automatically and stops upon reaching the pre-selected length. Afterwards, the wound coil is pushed to the desk of a binding device (accessories) by the operator in order to be wound finally. Kabelmat drum storage racks are suitable for the direct winding.

Technical data	RINGROL 600
Part No.	**3830.000**
Winding material-Ø (depending on material)	max. 20 mm
Winding plate-Ø	600 mm
Core-Ø	200 - 370 mm infinitely variable
Winding height	50 - 160 mm infinitely variable
Operating height	1075 mm (+/- 25 mm)
Coil weight	max. 25 kg
Roation speed	0 - 280 min^{1} (1,5 kW) continuously adjustable
Line speed	max. 200 m/min
Electrical connection (CEE-connector plug)	230 / 400 V - 50 Hz
L x W x H (without binding unit and closed protective cover)	approx. 2200 x 1350 x 1650 mm
Weight	approx. 600 kg

RINGROL 600
Semi-automatic coil winder

Basic equipment:

- Painted, solid steel profile frame with two lockable steering rollers and two fixed rollers
- Proctective hood with safety switch integrated in the machine
- Horizontal table board equipped with integrated winding plate and core segments which can be lowered
- Winding core pneumatically adjustable
- Winding core diameter continuously adjustable manual, with scale
- Automatic tapering of the core when lowering
- Ring height adjustable by a motor
- Pneumatic free lift of the winding counter plate
- Traversing slide prepared for the assembly of additional devices such as length measuring devices, material cutter, feeding systems and guides
- Automatically driven traversing slide consisting of geared motor with working speed control
- Traversing speed automatically adapts to the winding working speed (synchronization)
- Winding drive by AC-geared motor with variable working speed allowing a smooth start
- Speed control adjustable via potentiometer in the control panel
- Electrical switch cabinet installed in the machine
- Operating panel ergonomically integrated into the base frame
- Operating side: on the left (in winding direction)
- Easy-to-handle control and operating centre in the working area with ermergency-stop button, provided for the installation of a pre-selection counter
- Touchpanel for the display of operating conditions and error messages as well as for the input of operating parameters

Recommended equipment:

- **Length measuring device MESSBOI 40 LC / LC-MID** with optionally selectable central adjustment of the guide rollers
  - Error limit (with in-and outlet roller cages) + /- 0,5 %
  - Conformity assessment of the length measuring device according module F is approved by German calibration authoritys for a period of two years, valid in EEA.
  - Pre-selection counter with disconnecting contact of the drive

Optional:

- **Automatic storage** of the cutting data
- **Pneumatically operated cutting** unit for cutting the winding material
- **Material feeder** allows to put the winding material quickly in the winding unit
- **INKJET printer** in order to print phrases or figures onto the winding material
- **Binding unit** for wound coil mountable at the machine

Fig. 5 Binding unit

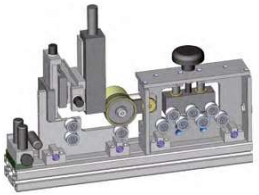

Fig. 6 Guiding unit for the printing head

Recommended delivery systems:

- Unwinder: TROMTRAK, TROMROL, UMROL or PORTROL as feeding system manually driven or motorized
- Drum storage and unwinding system LAGROL

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

Coil winding made easy

Fig 1 RINGROL 800

Fig 2 Example traversing unit

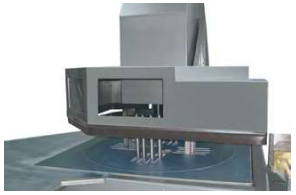

Fig 3 Winding unit

Fig. 4 Central adjustment of the guide rollers optional motor driven version available

RINGROL 800

- **Semi-automatic coil winding machine for coil-Ø max. 800 mm**

Functionality:

This semi-automatic coil winder allows to wind materials such as cables, tubes etc. onto coilers. Simultaneously, the material can be measured and cut to length. The mounted extension unit with automatic traversing drive is provided for the installation of a length measuring device (additional equipment), a material cutter or a feeder unit. The machine works semi-automatically, the cable catch is manually fed into the winding core. The machine winds the coil automatically and stops upon reaching the pre-selected length. Afterwards, the wound coil is pushed to the desk of a binding device (accessories) by the operator in order to be wound finally. Kabelmat drum storage racks are suitable for the direct winding.

Technical data	RINGROL 800
Part No.	**3853.000**
Winding material-Ø (depending on material)	max. 30 mm
Winding plate-Ø	800 mm
Core-Ø	300 - 550 mm infinitely variable
Winding height	50 - 200 mm infinitely variable
Operating height	1075 mm (+/- 25 mm)
Coil weight	max. 70 kg
Roation speed	0 - 250 min¹ (3 kW) continuously adjustable
Line speed	max. 250 m / min
Electrical connection (CEE-connector plug)	230 / 400 V - 50 Hz
L x W x H	2700 x 1700 x 2100 mm
Weight (without accessories)	approx. 800 kg

RINGROL 800
Semi-automatic coil winder

Basic equipment:

- Painted, solid steel profile frame to be screwed on the ground
- Protective hood is pneumatically opened and closed at a push of a button
- Protective hood with safety switch integrated in the machine
- Horizontal winding desk with built-in winding plate
- Winding core pneumatically adjustable
- Infinitely variable core diameter
- Counter plate adjustable to coil width by push of a button
- Pneumatically liftable counter plate
- Traversing slide provided for additional units such as length measuring devices, material cutter, feeders and guidances
- Automatic servo drive for traversing slides
- Traversing speed automatically adapts to rotation speed (synchronization)
- Winding drive by AC gear motor with infinitely variable speed control as well as speed control via potentiometer adjustable in control desk
- Easy-to-handle control and operating centre in the working area with ermergency-stop button, provided for the installation of a pre-selection counter
- Touch panel for the display of operating conditions and error messages as well as for the input of operating parameters
- Electrical switch cabinet installed in the machine
- Electrical connection via strip terminal in switch cabinet
- Operating side: on the left (in winding direction)

Recommended equipment:

- **Length measuring device MESSBOI 80 LC / LC-MID** with optionally selectable central adjustment of the guide rollers
  - Error limit, accuracy class III with additional inlet and outlet roller cages + / - 0,5 %
  - Conformity assessment of the length measuring device according module F is approved by German calibration authoritys for a period of two years, valid in EEA
  - Pre-selection counter with disconnecting contact of the drive

Optional:

- **Automatic storage** of the cutting data
- **Pneumatically operated cutting unit** for cutting the winding material
- **Material feeder** allows to put the winding material quickly in the winding unit
- **INKJET printer** in order to print phrases or figures onto the winding material
- **Binding unit** for wound coil mountable at the machine

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

**High outputs,
Short changeover times -
Fully automated coil winding**

Fig. 1 RINGROL 1200 with saftey fence and roller guide

RINGROL 1200

- **Fully automatic coil winder for coil-Ø max. 1200 mm**

Functionality:

This horizontally working fully automatic coil winder has been designed for winding in-line and off-line plastic pipes (e.g. B. PE, PE-X, PB, etc.), plastic metal compound pipes (e.g. B. PE-AL-PE, PE-CU, etc.) as well as hoses and other coilable materials. The pipe to be coiled is at first transported by means of the feed unit (either provided for by the customer or integrated in the laying unit). The material feed (roller guide or guiding pipe) transports the front end of the pipe to the opening provided for in the winding core and there, it is pneumatically fixed.This operation takes place without stop up to extrusion speed due to the synchronisation of the servo-controlled axles so that there is no need to stop the continuously extruded pipe. Due to the rotational movement of the winding core, a coiled pipe bundle is obtained. Prior to cutting, the bundle is held together by a four-arm gripper. After winding the remaining length, the winding core is with drawn upwards and the bundle is transported to the strapping unit. The coil can be strapped several times with PP strap or wrapped with plastic foil. For this purpose, it is turned over. On completion of the strapping, the coil is pushed out on a roller track by means of a two-axle coil ejector. Sturdy machine frame with sheet-metal covecoil of stationary design with a separately placed electric switch cabinet and switch desk for the central control of all machine functions.

Technical Data	RINGROL 1200
Part No.	**3021.000**
Winding material-Ø	8 - 32 mm
Coil outside-Ø	580 - 1200 mm
Winding core-Ø	400 - 600 mm
Winding height (coil width)	90 - 600 mm

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RINGROL 1200
Fully automatic coil winder

Fig. 2 Functional principle

Fig. 3 Finished product

Basic equipment:

Fig. 4 Traversing unit

Operator panel
- The operator panel is swivelling and installed at the operating side

Traversing unit
- Horizontally, vertically and longitudinally displaceable unit for the precise laying and positioning of the front end of the pipe at the winding core

Fig. 5 Coil winding station

Coil winding station
- Horizontally working winding unit with hinged winding cores
- Winding height (coil width) and winding core diameter are steplessly adjustable

Coil gripper system
- Pneumatically operated double-sided gripping unit to hold down the coiled bundle of coils and to transport it to the strapping unit
- Rubber covered driven gripping rollers to turn the bundle of coils ducoil strapping

Fig. 6 Coil gripper system

Coil ejector
- Two-axle linear system driven by a servomotor for pushing out the finished bundle of coils onto a roller track

Fig. 7 Coil ejector

Strapping station for PP straps
- Station for the multiple strapping of the bundle of coils with PP strap trough the lug of the coil

Fig. 9 Straping station for PP straps

Further modules:

Fig. 8 Wrapping station for stretch straps

**Wrapping station for stretch straps
(as an alternative to wrapping with PP straps)**
- For the partial or complete wrapping of the bundle of coils trough the lug

Holding-down device for the wrapping station
- To avoid that the bundle of coils bursts prior to wrapping (particularly in case of rigid elastic plastic pipes)
- Automatically adjustable to changing height

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UMROL 1000 AUF

Pintle winder for coils and drums

Winding big drums at the touch of a button

Fig. 1 UMROL 1000 AUF with closed cover

UMROL 1000 AUF

- **Pintle winder for coils and drums**

Functionality:

This motor driven coil and drum pintle winders are suitable for winding goods, such as cables, tubes, hoses, steel ropes, plastic profiles etc. onto coils, spools or drums and simultaneously, measuring and cutting-to-length.

The empty drum on which the material is to be coiled, is rolled to the loading place. The previously opened centre sleeve arms are then moved together to the corresponding take-over position by the operator's push of a button. When the drum is clamped by the centre sleeves, the same move upwards in winding position. On the operating panel the drum can be turned forward and backward in manual operation. Prior to winding in automatic mode, the length to be cut is input with the keyboard of the Kabelmat preselection counter LC MID. In automatic winding mode, the preselected length is coiled. The drive traces the length according to the potentiometer adjustment on the operating panel and stops automatically once the length is reached. Soft start and soft stop of the drive according to the programmed ramps. The additional inching function is adjusted once only in the preselection counter. When the coiled material is cut off and the end is fixed, the drum is lowered again by the push of a button, it is rolled out of the machine and removed.

Technical Data	UMROL 1000 AUF
Part No.	**2025.000**
Drum-Ø	400 - 1000 mm (DIN 46391)
Drum width	120 - 710 mm
Drum weight	max. 600 kg
Standard drives (special speed on request)	75 min^{-1} (2,2 kW) or 130 min^{-1} (4,0 kW)
Inlet height of winding material	approx. 1230 mm
Traversing width	approx. 700 mm
Running direction	right to left
L x W x H	approx. 2135 x 1770 x 2245 mm
Weight	approx. 1100 kg

Max. winding material-Ø depending on the characteristics of the winding material.

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UMROL 1000 AUF

Pintle winder for coils and drums

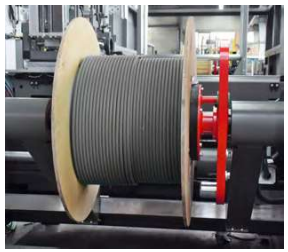

Fig. 2 Frictionally engaged drum driver

Fig. 3 UMROL 1000 AUF mobile with open cover

Fig. 4 UMROL 1000 AUF stationary with closed cover

Basic equipment:

- Steel profile frame with two breakable steering rollers and two fixed rollers or stationary design: to be screwed on the ground
- Grips for moving the machine
- Manually operated traversing slide provided for the installation of additional devices such as length measuring devices, material cutters as well as an automatic traversing unit
- Easy-to-handle and convenient drum loading with pintle arms driven by electric motor
- The functions lifting / lowering and tightening/releasing of the pintles are activated by push of a button
- Different cones for drum core drilling are insertable
- Holding fixture for coiler heads (quick-change system)
- The control panel with emergency switch is integrated in the base frame
- Additional control panel for positioning of the pintle arms, drum driver and emergency stop function
- Winding drive via geared motor with infinitely variable speed control and smooth starting of the machine
- Right-left handed rotation of the winding drive within the jogger operation mode
- Protective door for UMROL (available as collapsible door or as cover, requested for CE)

Recommended equipment:

- **Roller cages** before and after the length measuring device with adjustable ball beared rollers made of stainless steel requested for the calibration of the measuring devices
- **Length measuring device MESSBOI 40 LC / LC-MID** or **MESSBOI 80 LC / LC-MID**
  - Error limit, accuracy class III with additional inlet and outlet roller cages + / - 0,5 %
  - Conformity assessment of the length measuring device according module F is approved by German calibration authoritys for a period of two years, valid in EEA
  - Conformity assessment line speed up to 250 m / min
  - Preselection counter with disconnecting contact of the winding drive
  - Diameter recognition
- **Manually, pneumatically or hydraulically operated cutting device** for cutting the winding material
- **Automatic traversing** consisting of geared motor with rotation speed controller. Traversing can be moved to any position via joystick within the set-up mode. This is important for the starting position of the winding drive. The motion reversing points can be stored by means of reference keys during standstill of the machine but also during winding operation. Traversing speed adapts automatically to the winding speed (synchronization). The complete traversing drive can be unlatched for manual traversing.
- **Coiler head incl. adapter** for coil winding. Insertable into the coiler head acceptance. Centrally and infinitely adjustable winding core diameter. With four binding slots and four winding core segments. Various models available.
- **Frictionally engaged drum driver** with sleeve for easy loading of the drum without carrier bolts. Consisting of two carriers for both pintle arms; cylindric drum loading

Further auxiliary equipment on request

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

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Winding big drums at the touch of a button

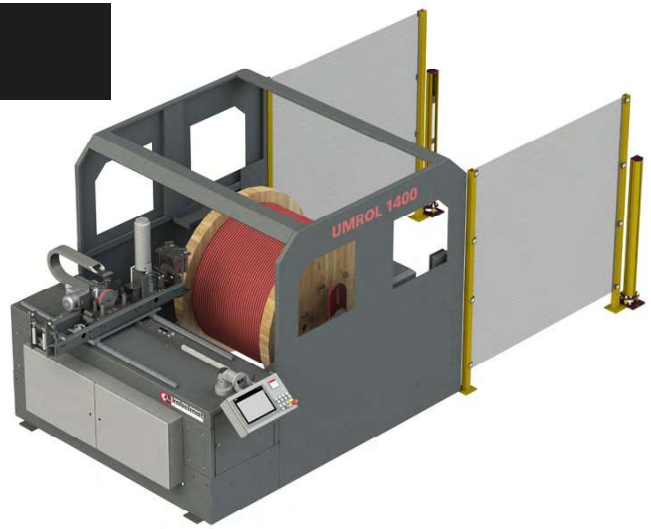

Fig. 1 UMROL 1400 AUF with protective fence

UMROL 1400 / 1600 / 2200 AUF

- **Pintle winder for coils and drums**

Functionality:

This motor driven pintle winder is suitable for winding goods, such as cables, hoses, steel ropes etc. onto coils or empty drums and, simultaneously, measuring and cutting them to length by making use of adequate accessories.

Upon opening the protective door the empty drum is rolled to the place of loading in order to be wound. By push of a button, the previously opened pintle arms are first moved together and then to the appropriate height for take-over. The pintles clamp the drum. Then the drums are lifted to winding position where they can be rotated forwards or backwards manually at the operating desk. Prior to the automatic winding of the material its cutting length is adjusted on the keyboard of the Kabelmat pre-selection counter LC MID. The pre-selected length is wound during automatic winding operation and the drive stops also automatically as soon as the requested length is reached. Smooth start and stop of the drive according to the adjusted ramps. Additional creep speed function in the pre-selection counter to be adjusted once. Upon cutting and fixing the end of the winding material, the ready wound drum is lowered by push of a button, rolled out of the machine and taken away.

Technical data	UMROL 1400 AUF	UMROL 1600 (1800) AUF	UMROL 2200 AUF
Part No.	**2045.000**	**2050.000 (2055.000)**	**2075.000**
Drum-Ø	630 - 1400 mm	630 - 1600 (710 - 1800) mm	710 - 2240 mm
Drum width	max. 900 mm	max. 1120 mm	max. 1450 mm
Drum weight	2000 kg	3000 kg	6000 kg
Traversing width	1090 mm	1200 mm	1700 mm
Winding drive	75 min^{1} or 130 min^{1}	60 min^{1} or 110 min^{1}	40 min^{1} or 60 min^{1}
Engine power	4 or 7,5 kW	5,5 or 11kW	7,5 or 11 kW
L x W x H	approx. 3000 x 2290 x 2300 mm	approx. 3200 (3400) x 2360 x 2300 mm	approx. 3800 x 2950 x 2500 mm
Weight	approx. 2500 kg	approx. 2800 kg	approx. 4800 kg

Drum sizes as per DIN 46391/46395 and KTG - All sizes are non-binding and will be defined in case of order.
Max. winding material-Ø depending on the characteristics of the winding material.

UMROL 1400 / 1600 / 2200 AUF
Pintle winder for coils and drums

Fig. 2 Traversing camera

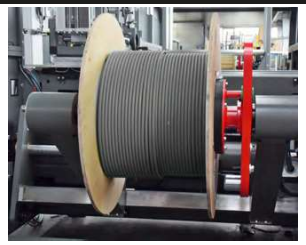

Fig. 3 Frictionally engaged drum driver

Fig. 4 Drive unit with drawbar

Basic equipment:

- Steel profile frame with two breakable steering rollers and two fixed rollers or stationary design to anchor to the floor
- Grips for moving the machine
- Manually operated traversing slide provided for the installation of additional devices such as length measuring devices, material cutters as well as an automatic traversing unit
- Easy-to-handle and convenient drum loading with hydraulically operated pintle arms
- The functions lifting/lowering and tightening/releasing of the pintles are activated by push of a button
- Holding fixture for coiler heads (quick-change system)
- Easily operatable control desk with emergency switch, provided for the installation of a length measuring unit
- Additional control panel for operation of the hydraulic functions, the positioning of the pintle arms and emergency stop function
- Winding drive: working speed and power selectable
- Right-left handed rotation of the winding drive within the jogger operation mode
- Protective door for UMROL (available as collapsible door or as cover, requested for CE)

Recommended equipment:

- **Roller cages** in front of and after the length measuring device with adjustable ball beared rollers of stainless steel. These are necessary for the calibration of the measuring devices.
- **Length measuring device MESSBOI 80 LC / LC-MID** or **MESSBOI 100 LC / LC-MID**
  - Error limit, accuracy class III with additional inlet and outlet roller cages + / - 0,5 %
  - Conformity assessment of the length measuring device according module F is approved by German calibration authoritys for a period of two years, valid in EEA
  - Conformity assessment line speed up to 250 m / min for MESSBOI 80 LC / LC-MID, 150 m / min for MESSBOI 100 LC / LC-MID
  - Preselection counter with disconnecting contact of the winding drive
  - Diameter recognition
- **Hydraulically operated cutting device** for cutting the winding material
- **Automatic traversing** consisting of geared motor with rotation speed controller. Traversing can be moved to any position via joystick within the set-up mode. This is important for the starting position of the winding drive. The motion reversing points can be stored by means of reference keys during standstill of the machine but also during winding operation. The traversing grade is continuously adjustable via rotary potentiometer even during winding operation. The traversing speed adapts automatically to the winding speed (synchronization). The complete traversing drive can be unlatched for manual traversing.
- **Coiler head incl. adapter** for coil winding. Insertable into the coiler head acceptance. Centrally and infinitely adjustable winding core diameter. With four binding slots and four winding core segments. Various models available.
- **Frictionally engaged drum driver** with sleeve for easy loading of the drum without carrier bolts. Consisting of two carriers for both pintle arms; cylindric drum loading.
- **Travelling drive** for mobile use

Further auxiliary equipment on request

UMROL 1400 / 1600 / 2200 AUF

Pintle winder for coils and drums

High level of security and defined working areas

Fig. 5 UMROL 1400 AUF with flap gate

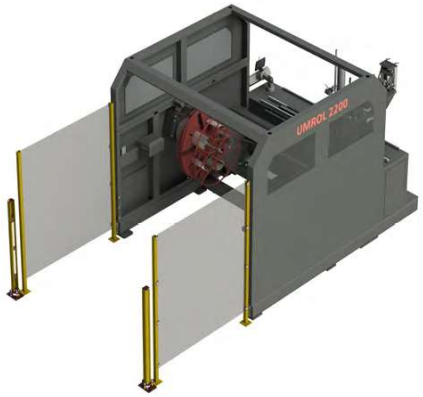

Fig. 6 UMROL 2200 with protective fence and coiler head, view 1

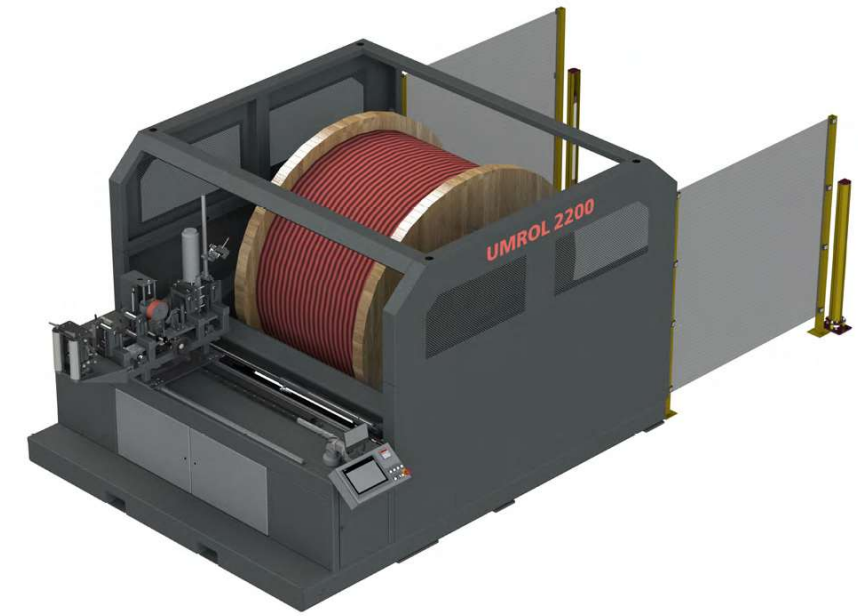

Fig. 7 UMROL 2200 with protective fence, view 2

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Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

PORTROL 1000 / 1400 AUF

Pintle winder for coils and drums

Cut at the touch of a button

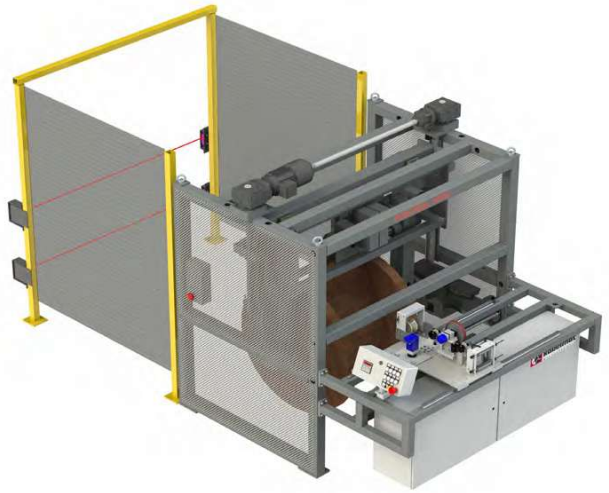

Fig. 1 PORTROL 1000 AUF

PORTROL 1000 / 1400 AUF

- **Pintle winder for drums and coils**

Functionality:

This motor driven pintle winder is suitable for winding goods, such as cables, hoses, steel ropes etc. onto coils or empty drums and, simultaneously, measuring and cutting them to length by making use of adequate accessories.

Upon opening the protective door the empty drum is rolled to the place of loading in order to be wound. By push of a button, the previously opened pintle arms are first moved together and then to the appropriate height for take-over. The pintles clamp the drum. Then the drums are lifted to winding position where they can be rotated forwards or backwards manually at the operating desk. Prior to the automatic winding of the material its cutting length is adjusted on the keyboard of the Kabelmat pre-selection counter LC MID. The pre-selected length is wound during automatic winding operation and the drive stops also automatically as soon as the requested length is reached. Smooth start and stop of the drive according to the adjusted ramps. Additional creep speed function in the pre-selection counter to be adjusted once. Upon cutting and fixing the end of the winding material, the ready wound drum is lowered by push of a button, rolled out of the machine and taken away.

Technical data	PORTROL 1000 AUF	PORTROL 1400 AUF
Part No.	**6198.000**	**6251.000**
Drum-Ø	400 - 1000 mm	400 - 1400 mm
Distance between the cones	max. 780 mm	max. 1050 mm
Drum weight	max. 900 kg	max. 2000 kg
Winding speed	max. 120 min^{1}	max. 120 min^{1}
Traversing width	approx. 700 mm	approx. 1050 mm
Inlet height of winding material	approx. 1030 mm	approx. 1130 mm
L x W x H	1530 x 2200 x 2100 mm	2300 x 2400 x 2500 mm
Colour housing	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight	approx. 1200 kg	approx. 1400 kg

Max. winding material-Ø depending on the characteristics of the winding material.

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PORTROL 1000 / 1400 AUF

Pintle winder for coils and drums

Basic equipment:

- Solid steel profile frame to be screwed on the floor
- Manually operated laying slide, prepared to accommodate additional equipment such as length measuring devices, material cutters as well as an automatic laying device
- Very simple and easy material holding fixture with electric motor operated centre sleeve arms
- The functions lifting / lowering as well as clamping / opening of the centre sleeves at the push of a button
- Various slip-on cones for the borehole of the drum core
- Control panel with emergency stop button is ergonomically integrated in the base frame
- Additional control panel for operating the traversing functions and positioning the quill arms, as well as emergency stop function in the reel-in area of the drum
- CE conformity declaration according to machinery directive 2006 /42 / EG
- Switch cabinet integrated in the machine frame
  - Main Switch
  - Speed regulation steplessly adjustable with soft starting and soft running
- Right to left running of the winding drive in inching operation
- **Roller cages** before and behind the length measuring unit, easily adjustable to match the material.
  Various models available depending on the requirements
- **Length measuring device MESSBOI 40 LC / LC-MID, MESSBOI 40 B LC / LC-MID** or **MESSBOI 80 LC / LC-MID**
  - Error limit, accuracy class III with additional inlet 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 winding materials 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 continously 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.

- **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 addtional operation mode "Cut to length without winding process"

- **Coiler head** for winding of coils.
  Various models available

- **Conformity assessment / MID (formerly first calibration)**
  - **Automatic storage** of the cutting data
  - **Label printer** with interface to the preselection counter
  - **Conformity assessment** to module F (in accordance with the European Measuring Instruments Directive 2014/32/EU) of the length measuring device with additional inlet and outlet roller cages by the German calibration authority. **Valid for a period of two years** for all member states of the EEA. The assessment is carried out in the manufacturer's factory. **Calibration after two years is required**, but is not included in the scope of delivery. Note: Conformity assessment according to module F (formerly first calibration) is required when the **customer is not present** during the cutting of the material (cables ect.). **Required**: Storage of the cutting data and documentation on the business records.

Further auxiliary equipment on request

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Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

PORTROL 1000 / 1400 ABW

Pintle unwinder for drums

Drum unwinder with material accumulator

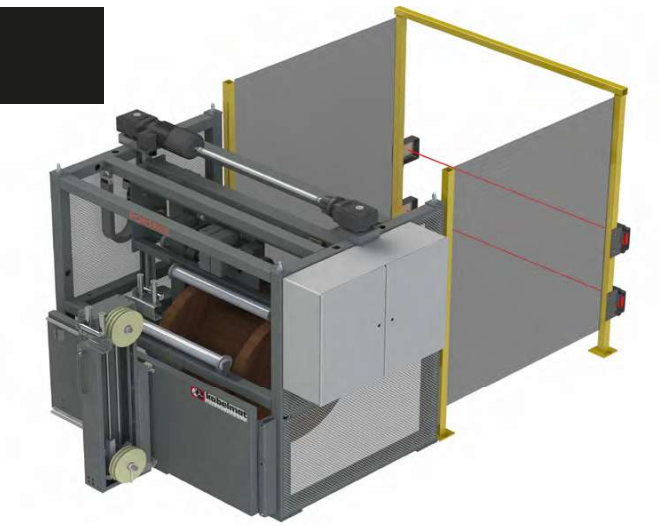

Fig. 1 PORTROL 1000 AB

PORTROL 1000 / 1400 ABW

- **Pintle unwinder for drums**

Functionality:

This portal-type winder is suitable as individual machine or can be used in complete processing lines. The drum attachment is time-saving and safe due to spindle sleeves.The drum is rolled to the loading place. The previously opened centre sleeve arms are then moved together to the corresponding take-over position by the operator's push of a button. When the drum is clamped by the centre sleeves the same move upwards in winding position. On the operating panel the drum can be turned forward and backward in manual operation. When operating in a line, the unwinder (Pay-off) is then automatically controlled. A prerequisite for this is that there is no person or object in the access area of the safety light barriers. The speed is controlled by a dancer roller or a material buffer ACUMATIC as well as optionally by the additional preset nominal value. This takes into account the corresponding high time or elapsed time resp. as well as the line speed. This ACUMATIC is available in different types and sizes. It controls the speed of an unwinder according to the start and brake cycles and serves also as bridgeover of short standstill periods of a winding line. The ACUMATIC is particularly required for tension-sensitive materials. However, tension-sensitive materials can also be coiled directly using the additional operating mode "closed-loop torque control".

Technical data	PORTROL 1000 ABW	PORTROL 1400 ABW
Part No.	**6197.000**	**6250.000**
Drum-Ø	400 - 1000 mm	400 - 1400 mm
Distance between centres with cones	max. 750 mm	max. 1050 mm
Drum weight	max. 900 kg	max. 2000 kg
Winding drive	max. 120 min^{1}	max. 120 min^{1}
L x W x H	1530 x 2200 x 2100 mm	1860 x 2420 x 2500 mm
Weight	approx. 900 kg	approx. 1200 kg
Max. winding material-Ø depending on the characteristics of the winding material.		

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PORTROL 1000 / 1400 ABW

Pintle unwinder for drums

Basic equipment:

- Solid steel profile frame to be screwed on the floor
- Drum carried by pintles with easily exchangeable cones incl. on one-side mounted impeller and movable carrier bolts
- Easy-to-handle and convenient drum loading with pintle arms driven by electric motor
- The pintles move together and allow the use of very narrow spools
- The functions lifting / lowering and tightening / releasing of the pintle arms are activated by push of a button
- The control panel for loading of the winders is installed in the drum roll-in area (on motor side)
- Switch cabinet implemented in the machine
- Electrical connection via CEE coupler plug at the switch cabinet
- Operator´s stand on the left side of the machine (pass-through direction of the winding material), optionally on the right side
- safety equipment required for CE (selectable systems)
  - Protection door for PORTROL (foldable design)
  - Safety fence with two super-imposed safety light barriers

Recommended equipment:

- **Speed-controlled gear motor** depending on technical spezifications
- **Frictionally engaged drum driver** with sleeve for easy loading of the drum without carrier bolts. Consisting of two carriers for both pintle arms. Cylindric drum loading.
- **ACUMATIC, material accumulator / dancer**
- **Instantaneous regulation of winding drive**

TROMPIN 800 / 1250

Drum and spool unwinder

With mounted accumulator

Fig. 1 TROMPIN 800 with open safety doors

Fig. 2 TROMPIN 800 back view with mounted accumulator section

Fig. 3 TROMPIN 800 with closed safety doors

TROMPIN 800 / 1250

- **Motorised drum and spool unwinder for cables, hoses and other materials**

This motorised drum and coil unwinder is the perfect addition to our range of stripping and winding machines. The fitted accumulator section allows you to unwind cables, hoses and much more virtually free of tension and enables synchronisation of the drive units along the line of machines (consisting of stripping, winding and pay-off devices).

Functionality:

The drum that is to be unwound is rolled to the mounting location by hand. The drum is mounted securely and expeditiously using barrel arms. The operator presses a button to move the open barrel arms together one by one and to the correct transfer height. Once the barrel arms have clamped the drums in place, they are moved up to the unwinding position. The unwinder is controlled automatically in a line operation. This can only take place if the safety doors are closed.

Technical data	TROMPIN 800	TROMPIN 1250
Part No.	**2035.000**	**2037.000**
Drum-Ø	400 - 800 mm	400 -1250 mm
Drum weight	max. 400 kg	max. 600 kg
Material-Ø	approx. 1 - 16 mm	approx. 1 - 16 mm
Distance between centre of cones	max. 660 mm	max. 1050 mm
Speed for core-Ø > 200 mm*	180 m / min	180 m / min
Accumulator section wheel-Ø	240 mm	240 mm
L x W x H	approx. 1750 x 1500 x 1500 mm	approx. 2200 x 2200 x 1700 mm
Weight	approx. 750 kg	approx. 1250 kg
Storage section wheel assembly and tensile force subject to customer specification. * For a core-Ø < 200 mm, the max. speed will decrease		

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

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SPULFIX 480

Coil and spool unwinding machine

Perfect complement to processing machines

Fig. 1 SPULFIX 480 with open cover

SPULFIX 480

- **Coil and spool unwinding machine**

Functionality:

This machine is used as feeding device of all kinds of winding material to processing machines, such as Kabelmat take-ups or pre-assembling systems, e.g. automatic cutting machines, dismantling or stripping devices. The winding good can optionally be understood as coil or spool material. The rotation speed of the unwinder is controlled either by an accumulator or alternatively by additional set value taking the requested run-up and run-down time as well as the line speed into consideration.

Technical data	SPULFIX 480
Part No.	**1823.000**
Unwinding plate-Ø	max. 480 mm
Loading capacity	max. 20 kg
Accumulator capacity	3 m
Numbers of accumulator wheels	5 / 6
Winding material-Ø	max. 10 mm
Unwinding rotation speed	200 U / min
Pull force without additional weight	1,0 N
Pull force with weight (abt. 200 g)	1,5 N
Pull force with 2 weight (abt. 650 g)	1,7 N
Pull force with 3 weight (abt. 850 g)	2,0 N
L x W x H	approx. 1350 x 620 x 1860 mm
Weight	approx. 120 kg

SPULFIX 480

Coil and spool unwinding machine

Basic equipment:

- Mobile basic machine as self-supporting, torsionally resistant weldment
- Holder for exchangeable dispensing plate of an outer diameter of up to 480 mm
- Mounted accumulator with a stroke of 500 mm and reverse-locked outlet roller
- Switch cabinet with operating elements
- Additional outlet dancer for decreasing the starting pull force
- Built-in potentiometer for pre-setting the line speed
- Switch-off sensor for lower and upper accumulator position
- Sensor for regulating the dispensing plate

Additional equipment:

- **SPULFIX 480 horizontal unwinding plate for spools**

Technical data	
Spool-Ø	max. 470 mm
Spool width	max. 250 mm
Plate-Ø	480 mm
Core pin	Ø 16 x 200 mm
Centering cone for bore-Ø	25 - 80 mm
Spool weight	max. 20 kg
Colour	zinc-plated

- **RINGFIX 480 horizontal unwinding plate for coils**

Technical data	
Coil outer-Ø	max. 470 mm
Plate-Ø	480 mm
Height centering cones (3 pcs.)	250 mm
Core adjusting range	140 - 320 mm
Coil weight	max. 20 kg
Colour	zinc-plated

Fig. 2 SPULFIX 480 unwinding plate

Fig. 3 RINGFIX 480 unwinding plate

Fig. 4 SPULFIX 480 with closed cover

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TROMTRAK 1600

Axle unwinder for drums

Perfect complement to processing machines

Fig.1 TROMTRAK 1600 elektrohydraulic drum unwinder

Fig. 2 TROMTRAK 1600 with saftey fence with wing doors as access to the drum loading with saftey shutdown and outlet roller cage for guiding the winding material

TROMTRAK 1600

- **Electrohydraulic unwinder for drums max. 3000 kg**

Functionality:

TROMTRAK drum unwinder can be used as single unwinder as well as in complete processing lines. If the TROMTRAK 1600 unwinder is to be operated in conjunction with a motor-driven winder, a safety fence (Fig.2 or Fig.3) is absolutely necessary.

Basic equipment:

- Stationary frame
- Elektrohydraulic pump with manual relase
- Two axles for the take-up of drum
- Two cones for centering the drums on the axle
- Electrical supply via CEE plug

Accessory for mechanical unwinding:

- **Saftey fence for TROMTRAK 1600 with wing doors** as access to the drum loading with safety shutdown. Outlet roller cage for guiding the winding material.

- **Saftey fence for TROMTRAK 1600 with wing and sliding doors** as access to the drum loading and the cable loading between the unwinder (Pay-off) and rewinder (Take-up) with safety shutdown.

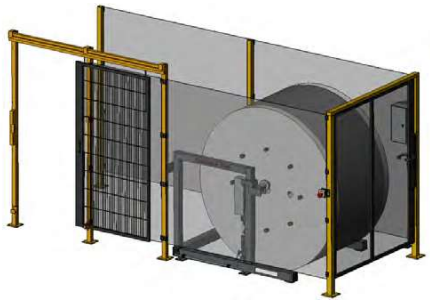

Fig. 3 TROMTRAK 1600 with saftey fence with wing and sliding doors as access to the drum loading and cable loading between unwinder and rewinder and rewinder with safety shut-off

Technical data	TROMTRAK 1600
Part No.	**1189.000**
Drum-Ø	500 - 1600 mm
Drum width	max. 1120 mm
Drum weight	max. 3000 kg
L x W x H	approx. 1600 x 1785 x 1200 mm
Weight	approx. 400 kg
Drum axle no. 1	Ø 34 x 1340 mm
Drum axle no. 2	Ø 60 x 1340 mm
Electrical supply via CEE plug	230 / 400 V - 50 Hz

kabelmat easy winding. easy working.

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

TROMROL 2500

Axle unwinder for drums

Perfect completement to processing machines

Fig. 1 TROMROL 2500

TROMROL 2500

- **Electrohydraulic unwinder with axle and disk brake for drums up to 5000 kg**

Functionality:

The range of application of this drum unwinder is the feed of coilable materials of all kind. It can be used as individual feeding equipment as well as in complete processing lines. The drum is fixed on an end-to-end axle.

Basic equipment:

- Frame of steel profiles with two rollers for heavy loads and two lockable steering rollers
- Drum holding fixture height adjustable by the push of a button by means of a hydraulic cylinder and an electrohydraulic pump

Accessory for mechanical unwinding:

- **Safety fence for TROMROL 2500 with wing doors** as access to the drum loading with safety shutdown. Outlet roller cage for guiding the winding material.

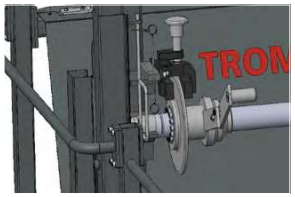

Fig. 2 Disk brake and caliper

Technical data	TROMROL 2500	
Part No.	**1182.000**	
Drum-Ø	400 - 2500 mm	
Drum width	max. 1450 mm	
Drum weight	max. 5000 kg	
L x W x H	approx.1750 x 2130 x 1900 mm	
Weight	approx. 500 kg	
Electrical supply via CEE plug	230 / 400 V - 50 Hz	

Accessory for TROMROL 2500	Drum axle up to 1200 kg	Drum axle up to 5000 kg
Axle-Ø	65 mm	70 mm
Axle loading	max. 1200 kg	max. 5000 kg
Weight	approx. 25 kg	approx. 38 kg
Material	aluminium	hot-dip zinc-plated

These axles are equipped with plain bearing. Disk brake with caliper. Brake force is adjustable by star grip.

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

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Permanent label print on cables and wires

Fig. 1 SIGNOMAT view 1

SIGNOMAT

- **Sinter machine for cables and wires**

Whether used nearly railways, in telecommunications, or power supply, cables almost always run underground. When they are dug out years later for service or maintenance work engineers want to easily identify what cable they are handling. In order to permanently identify the label, the SIGNOMAT prints on the cables and wires during production while they are still warm. This enables the machine to sinter the label.

Functionality:

This system allows highly resistant cable printing without affecting the mechanical or electrical properties of the material. The marking is visible, palpable and absolutely abrasion proof, what is useful e. g. in shafts where bad lighting conditions are prevailing: the form of the signs can be felt thanks to the surface roughness of the used sinter powder. The resistance to abrasion, weather conditions, humidity and aggressive soil gives the Signomat printer undoubtedly advantages opposite the ink jet printing system.

Unique process:

The marking is performed directly on the hot plastics, i. e. just after extrusion. Two marking wheels put the synthetic powder onto the extruded material at the distance requested and in compliance with the forms required. The sinter powder unites tightly with the surface of the extruded material. No additional heating is needed since the residual heat of the plastic material is used to melt powder and sheath (between 150° and 180°C).

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SIGNOMAT
Sinter machine

Fig. 2 SIGNOMAT view 2

Fig. 3 SIGNOMAT centering device

Technical data	SIGNOMAT
Part No.	**8501.000**
Production speed	3 - 100 m / min
Range of Ø to be marked	6 - 100 mm
Circumference of marking wheel	1000 mm
Circumference of guiding wheel	1000 mm
Metering distance	1000 mm
Working height	950 - 1200 mm
Precision	< 1%
Marking powder consumption	approx. 250 g / km
Connected load	230 / 400 V
Connection power	approx. 1,0 kW
Line frequency	50 Hz
Electrical connection (CEE-connector plug)	CEE 16 A
Compressed air: Pressure	6 bar
Compressed air connection (quick release)	1 / 2 Zoll
L x W x H	approx. 800 x 800 x 1300 mm
Weight	approx. 300 kg
Colour	RAL 7005 mouse grey

Indoor use only.
Fig. may differ from original.
Technical modifications reserved.

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MACHINERY PLANTS AND LINES

PRODUCTS

Powerful all-in-one solution

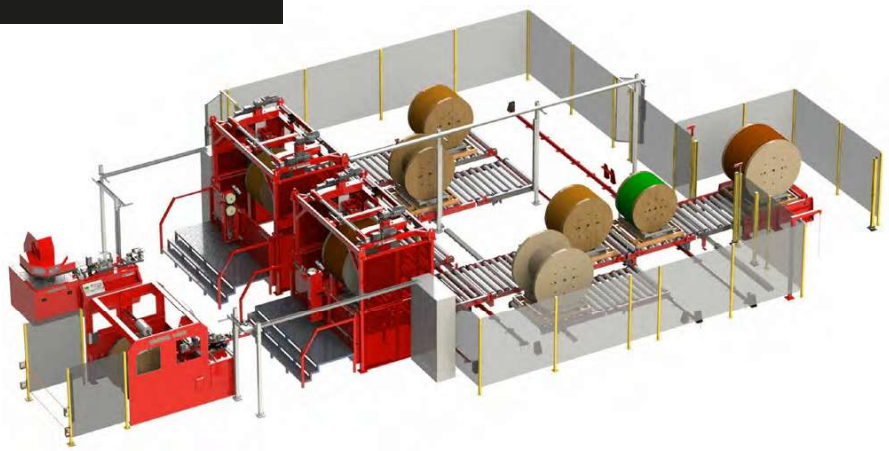


Fig. 1 AUTOLOG winding line

AUTOLOG

- **Winding line with automatic drum pick-up**

Cables and lines for the transfer of different types of electrical energy or data are now an important component of building services engineering, machine and plant engineering, telecommunications and a range of other applications.

Kabelmat offers two different systems which are discribed below:

System 1: Machine to drum

The approved system „Machine to drum" is still used in many sectors. The advantages of this system are short access times by picking the material, easy operating of the machine as well a low investment costs. It is mainly used, where number of cuts are low and fewer additional staff will be needed.

System 2: Drum to machine

Depending on increasing centralisation of cable warehouses there is an continously increasing number of variety of storing positions and cuttings. Routes to the machine are getting longer, complex and unprofitable. Therefore, more and more companies deciding to use the professional solution „Drum to machine". To ensure an effiecent deployment of staff, it is recommended to automate procedures as far as possible. Kabelmat also offers the right support for this.

AUTOLOG
Winding line with automatic drum pick-up

PERFECT INTERACTION

Synchronised workflow = reduced cycle time

WINDER AND UNWINDER

- High output performance
- High winding speed
- Automatic measurement of the drum
- Optical drum bore detection
- Automatic drum pick-up
- Frictionally engaged drum pick-up (no driver hole required)
- Winding drive on both sides for an even distribution of force on the drum
- Winding diameter registration for fine-tuning of the winding drives
- Cable accumulator for tension-sensitive cables

LENGTH MEASUREMENT

- Barcode identification of winding goods
- Assignment and documentation of winding goods
- Automatic storage and retrieval of winding data
- Marking of winding material by label printer (date, material, length, company logo)

SAFETY TECHNOLOGY

- Closed, complete system providing high level of safety
- Defined workspace for operators

CONVEYOR TECHNOLOGY

- Ability to integrate conveying system from various suppliers in efficient manner
- Transportation of drums on pallets

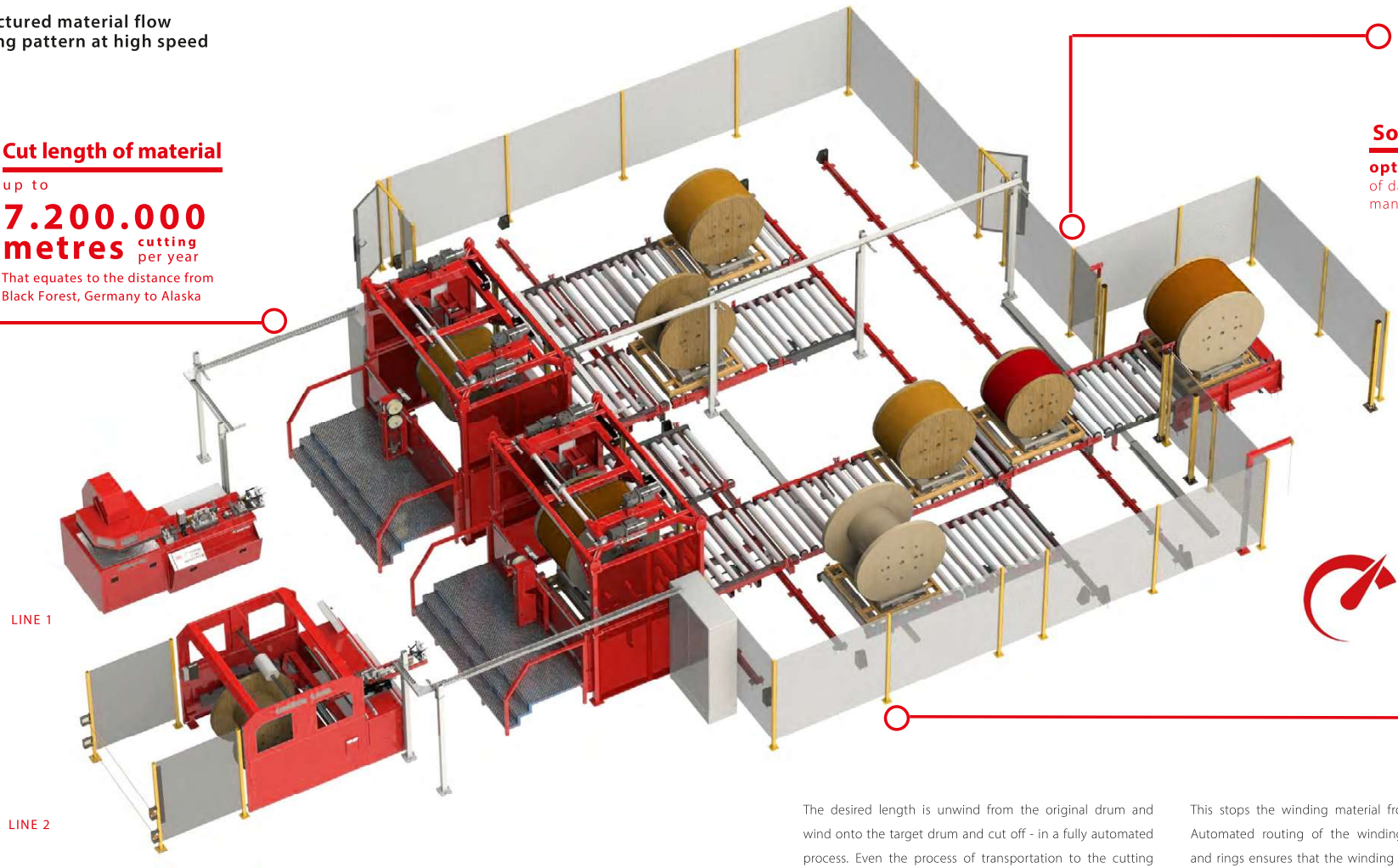
AUTOLOG
Winding line with automatic drum pick-up

THE SYSTEM: DRUM TO MACHINE

- Clearly structured material flow
- Clear winding pattern at high speed

Cut length of material

up to
7.200.000 metres cutting per year
That equates to the distance from Black Forest, Germany to Alaska



Software

optimum data flow
of data between warehouse management and machine

Speed

max. 250 m /min

The desired length is unwind from the original drum and wind onto the target drum and cut off - in a fully automated process. Even the process of transportation to the cutting machine is carried out by conveyor systems. The winding and unwinding processes take place at the same time. The winder and unwinder are driven by one motor each and synchronised using an electronic traction monitor. This stops the winding material from being overstretched. Automated routing of the winding materials onto drums and rings ensures that the winding pattern is clear and consistent. During this process, the cutting data is logged and then archived by calibrated length measurement devices. In this way, it is possible to trace each order position using its individual drum data right through to the production process.

kabelmat easy winding. easy working.

We move big drums

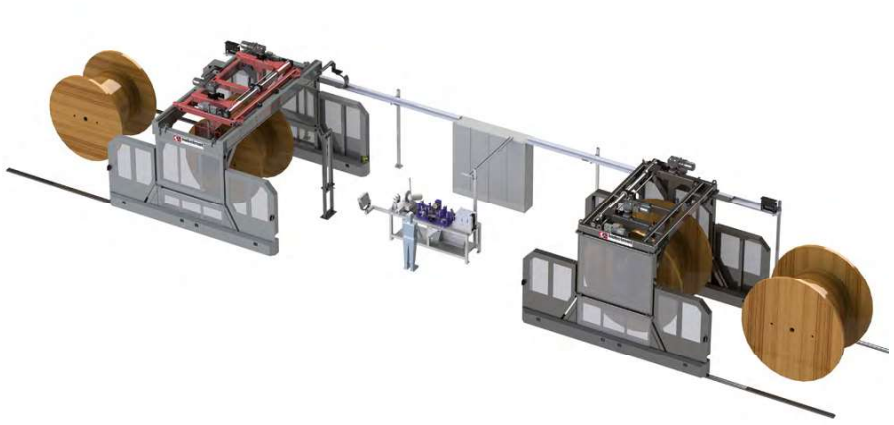


Fig. 1 PORTROL 3000 TELE-ABW / PORTROL 2600 TELE-AUF

PORTROL

- **Winding line for heavy drums**

Wrapping machines for the heavy duty range are used for the cutting and wrapping of winding materials for high energy transfer as well as for data transfer in the copper and glass fibre field. This requires drums of a large diameter due to the maximum admissible bending radius and the big cutting lengths for energy transfer over long distances.

For this purpose Kabelmat has developed machines for drum sizes of up to:

Drum diameter	up to 3.000 mm
Drum weight	up to 10.000 kg
Winding material-Ø	up to 100 mm

Due to the tough and time-consuming rolling in of the heavy drums, these machines are now available with a running gear mounted on rails. This mobile unit facilitates work considerably.

In addition, these machines are driven by powerful servomotors and are equipped with digital servo-converters with Profinet interface. The complete line is speed-controlled. The unwinder is also equipped with a motorised drive for the winding operation with instantaneous control.

Length measuring devices are available of contactless laser measuring design or the well proven MESSBOI 100 with electronic preselection counter, always with permission for the movement of goods requiring calibration. The suitable cutter is also available.

PORTROL
Winding line for heavy drums

Basic equipment:

- Steel frame of solid design, stationary screwed down onto the floor
- Steel frame of solid design, mobile on rails
- Very simple and easy material holding fixture with spindle sleeve arms driven by electric motor. The spindle sleeve arms move completely together so that even very narrow drums can be taken up
- Internal frame with the complete spindle sleeve unit for drum receipt traversing via AC geared motor
- Drum holder takes place via quick-change cones and a one-sided driver wing with sliding drive pin
- Winding drive consisting of AC geared motor with frequency converter
- The functions lifting/lowering as well as clamping/opening of the spindle sleeve arms via electric spindle drive together by pressing a button. The clamping force is limited by a set torque
- Hanging buttons for operating the functions lifting/lowering, clamping/opening, positioning of the drum
- Lateral sheet metal covering in the area of the sleeve arms against the intervention in the winding area
- Drum lowering protection
- Material return detection
- CE declaration of conformity according to Machinery Directive 2006/42/EG
- Electrical switch cabinet implemented in the machine

Recommended equipment:

- **Speed-controlled gear motor** depending on technical spezifications
- **Frictionally engaged drum driver** with sleeve for easy loading of the drum without carrier bolts
  Consisting of two carriers for both pintle arms. Cylindric drum loading.
- **ACUMATIC, material accumulator / dancer**
- **Instantaneous regulation of winding drive**

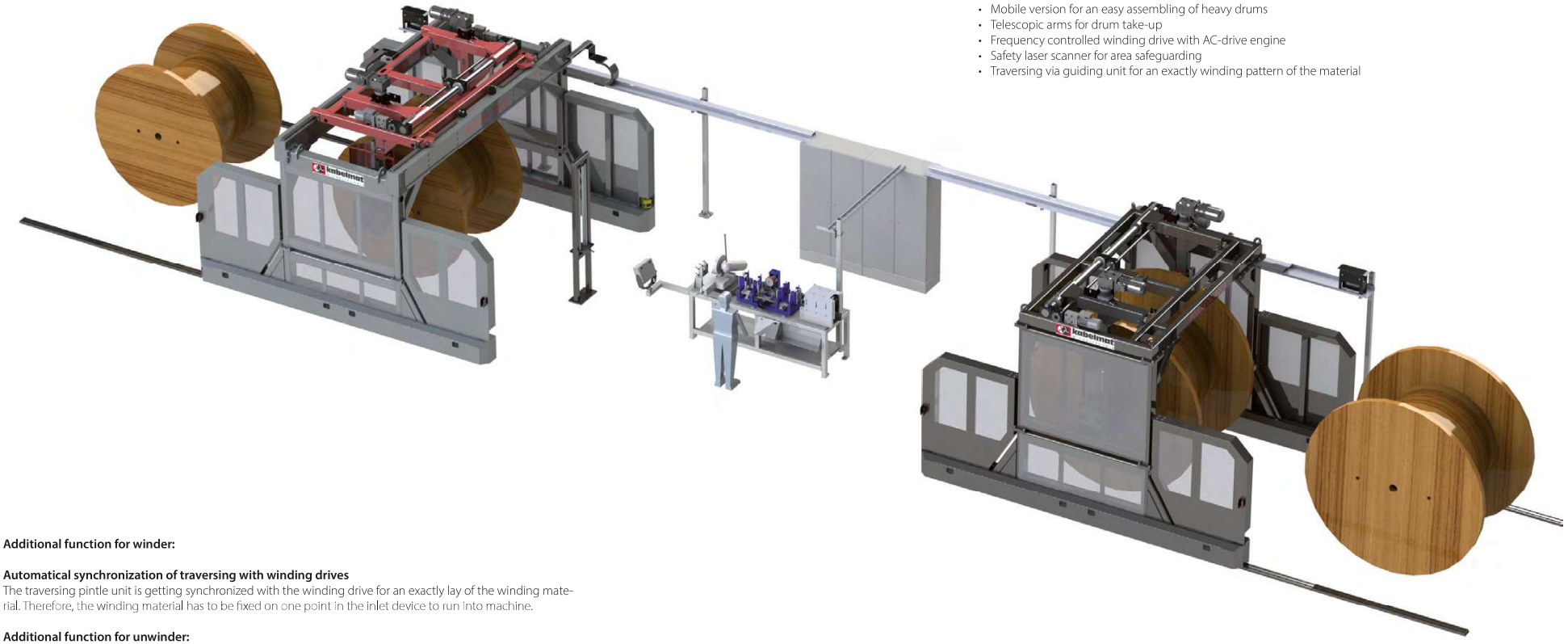
Fig. 2 ACUMATIC: material accumulator / dancer for controlling and synchronization of the drive of the drum. Necessary for tension sensitive winding goods.

Fig. 3 PORTROL 2500 AWB

PORTROL
Winding line for heavy drums

PORTROL 3000 ABW - PORTROL 2600 AUF

Synchronised working drives will not only avoid an overstretching of the winding material, but also ensure a perfect laying patter



Additional function for winder:

Automatical synchronization of traversing with winding drives
The traversing pintle unit is getting synchronized with the winding drive for an exactly lay of the winding material. Therefore, the winding material has to be fixed on one point in the inlet device to run into machine.

Additional function for unwinder:

Follow-up control of the traversing via sensors
Due to follow-up control, rigid cables and wires are guided straight through the winding line. That has the advantage that there are no unnecessary bends and a gentle winding process is guaranteed.

Equipment:

Portal unwinder PORTROL 3000
- Mobile version for an easy assembling of heavy drums
- Telescopic arns for drum take-up
- Frequency controlled winding drive with AC-drive engine
- Safety laser scanner for area safeguarding
- Device table with mounted length measuring device MESSBOI 100, cutter and guiding

Portal unwinder PORTROL 2600
- Mobile version for an easy assembling of heavy drums
- Telescopic arms for drum take-up
- Frequency controlled winding drive with AC-drive engine
- Safety laser scanner for area safeguarding
- Traversing via guiding unit for an exactly winding pattern of the material