kabelmat®
WICKELTECHNIK

Winding, Measuring & Warehouse Systems

– conclusive solutions

A HELUKABEL® company

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Cover image LAGROL® with MOTROL® 800 EASY with friendly courtesty taken at:

DÜRR
LEADING IN PRODUCTION EFFICIENCY

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Germany

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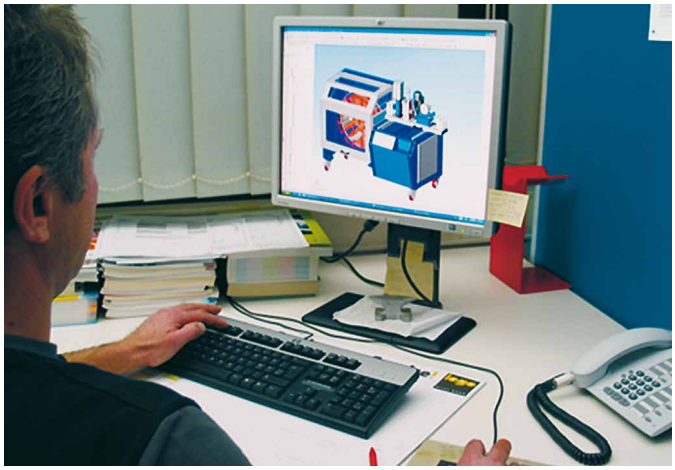
Welcome at kabelmat®

Kabelmat Wickeltechnik GmbH's history goes back to the sixties and for a long time, the company has been among the market leaders for winding systems for the cable and wire industry and/or processing. Customers include manufacturers, retailers and processors of cables and wires as well as fitters, electrical installers, machine construction companies and many more.

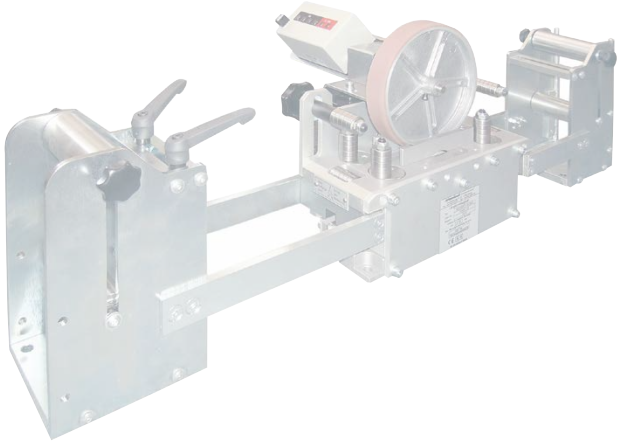
The product portfolio includes almost all devices and machines for storage, winding and hanging of cables and wires, steel cables, pipes, hoses and profiles. The tasks completed worldwide by Kabelmat products include winding from and to drums, as well as from drums to rings.
We are always pleased to show our products in our exhibition room. You are warmly invited to visit our facilities.

Please contact us.
We would be pleased to help you with your questions.
Storing - Measuring - Winding - Cutting

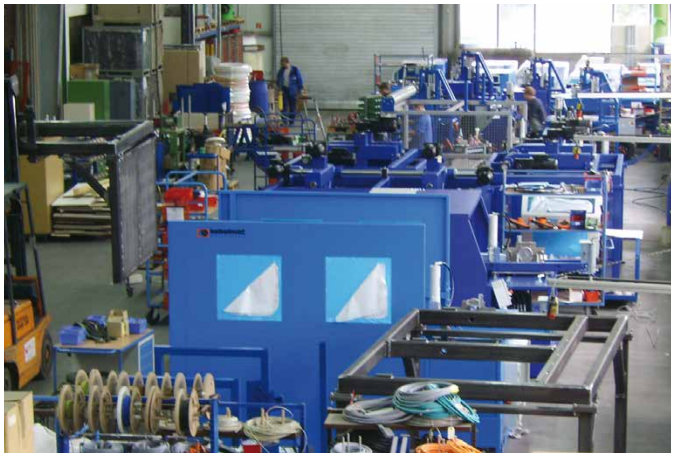
Project planning and engineering



For certain applications, even the modified modules in our standard product offering do not meet the requirements. For these cases we develop customized system solutions. From planning to construction and design, to production and provisioning of the required hardware and software.

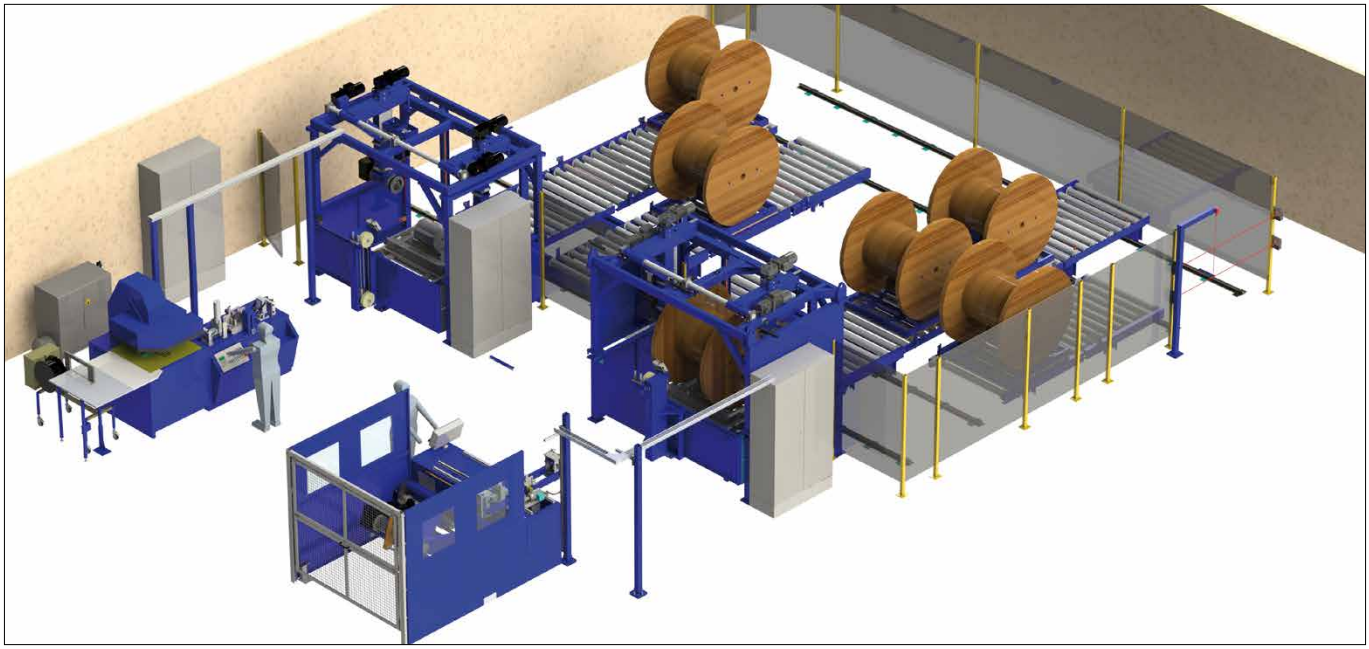


Manufacturing and final assembly



Kabelmat uses an ERP-supported, flexible manufacturing system with state-of-the-art CNC-controlled machines.
An assembly hall, 66 m long, 25 m wide and 6 m high, with two heavy load cranes enables the assembly of all machines in the Kabelmat product program. This is supported by an in-house control cabinet manufacture and the commissioning of entire systems.

Systems and lines as customer specific solutions



Cables and wires for the transmission of electrical energy or data of different types are a major part of building technologies today and tomorrow, in machine and plant constructions, telecommunications and in many other applications.
These cables and wires are often required on short notice as individual types and in individual lengths. To fulfill this requirement, qualified cutting and rewinding machines in connection with a functional cable warehouse accelerate the internal processes. When planning such a system it is important to select the right machines and equipment, as well as the software and have them available in the right sizes with the correct functions. Kabelmat offers the right solutions, customized to the respective requirements of the market.

Please contact us. We are pleased to provide the required information

MANUAL WINDING SYSTEMS

MESSROL 450

MESSROL 670 / 1000

RINGO 500 / TV-BOI

RINGFIX / SPULFIX

TROMBOI 500 / 800 / 1400

TROMBOI 7-10 / 9-14 / 2003

TROMCAR 1000 / 1250

TROMTRAK 1250

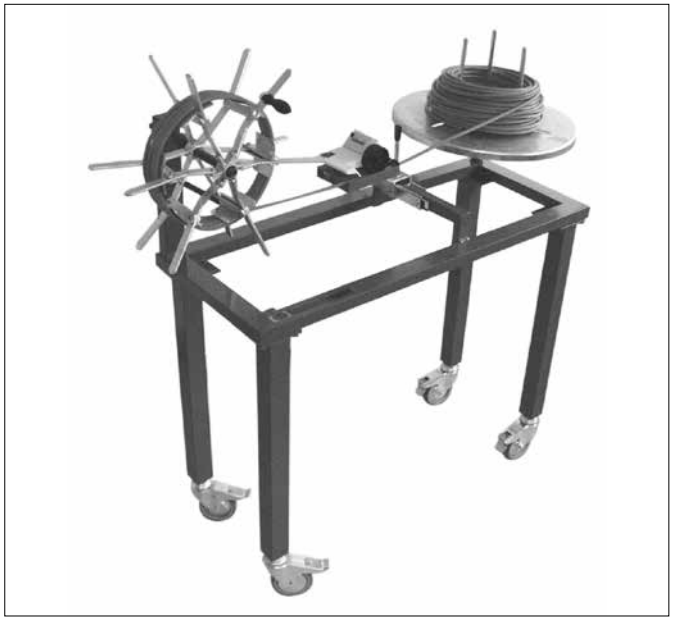
KOMBITRAK 800

TISCHROL 450

TISCHROL 1000

MESSROL 450

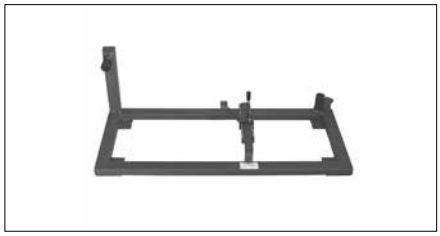
Rewinding system, manual



MESSROL 450

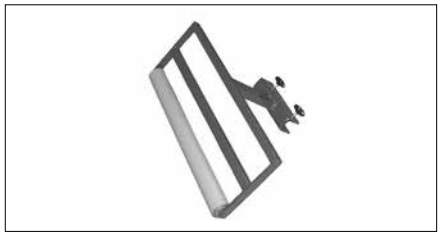
This table-mounted device is suitable for bench working or mobile working due to its travelling equipment. MESSROL 450 is equipped with a traversing slide on which the length measuring unit MESSBOI 10 or MESSBOI 30 can be mounted and is also equipped with a holder for coiler heads, coiling winches or spool axles of a diamter up to 450 mm and for dispensing plates. This device is of modular design and offers the possibility of rewinding from: spool to spool, from coil to coil, from spool to coil as well as from coil to spool.

MESSROL 450		**Part No.**	**86001121**
Complete device consisting of:			
Basic frame	Part No. 85100436	Colour	RAL 7005 mouse grey
mobil	Part No. 85100437	Weight	abt. 40 kg
RINGFIX 480	Part No. 85101211	L x W x H	1000 x 400 x 1200 mm
RAPID 450 SP	Part No. 85100090		
MESSBOI 10	Part No. 85100471		



MESSROL 450 Basic frame	**Part No.**	**85100436**
Coiler head holder		Ø 20 mm
L x W x H		abt. 1000 x 400 x 350 mm
Coil weight		max. 25 kg
Colour		RAL 7005, mouse grey
Weight		abt. 14,5 kg

MESSROL 450 mobil	**Part No.**	**85100437**
Steering rollers		braked
Colour		RAL 7005, mouse grey
Material		Steel
Weight		4 x 3 kg
Length		abt. 750 mm
Scope: 4 units with braked steering rollers, prepared for assembly.		



MESSROL 450 Inlet roller	**Part No.**	**85100438**
for drum removal		
Inlet roller		Ø 50 mm
Colour		RAL 7005, mouse grey
Material		Steel
Weight		abt. 3,4 kg

MESSROL 450

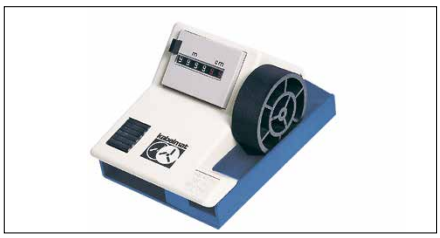
Rewinding system, manual

RINGFIX 480		Part No.	85101211
Dispensing plate incl. brake			
Coiler-Ø	max. 470 mm	Coil weight	max. 25 kg
Plate-Ø	480 mm	Colour	zinc plated
Height centring pins	250 mm	Weight	abt. 7,3 kg
Core adjusting range	140 - 320 mm		

RAPID 400 SP Part No.	85100089	RAPID 450 SP Part No.	85100090
Winding material-Ø	max. 400 mm	Winding material-Ø	max. 450 mm
Winding width	70 mm	Winding width	70 mm
Core-Ø	130 mm	Core-Ø	250 mm
Axle-Ø	20 mm	Axle-Ø	20 mm
Coil weight	max. 15 kg	Coil weight	max. 15 kg
Colour	zinc plated	Colour	zinc plated
Material	Steel	Material	Steel
Weight	abt. 4,0 kg	Weight	abt. 4,5 kg

SPULFIX 480		Part No.	85100214
Spool width	150 mm	Spool weight	max. 25 kg
Plate-Ø	480 mm	Colour	zinc plated
Axle dimension	Ø 16 x 200 mm	Weight	abt. 5,7 kg
Centring piece-Ø	25 - 80 mm		

SPOOL WINDING AXLE		Part No.	86118100
Spool-Ø	310 mm	Spool width	220 mm
Axle holder	20 mm	Spool bores	25-80 mm
Axle length	270 mm	Spool weight	bis 10 kg
Axle-Ø	16 mm	Colour	RAL 7035 light grey



MESSBOI 10		Part No.	85100471
Winding material-Ø			1-15 mm
Calibration range			1-10 mm
L x W x H			abt. 160 x 110 x 85 mm
Counter			9999,99 m with reset key
Measuring accuracy			+/- 2 %
Measuring force			constant due to spring pressure
Housing			Polystyrol
Colour			withe / blue
Weight			abt. 0,5 kg

MESSBOI 30		Part No.	85001000
Winding material-Ø			1-30 mm
Calibration range			3-12 mm
L x W x H			abt. 130 x 130 x 320 mm
Counter			9999,99 m with reset key
Measuring accuracy			+/- 2 %
Measuring wheel			Aluminium
Housing			Diecast aluminium
Handle			non-slip rubber
Colour			RAL 7005, mouse grey

MESSROL 670 / 1000

Coil and spool dispensing unit, manual

Fig. 1 MESSROL 1000 with MESSBOI 40 BAE and MATIS 25 M

Fig. 2 MESSROL 670 with MESSBOI 30 and RAPID 600 SP

The MESSROL generation is a flexible modular system for manual winding jobs. The flexibility of this system is made up by the different coil sizes, the measuring and cutting units with their various operational possiblility as well as by the different coiling winches. Lockable steering rollers allow its use in smaller drum stores. Of course, the MESSROL system is also suitable for direct winding out of drum storage racks, pay-off systems or drum pay-out devices. It guarantees easy winding with simultaneous length measuring.

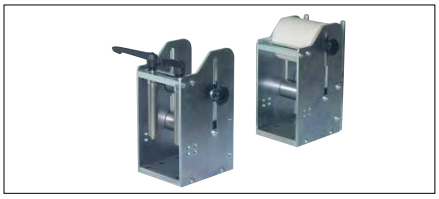
MESSROL 1000			**Part No. 85100015**
Complete device consisting of:			
Basic frame	Art-Nr. 85100439	RAPID 600 SP	Art.Nr. 85100091
MESSBOI 40 BAE	Art-Nr. 85100003		
Inlet roller cage	Art-Nr. 85100189	Colour	RAL 7005 mouse grey
MATIS 25	Art-Nr. 85100163	Weight	abt. 80 kg

Base frame	**MESSROL 1000 Part No. 85100439**	**MESSROL 670 Part No. 86180439**
Coiling head-Ø	max. 1000 mm	max. 670 mm
Coiler head holder	30 mm	30 mm
Traversing width	250 mm	250 mm
L x W x H	abt. 1200 x 710 x 910 mm	abt. 860 x 680 x 910 mm
Colour	RAL 7005, mouse grey	RAL 7005, mouse grey
Weight	abt. 51 kg	abt. 41 kg

Scope: Steel profile frame, braked steering rollers, traversing slide with holder for measuring unit

MESSBOI 40 BAE	**without roller cages**	**Part No.**	**85100003**
Winding material-Ø	1- 40 mm	Material	Steel/Stainless steel/Aluminium
Display	9999,99 m		
L x W x H (mm)	abt. 320 x 320 x 280		
Weight	abt. 12 kg		

Length measuring accuracy with inlet and outlet roller cages: +/- 0,5 %

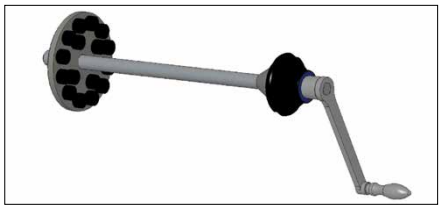


Roller cages (2 pcs.)	**85100185**	**85100186**
for direct winding out from pay off		for direct winding out of the storage rack
Roller-Ø outlet	35 mm	35 mm
Roller-Ø inlet	35 mm	80 mm
Material-Ø	40 mm	40 mm
Weight	abt. 10 kg/pair	abt. 10 kg/pair
Material		
Housing	Steel zinc plated	Steel zinc plated
Guiding rollers inlet	Stainless steel	Plastic
Guiding rollers outlet	Stainless steel	Stainless steel

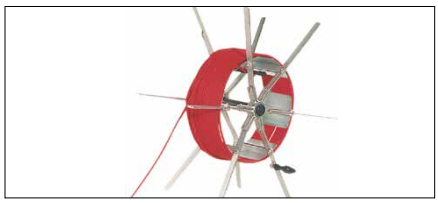
Coil and spool dispensing unit, manual

MATIS 25 M	Part No. 85100163	MATIS 35 M	Part No. 85100162
Material-Ø	max. 25 mm	Material-Ø	max. 35 mm
Weight	abt. 4,9 kg	Weight	abt. 3,9 kg
Colour plastic coating	yellow	Colour plastic coating	yellow

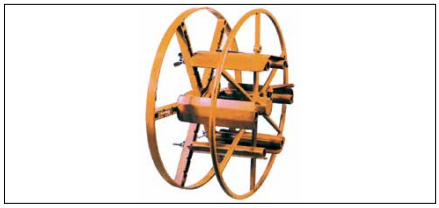
Winding axle			Part No. 85100435
Drum-Ø	max. 800 mm	Driver distance	70 - 170 mm
Drum width	max. 520 mm	Drum bores	Ø 40 - 80 mm
Loading capacity	max. 50 kg	Weight	abt. 8,4 kg
Axle-Ø	30 mm	Colour	zinc plated
Driver-Ø	25 mm		



Winding axle	Part No. 85100555
Spool width (at bore 35 mm)	max. 430 mm
Spool width (at bore 50 mm)	max. 445 mm
Spool width (at bore 85 mm)	max. 475 mm
Axle-Ø	30 mm
Core hole of the spool	35-85 mm
Loading capacity	max. 100 kg
Weight	abt. 10 kg
Colour	zinc plated

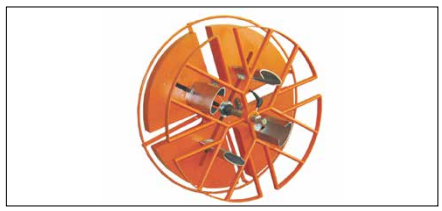


RAPID 600 SP			Part No. 85100091
Coil-Ø	max. 600 mm	Axle holder-Ø	30 mm
Winding width	120 mm	Weight	abt. 8 kg
Core-Ø	300 mm	Colour	zinc plated
Coil weight	max. 25 kg		



	RAPID 670 ST Part No. 85100465	RAPID 850 ST Part No. 85100466	RAPID 1000 ST Part No. 85100884
Coil-Ø	max. 670 mm	max. 850 mm	max. 1000 mm
Core adjusting range	250/400/500 mm	250/350/450 mm 550/650 mm	250/350/450 mm 550/650 mm
Coiling width	80 - 250 mm	80 -250 mm	80 -250 mm
Loading capacity	max. 80 kg	max. 80 kg	max. 80 kg
Axle holder-Ø	30 mm	30 mm	30 mm
Weight	abt. 25 kg	abt. 30 kg	abt. 35 kg
Colour	RAL 2004, orange	RAL 2004, orange	RAL 2004, orange

RAPID 480 SL			Part No. 85100083
Coil-Ø	max. 480 mm	Axle holder-Ø	30 mm
Core adjusting range	200-370 mm	Weight	abt. 40 kg
Coiling width	50 -250 mm	Colour	RAL 2004, orange
Loading capacity	max. 65 kg		



RAPID 800 SL			Part No. 85100174
Coil-Ø	max. 800 mm	Axle holder-Ø	30 mm
Core adjusting range	300-550 mm	Weight	abt. 70 kg
Coiling width	50 -250 mm	Colour	RAL 2004, orange
Loading capacity	max. 80 kg		

RINGO 500 / TV-BOI

Coil and spool dispensing unit – manual

RINGO 500 Pay-off system preferably used on building site
For the easy unrolling of cable drums and cable rings

- Dynamic roll-off brake for a steady tensile force: The breaking effect is adapted to the supported weight
- Low weight
- Small dimension
- Also suitable for damaged drums
- Very quiet, smooth-running, flat, compact,sturdy,maintenance-free, anti-slip and stable

RINGO 500	Part No. 85102215
Loading capacity	till 190 kg
max. Coil-Ø	abt. 500 mm
min. Inner-Ø of the coil	abt. 120 mm
Weight	abt. 7 kg

TV-BOI Steel-Cable drum
Mobile cable drum for winding and unwinding as well as for storing extension and connection cables

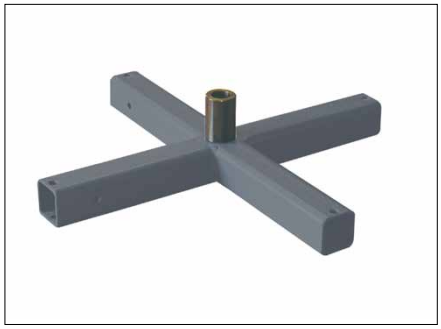
Basic equipment:
- Steel drum stored, built in the steel frame
- Hand crank for winding and unwinding
- Sleeve for the connector plug
- Screw for fixing, braking and locking the drum

TV-BOI	Part No. 85100524
Drum-Ø	480 mm
max. Core-Ø	abt. 250 mm
Inside width	abt. 380 mm
L x W x H	abt. 680x450x500 mm
Weight	abt. 7 kg

Pay-off systems spools / coils, manual

RINGFIX

Heavy and large coils rest with their dead weight centrally tensioned on the dispensing plate from which the material can be pulled-off non-twistingly. The dispensing plates are exchangeable according to the coil dimensions. The winding material is payed-off steadily due to the adjustable brake.



RINGFIX bench type	Part No.	85100210
Pay-out height		150 mm
L x W x H		abt. 520 x 520 x 120 mm
Dispensing plate		Ø 480 - Ø 800 mm
Colour		RAL 7005, mouse grey
Weight		5,5 kg

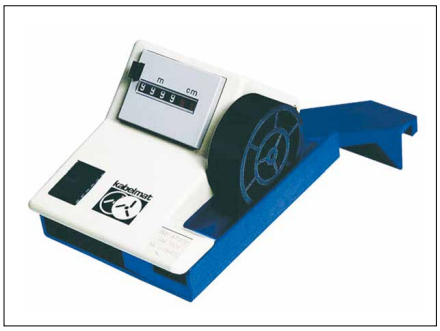
RINGFIX mobil	Part No.	85100208
Pay-out height, adjustable		850 - 1050 mm
L x B		abt. 1100 x 1100 mm
Dispensing plate		Ø 480 - Ø 800 mm
Colour		RAL 7005, mouse grey
Weight		29 kg

RINGFIX stationary	Part No.	85100209
Pay-out height, adjustable		760 - 1100 mm
L x B		abt. 1000 x 1100 mm
Dispensing plate		Ø 480 - Ø 800 mm
Colour		RAL 7005, mouse grey
Weight		24 kg

	RINGFIX 480 Part No. 85101211	RINGFIX 650 Part No. 85101212	RINGFIX 800 Part No. 85101213
Dispensing plate incl. brake			
Coil-Ø	max. 470 mm	max. 640 mm	max. 790 mm
Plate-Ø	480 mm	650 mm	800 mm
Height centring pin	250 mm	250 mm	250 mm
Core adjusting range	140 - 320 mm	180 - 500 mm	280-660 mm
Coil weight	max. 25 kg	max. 25 kg	max. 25 kg
Colour	zinc plated	zinc plated	zinc plated
Weight	abt. 7,3 kg	abt. 11,5 kg	abt. 18,3 kg

Pay-off systems spools / coils, manual

SPULFIX	Part No.	85100214
Spool width		150 mm
Plate-Ø		480 mm
Core pin dimensions		Ø 16 - 200 mm
Centring piece for bore-ø		25-80 mm
Spool weight		max. 25 kg
Colour		zinc plated
Weight		abt. 5,7 kg



MESSBOI 10 H	Part No.	85100203
Winding material-Ø		1 - 15 mm
Calibration range		1 - 10 mm
L x W x H		abt. 225 x 110 x 145 mm
Counter		9999,99 m with reset key
Measuring accuracy		+/-2 %
Measuring force		constant due to spring pressure
Housing		Polystyrol
Colour		white/blue
Weight		abt. 0,5 kg

	SPULFIX 300 Part No. 85100007	SPULFIX 450 Part No. 85100475
Spool outer-Ø	max. 290 mm	max. 440 mm
Spool height	max. 150 mm	max. 150 mm
Centring piece for bores-ø	25 - 80 mm	25-80 mm
Core pin	Ø 16 x 200 mm	Ø 16 x 200 mm
Colour	RAL 7035, light grey	RAL 7035, light grey

	RINGFIX 300 Part No. 85100004	RINGFIX 450 Part No. 85100005
Coil-Ø	max. 290 mm	max. 440 mm
Height centring pin	110 mm	max. 110 mm
Core adjusting range	90 - 200 mm	150 - 200 mm
Coil weight	max. 10 kg	max. 12 kg
Colour	RAL 7035, light grey	RAL 7035, light grey

RINGFIX 480	Part No.	85100006
Bench-type, dispensing plate incl. brake and handles. Plastic bows for mounting the MESSBOI 10 H in front of the dispensing plate		
Coil-Ø		max. 470 mm
Plate-Ø		480 mm
Height centring pin		250 mm
Core adjusting range		140 - 320 mm
Coil weight		max. 25 kg
Colour plate		zinc plated
Colour cross stand		RAL 7005, mouse grey
Weight		abt. 11,5 kg

Pay-off system drums, manual

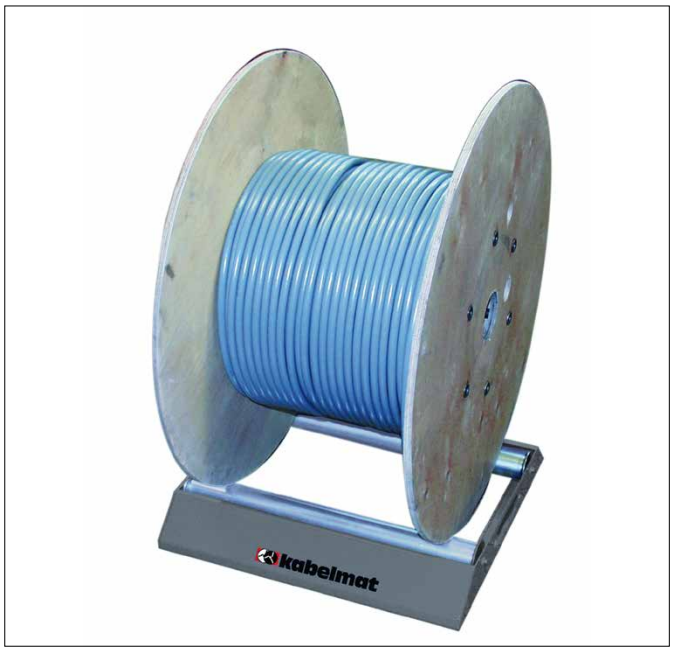


Fig. 1 TROMBOI 500

Fig. 2 TROMBOI 500 with steering rollers

Pay-off for drums of up to ø 700 mm and for a weight of 140 kg

- Solid construction
- Handles with edge protection
- Pay-out rollers adjustable for drum Ø 150 - 700 mm
- Loading ramp
- Sturdy welded steel construction
- Plastic coated surface
- Speacially sutable for one-way drums
- Ball bearing axles

TROMBOI 500	**Part No. 85100910**
TROMBOI 500 with steering rollers	**Part No. 85100911**
Drum-Ø	150 - 700 mm
Drum width	max. 520 mm
Drum weight	max. 140 kg
L x W x H	550 x 530 x 80 mm
Colour	RAL 7005, mouse grey
Weight	abt. 8 kg

Weight indications are only valid for non-continuous pay-off with undamaged drums.

Pay-off system drums, manual

Fig. 3 TROMBOI 800

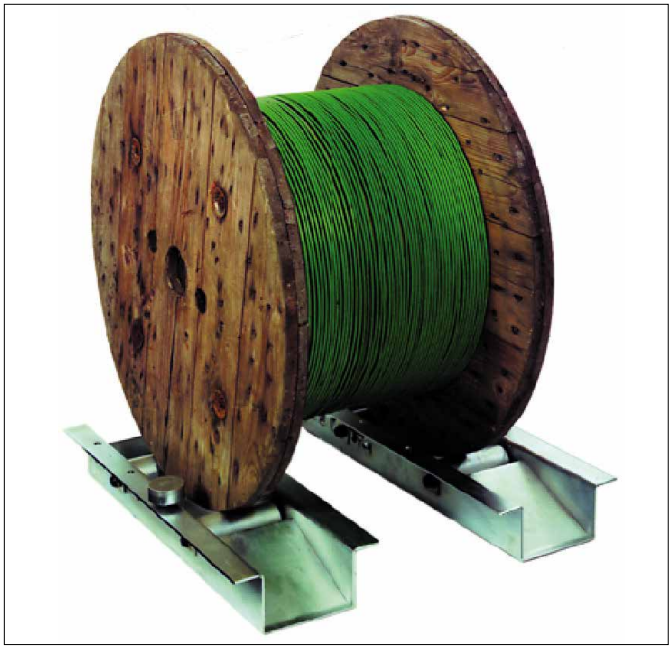


Fig. 4 TROMBOI 1400

TROMBOI 800 **Pay-off for drums of up to ø 1000 mm and drum weight up to 500 kg**	**Part No. 85100009**
Drum-Ø	400 - 1000 mm
Drum width	max. 580 mm
Drum weight	max. 500 kg
L x W x H	700 x 700 x 140 mm
Colour	zinc plated
Lateral guiding rollers	2 pcs. ball bearing
Pay out rollers	2 pcs. double ball bearing
Weight	abt. 21 kg

Weight indications are only valid for non-continuous pay-off with undamaged drums.

TROMBOI 1400 **Pay-off for drums of up to ø 1800 mm and drum weight up to 1500 kg**	**Part No. 85100010**
Drum-Ø	500 - 1800 mm
Drum width	variable
Drum weight	max. 1500 kg
L x W x H	(2) x 760 x 270 x 140 mm
Colour	zinc plated
Lateral guiding rollers	2 pcs. ball bearing
Pay out rollers	4 pcs. double ball bearing
Weight	abt. 27 kg (pair)

Weight indications are only valid for non-continuous pay-off with undamaged drums.

Pay-off system drums, manual

TROMBOI 7-10 **Pay-off for drums of ø up to 1000 mm and drum weight up to 1000 kg, incl. axle and cones**	**Part No. 85005031**
Drum-Ø	710 - 1000 mm
Drum axle incl. cones	Ø 34 x 840 mm
Drum weight	max. 1000 kg
L x B	abt. 500 x 240 mm
Height adjustable	420 - 600 mm
Colour	RAL 7005, mouse grey
Weight (incl. axle and cones)	abt. 32 kg / pair

TROMBOI 9-14 **Pay-off for drums of ø up to 1400 mm and drum weight up to 1700 kg, incl. axle and cones**	**Part No. 85005041**
Drum-Ø	900 - 1400 mm
Drum axle incl. cones	Ø 60 x 1140 mm
Drum weight	max. 1700 kg
L x B	abt. 600 x 250 mm
Height adjustable	700 - 830 mm
Colour	RAL 7005, mouse grey
Weight (incl. axle and cones)	abt. 51 kg / pair

Additional
Ø 34 x 840 mm, Loading capacity max. 1000 kg Part No. 85008010 suitable for TROMBOI 7-10 and TROMBOI 9-14
Ø 34 x 1140 mm, Loading capacity max. 700 kg Part No. 85008020 suitable for TROMBOI 7-10 and TROMBOI 9-14
Ø 60 x 1140 mm, Loading capacity max. 1700 kg Part No. 85008030 suitable for TROMBOI 9-14
Ø 60 x 1340 mm, Loading capacity max. 2000 kg Part No. 85008040 suitable for TROMBOI 9-14

Pay-off system drums, manual

TROMBOI 2003

These pay-off devices stand out due to their solid welded construction. The range of application extents from winding good processing on building sites over cable installation to the storage and shipping area.
The sturdy axle holders have to be inserted and locked in a height suitable for the workable drum dimension. The drum axle has to be pushed through the drum. After having been rolled into the axle holder the drum has to be lifted by means of the manual hydraulic pump. Drum is lowered via the bleed screw.

TROMBOI 2003 **Pay-off with manual hydraulic pump for drums of up to ø 2000 mm and drum weight of 4000 kg**	**Part No. 85005091**
Drum-Ø	710 - 2000 mm
Drum axle with adjusting rings	Ø 76 x 1700 mm
Drum weight	max. 4000 kg
L x W x H	abt. 550 x 300 x 1520 mm
Colour	RAL 7005, mouse grey
Weight (incl. axles and cones)	abt. 132 kg / pair

Additional
Ø 34 x 1140 mm, Loading capacity max. 700 kg Art-Nr. 85008020
Ø 60 x 1140 mm, Loading capacity max. 1700 kg Art-Nr. 85008030
Ø 60 x 1340 mm, Loading capacity max. 2000 kg Art-Nr. 85008040

TROMCAR 1000 / 1250

Pay-off system drums, manual

Fig. 1 TROMCAR 1000

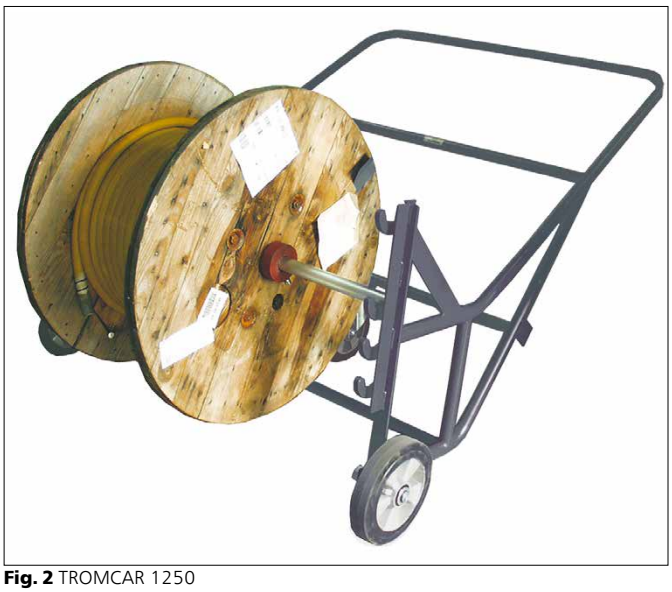


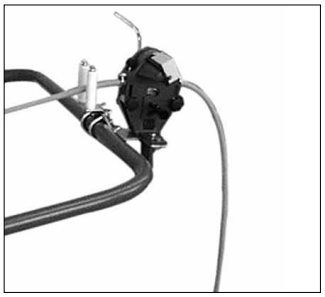
Fig. 2 TROMCAR 1250

TROMCAR 1000 / 1250

Our robust cable drum lifters are specially suitable for internal transportation of cable drums. Hereby, drums are lifted and loaded via leverage. The movable TROMCAR is equipped with lift stirrup also serving as transportation handle and with large wheels. The range of application of these pay-off devices extents from drum stores over building site area to electrical installation departments - everywhere an indispensable help.

TROMCAR 1000	**Part No. 85006002**
drum-Ø	500-1000 mm
drum axle incl. cones	Ø 34 x 840 mm
drum weight	max. 1000 kg
drum width	max. 710 mm
L x W x H	abt. 1600 x 1040 x 770 mm
Colour	RAL 7005, mouse grey
Weight	abt. 50 kg
2 transport wheels and 2 supports	

TROMCAR 1250	**Part No. 85006003**
drum-Ø	500-1250 mm
drum axle incl. cones	Ø 34 x 1140 mm
drum weight	max. 700 kg
drum width	max. 1000 mm
L x W x H	abt. 1600 x 1360 x 830 mm
Colour	RAL 7005, mouse grey
Weight	abt. 52 kg
3 transport wheels	



Accessories for TROMCAR 1000 / 1250	
Roller cages TROMCAR (to install the measuring unit to TROMCAR)	Part No. 85100540
Length measuring unit MESSBOI 30	Part No. 85001000

Pay-off system drums, manual

Fig. 3 TROMTRAK 1250

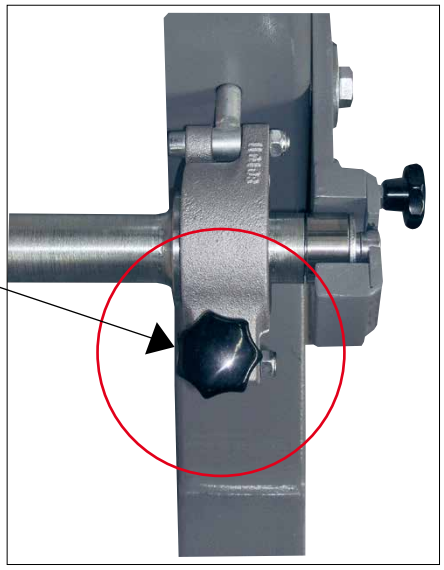


Fig. 4 Brake

Fig. 5 TROMTRAK 1250 with driving pin

TROMTRAK 1250

The TROMTRAK 1250 is used for the feed of all kinds of winding materials. Its special advantages are the double supported axles as well as the adjustable brake which ensures steady material pay-out.
Application: as supplement for kabelmat® cut-to-length, dismantling or stripping machines.
Being equipped with lockable steering rollers, the device can also be used for transportation of storage area to the processing line.

Basic equipment

- Steel profile frame with 4 lockable steering wheels
- Drum axle with needle bearing, 2 centering cones and adjustable shoe brake
- 2 hand levers for lifting and lowering of the drum

TROMTRAK 1250	**Part No. 85100011**
drum-Ø	630-1250 mm
drum axle-Ø	Ø 35 mm
drum weight	max. 1000 kg
drum width	max. 890 mm
L x W x H (without drum)	abt. 860 x 1300 x 700 mm
Colour	RAL 7005, mouse grey
Weight	abt. 58 kg
Centring piece with adjustable driving pin for TROMTRAK 1250	**Part No. 85110012**

Coil and spool dispensing unit, manual

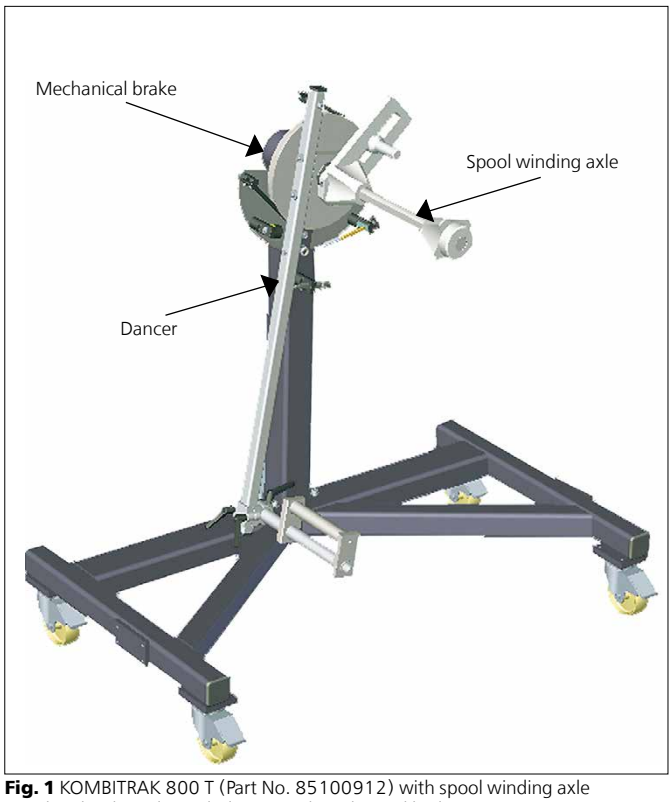


Fig. 1 KOMBITRAK 800 T (Part No. 85100912) with spool winding axle
Spool and coil winder with dancer and mechanical brake

Fig. 2 KOMBITRAK 800 T (Part No. 85100912) with RAPID 480 SL
Spool and coil winder with dancer and mechanical brake

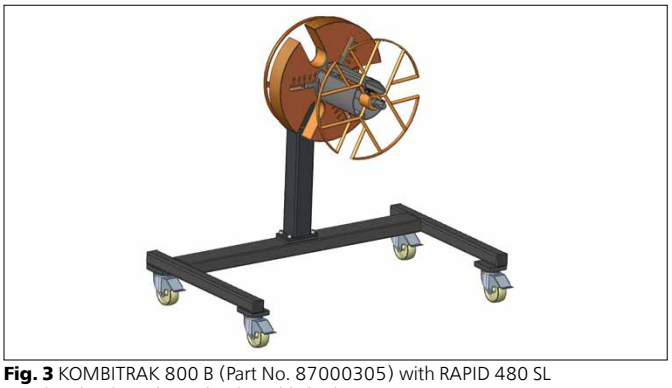
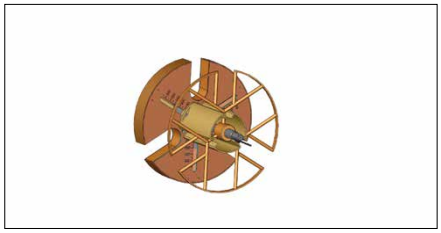
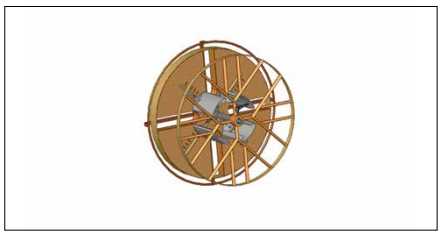


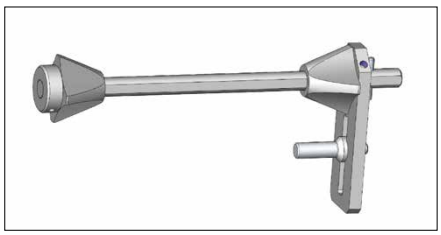
Fig. 3 KOMBITRAK 800 B (Part No. 87000305) with RAPID 480 SL
Spool and coil winder with adjustable brake



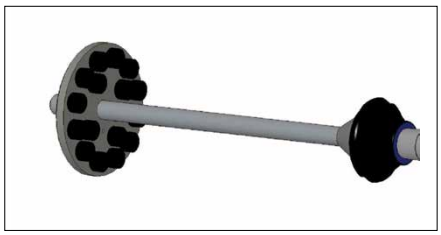
RAPID 480 SL		**Part No.**	**85100082**
Coil-Ø	bis 480 mm	Weight	40 kg
Core adjusting range	200-370 mm	Axle holder-Ø	30 mm
Winding width	50-250 mm	Colour	RAL 2004 Orange
Loading capacity	max. 65 kg		



RAPID 800 SL		**Part No.**	**85100101**
Coil-Ø	bis 800 mm	Weight	70 kg
Core adjusting range	300 - 550 mm	Axle holder-Ø	30 mm
Winding width	50-250 mm	Colour	RAL 2004 Orange
Loading capacity	max. 80 kg		



Winding axle for spool 500–600–30		**Part-No.**	**85100103**
Spool-Ø	bis 500 mm	Core adjusting range	40 - 80 mm
Axle length	600 mm	Spool width	250 mm
Axle-Ø	30 mm	Loading capacity	60 kg
Axle holder-Ø	30 mm	Weight	8 kg



Winding axle for spool-Ø up to 800 mm		**Part No.**	**87000224**
Spool width (Bore 35 mm)	max. 405 mm	Axle holder-Ø	30 mm
Spool width (Bore 50 mm)	max. 415 mm	Core adjusting range	35 - 85 mm
Spool width (Bore 85 mm)	max. 445 mm	Loading capacity	max. 100 kg
Axle-Ø	30 mm	Weight	ca. 10 kg

Coil and spool dispensing unit, manual

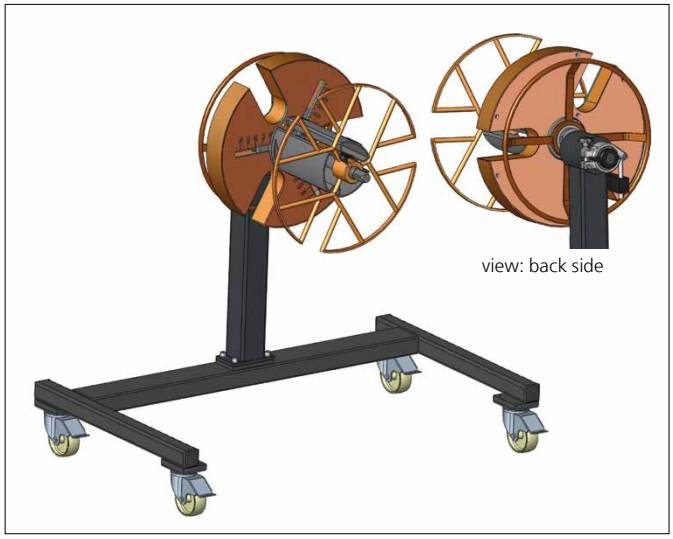


Fig. 4 KOMBITRAK 800 B
Example with coiler head RAPID 480 SL

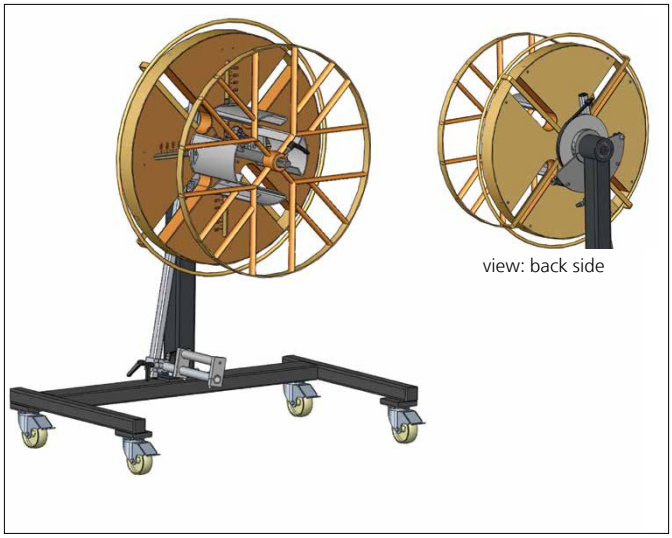


Fig. 5 KOMBITRAK 800 T
Example with coiler head RAPID 800

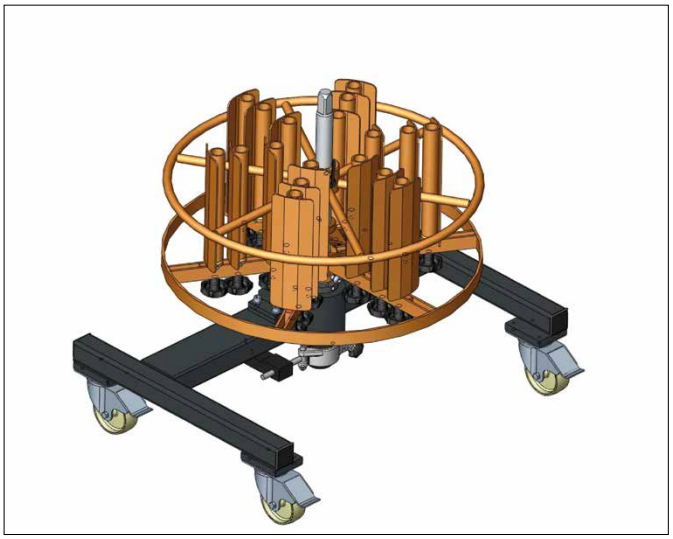


Fig. 6 KOMBITRAK 800 H (Part No. 87000309) with RAPID 850 ST
Spool and coil winder with adjustable brake

Basic equipment

- Steel profile frame with four brakable steering rollers
- Drive unit consisting of brake disc with pendulum for opening and closing the rope brake, tensile force of the pendulum lever adjustable at the tension spring (KOMBITRAK T - Part-no: 85100912)
- spool receipt for kabelmat ®winding axles or winding heads in vertical construction
- Spool loading via lifting truck, forklift truck or manually
- Drive unit consists of adjustable mechanical brake
  (KOMBITRAK 800 B - Part No. 87000305 + KOMBITRAK 800 H - Part No. 87000309)

Technical details	
Spool- / Coil diameter	max. 800 mm
Spool- / Coil width	as per specification of winding axle/ Coiler head
Spool- / Coil weight	as per specification of winding axle/ Coiler head
Locating bore	30 mm
Loading weight	max. 100 kg
Direction of material flow	from the right to the left
L x W x H	abt. 1200 x 1000 x 1000 mm
Colour	RAL 7005 mouse grey
Weight	abt. 70 kg

Winding systems for spools and coils, manual

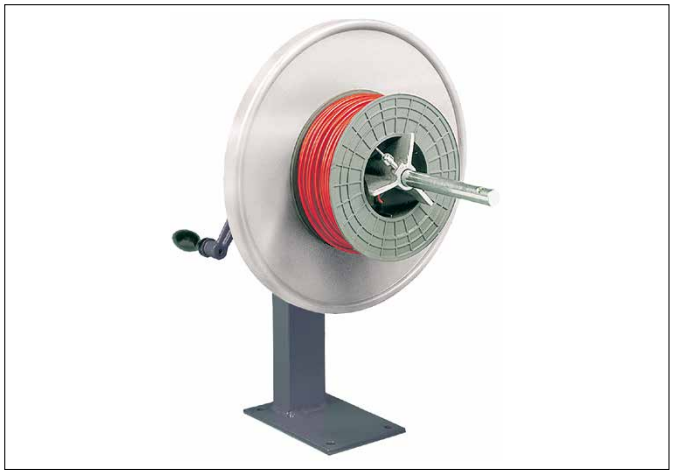


Fig. 1 TISCHROL Complete device

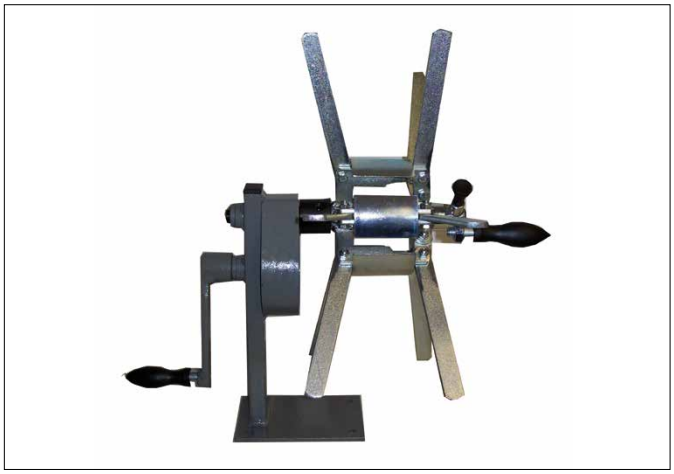
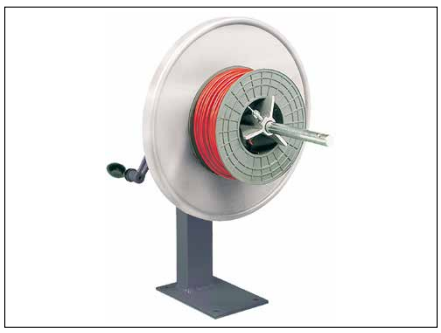


Fig. 2 TISCHROL 1:3 with RAPID 400 SP

TISCHROL 450

The main feature of this easily operable manual winding device is its economic transmission ratio of 1:3 or 1:1.
The winding systems for spools and cails TISCHROL 450 can be used as mobile or as stationary device.
This is why it is the ideal winder for installers, for cable stores and for cable pre-assemblers.

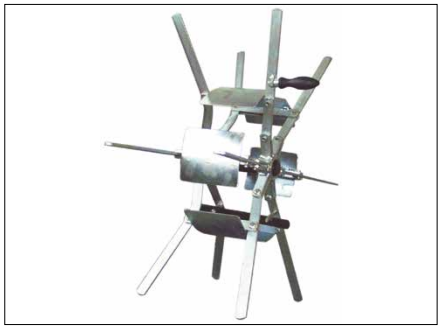


TISCHROL 450 complete device	Part No. 85100012
Transmission ratio	1:3
Loading capacity	max. 10 kg
Spool plate-Ø	300 mm
Spool width (at bore 80 mm)	165 mm
Spool width (at bore 25 mm)	135 mm
Axle holder-Ø	20 mm
Axle lenght	200 mm
Axle-Ø	16 mm
Colour support	RAL 7005, mouse grey
Colour plate	RAL 7035, light grey
L x W x H	abt. 300 x 445 x 410 mm
Supply: Support, base plate and hand crank,Plate with axle and cone	

TISCHROL 450 1:3	Part No. 85100434
Transmission ratio	1:3
Axle holder-Ø	20 mm
Dimension base plate to centerline	250 mm
Coiler head	max. 450 mm
Weight	abt. 3,8 kg
Colour	RAL 7005, mouse grey
L x W x H	abt. 100 x 270 x 295 mm
Supply: Support, base plate and hand crank	

TISCHROL 450 1:1	Part No. 85100433
Transmission ratio	1:1
Axle holder-Ø	20 mm
Dimension base plate to centerline	250 mm
Coiler head	max. 450 mm
Weight	abt. 2,6 kg
Colour	RAL 7005, mouse grey
L x W x H	abt. 100 x 270 x 325 mm
Supply: Support, base plate and hand crank	

Winding systems for spools and coils, manual



RAPID 400 SP	Part No. 85100089
Winding material-Ø	max. 400 mm
Coil width	70 mm
Core-Ø	130 mm
Axle holder-Ø	max. 20 mm
Coil weight	max. 15 kg
Colour	zinc plated
Material	steel
Weight	abt. 4 kg

RAPID 450 SP	Part No. 85100090
Winding material-Ø	max. 450 mm
Coil width	70 mm
Core-Ø	250 mm
Axle holder-Ø	max. 20 mm
Coil weight	max. 15 kg
Colour	zinc plated
Material	steel
Weight	abt. 4,5 kg

Spool winding axle	Part No. 85100100
Loading capacity	max. 10 kg
Spool plate-Ø	300 mm
Spool width (at bore 80 mm)	165 mm
Spool width (at bore 50 mm)	150 mm
Spool width (at bore 25 mm)	135 mm
Axle holder-Ø	20 mm
Axle lenght	200 mm
Axle-Ø	16 mm
Colour	RAL 7035, grey
Weight	abt. 1,5 kg

Winding systems for spools and coils manual

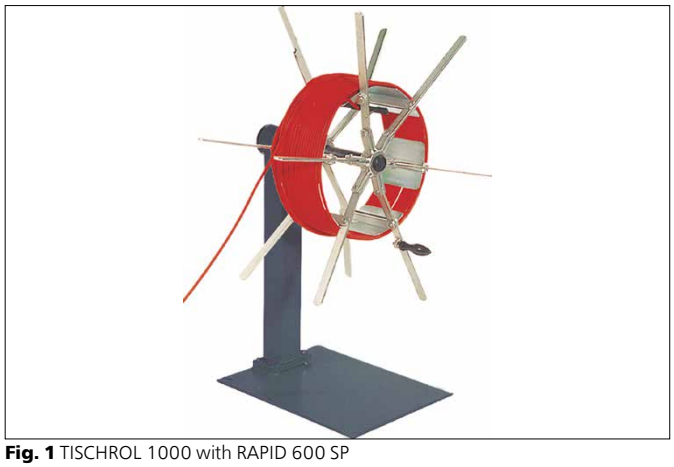
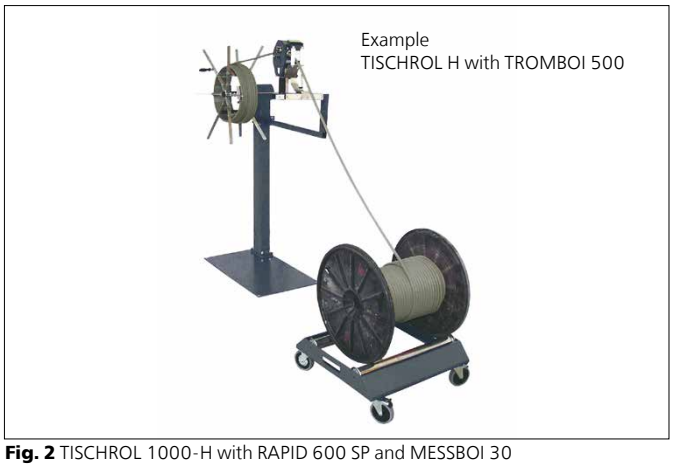


Fig. 1 TISCHROL 1000 with RAPID 600 SP



Example
TISCHROL H with TROMBOI 500

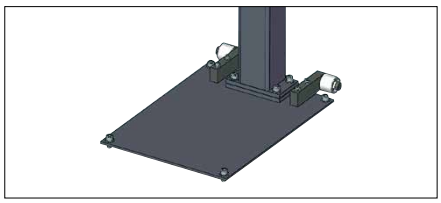
Fig. 2 TISCHROL 1000-H with RAPID 600 SP and MESSBOI 30

TISCHROL 1000

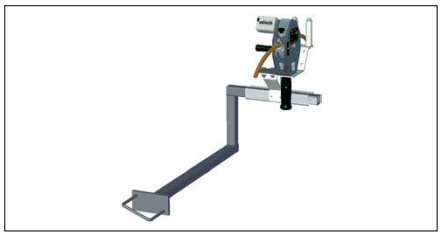
TISCHROL is a flexible modular system for manual winding jobs. Flexibility of this system is made up by the different coil sizes as well as by the different coiling winches.

TISCHROL 1000, Part No. 85100180	TISCHROL 1000 H, Part No. 86003049
Coiler head-Ø	max. 1000 mm	max. 1000 mm
Coiler head holder	30 mm	30 mm
Transmission ratio	1 : 1	1 : 1
L x W x H	abt. 450 x 330 x 580 mm	abt. 450 x 330 x 1065 mm
Weight	abt. 20 kg	abt. 26 kg
Colour	RAL 7005, mouse grey	RAL 7005, mouse grey

Supply: Support and base plate without accessories



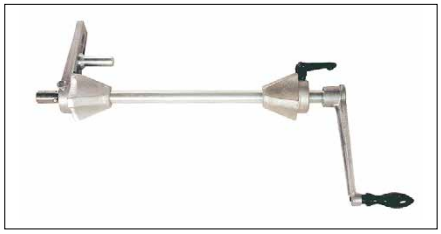
Travelling equipment	Part No. 86003095
suitable too TISCHROL 1000-H	
Consisting off two mounting ledge with roller	



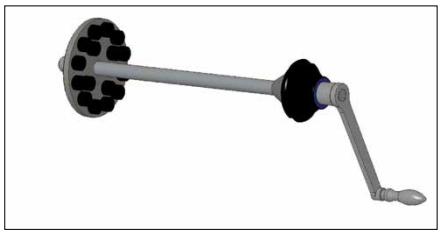
TISCHROL Holder	Part No. 85100542
for MESSBOI 10 or MESSBOI 30	
Weight	3,5 kg
L x W x H	630 x 365 x 360 mm
Roller cage	**Part No. 85100541**
A roller cage for MESSBOI 30 can be used for better guiding	

Length measuring unit	MESSBOI 10 Part No. 85100471	MESSBOI 30 Part No. 85000100 Part No. 85001010, gauged
Winding material-Ø	1-15 mm	1-30 mm
Calibration range	1-10 mm	3-12 mm
L x W x H	abt. 160 x 110 x 85 mm	abt. 130 x 130 x 320 mm
Counter	9999,99 m with reset key	9999,99 m with reset key
Measuring accuracy	+/-2 %	+/-2%
Measuring force	constant due to spring pressure	constant due to spring pressure
Measuring wheel	plastic	aluminium
Housing	Polystyrol	diecast aluminium
Colour	white/blue	RAL 7005, mouse grey
Weight	abt. 0,5 kg	abt. 2,2 kg

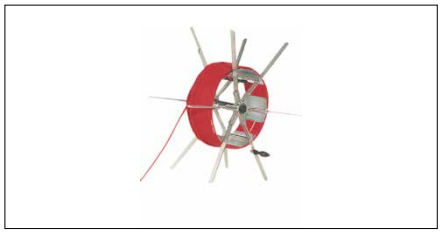
Winding systems for spools and coils manual



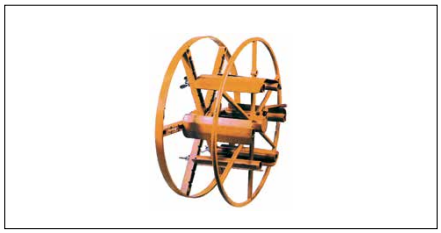
Winding axle		Part No.	85100435
Drum-Ø	max. 800 mm	Driver distance	70 - 170 mm
Drum width	max. 520 mm	Drum bores	Ø 40 - 80 mm
Loading capacity	max. 50 kg	Weight	abt. 8,4 kg
Axle-Ø	30 mm	Colour	zinc plated
Driver bolt-Ø	25 mm		



Winding axle	Part No.	85100455
Spool width (at bore 35 mm)		max. 430 mm
Spool width (at bore 50 mm)		max. 445 mm
Spool width (at bore 85 mm)		max. 475 mm
Axle-Ø		30 mm
Core hole of the spool		35 - 85 mm
Loading capacity		max. 100 kg
Weight		abt. 10 kg
Colour		zinc plated

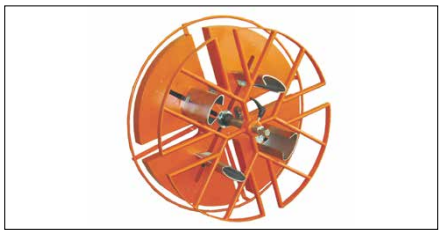


RAPID 600 SP		Part No.	85100091
Coil-Ø	max. 600 mm	Axle-Ø	30 mm
Winding width	120 mm	Weight	abt. 8 kg
Core-Ø	300 mm	Colour	zinc plated
Coil weight	max. 25 kg		



	RAPID 670 ST Part No. 85100465	RAPID 850 ST Part No. 85100466	RAPID 1000 ST Part No. 85100884
Coil-Ø	max. 670 mm	max. 850 mm	max. 1000 mm
Core adjusting range	250/400/500 mm	250/350/450 mm 550/650 mm	250/350/450 mm 550/650 mm
Winding width	80 - 250 mm	80 - 250 mm	80 - 250 mm
Loading capacity	max. 80 kg	max. 80 kg	max. 80 kg
Axle-Ø	30 mm	30 mm	30 mm
Weight	abt. 25 kg	abt. 30 kg	abt. 35 kg
Colour	RAL 2004, orange	RAL 2004, orange	RAL 2004, orange

RAPID 480 SL			Part No. 85100083
Coil-Ø	max. 480 mm	Axle-Ø	30 mm
Core adjusting range	200 - 370 mm	Weight	abt. 40 kg
Winding width	50 - 250 mm	Colour	RAL 2004, orange
Loading capacity	max. 65 kg		



RAPID 800 SL			Part No. 85100174
Coil-Ø	max. 800 mm	Axle-Ø	30 mm
Core adjusting range	300 - 550 mm	Weight	abt. 70 kg
Winding width	50 - 250 mm	Colour	RAL 2004, orange
Loading capacity	max. 80 kg		

MACHINE WINDING SYSTEMS

AUTOCUT 40

MOTROL® 500

MOTROL® 800 EASY

MOTROL® 800

MOTROL® 1000 AUF

PORTROL 1000/1400

RINGROL 600

RINGROL 800

SPULFIX 480

TROMTRAK 1600

TROMROL 2500

UMROL 1000 AUF

UMROL 1400/1600/2200 AUF

AUTOCUT 40

Cut-to-length machine for cables, pipes and hoses

Fig. 1 AUTOCUT 40 with closed protective cover

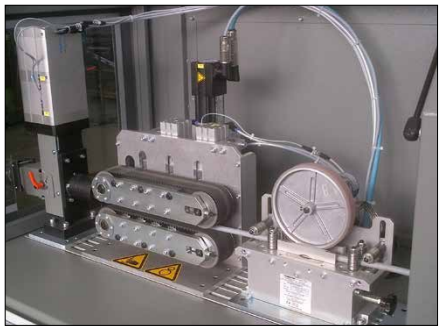


Fig. 2 Installation with a calibratable length measuring device, belt feed and pneumatic cable cutter

Fig. 3 Coiler pin with adjustable drive motor

Fig. 4 Control desk with touchpanel and controlled positioning servo drive

AUTOCUT 40

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 Details	
Processing range	max. 40 mm
Inlet hight	1040 mm
pass-through direction	right to left
L x W x H	abt. 1160 x 950 x 1550 mm
Length with pot winder	abt. 1800 mm
Colour	RAL 7005, mouse grey
Weight (without accessories)	abt. 350 kg

AUTOCUT 40

Cut-to-length machine for cables, pipes and hoses

Basic equipment:

- Basic maschine constructed as self-supported and torsionally resistant weldment with a front door, movable by means of two lockable steering rollers and two fixed rollers
- Switch cabinet integrated in the machine frame
- protective cover with „macrolon" washers folding upwards and electrical safety switch (required for CE)
- The switch desk for the central control of all functions with PLC control is ergonomically integrated in the basic frame
- Function keys with EMERGENCY STOP and optional control panel or preselection counter are integrated in the switch desk

Recommended equipment:

- **Roller cages** before and behind the length measuring unit, with adjustable ball bearing rollers made of stainless steel These rollers are required for calibration of the measuring units

- **MESSBOI 40-BVE Length measuring** with pre-selection counter for winding material up to 40 mm outer diameter

  - Measuring accuracy +/- 0,5 %
  - MID-/Calibratable for round cable till line speed 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe
  - Length measuring and positioning function with touchpanel recipe management and calibration factor. (deliverable in connection with or without length measuring device MESSBOI 40 BVE – no conformity certification possible, no preselection counter)
  - Preselection counter with disconnecting contact of the winding drive

- **Second rotary pulse** for Inkjet-printersystem

- **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

- **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

- **Coil pin motorized s**ize of the coil pins is selectable

- **Holding fixture of the printing head for the inkjet printing systems**

- **Automatic bundling machine AUTOBIND**

More extra attachement on request

MOTROL® 500

Coil– and Spoolwinder

Fig. 1 MOTROL® 500

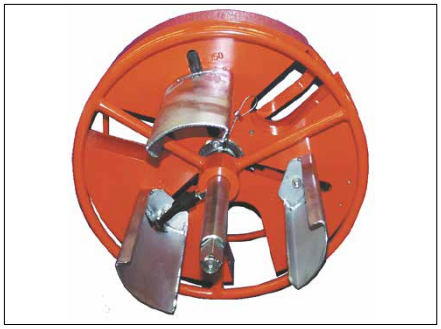


Fig. 2 Coil and spool dispensing unit RAPID 480 SL

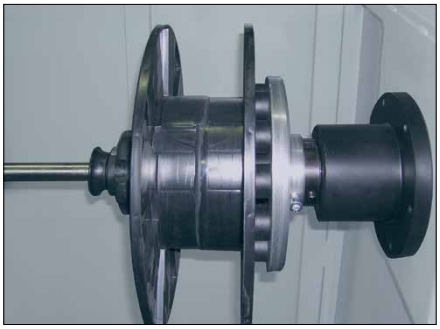


Fig. 3 Spool winding axle

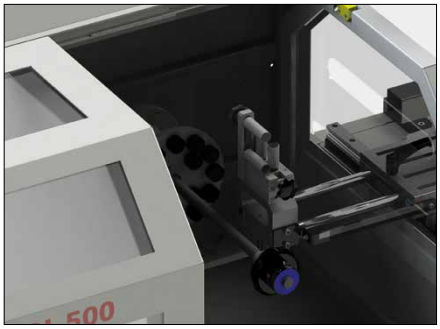


Fig. 4 Traversing with telescope rail

MOTROL® 500

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.

Technical Details	
Coiler head diameter	max. 500 mm
Processing range	max. 40 mm
Standard drives (special speed on request)	140 min¹ (075 kW) or 240 min¹ (1,5 kW)
Electrical connection	230 V / 50 Hz
Traversing width incl. winding head	280 mm
Traversing width incl. spool / drum	330 mm
Inlet hight	abt. 1100 mm
pass-through direction	right to left
L x W x H	abt.1500 x 900 x1400 mm
Colour machine	RAL 7005, mouse grey
Weight machine (without accessoires)	abt. 260 kg

Coil– and Spoolwinder

Basic equipment:

- Basic machine constructed as self-supported, torsionally resistant weldment with two lockable steering rollers and two fixed rollers
- Direction of travel right-angled to winding direction
- 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, coiler heads or spool axles with 30 mm
- 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 for MOTROL®500 (required for CE)

Recommended equipment:

- **Roller cages** before and behind the length measuring unit, with adjustable ball-bearing rollers made of stainless steel, requested for calibration of measuring units

- **MESSBOI 40 BVE Length measuring unit** with preselection counter for winding material with outer diameter of up to 40 mm

  - Measuring accuracy +/- 0,5 %
  - MID-/Calibratable for round cables till line speed 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe
  - Pre-selection counter with disconnecting contact of the drive

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

- **Automatic traversing**, consisting of gear motor with speed controller. Traversing can be moved to any position via joystick within the setting mode what is important for the starting position of the winding drive. The motion reversing points can be saved during machine downtime but also during winding operation via reference keys. The traversing lead can be adjusted infinitely via rotary potentiometer even during the winding operation. The traversing speed automatically adapts to the winding speed (synchronization). The complete traversing drive can be disengaged for manual traversing.

- **Coiler head RAPID 480 SL** for coil winding. To be plugged into the coiler head acceptance. Infinitely and centrally adjustable winding core diameter. With three binding slots and three winding core segments.

  - Coil diameter of winding material: up to 480 mm
  - Core adjusting range: 200 - 370 mm
  - Coiling width: 20 - 250 mm

- **Spool winding axle** to be plugged into the coiler head acceptance

More extra attachement on request

MOTROL® 800 EASY

Coil- and Spoolwinder

Fig. 1 MOTROL® b800 EASY with opened protective cover

Fig. 2 Folding coiling winch

Fig. 3 Spool winding axle

Fig. 4 Traversing unit

MOTROL® 800 EASY

This motor driven coil and spool winding machine is suitable for winding material such as cables, pipes, hoses, steel cables, plastic profiles, etc. onto empty coils or spools and simultaneously cutting them to length.

Technical Details	
Coiler head diameter	max. 800 mm
Processing range	max. 40 mm
Standard drive	70 min^{1} (0,75 kW)
Electrical connection	230 V / 50 Hz
Traversing width	300 mm
Inlet hight	abt. 1050 mm
Coil and spool weight	max. 150 kg (incl. coiler head)
pass-through direction	right to left
L x W x H (protective cover closed)	abt. 1800 x 850 x 1400 mm
Colour	RAL 7005, mouse grey
Weight (without accessories)	abt. 260 kg

MOTROL® 800 EASY

Coil– and Spoolwinder

Basic equipment:

- Basic maschine constructed as self-supported and torsionally resistant weldment with two lockable steering rollers and two fixed rollers
- Direction of travel right-angled to winding direction
- Winding drive by means of geared motor via chain
- Infinitely adjustable working speed control allowing a smooth start
- The winder is prepared for the installation of coiling winches, coiler heads or spool axles with 30 mm.
- Manually operable traversing slide, prepared for the integration of additional equipment such as length measuring units and material cutters as well as roller guides
- Switch cabinet integrated in the machine frame
- Operating panel with emergency stop is ergonomically integrated into the base frame
- Protective cover folding upwards or to be slided sidewards for MOTROL® 800 EASY (required for CE)

Recommended equipment:

- **Roller cages** before and behind the length measuring unit, with adjustable ball bearing rollers made of stainless steel
  These rollers are required for calibration of the measuring units

- **MESSBOI 40–BVE Length measuring** with pre-selection counter for winding material up to 40 mm outer diameter

  - Measuring accuracy +/- 0,5 %
  - MID-/Calibratable for round cable till line speed 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe
  - Pre-selection counter with disconnecting contact of the drive

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

- **Coiler head RAPID 850 ST** for coil winding. To be plugged into the coiler head acceptance

  - Windingcore adjustable in steps
  - With 6 binding slots and 6 winding core segments
  - Coil diameter up to 800 mm

- **Spool winding axle** to plug into the spooler plate.

More extra attachment on request

MOTROL® 800

Coil- and Spoolwinder

Fig. 1 MOTROL® 800 with opened protective cover

Fig. 2 Folding coiling winch

Fig. 3 Spool winding axle

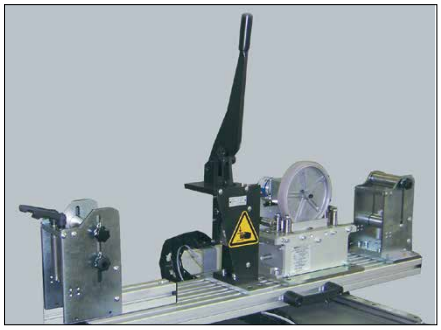


Fig. 4 Traversing unit

MOTROL® 800

This motor driven coil and spool winding machine is suitable for winding material such as cables, pipes, hoses, steel cables, plastic profiles, etc. onto empty coils or spools and simultaneously cutting them to length.

Technical Details	
Coiler head diameter	max. 800 mm
Processing range	max. 40 mm
Standard drives (special speed on request)	95 min^{1} (1,5 kW) or 170 min^{1} (3,0 kW)
Electrical connection (CEE-connector plug)	230 / 400 V - 50 Hz
Traversing width	360 mm
Inlet hight	abt. 1140 mm
Coil and spool weight (incl. coiler head)	max. 150 kg (incl. coiler head)
pass-through direction	right to left
L x W x H (protective cover closed) (H = 1600 mm with pneumatic cutter)	abt. 2000 x 1000 x 1400 mm
Colour	RAL 7005, mouse grey
Weight (without accessories)	abt. 500 kg

MOTROL® 800

Coil- and Spoolwinder

Basic equipment:

- Basic maschine constructed as self-supported and torsionally resistant weldment with two lockable steering rollers and two fixed rollers
- Direction of travel right-angled to winding direction
- Winding drive by means of geared motor via chain and safety clutch
- Infinitely adjustable working speed control allowing a smooth start
- The winder is prepared for the installation of coiling winches, coiler heads or spool axles with 30 mm
- Manually operable traversing slide, prepared for the integration of additional equipment such as length measuring units and material cutters as well as roller guides
- Switch cabinet integrated in the machine frame
- Operating panel with emergency stop is ergonomically integrated into the base frame
- Protective cover folding upwards or to be slided sidewards for MOTROL® 800

Recommended equipment:

- **Roller cages** before and behind the length measuring unit, with adjustable ball bearing rollers made of stainless steel
  These rollers are required for calibration of the measuring units

- **MESSBOI 40-BVE Length measuring** with pre-selection counter for winding material up to 40 mm outer diameter

  - Measuring accuracy +/- 0,5 %
  - MID-/Calibratable for round cable till line speed 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe
  - Pre-selection counter with disconnecting contact of the drive

- **Manually, pneummatically or hydraulically operated cutting** system for cutting the winding material

- **Automatic traversing**, consisting of a geared motor with speed controller. Traversing can be moved to any position via joystick within the setting mode. This is very important for the starting position of the winding drive. The motion reversing points can be saved during machine downtime but also during winding operation via reference keys. The traversing lead can be adjusted infinitely via rotary potentiometer even during the winding operation. The traversing speed automatically adapts to the winding speed (synchronization). The complete traversing drive can be disengaged for manual traversing.

  - Traversing lead range 2 - 40 mm
  - Traversing width 360 mm

- **Coiler head RAPID 800 SL** for coil winding. To be plugged into the coiler head acceptance. Infinitely and centrally adjustable winding core diameter. With four binding slots and four winding core segments

  - Coil diameter up to 800 mm

- **Spool winding axle** to plug into the spooler plate

More extra attachment on request

Coil and drum take-up

Fig. 1 MOTROL® 1000 AUF with opened protective cover

Fig. 2 MOTROL® 1000 with opened protective cover and coiler head

Fig. 3 Lift-type device for drums with an empty drum

Fig. 4 MOTROL® 1000 with opened protective cover and drum

MOTROL® 1000 AUF

With this motor driven coiling machine winding goods such as cables, hoses, tubes, steel cables, plastic profile, etc. can be coiled or wound on empty bobbins and empty drums and they can simultaneously be cut to length. The winded spools resp. drums can be removed with a lift-type device (Pic.3)

Technical Details	
Coiler head diameter	max. 1000 mm
Drum diameter	400 - 1000 mm (DIN 46391)
Drum width	120 - 710 mm
Drum weight with drum axle	max. 350 kg
Standard drives (special speed on request)	75 min^{1} (1,5 kW) or 130 min^{1} (3,0 kW)
Electrical connection (CEE-connector plug)	230 / 400 V - 50 Hz
Traversing width	650 mm
L x W x H (protective cover closed) (H = 1650 mm with pneumatic cutter)	abt. 2200 x 1400 x 1450 mm
Colour	RAL 7005, mouse grey
Weight (without accessories)	abt. 600 kg

Coil and drum take-up

Basic equipment:

- Basic maschine constructed as self-supported and torsionally resistant weldment with two lockable steering rollers and two fixed rollers
- Direction of travel right-angled to winding direction
- Winding drive by means of geared motor via chain
- Infinitely adjustable working speed control allowing a smooth start
- The winder is prepared for the installation of coiling winches, coiler heads or spool axles with 30 mm
- Manually operable traversing slide, prepared for the integration of additional equipment such as length measuring units and material cutters as well as roller guides
- Switch cabinet integrated in the machine frame
- Operating panel with emergency stop is ergonomically integrated into the base frame
- The winder is prepared for conical acceptance of coiling winches, coiler heads or bobbin axles
- Protective cover folding upwards or to be slided sidewards for MOTROL® 1000 (required for CE)

Recommended equipment:

- **MESSBOI 40 BVE Length measuring** with pre-selection counter for winding material up to 40 mm outer diameter
  - Measuring accuracy +/- 0,5 %
  - MID-/Calibratable for round cable till line speed 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe
  - Pre-selection counter with disconnecting contact of the drive

alternative:

- **MESSBOI 80 BVE Length measuring** with pre-selection counter for winding material up to 80 mm outer diameter
  - Measuring accuracy +/- 0,5 %
  - Calibratable for round cable till line speed 250 m/min
  - Calibration of the length measuring device is approved by German Authorities for a period of two years, valid in Germany
  - Preselection counter with electrical switch contact for the winding drive

- **Manually, pneummatically or hydraulically operated cutting** system for cutting the winding material

- **Automatic traversing**, consisting of a geared motor with speed controller. Traversing can be moved to any position via joystick within the setting mode. This is very important for the starting position of the winding drive. The motion reversing points can be saved during machine downtime but also during winding operation via reference keys. The traversing lead can be adjusted infinitely via rotary potentiometer even during the winding operation. The traversing speed automatically adapts to the winding speed (synchronization). The complete traversing drive can be disengaged for manual traversing.
  - Traversing lead range 2 - 60 mm
  - Traversing width 650 mm

- **Coiler head RAPID 800 SL** for coil winding. To be plugged into the coiler head acceptance. Infinitely and centrally adjustable winding core diameter. With four binding slots and four winding core segments.
  - Coil diameter up to 800 mm
  - Core adjusting range: 300 - 550 mm
  - Coiling width: 20 - 250 mm

- **Drum axle for drums and spools**

- **Lift-type device for drums**
  Moveable device for lifting and lowering of full and empty drums at the flange from the floor

More extra attachment on request

PORTROL 1000 / 1400

Pintle winder for drums

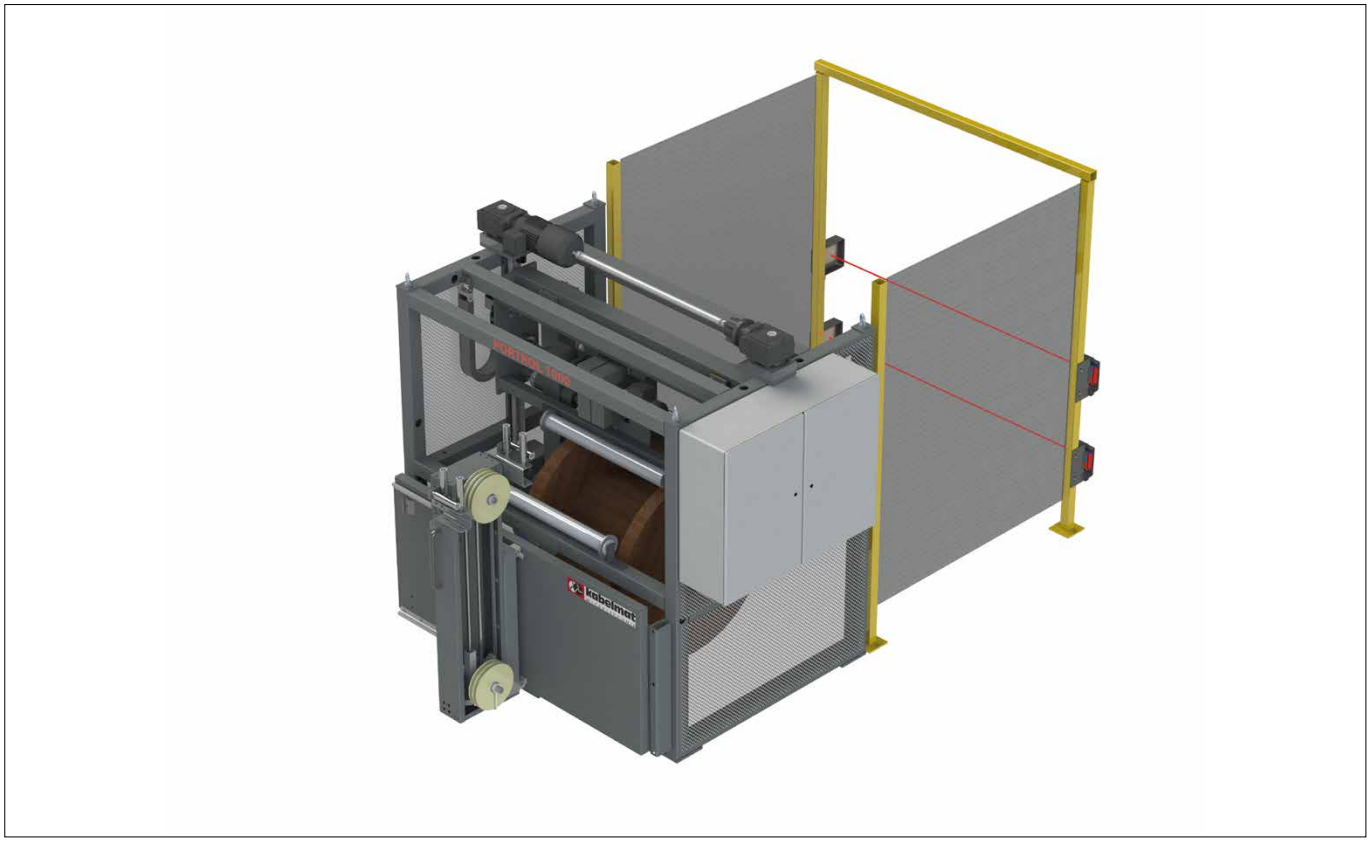


Fig. 1 PORTROL 1000 ABW

This portal-type winder of the model series PORTROL can be used either as unwinder or as winder. It 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 PORTROL allows the coiling of various materials such as cables, hoses, pipes and steel ropes.
When using it as unwinder, 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".
When using it as winder, the materials can be measured and cut to length simultaneously with the appropriate accessories. The number of revolutions or winding speed resp. is adjusted with a potentiometer or the nominal value is preset.
For installing and removing the drum the same is rolled to the installation point. The previously opened arms of the spindle sleeves are then moved together by the push of a button of the operator and are lifted to the appropriate transfer height. After clamping the drums by the spindle sleeves the same are lifted to the drum down position. At the operating desk the drum can then be turned forward or backward with the inching function. In case of operation in a line, the unwinder is automatically controlled, however, on the condition that the safety devices are closed or activated resp.

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)
    - Saefty fence with two super-imposed safety light barriers

PORTROL 1000 / 1400

Pintle winder for drums

Recommended equipment:

- **Speed-controlled gear motor**, suitable technical spezification
- **frictionally driven traversing slide,** including sleeve for easy loading of the drum without carrier bolts
  Consisting of two carriers for both pintle arms. Cylindric drum loading
- **Pay off**
  - ACUMATIC, material accumulator / dancer
  - Instantaneous regulation of winding drive
- **Take up**
  - Traversing frame with guide slide and mounting plate
  - length measuring unit with pre-selection counter and roller cages
  - hydraulically cutting
  - automatic traversing

Technical Details

PORTROL	Type	1000	1400
Drum-Ø	mm	400 - 1000	400 - 1400
Drum width	mm	300 - 750	300 - 930
Drum weight	kg	900	2000

Dimensions of the machine

Length	mm	1530	1860
Width	mm	2200	2420
Height	mm	2100	2500
Weight	kg	900	1200

Winding drives according to specification - Drum sizes as per DIN 46391/46395 and KTG - All sizes without engagement. Specifications will be determined in case of order!

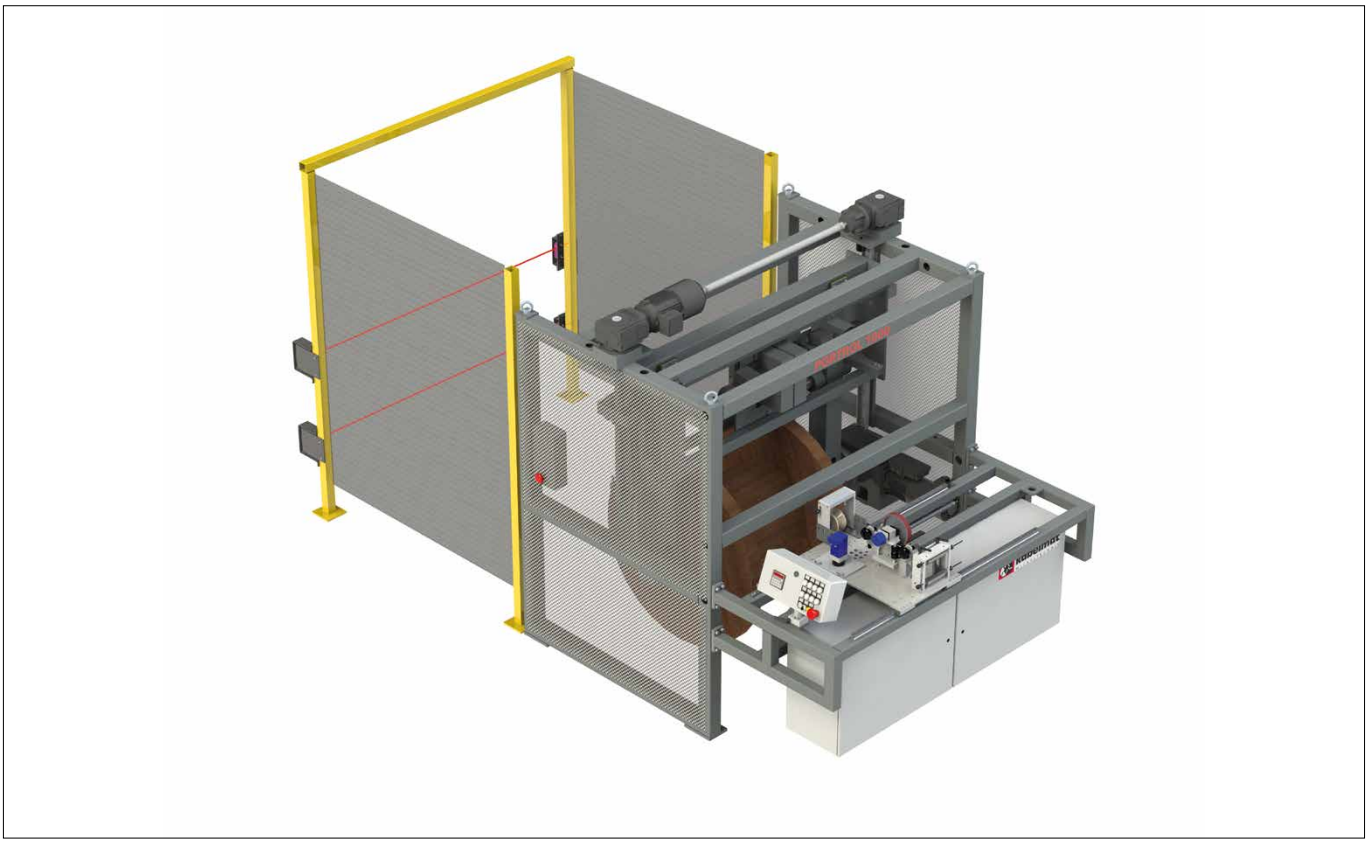


Fig. 2 PORTROL 1000 AUF

RINGROL 600

Semi-automatic coil winding machine

Fig. 1: RINGROL 600 with opened protective cover and biniding unit

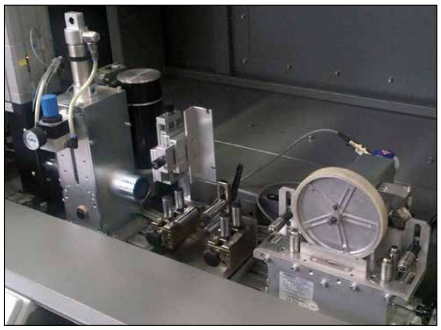


Fig. 2: Example traversing unit

Fig. 3: Winder

Fig. 4: Cable fixing clamp for coiler head

RINGROL 600

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 Details	
Winding plate diameter	600 mm
Core diameter	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 min¹ (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)	abt. 2200 x 1350 x 1650 mm
Weight	abt. 600 kg

RINGROL 600

Semi-automatic coil winding machine

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, working speed control adjustable via potentiometer at the operating 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:

- **MESSBOI 40 BVE Length measuring** with pre-selection counter for winding material up to 40 mm outer diameter.
    - Measuring accuracy +/- 0,5 %
    - MID-/Calibratable for round cable till line speed 200 m/min
    - Conformity certification of the length measuring device is approved by German Authorities for a period of two years, valid in Europe.
    - Pre-selection counter with disconnecting contact of the drive

Optional:

- **Mass storage** for pre-selection counter for reading data in and out when trading with goods liable for calibration
- **Pneumatically operated cutting** unit for cutting the winding material
- **Material feeder** allows to put the cable quickly in the winding unit
- **INKJET Printer** in order to print phrases or figures onto the cable
- **Binding unit** for wound coil mountable at the machine

Fig. 5 Binding unit

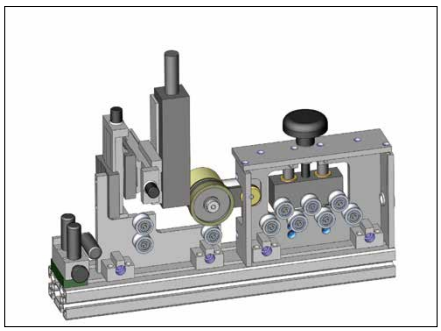


Fig. 6 Guiding unit for the printing head

Fig. 7 KMS-Software with PC

Recommended delivery systems

- pay off: TROMTRAK, TROMROL, UMROL or PORTROL as feeding system manually driven or motorized
- cable drum storage and unwinding system LAGROL

More extra attachment on request

RINGROL 800

Semi-automatic coil winding machine

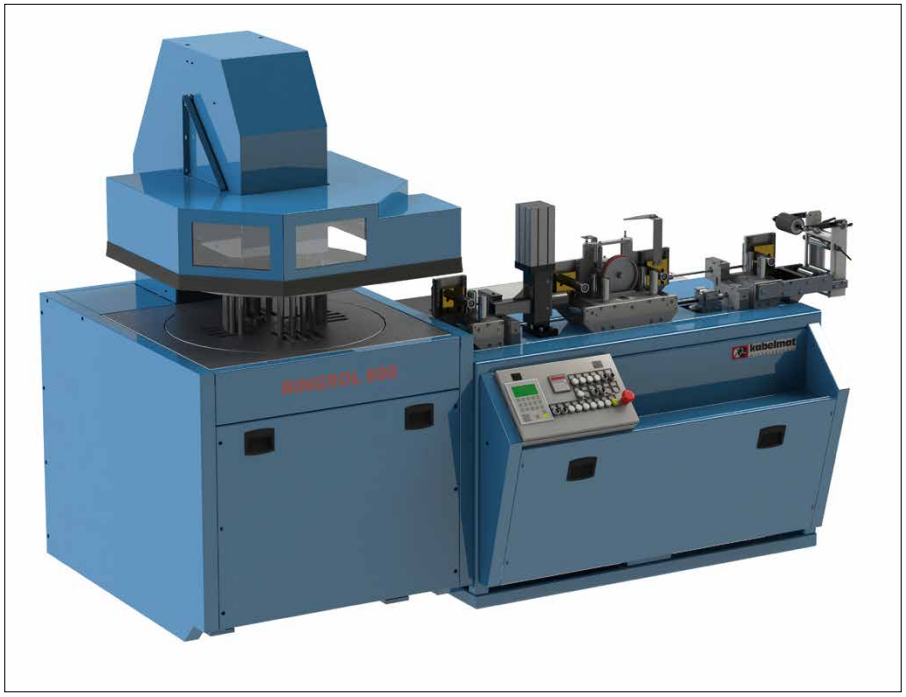


Fig. 1 RINGROL 800

Fig. 2 Example traversing unit

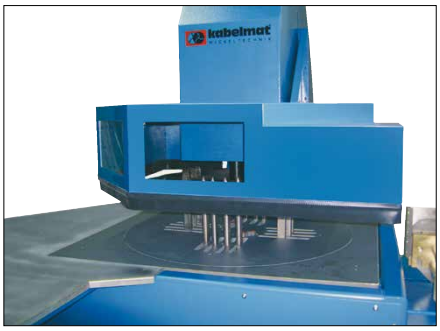


Fig. 3 Winding plate

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

RINGROL 800

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 Details	
Winding plate diameter	800 mm
Core diameter	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)	abt. 800 kg

RINGROL 800

Semi-automatic coil winding machine

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
- Proctective 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
- Touchpanel 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:

- **MESSBOI 80 Length measuring device** for winding material of an outer diameter of up to 80 mm, with optionally selectable central adjustment of the guide rollers
  - Measuring accuracy +/- 0,5 % (with additional inlet and outlet rollers)
  - Calibration of the length measuring device is approved by German Authorities for a period of two years, valid in Germany
  - Pre-selection counter with disconnecting contact of the drive

Optional:

- **Mass storage** for pre-selection counter for reading data in and out when trading with goods liable for calibration
- **Pneumatically operated cutting** unit for cutting the winding material
- **Material feeder** allows to put the cable quickly in the winding unit
- **INKJET Printer** in order to print phrases or figures onto the cable
- **Binding unit** for wound coil mountable at the machine

Fig. 5 Binding unit

More extra attachement on request

Pay-off systems coils / spools

Fig. 1 SPULFIX 480 with opened protective cover

Fig. 2 SPULFIX 480 with closed protective cover

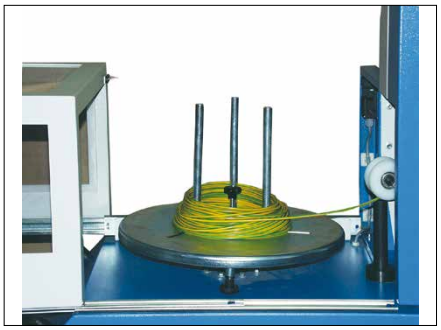


Fig. 3 Dispensing plate

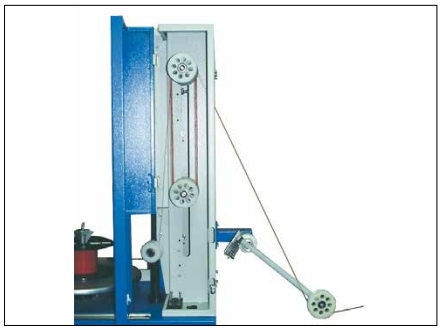


Fig. 4 Dancer

SPULFIX 480

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.

SPULFIX 480

Pay-off systems coils / spools

Technical Details	
Dispensing plate-Ø	max. 480 mm
Loading capacity	25 kg
Accumulator capacity	3 m
Numbers of accumulator wheels	5 / 6
Cable-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	abt. 1350 x 620 x 1860 mm
Weight	abt. 120 kg

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 dispensing plate for spools

Technical Details	
Spool width	up to 150 mm
Plate-Ø	480 mm
Core pin-Ø	16 x 200 mm
Centring piece for bore-Ø	25 - 80 mm
Spool weight	max. 25 kg
Colour	zinc plated

RINGFIX 480 Horizontal dispensing plate for coils

Technical Details	
Winding material-Ø	up to 470 mm
Plate-Ø	480 mm
Height centring pins (3 pcs.)	250 mm
Core adjusting range	140 - 320 mm
Coil weight	max. 25 kg
Colour	zinc plated

TROMTRAK 1600

Axle unwinders for drums

Fig. 1 TROMTRAK 1600 electrohydraulic pay off

Fig. 2 TROMTRAK 1600 with protection cover

TROMTRAK 1600 Electrohydraulic pay off

Basic equipment

- Stationary steel profile frame
- Electrohydraulic pump with manual reset
- Two axles for the receipt of cable drums
- Two cones for centering the cable drums on the axle
- Electrical supply via CEE-plug

Technical Details	
Drum-Ø	500 - 1600 mm
Drum weight	max. 3000 kg
Drum axle no. 1	Ø 34 x 1340 mm
Drum axle no. 2	Ø 60 x 1340 mm
Electrical supply	230 / 400 V - 50 Hz
L x W x H	abt. 1600 x 1785 x 1200 mm
Weight	abt. 400 kg

Accessoires:

All–round sheet metal casing with protection cover

- Lateral sheet metal casing adapted to the machine frame
- Sheet metal casing above the machine frame
- Winder protective hood made of sheet steel, with window for inspecting the winding process
- The protection cover folding upwards

Fig. 3 Drum axle with cone in the device

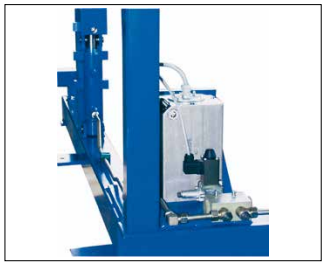


Fig. 4 Hydraulic unit with flow control valve

TROMROL 2500

Axle unwinders for drums

Fig. 1 TROMROL 2500

Fig. 2 TROMROL 2500 with disk brake and brake caliper

TROMROL 2500

- TROMROL drum unwinders can be used as stand-alone machine or as machines integrated in a complete production line

Basic equipment:

- Steel profile frame with two fixed rollers and two brakable steering rollers
- Drum axle brackets adjustable in height via hydraulic cylinder via electrohydraulic device by push of a button

Technical Details

TROMROL 2500 electrohydraulic	
Drum-Ø to DIN 46391 and KTG	400 - 2500 mm
Drum width	max. 1450 mm
Drum weight	max. 5000 kg
L x W x H	abt. 1750 x 2130 x 1900 mm
Weight	abt. 500 kg
Electrical supply	230 / 400 V - 50 Hz
Electrical supply via CEE connector	

Accessories for TROMROL 2500

Drum axle up to 5000 kg	
This drum axle is equipped with plain bearing and is hot-dip galvanized. Disk brake with brake caliper. Brake force via star wheel.	
Axle-Ø	70 mm
Axle material thickness	10 mm
Axle loading	5000 kg
Weight	abt. 38 kg
Material	steel

Drum axle till 1200 kg	
This aluminium drum axle is equipped with plain bearing. Disk brake with brake caliper. Brake force adjustable by star wheel.	
Axle-Ø	65 mm
Axle loading	1200 kg
Weight	abt. 25 kg
Material	aluminium

UMROL 1000 AUF

Pintle winder for coils and drums

Example with coiler head

Fig. 1 UMROL 1000 AUF

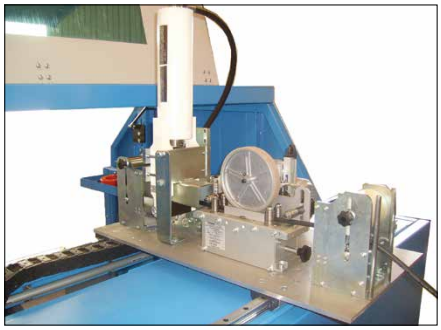


Fig. 2 Traversing unit

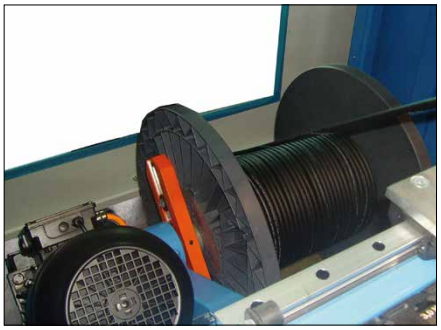


Fig. 3 Winding processing

Fig. 4 UMROL 1000 AUF drum reception via spindle sleeves

UMROL 1000 AUF

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.

Technical Details	
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	1230 mm
Traversing width	abt. 700 mm
Pass-through direction	right to left
L x W x H	abt. 2135 x 1770 x 2245 mm
Weight	abt. 1100 kg

UMROL 1000 AUF

Pintle winder for coils and drums

Basic equipment:

- Steel profile frame with two brakable 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 cover for UMROL (required 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

- **MESSBOI 40 BVE length measuring device** with pre-selection counter for winding material with an outer diameter of up to 40 mm

  - Measuring accuracy (with inlet and oulet roller cages) +/- 0,5 %
  - MID-/Calibratable for round cable line speed up to 200 m/min
  - Conformity certification of the length measuring device is approved by German Authorities for a period of two years valid in Europe
  - Preselection counter with disconnecting contact of the winding drive

- **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 RAPID 800 SL** 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,
  - Coiler diameter of winding material: up to 800 mm;
  - Core adjusting range: 300 - 550 mm;
  - Coiling width: 20 - 250 mm
  - Adapter for coiler head RAPID 800 SL, for quick and easy mounting of the coiler head to a kabelmat® UMROL rewinder.

- **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

More extra attachement on request

UMROL 1400 / 1600 / 2200 AUF

Pintle winder for coils and drums

Example with coiler head

Example with drum

Fig. 1 UMROL 1600 AUF

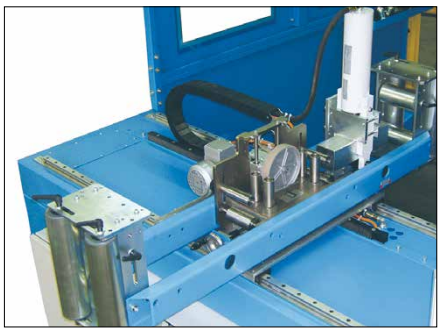


Fig. 2 Traversing unit

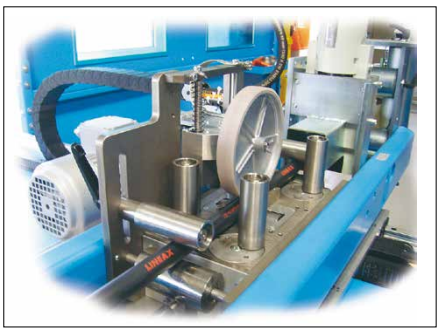


Fig. 3 Length measuring unit

Fig. 4 Operatingpanel

UMROL 1400 / 1600 / 2200 AUF

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 ME 40.

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.

UMROL 1400 / 1600 / 2200 AUF

Pintle winder for coils and drums

Basic equipment:

- Steel profile frame with two brakable 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)

Fig. 5 Cable brake

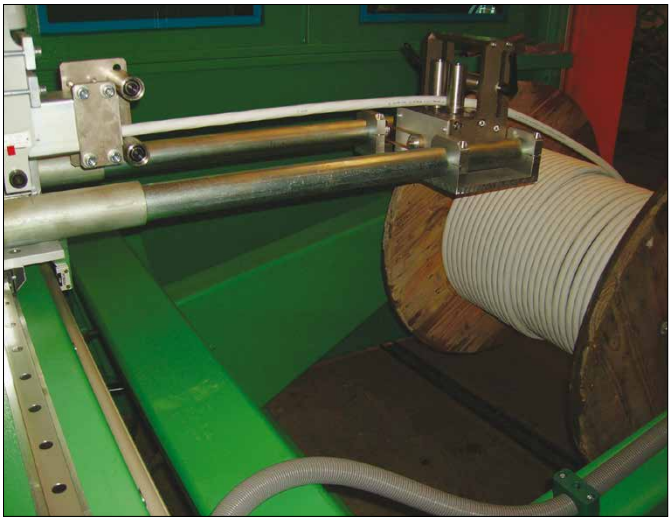


Fig. 6 Central guide rollers on telescopic rail

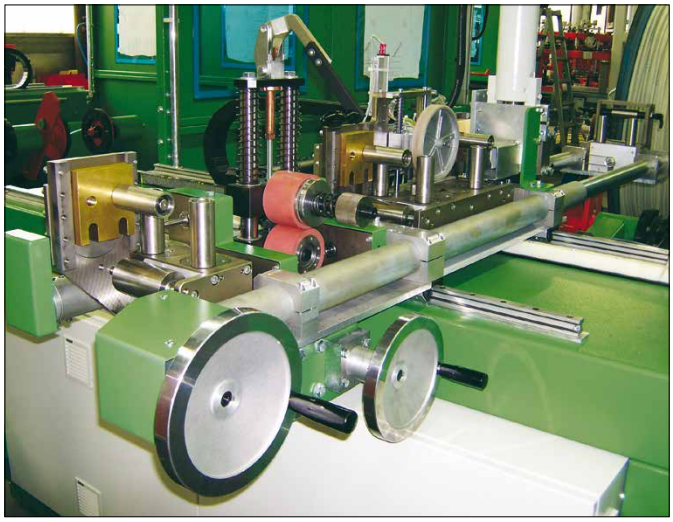


Fig. 7 Centrally adjustable guide rollers

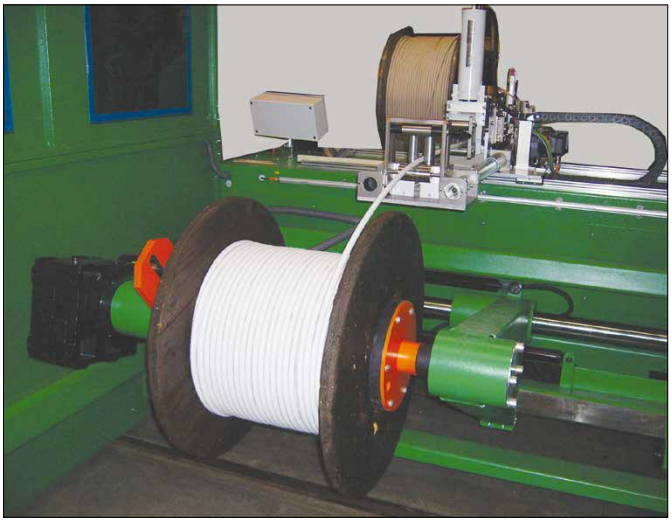


Fig. 8 Precise cable traversing

Pintle winder for coils and drums

Recommended equipment:

- **Winding drives:** see overleaf

- **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.

- **MESSBOI 80 BVE Length measuring device** with pre-selection counter for winding material with an outer diamter of up to 80 mm or MESSBOI 100 BVE Length measuring device with pre-selection counter for winding material with an outer diameter of up to 100 mm

  - Measuring accuracy (with inlet and outlet roller cages) +/- 0,5 %
  - Calibratable for round cable line speed up to 250 m/min (MESSBOI 80), 150 m/min bei (MESSBOI 100)
  - Calibration of the length measuring device is approved by German Authorities for a period of two years, valid in Germany
  - 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 RAPID 800 SL** 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

  - Coiler diameter of winding material: up to 800 mm;
  - Core adjusting range: 300 - 550 mm;
  - Coiling width: 20 - 250 mm
  - Adaptor for coiler head RAPID 800 SL, for quick and easy mounting of the coiler head to a kabelmat® UMROL rewinder.

- **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

More extra attachement on request

Fig. 9 Traction drive with control pole

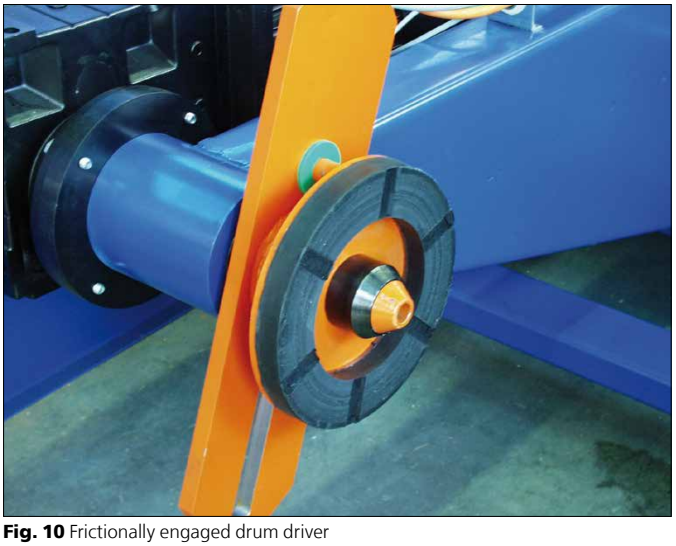


Fig. 10 Frictionally engaged drum driver

UMROL 1400 / 1600 / 2200 AUF

Pintle winder for coils and drums

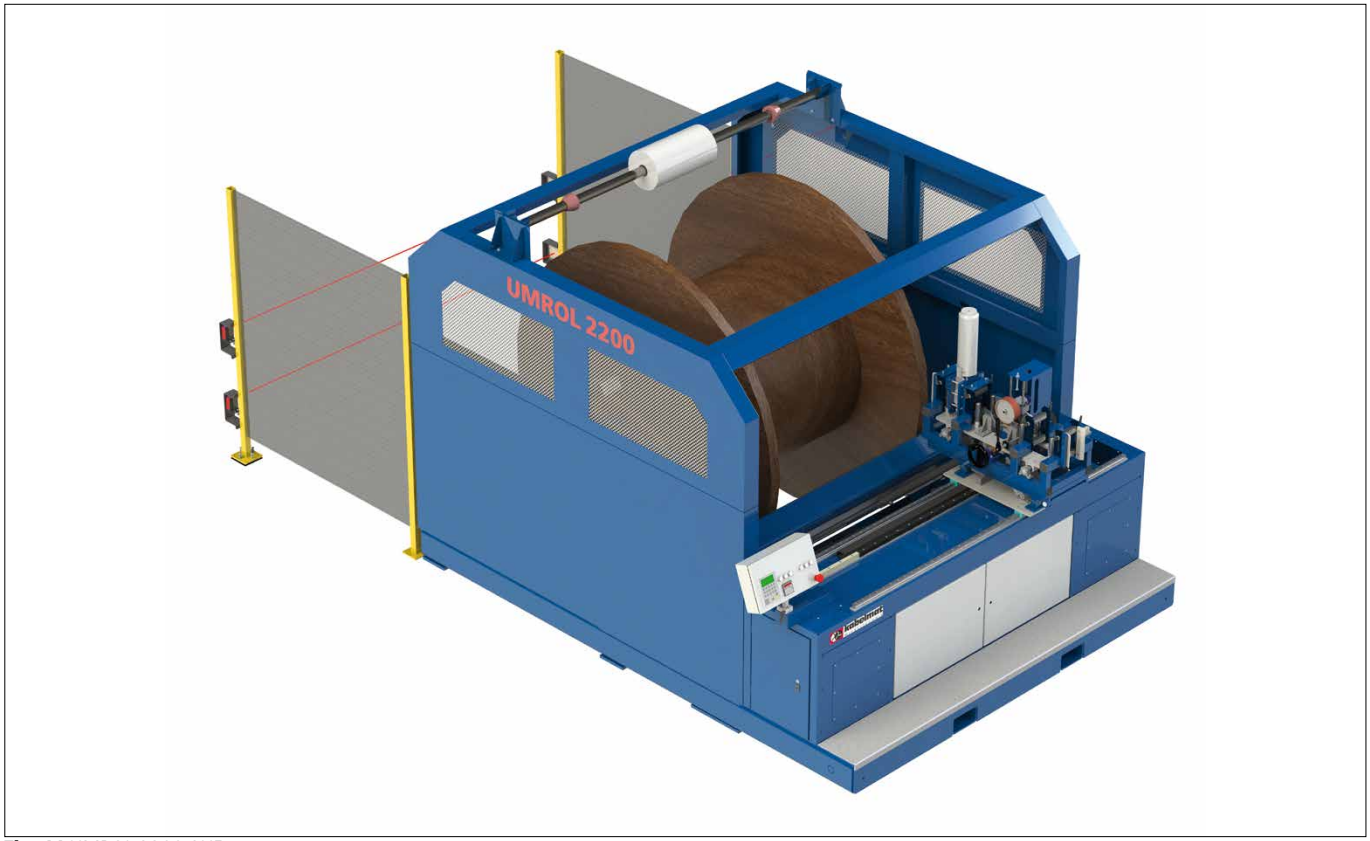


Fig. 11 UMROL 2200 AUF

Technical Details

UMROL	Type	1400	1600 (1800)	2200
Drum-Ø	mm	630 - 1400	630 - 1600 (710 - 1800)	710 - 2240
Drum width	mm	180 - 1050	350 - 1200	400 -1700
Drum weight	kg	2000	3000	6000
Traversing width	mm	1090	1200	1700
Winding speed	min[1]	75/130	60 / 110	40 / 60
Motorpower	kW	4 / 7,5	5,5 / 11	7,5 / 11

Dimensions of the machine	Type	1400	1600 (1800)	2200
Length abt.	mm	3000	3200 (3400)	3800
Width abt.	mm	2290	2360	2950
Height abt.	mm	2300	2300	2500
Weight abt.	kg	2500	2800	4800

Drum sizes as per DIN 46391/46395 and KTG - All sizes without engagement!!

Fig. 12 accessory control desk UMROL 2200 mobile on the motor

Fig. 13 accessory control desk UMROL 2200 mobile at the frame

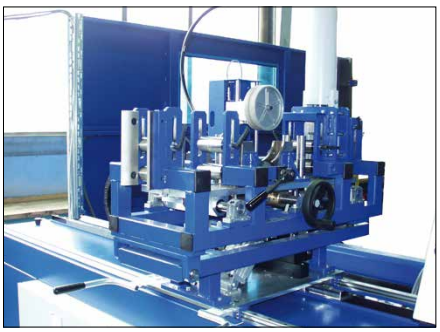
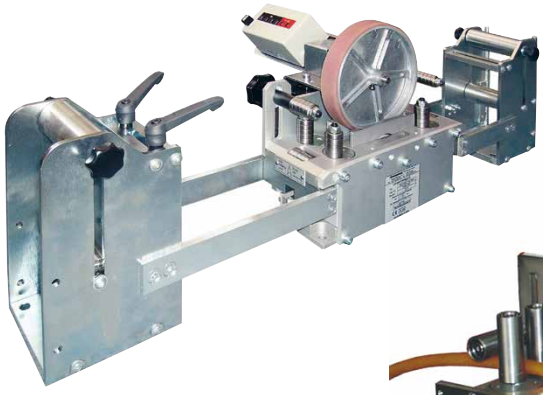
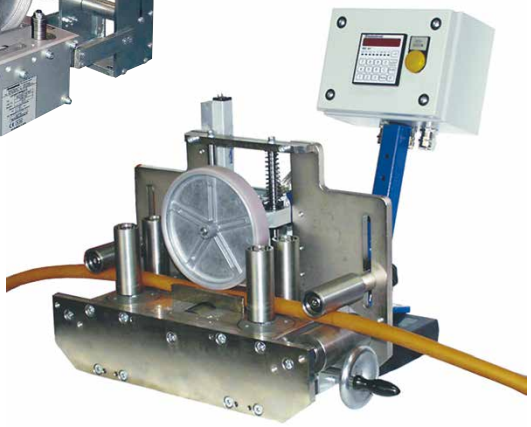


Fig. 14 UMROL with MESSBOI 100

MEASURING SYSTEMS





MESSBOI 10

MESSBOI 30

MESSBOI 40 BVE / 40 BAE / 40 BAND

MESSBOI 80

MESSBOI 100

MESSBOI LASER

MESSBOI 10

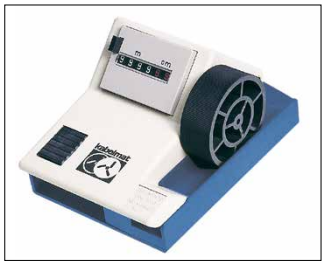
Length measuring unit

Fig. 1 MESSBOI 10

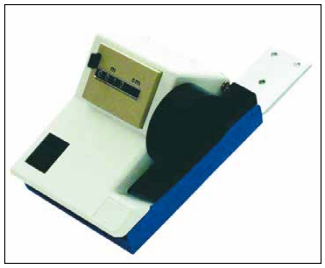
Length measuring unit

The only way to avoid material loss is to avoid measuring tolerances. This is what we have set as our goal. Our efforts resulted in the family of length measuring units: simple design, easy operation and due to the possibility of calibration absolutely within the required tolerances. Conformity certification of the length measuring device for coated round cables is approved by German Authorities, valid in Europe.

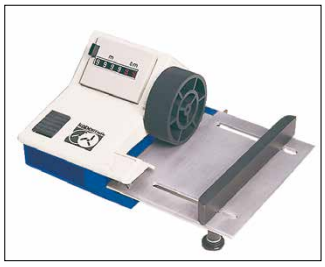
Attention: The MESSBOI 10 / MESSBOI-B / MESSBOI 10-HT is also available calibrated!
The measuring accuracy for this measuring units is +/- 0,5 %



MESSBOI 10 **MESSBOI 10 calibrated**		**Part No.** **Part No**	**85100471** **86100471**
Winding good-Ø	1-15 mm	Measuring force	constant due to spring pressure
Calibration range	1-10 mm	Housing	Polystrol weiß/blau
L x W x H	abt. 160 x 110 x 90 mm	Weight	abt. 0,5 kg
Counter	9999,99 m with reset key		
Measuring accuracy	+/-2 %		



MESSBOI 10 B **MESSBOI 10 B calibrated**		**Part No.** **Part No.**	**85100543** **86100543**
Winding good-Ø	1-15 mm	Measuring force	constant due to spring pressure
Calibration range	1-10 mm	Housing	Polystrol white/blue
L x W x H	abt. 260 x 110 x 90 mm	Weight	abt. 0,7 kg
Counter	9999,99 m with reset key		
Measuring accuracy	+/-2 %		



MESSBOI 10 FLA		**Part No.**	**85100443**
Flat cable up to	15 mm strength 100 mm width	Measuring force	constant due to spring pressure
L x W x H	abt. 160 x 210 x 90 mm	Housing	Polystrol white/blue
Counter	9999,99 m with reset key	Weight	abt. 0,75 kg
Measuring accuracy	+/-2 %		

MESSBOI 10 HT **MESSBOI 10 HT calibrated**		**Part No.** **Part No.**	**85100442** **86100442**
Winding good-Ø	1-15 mm	Measuring force	constant due to spring pressure
Calibration range	1-10 mm	Housing	Polystrol white/blue
L x W x H	abt.250 x 110 x 250 mm	Weight	abt. 1 kg
Counter	9999,99 m with reset key		
Measuring accuracy	+/-2 %		

MESSBOI 30

Length measuring unit

Fig. 2 MESSBOI 30 with roller cage

MESSBOI 30

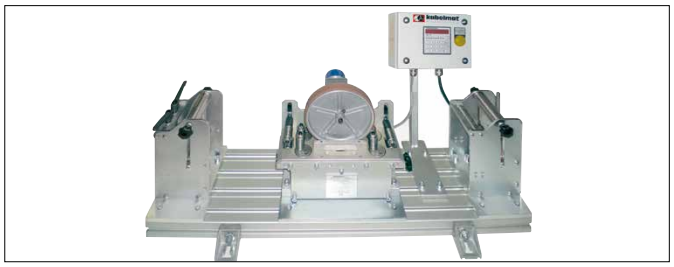
The MESSBOI 30 is very vaiable as it can be used stationary as well as mobile.
Simply loosen the screws and remove the measuring unit from its base.
Note: The calibration of the MESSBOI 30 is a German approval for coated round cables! Valid only in Germany.

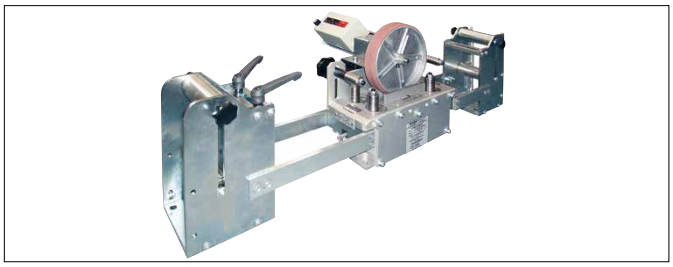
MESSBOI 30		**Part No.**	**85001000**
MESSBOI 30 calibrated		**Part No.**	**85001010**
Winding good-Ø	1-30 mm	Measuring wheel	aluminium
Calibration range	3-12 mm	Housing	diecast aluminium
L x W x H	abt.130 x 130 x 320 mm	Colour	RAL 7005, mouse grey
Counter	9999,99 m with reset key	Weight	abt. 2,2 kg
Measuring accuracy	+/-2 %		

Roller cage	**Part No.**	**85100541**
A roller cage for MESSBOI 30 can be used for better guiding		

MESSBOI 40 BVE / 40 BAE / 40 BELT

Length measuring unit





Measuring unit for winding goods up to an outer diameter of 40 mm with mechanical or digital counter. Depending on the application we offer various versions to customer specification. These measuring units consist of a solid carcass equipped with guide rollers to which the measuring device is mounted. Measuring scanning by means of measuring wheel. Calibration approval for sheathed round cables with additional inlet and outlet. If requested, also available with stainless steel-counter roller for the measuring of steel ropes. Conformity certification of the length measuring device with additional inlet and outlet rollers for coated round cables is approved by German Authorities for a period of two years,valid in Europe.

MESSBOI 40 BVE Part No. 85100455	
with 2 potential free contacts for prestop and shut-off mechanism	
Winding good-Ø	1-40 mm
Calibration range	2-25 mm
L x W x H (without roller cages)	abt. 320 x 200 x 280 mm
Measuring wheel circuit	0,5 m
Measuring repeat accuracy class of accuracy III with roller cages	+ / - 0,5 %
Speed	max. 350 m /min
Speed as per calibration approval	max. 200 m /min

MESSBOI 40 BAE Part No. 85100003	
Winding good-Ø	1-40 mm
Calibration range	2-25 mm
L x W x H (without roller cages)	abt. 320 x 320 x 280 mm
Counter	9999,99 m with reset key
Measuring wheel circuit	0,5 m
Measuring accuracy class of accuracy III with roller cages	+ / - 0,5 %
Material	steel / stainless steel / aluminium
Weight	12 kg

In- and Outlet roller cages Ø35 mm Part No. 85100185 (Combination)	
for direct winding out from pay off	
Material thickness	40 mm
Roller-Ø	35 mm
Housing	steel, zinc plated
Guiding rollers	stainless steel
Weight	9 kg / pair

In- and Outlet roller cages ø 35 mm / ø 80 mm Part No. 85100186 (Combination)	
for direct winding out of the storage rack	
Material thickness	40 mm
Roller-Ø Inlet	bottom 35 mm (stainless steel)
Roller-Ø Inlet	top side 80 mm (plastic)
Roller-Ø Outlet	bottom/top side 35 mm (stainless steel)
Housing	steel, zinc plated
Weight	9 kg / pair

Length measuring unit

Fig. 1 MESSBOI BELT with housing and tripod stand

Fig. 2 MESSBOI BELT installed in a machine with roller cages and straightening element

MESSBOI 40 BELT

Our belt measuring unit MESSBOI 40 is used for all various types of winding material such as cables, tubes, hoses and ropes in order to measure its length. It is suitable for highest possible measuring accuracy as well as for very small measuring tolerances. Chassis consits of a stainless steel housing, in which particularly the sensitive components are protected against external influences at best. Material scanning is executed by two measuring crawlers. The upper part can be removed by means of a toggle joint and adjusts itself to the material thickness due to its own weight. The material length is indicated by a rotary pulse encoder which is mounted at the lower measuring crawler. The actual length as well as its set value is indicated by an electric pre-selection counter.
Conformity certification of the length measuring device with additional inlet and outlet rollers for coated round cables is approved by German Authorities for a period of two years,valid in Europe.

Technical Details		Recommended equipment	
Material-Ø	1 - 40 mm	Rotary pulse encoders	max. 2 pieces
Calibration	2 - 25 mm	Pre-selection counter	
Measuring wheel	0,5 m	Conformity evaluation	
Measuring accuracy with additional inlet and outlet roller cages	+ / - 0,5 %	Tripod stand for installing the MESSBOI 40 Belt on the floor	
Length without calibration accessories	abt. 500 mm	Pedestal for installing the MESSBOI 40 Belt on a desk	
Width	abt. 300 mm	Roller cages	
Height	abt. 500 mm	Stainless steel housing	
Length with calibration accessories	abt. 1400 mm	Pneumatic locking device for locking the measuring wheel	
Height with tripod stand	adjustable 1320 - 1620 mm	Other accessories upon request	
Speed	max. 600 m/min		
Speed calibration approval	max. 200 m/min		

Fig. 3 MESSBOI BELT

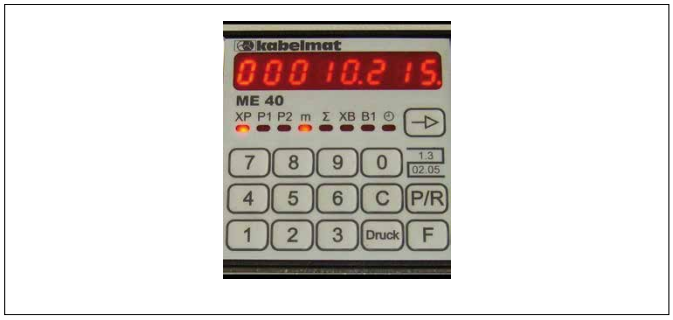


Fig. 4 Pre-selection counter

MESSBOI 80

Length measuring units

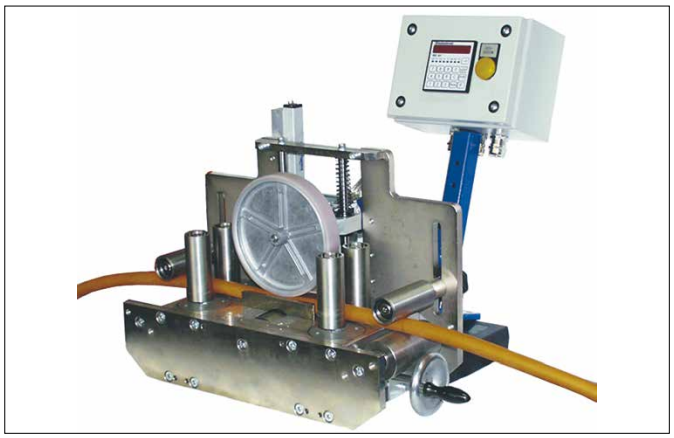


Fig. 1 MESSBOI 80 with housing

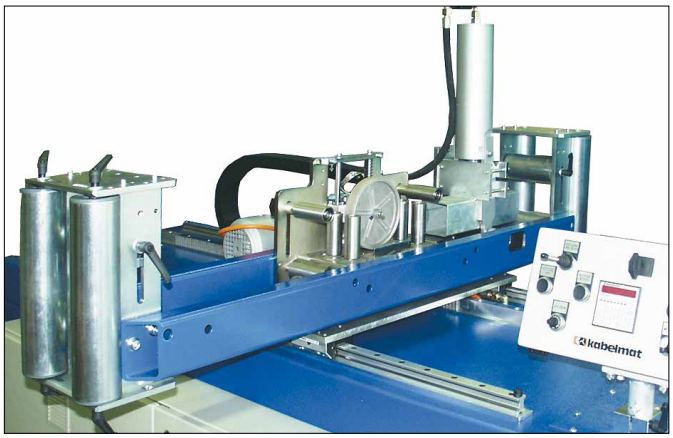


Fig. 2 MESSBOI 80 installed in machine with hydraulic cutter and roller cages

This measuring unit consists of a solid carcass equipped with guide rollers to which the measuring device is mounted. Measuring scanning by means of measuring wheel. Calibration of the length measuring device with additional inlet and outlet rollers is approved by German Authorities for a period of two years, valid in Germany, for coated round cables with a diameter from 5 - 50 mm.

Basic equipment

- One set of inlet and outlet rollers which are height adjustable and centrally width adjustable
- mechanical measuring wheel beared on two pillar guides
- measuring wheel bears on the measuring goods by means of its dead load
- measuring wheel axle for installation of rotary pulse encoder with flange RI58

Additional equipment:

- **rotary pulse encoder RI58 500 Imp/per turn**
  with two conduits A+B, 24VDC with connecting cable 5 m
  Consult us about your special applications.

- **Pre-selection counter ME 40** integrated into the operating panel of the machine
  pre-selection counter kabelmat - ME 40 with membrane keyboard.
  Two potential free electrical contacts for drive of fast or creep speed function of an adjustable winding drive or a signal lamp. The counter is equipped with membrane keyboard for indicating data.
  Monitoring of the calibration speed by means of signal lamp.
  Calibration range of the length measuring units with kabelmat pre-selection counter and rotary pulse encoder with additional inlet and outlet roller cages.

- **housing** for pre-selection counter mounted at the length measuring unit (necessary if there is no operating panel)

- **Diameter recognition mounted on the MESSBOI 80** to determine the diameter of winding good

- **Roller cages Ø 80mm,** consisting of inlet and outlet roller cages, including adjustable stainless steel ball bearings. Each roller cage equipped with a roller pair in horizontal and vertical direction. Roller cages are connected by steel rails and are mounted at the length measuring unit. These cages are necessary for calibration of the measuring units.
  For other roller cages do not hesitate to contact us.

Technical Details	
Material-Ø	1 - 80 mm
Calibration	5 - 50 mm
Measuring wheel	0,5 m
Rotary pulse encoder	500 Imp/Umdr. 24 VDC
Measuring accuracy (with additional inlet and outlet rollers)	+/- 0,5 %
Speed	max. 350 m / min
Speed Calibration	max. 250 m / min
Counter	9999,999 m
L x W x H	abt. 510 x 270 x 310 mm
Weight	abt. 23 kg

MESSBOI 100

Length measuring units

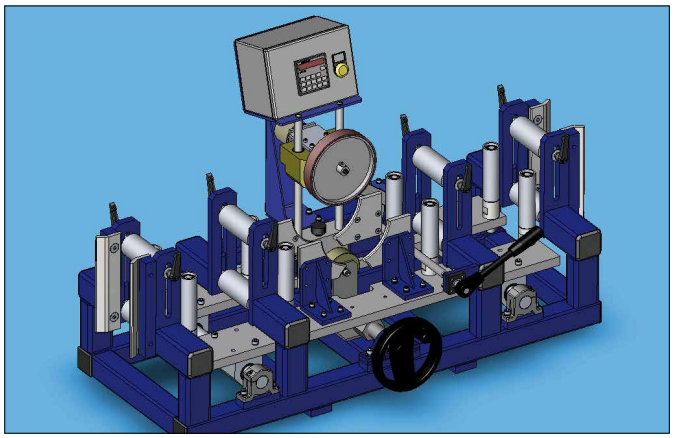


Fig. 1 MESSBOI 100 with Pre-selection counter in housing

Fig. 2 MESSBOI 100 installed in UMROL

This measuring unit consists of a solid carcass equipped with guide rollers to which the measuring device is mounted.
Measuring scanning by means of measuring wheel.
Calibration of the length measuring device with additional inlet and outlet rollers is approved by German Authorities for a period of two years, valid in Germany, for coated round cables with a diameter from 10 - 80 mm.

Basic equipment:

- 2 x 2 sets of inlet and outlet rollers, adjustable in height and centrally adjustable in width
- Mechanical measuring wheel mounted on two pillar guides
- Measuring wheel rests on the material due to its dead weight
- Axle of measuring wheel for installation of a rotary pulse encoder with flange RI58
- Hand lever to lift and arresting the measuring wheel in the top position

Additional equipment

- **rotary pulse encoder RI58 500 Imp/per turn**
  with two conduits A+B, 24VDC with connecting cable 5 m
  Consult us about your special applications.

- **Pre-selection counter ME 40** integrated into the operating panel of the machine
  pre-selection counter kabelmat - ME 40 with membrane keyboard.
  Two potential free electrical contacts for drive of fast or creep speed function of an adjustable winding drive or a signal lamp. The counter is equipped with membrane keyboard for indicating data.
  Monitoring of the calibration speed by means of signal lamp.
  Calibration range of the length measuring units with kabelmat pre-selection counter and rotary pulse encoder with additional inlet and outlet roller cages.

- **housing** for pre-selection counter mounted at the length measuring unit (necessary if there is no operating panel)

- **Diameter recognition mounted on the MESSBOI 100** to determine the diameter of winding good

Technical Details	
Material-Ø	5 - 100 mm
Calibration	10 - 80 mm
Measuring wheel	0,5 m
rotary pulse encoder	500 Imp/Umdr. 24 VDC
Measuring accuracy (with additional inlet and outlet rollers)	+/- 0,5 %
Speed	max. 250 m / min
Speed calibration	max. 150 m / min
Counter	9999,999 m
L x W x H	abt. 1100 x 550 x 450 mm
Weight	abt. 100 kg

MESSBOI LASER

Length measure unit

Fig. 1 MESSBOI LASER

Contactless length measuring device with roller guides working as per the laser-Doppler principle, certified as per MID 009. Specially developed device for installation in length measuring lines which require calibration.

Basic equipment:

- Mechanical direction recognizing wheel
- Maximum speed up to 3000 m/min.
- Very high absolute precision – better than 0,05 %
- No slippage, even in case of very high speeds and accelerations (up to 500 m/s2)
- No wear and tear – no wear or abrasion
- Maintenance-free – no mobile parts
- Multifunctional display
- Two potential-free electric contacts to control the fast motion / creep speed of an adjustable winding drive or an indicator lamp
- Roller guides horizontal and vertical
- MID acceptance of the MESSBOI LASER only possible in context with the roller guides.

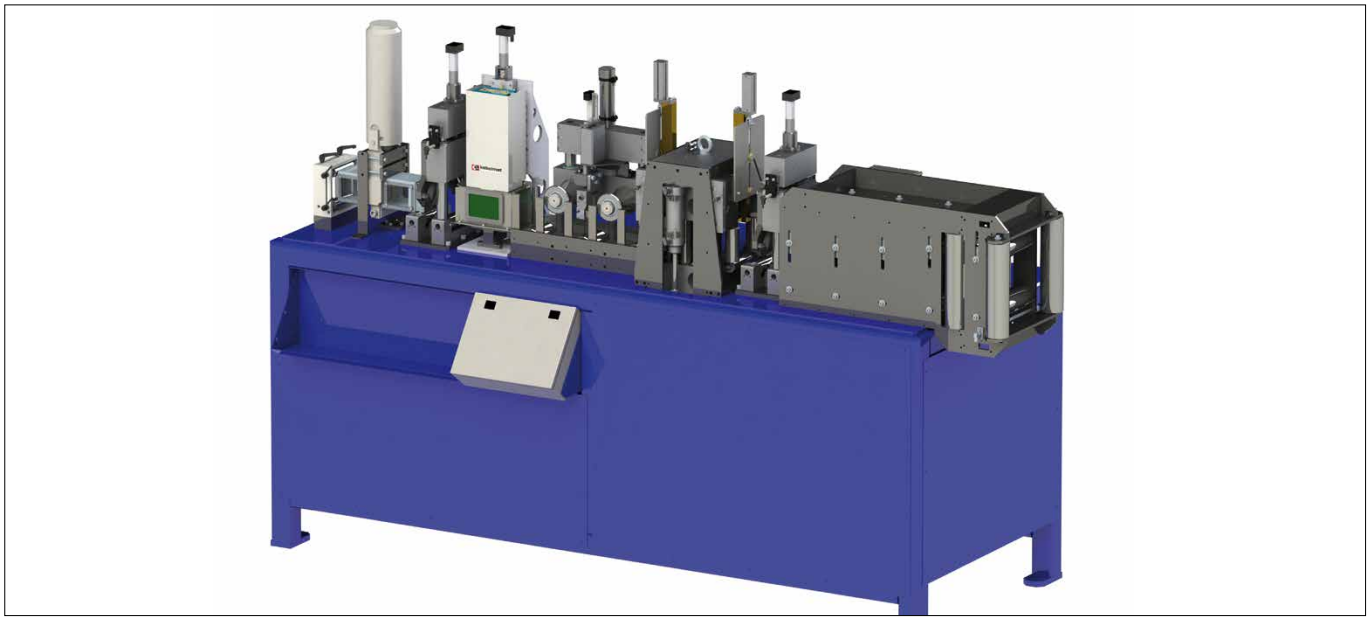


Fig. 2 Example MESSBOI LASER, Length measuring unit with guides and roller feed for semi-automatic infeed

WAREHOUSE SYSTEMS

MATBOI 450 / 650

LAGBOI S

LAGROL

SPULBOI

SPULROLLY

TROMBULLY

Unwinding and storing systems

Fig. 1 MATBOI Complete system

Fig. 2 MESSBOI 10 H

Fig. 3 MATBOI 650

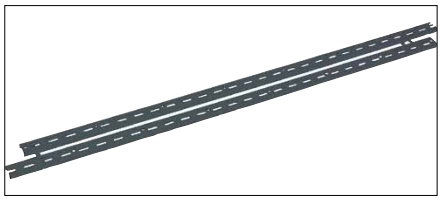
MATBOI

This storing system is mainly used in workshops or production areas. It allows clearly ordered storing, entangling-free pulling-off and cutting-to-length according to demand. Since this system is available as mobile or stationary version it offers a large variety of applications. Twisting-free material unwinding, simultaneous measuring and cutting-to-length of winding material such as cables, hoses or profiles wound on commercial coils is possible. Clearly ordered storage, ready for unwinding is guaranteed.
Note: Only suitable for manual unwinding!

MATBOI Complete system	**Part No.**	**85100670**
Consisting of:		
1 pcs. Storage rack		85100152
2 pcs. MATBOI 450 T		85100159
3 pcs. MATBOI 300 T		85100157
1 pcs. MATBOI 200 T		85100155

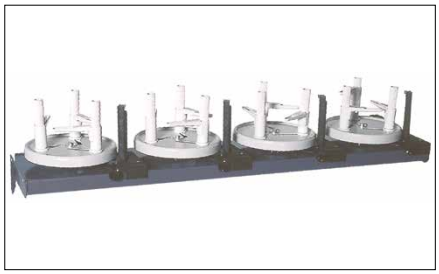
Storage rack	**450** **Part No. 85100152**	**650** **Part No. 85100905**
H x W x D	abt. 1590 x 1030 x 480 mm	abt. 1590 x 1030 x 700 mm
Loading capacity	max. 200 kg	max. 200 kg
Colour	RAL 7005, mouse grey	RAL 7005, mouse grey
Weight	abt. 18,5 kg	abt. 19,5 kg
with 4 lockable steering rollers		

Attachement piece uprating about 300 mm	**Part No.**	**86181001**

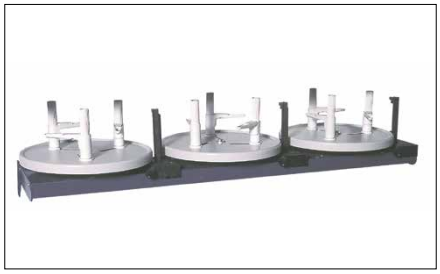


Profile rail to be mounted to wall	**Part No.**	**85100201**
For the suspension of unwinding units for rings and coils		
L x W x H		abt. 980 x 30 x 13 mm
Colour		RAL 7005, mouse grey
Weight		abt. 0,65 kg

Unwinding and storing systems

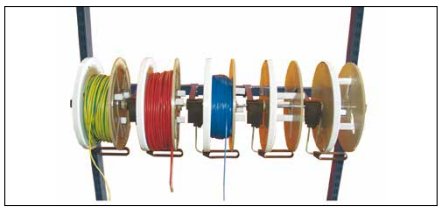


MATBOI 200 T		Part No.	85100155
Winding material-Ø	max. 190 mm	Weight	abt. 8,6 kg
Plate-Ø	200 mm	Colour Plate	RAL 7035, light grey
Height, centring pins	110 mm	Colour Shelf	RAL 7005, mouse grey
Core adjusting range	80 - 150 mm		
Coil weight	max. 8 kg		
With a brake fitted on the shelf, allowing the integration of MESSBOI 10 H			



MATBOI 300 T		Part No.	85100157
Winding material-Ø	max. 290 mm	Weight	abt. 9,2 kg
Plate-Ø	300 mm	Colour Plate	RAL 7035, light grey
Height, centring pins	110 mm	Colour Shelf	RAL 7005, mouse grey
Core adjusting range	90 - 180 mm		
Coil weight	max. 10 kg		
With a brake fitted on the shelf, allowing the integration of MESSBOI 10 H			

MATBOI 450 T		Part No.	85100159
Winding material-Ø	max. 440 mm	Weight	abt. 10,2 kg
Plate-Ø	450 mm	Colour Plate	RAL 7035, light grey
Height, centring pins	110 mm	Colour Shelf	RAL 7005, mouse grey
Core adjusting range	150 - 250 mm		
Coil weight	max. 12 kg		
With a brake fitted on the shelf, allowing the integration of MESSBOI 10 H			



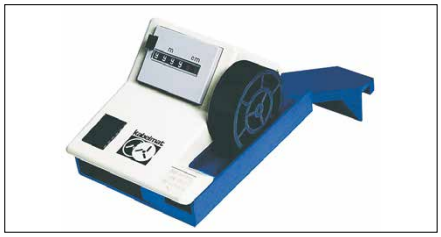
MATBOI 300-5-R		Part No.	85100410
Plate-Ø	300 mm	Coil weight	max. 5 kg
Height, centring pins	110 mm	Colour	7005, mouse grey
Core adjusting range	100 - 220 mm		
Hook-dispension rail with patented axle-free spool holders.			

MATBOI 650 T		Part No.	85101207
Winding material-Ø	max. 640 mm	Coil weight	max. 25 kg
Plate-Ø	650 mm	Colour Plate	zinc plated
Height, centring pins	250 mm	Colour support	RAL 7005, mouse grey
Core adjusting range	180 - 500 mm	Weight	abt. 11,6 kg

Note: Only suitable for storing rack no. 85100905

MATBOI 480 T		Part No.	85101206
Winding material-Ø	max. 470 mm	Coil weight	max. 25 kg
Plate-Ø	480 mm	Colour Plate	zinc plated
Height, centring pins	250 mm	Colour support	RAL 7005, mouse grey
Core adjusting range	140 - 320 mm	Weight	abt. 7,3 kg

Note: Only suitable for storing rack no 85100905



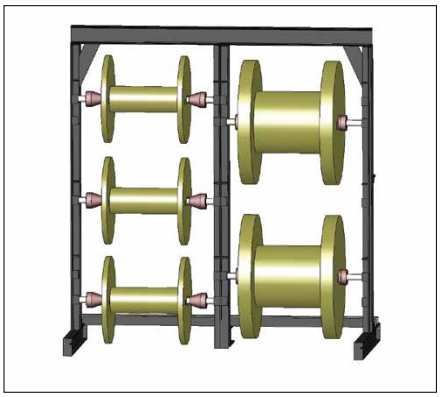
Accessory for MATBOI 450/650 MESSBOI 10H		Part No.	85100203
Winding material-Ø	1-15 mm	Measuring force	constant due to spring pressure
Calibration range	1-10 mm	Housing	Polystyrol
L x W x H	abt. 225x110x90 mm	Colour	white / blue
Counter	9999,99 m w. reset key	Weight	abt. 0,5 kg
Measuring accuracy	+/- 2 %		

Cable Drum storage and unwinding system

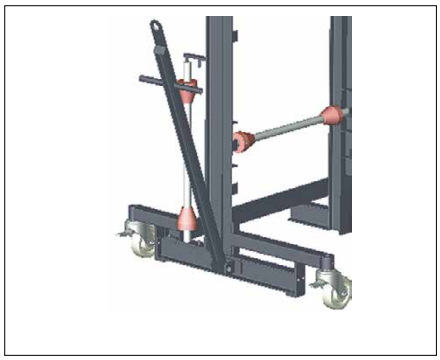
The **LAGBOI S** consists of pre-assembled modules (frame and crossbars) and can be assembled to a solid, clearly ordered, space-saving and very useful storage and dispensing rack. Note: This system is only suitable for **manual** unwinding!

LAGBOI S 8		**Part No.**	**85007400**
Example for drums acc. to KTG-system, DIN 46391		**Example:**	
Drum-Ø	max.1000 mm	8 x Ø 600 mm drums 2 x 4 axle or	
L x W x H	abt.1740 x 980 x 3000 mm	6 x Ø 800 mm drums 2 x 3 axle or	
Weight	abt. 155 kg	4 x Ø 1000 mm drums 2 x 2 axle	
Loading capacity	max. 3000 kg	**optional:** travelling equipment with drawbar axle	
Colour	RAL 7005 mouse grey		

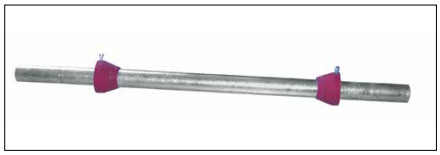
LAGBOI S 12		**Part No.**	**85017400**
Example for drums acc. to KTG-system, DIN 46391		**Example:**	
Drum-Ø	max. 400 mm	12 x Ø 400 mm drums 2 x 6 axle	
L x W x H	abt.1740 x 980 x 3000 mm		
Weight	abt. 155 kg		
Loading capacity	max. 3000 kg	**optional:** travelling equipment with drawbar axle	
Colour	RAL 7005 mouse grey		



LAGBOI S 6		**Part No.**	**85001002**
Example for drums acc. to KTG-system, DIN 46391		**Example:**	
Drum-Ø	max. 710 mm	4 x Ø 710 mm drums 2 x 2 axle or	
L x W x H	ca.1740 x 980 x 1850 mm	6 x Ø 500 mm drums 2 x 3 axle	
Weight	abt. 135 kg		
Loading capacity	max. 3000 kg	**optional:** travelling equipment with drawbar	
Colour	RAL 7005 mouse grey	axle	



Travelling equipment		**Part No.**	**85007451**
suitable for LAGBOI S6, S8, S12			
Steering rollers	2 pcs.		
Fixed rollers	2 pcs.		
Drawbar	1 pcs.		
Loading capacity	max. 2200 kg		
Weight	abt. 30 kg		



Axle		**Part No.**	**85008010**
incl. centring cones and clamping screws		**suitable for LAGBOI S6, S8, S12**	
Axle-Ø	34 x 8 x 840 mm		
Drum Weight	max. 1000 kg		

Cable drum storage and unwinding system

BUNDESREPUBLIK DEUTSCHLAND

URKUNDE

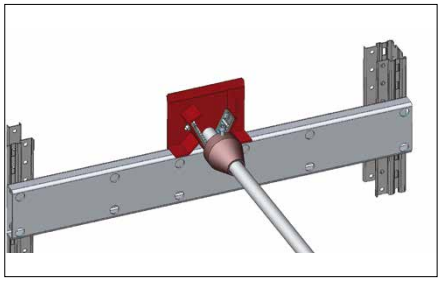
über die Erteilung des

Patents

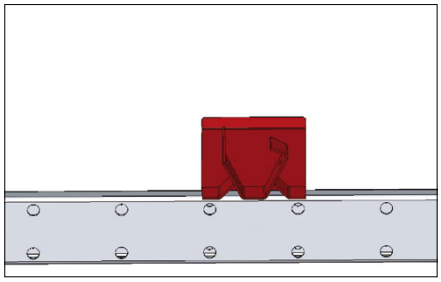
Nr. 43 30 500

Extract from the patent specification:
"Axle holder for the material drum with a bearing shell for the bearing of one end of the drum axle, whereby the bearing shell is lined with a material which has on the bearing surface facing to the axle an elevation which is subject to elastic deformation and the edges of which are rounded. Thus load controlled braking of the material drum during pay-off is achieved and unwanted coasting down of the material drum is avoided. Handling and safety are, moreover, considerably improved by an additional rollout saftey device, an inclined roll-in ramp and as dislodging safety device.
In case of ready-to-pay-off-storing of cable drums it must be made sure that the drums are accepted safely and cannot dislodge due to a rotary movement or due to unbalance during pay-off.

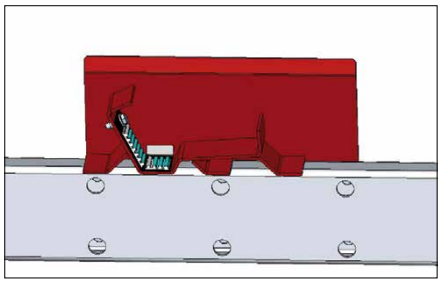
Cable drum storage and unwinding system



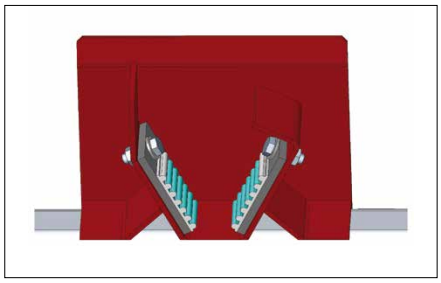
Axle holder with brake pad adjustable in 3 pos.



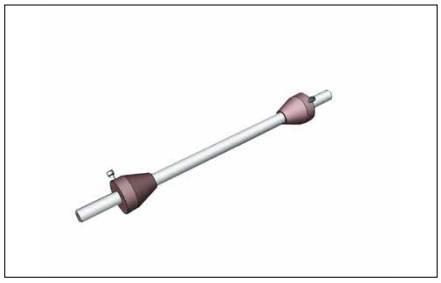
Axle holder without brake pad adjustable in 5 pos.



Axle jacket with brake pad and with a wider area for laying-up the axles
for mechanical unwinding – recommended from a height of 4000 mm



Axle jacket with brake pad



Drum axle with cylindric cones

Description	Part No.
Frame 2200 mm	85300073
Frame 2500 mm	85300074
Frame 2700 mm	85300075
Frame 3000 mm	85300076
Frame 3300 mm	85300077
Frame 3600 mm	85300078
Frame 3800 mm	85300079
Frame 4100 mm	85300080
Frame 4400 mm	85300081
Frame 4700 mm	85300082
Frame 5200 mm	85300083
Frame 5500 mm	85300084
Frame 5800 mm	85300085
Frame 6000 mm	85300086

Crossbar	Part No.
870 mm up to Ø 1000 mm	85300090
1170 mm up to Ø 1400 mm	85300091
1370 mm up to Ø 1600 mm	85300092
1570 mm up to Ø 2000 mm	85300093
Necessary crossbar	
Height 2200 - 3300 mm 1 frontside, 2 rear side	Load capacity per section 3000 kg
Height 3600 - 4100 mm 2 frontside, 2 rear side	Load capacity per section 3000 kg
Height 4400 - 5200 mm 2 frontside, 3 rear side	Load capacity per section 4000 kg
Height 5500 - 6000 mm 2 frontside, 4 rear side	Load capacity per section 5200 kg
Floor anchors (4 pcs. per frame)	85300097
Collision guard (2 pcs. per rack)	85300099

Pair of axle holder without brake	Part No.
LAGROL 1050-2000 kg without brake - 3 Pos.	85300100
LAGROL 1050-2000 kg without brake - 5 Pos.	85300105
Pair of axle holder without brake	85300104

Pair of axle holder with brake for automatic winding up we recommend:	Part No.
LAGROL 1050-2000 kg with brake - 3 Pos.	85300101
LAGROL 1050-2000 kg with brake - 5 Pos.	85300102
Brake pad for 1 axle holder for a quieter unwinding from the drum and a reduced follow-up movement	85300103

Drum axle with two centering cones		Part No.
Ø 34 - 840 mm lg	Load capacity 1000 kg	85008010
Ø 34 - 1140 mm lg	Load capacity 700 kg	85008020
Ø 60 - 1140 mm lg	Load capacity 1700 kg	85008030
Ø 60 - 1340 mm lg	Load capacity 2000 kg	85008040
Special axle diameters upon request		

Cable drum storage and unwinding system

This drum storage and pay-off rack is ideal for the use in a production line along with the motorized take-ups such as UMROL, MOTROL or AUTOCUT. The solid construction with special and patened axle and / or drum holders and the fact that take-up and storage system are well-suited to each other make this system ideal for the above mentioned range of application.

Example with drums in succession

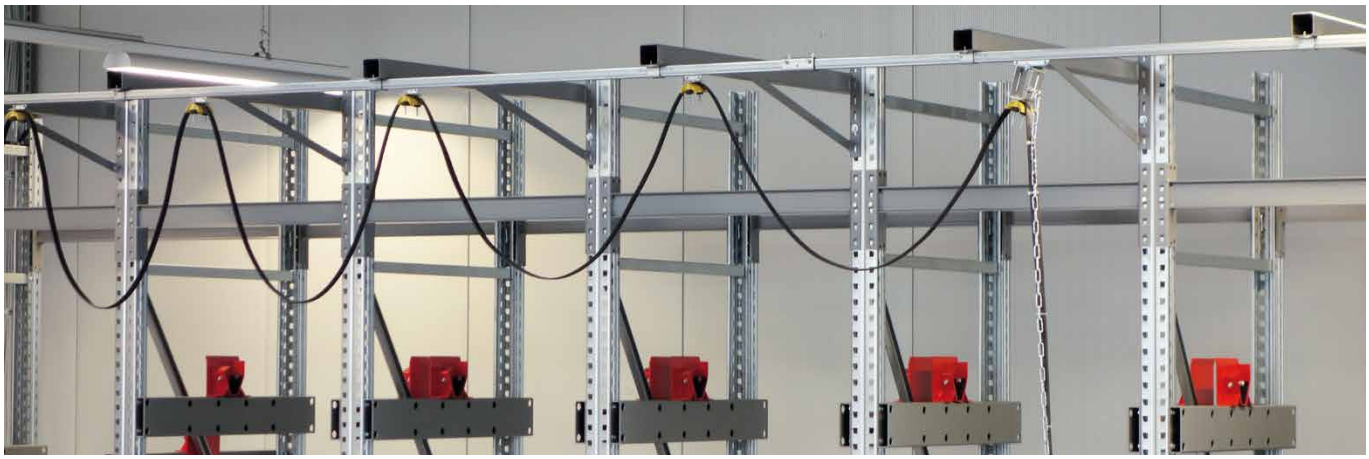
Each **LAGROL**® shelf section consists of two frames in a certain height, the required crossbars offering a certain sections loading capacity as well as of axles and axle holders. For each further shelf section only one further frame is required. All these single components may be combined.

The heavy-load drum bearing and the unwinding system **ABROL** are designed for feeding material to a Kabelmat winding and cutting machine. This system can be used as single feeding system as well as with additional attachable units.
The drum is carried by means of a consistent axle which is centerered by two cylindric cones. The holding fixtures for the axles are equipped with brake linings for a quieter unwinding from the drum and a reduced follow-up moverment.

Example: Heavy-load drum bearing and unwinding system combined with LAGROL

Technical details ABROL	
Drum-Ø	400 - 2200 mm
Drum weight	max. 5000 kg
Drum width	max. 1450 mm
Basic equipment H x W x T	3200 x 2320 x 2140 mm
Extension unit H x W x T	3200 x 2160 x 2140 mm

Cable drum storage and unwinding system



Cable trailing system for rack mounting

Basic equipment:

- U-profile rail with holder for rack mounting
- Cable trolley with clamping device for flat cables
- Buffer for cable carrier left / right
- Discharging terminal
- Stopper
- Terminal box for wall mounting to connect main supply
- Flat cable with plug to supply the machine with power

TROMPLAT Transport and loading accessory

This transport and loading accessory consists of two plat forms (extensions) which are put on the forks and fixed by means of clamping levers. By changing these accessories from the right to the left and vice versa they can either be used for small drums as well as for bigger ones.

TROMSTOP for safe transportation and to place into stock of the drum with pallet stacker

Pay-off and storing systems

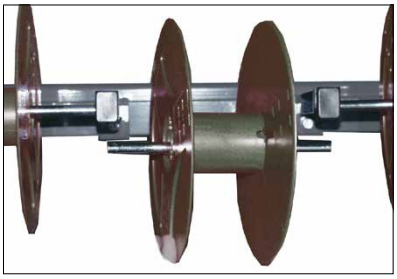


Fig. 2 SPULBOI 310-4-S

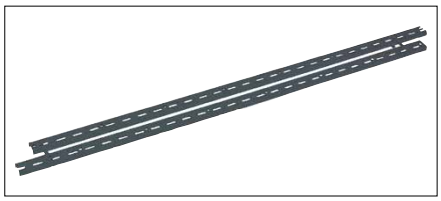
Fig. 3 SPULBOI 500-4-S with 4 single mounted axle, Part No. 86103080

Fig. 1 SPULBOI Example

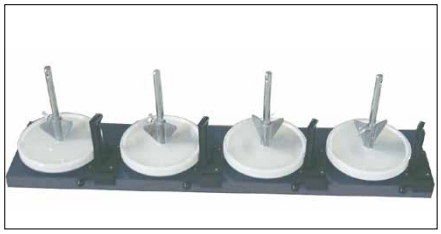
SPULBOI

The SPULBOI storing system is mainly used in work shops, shops or production area. It allows clearly ordered storing, twisting-free material payout from the spools and cutting-to-length according to demand. The special advantage of some of these racks is the individual storing of each spool which allows quick and comfortable exchange of the single spools. Due to the individual suspension each spool is slightly braked and the spool stopps immediately upon material payout in order to avoid uncontrolled reeling-off after dispensing. **Attention:** only suitable for manual unwinding!

Storage rack 450	**Part No.**	**85100152**
H x W x D		abt. 1510 x 1030 x 480 mm
Loading capacity		max. 200 kg
Colour		RAL 7005, mouse grey
Weight		abt. 17,65 kg
Attachement piece uprating about 300 mm	**Part No.**	**86181001**



Profile rail for wall mounting	**Part No.**	**85100201**
L x W x H		abt. 980 x 30 x 13 mm
Colour		RAL 7005, mouse grey
Weight		abt. 0,65 kg
For the suspension of unwinding units for rings and coils		



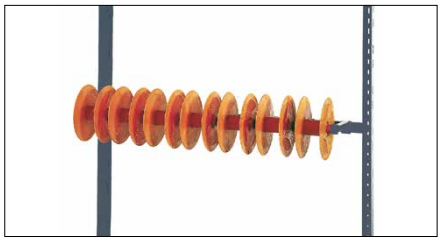
SPULBOI 200-4-S		**Part No.**	**86003004**
Plate-Ø	200 mm	Spool weight	max. 8 kg
Spool-Ø	190 mm	Colour shelf	RAL 7005, mouse grey
Core pin-Ø	16 x 200 mm	Colour Plate	RAL 7035, light grey
Centering piece for bore-Ø	25-80 mm		
With reel-off brake mounted on shelf and holding fixture for MESSBOI 10 H			

SPULBOI 300-3-S		**Part No.**	**86003011**
Plate-Ø	300 mm	Spool weight	max. 8 kg
Spool-Ø	290 mm	Colour shelf	RAL 7005, mouse grey
Core pin-Ø	16 x 200 mm	Colour plate	RAL 7035, light grey
Centering piece for bore-Ø	25-80 mm		
With reel-off brake mounted on shelf and holding fixture for MESSBOI 10 H			

Pay-off and storing systems

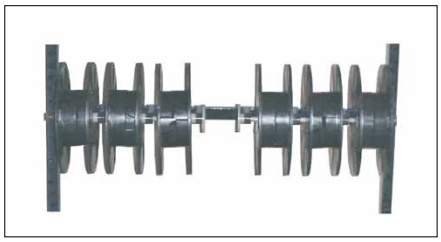
SPULBOI 450-2-S		Part No.	86003010
Plate-Ø	450 mm	Spool weight	max. 8 kg
Spool-Ø	440 mm	Colour shelf	RAL 7005, mouse grey
Core pin-Ø	16 x 200 mm	Colour Plate	RAL 7035, light grey
Centering piece for bore-Ø	25-80 mm		

With reel-off brake mounted on shelf and holding fixture for MESSBOI 10 H



SPULBOI 200-7-S		Part No.	85100539
Dispensing unit **for** 7 spools		Core-Ø	50 mm
Spool-Ø	200 x 80 mm	Spool loading capacity	max. 5 kg
Spool-Ø	150 x 80 mm	Colour	RAL 7005, mouse grey
Spool width	80 mm		

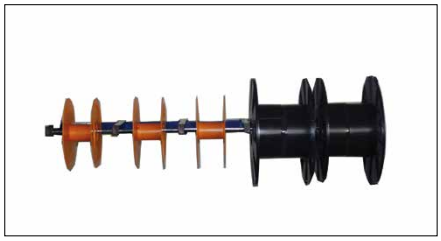
Hook dispension rail with patented axle-free coil holders. Coils (Part No. 85015850; 85015840) are suspended and removable individually.



SPULBOI 310-7-S		Part No.	85100407
Dispensing unit **loaded with** 7 spools		Spool width	75 mm
Spool-Ø	310 mm	Colour	RAL 7005, mouse grey
Core-Ø	150 mm		

Hook dispension rail with patented axle-free coil holders. Coils (Part No. 85100404) are suspended and removable individually.

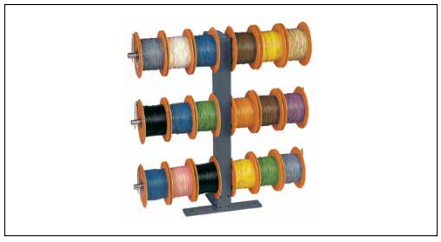
Empty spool	85015850	85015840	85100404	85100406
Spool-Ø	150 mm	200 mm	310 mm	310 mm
Core-Ø	50 mm	50 mm	150 mm	150 mm
Spool width	80 mm	75 mm	75 mm	150 mm
Bore-Ø	18,5 mm	18,5 mm	30 mm	30 mm
Spool loading capacitty	max. 4 kg	max. 5 kg	max. 5 kg	max. 5 kg
Colour	orange	black	black	black



SPULBOI 310-4-S	Part No. 86003080	SPULBOI 310-5-S	Part No. 86003081
with 4 individually stored axles			with 5 individually stored axles
Spool-Ø	max. 310 mm		max. 310 mm
Spool width	max. 215 mm		max. 167 mm
Axle-Ø	10 mm		10 mm
Colour	RAL 7005 mouse grey		RAL 7005 mouse grey

MESSBOI 10 LS	Part No.	85100441
Winding material-Ø		1-15 mm
Calibration		1-10 mm
Counter		9999,99 m with reset key
Measuring accuracy		+/- 2 %
Measuring force		constant due to spring pressure
Crossbar channel	**Part No.**	**85100552**

Equipped with 30 reverse-lock wire guides. The channel includes horizontal extention slides and can be mounted to rack or wall for centralized material dispensing. For spools up to ø of 310 mm.



SPULBOI 200		Part No.	85001620
for max.18 spools Ø 200 and 80 mm with		Colour	RAL 7005, mouse grey
Axle-Ø	18 mm	L x W x H	abt. 620x165x620 mm
Dead weight	abt. 5,5 kg		
Material	Stahl		
Useable axle length	6 x 260 mm		

Coil storage device

Fig. 1 SPULROLLY Example for arrangement with 9 split pair coils

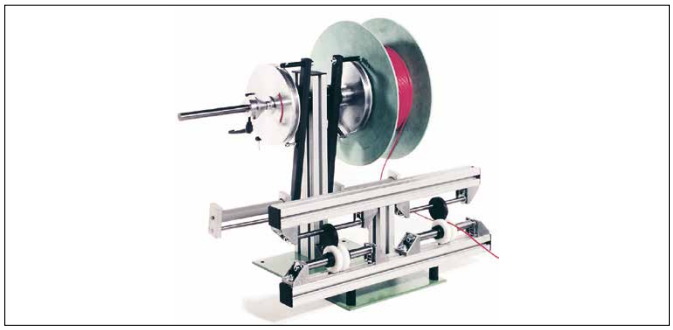


Fig. 2 SPULROLLY Basic unit

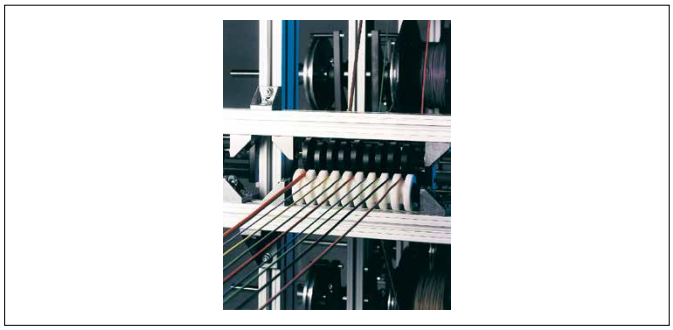


Fig. 3 SPULROLLY rewind stop

SPULROLLY

Dispensing frame made of aluminium profiles which accepts different spools. Brake unit consisting of brake disk with adjustable pendulum for opening and closing the rope brake. Tension force of the pendulum is adjustable at the tension spring. The winding axle is made of hardened steel shaft. Through-feed cage with rewind stop.

SPULROLLY	
No. of spool units	selectable, pairs of coils are always arranged at the basic frame opposite to one another
Spool-Ø	max. 450 mm
Spool width for bore Ø 25	max. 200 mm
Spool width for bore Ø 65	max. 280 mm
Arrangement of the spools	upon request

Advantages
Central cable pay-out
Stationary winder resp. cutting unit
Low drum coast down due to adjustable brake
Space-saving
No displacement of winder or cutting unit necessary

Drum storage device

Fig. 1 TROMBULLY with central point of removal and return stop

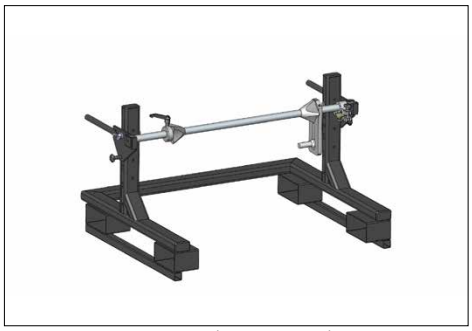


Fig. 2 TROMTRAK 1000 drum storage device

TROMBULLY

The multifunctional TROMBULLY-system is suitable for mechanical pay-off in connection with a motor driven rewind or cutting-to-length machine. It is the ideal system for the manufacturing of cable sets, cable forms or cable looms in the machine construction and pre-assembly area.

This system consists of a frame unit, the size of which can be extended individually. In this frame unit the drum storage devices are installed and fixed by means of a lifting device (not included in the scope of supply). The drum storage devices TROMTRAK 1000 are equipped with the drum on the floor. The drums are slid on the axles and fixed by means of a cone and a clamping screw. An adjustable shoe-type brake avoids the follow-up movement of the drum.
Once the drum storage device TROMTRAK 1000 is mounted in the frame unit, the material to be coiled is passed through the guides and at the outfeed, is pushed through the outfeed rake which serves as guide and additional return stop.
The central cable guiding at the end of the frame unit allows the individual removal of the cables and lines concerned.
It is also possible to remove several cables and lines at the same time.

TROMBULLY	
No. of drum pay-outs selectable	
Drum-Ø	max. 1000 mm
Drum width	max. 710 mm
Drum width per pay out	max. 500 kg
Arrangement of the spool units	max. 4 pcs. on top of one another / max. 15 pcs. behind each other
Cable-Ø	max. 20 mm

Advantages
Central cable pay-out
Low drum coast down due to adjustable brake
Space-saving
No displacement of winder or cutting unit necessary
Coil storage device TROMTRAK also usable as single devices
Double-sided equipment possible

Get to know the complete Kabelmat product world

Due to the big variety of products, this catalogue is only an excerpt of the kabelmat product range and does not contain all products.
Take advantage of the chance to find more information in our data sheets and brochures as pdf word file about our range of heavy-duty machines and lines as well as the many relevant accessories. You will find our detailed data sheets for all "kabelmat" products on our web page **www.kabelmat.de** in the "download center" or simply write us an e-mail to kabelmat@kabelmat.com and we will gladly send you the requested documents by e-mail.

When you are interested in our **large cable cutting lines** such as

- drum winders for drum sizes of up to 3.000 mm Ø and weights of up to 10.000 kg
- Fully automatic ring winders and tying machines
- Partial automation of cable cutting and much more

or in our big variety of accessories and components, then please call us on 07443 9670-0 and we will send you the requested product information by e-mail.

Fig. 1 RINGROL 560 E

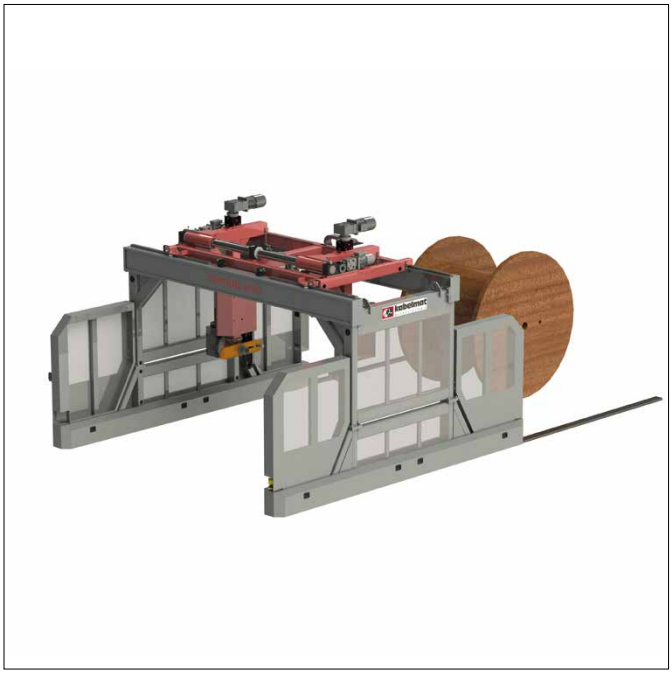


Fig. 2 PORTROL 2600

Fig. 3 RINGROL 300 – line

Fig.4 PORTROL TELE

AUTOLOG

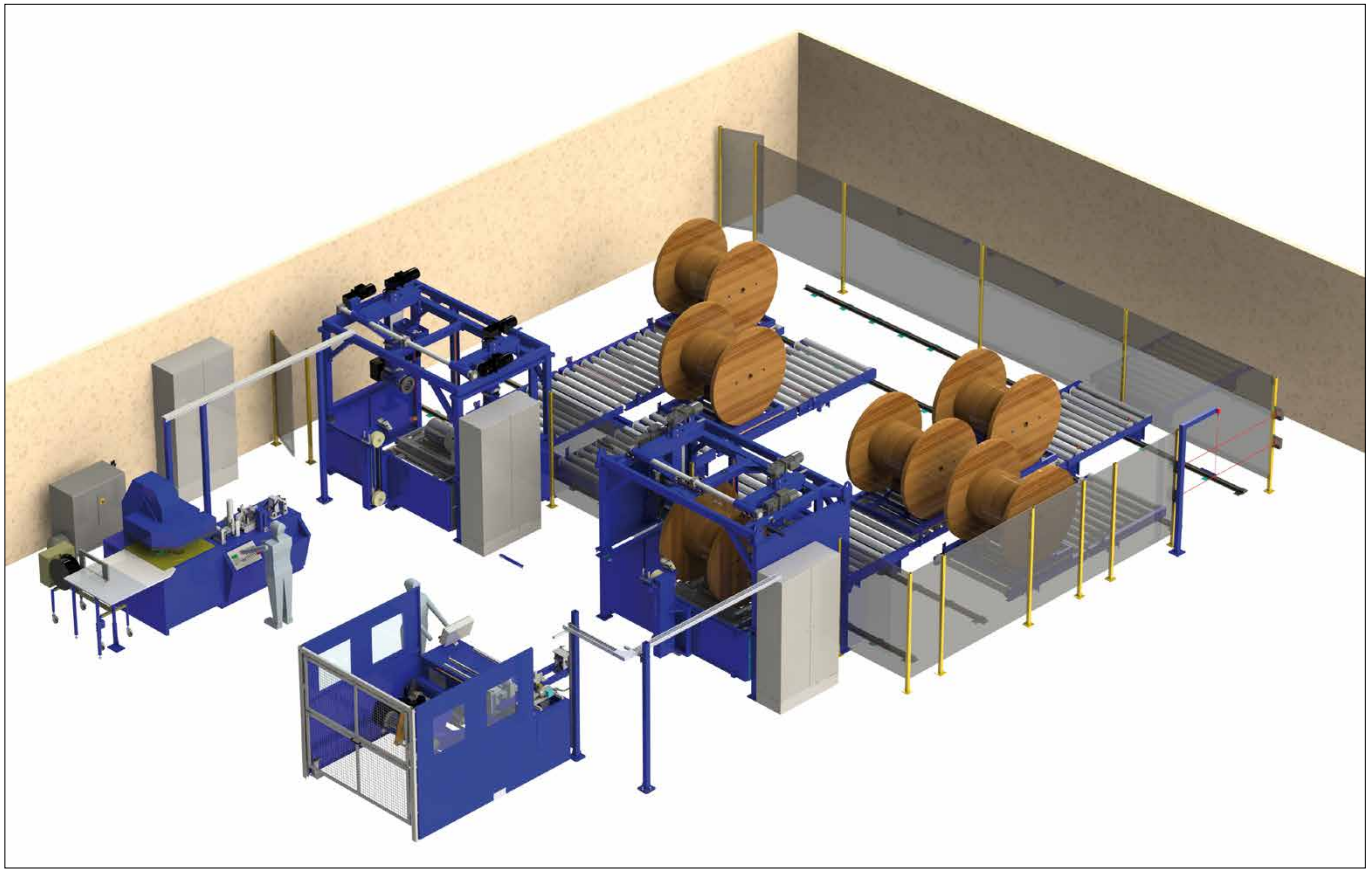


Fig. 1 AUTOLOG

Fig. 2 System 1 – machine to drum

Fig. 3 System 2 – drum to machine

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.
These cables and lines are usually required in individual types and lengths at short notice. In order to achieve this we require suitable cutting and winding machines and a functioning cable warehouse.

There are two different systems from kabelmat
System 1: Machine to Drum
System 2: Drum to Machine

Please find further information about this system in our catalogue "AUTOLOG" for download on our web page www.kabelmat.de

WRAPPING MACHINES FOR THE HEAVY DUTY RANGE

PORTROL / UMROL

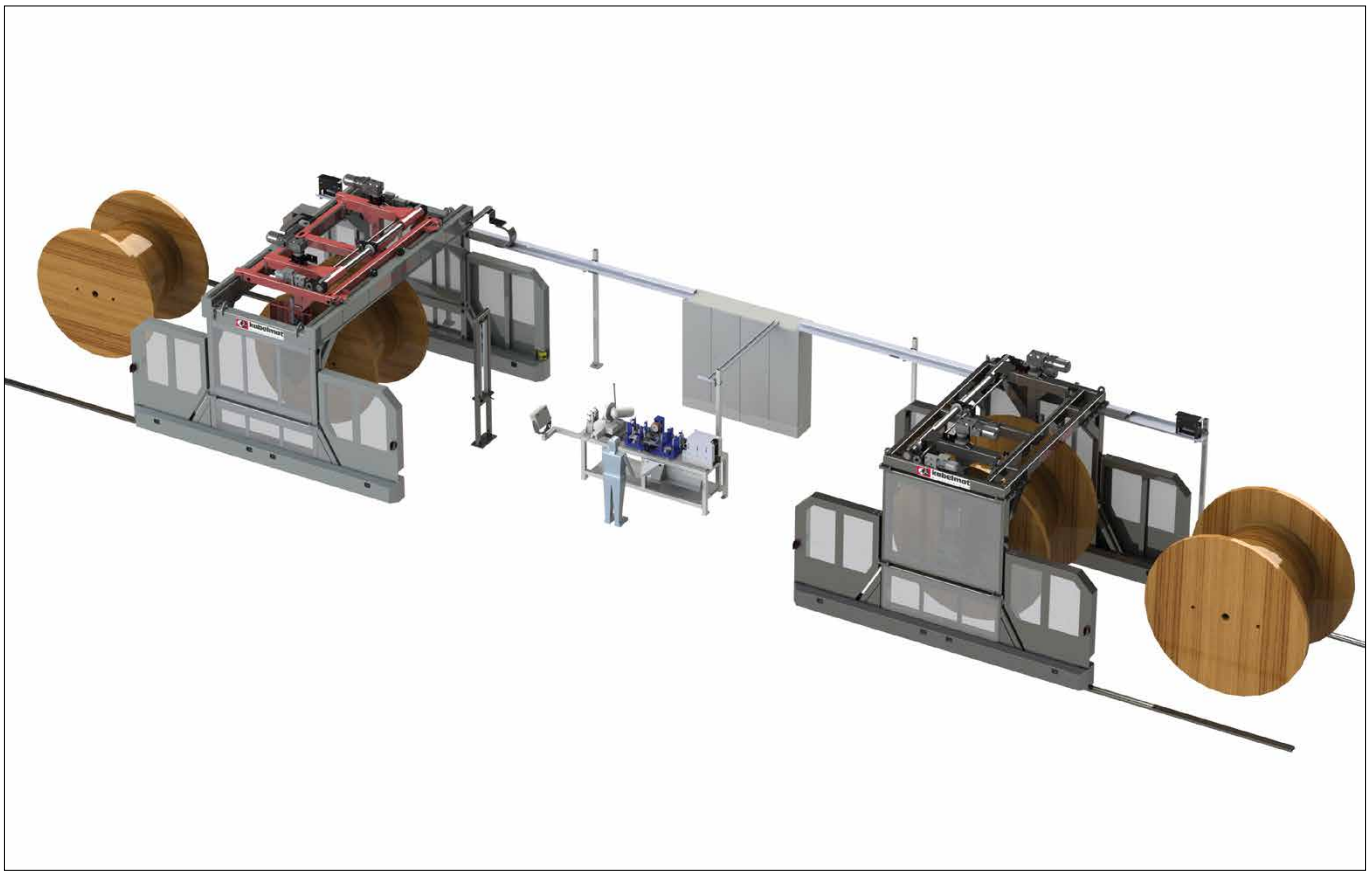


Fig. 1 PORTROL 3000 TELE-ABW / PORTROL 2600 TELE-AUF

Wrapping machines for the heavy duty range are used for the cutting and wrapping of cables for high energy transfer as well as for data transfer in the copper and glass fibre field. This requires cable drums of a large diameter due to the maximum admissible bending radii 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
Cable diameters	up to 100 mm

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

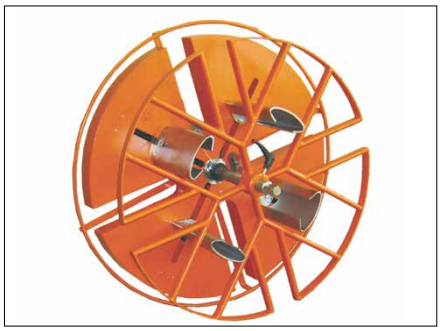
In addition, these machines are driven by powerful servomotors and are equipped with digital servo-converters with Profinet interface. The complete line is speed-controlled. The unwinder is also equipped with a motorised drive for the winding operation with instantaneous control.

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 cable cutter is also available.

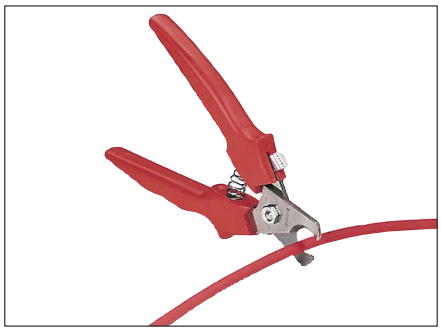
Please find further information about this system in our catalogue “Wrapping machines for the heavy duty range” for download on our web page: www.kabelmat.de

ACCESSORIES

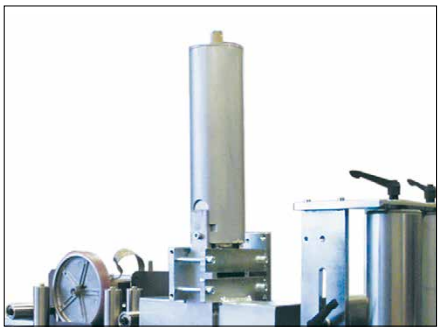
Perfect supplements for machinery



RAPID
Coiler Heads/Coiling Winches



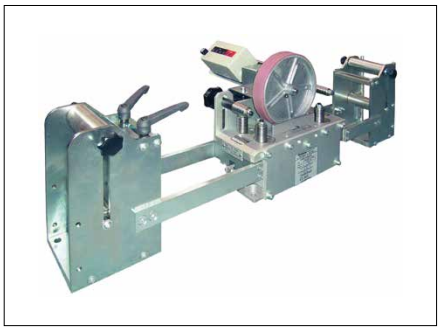
MATIS M
Cutting devices, manual



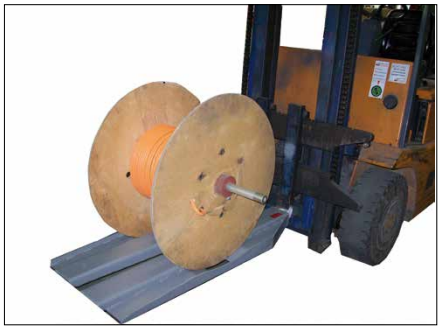
MATIS H/P
Cutting devices – hydraulic, pneumatic, motor-driven

AUTOBIND
Automatic binding machine

SIGNOMAT
Printing machinery

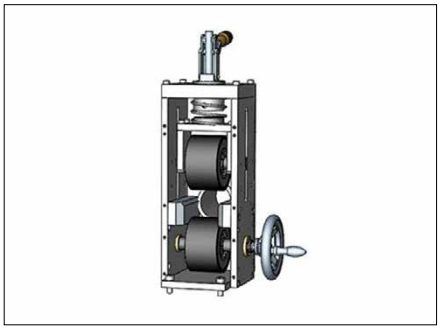


Roller Cage
Inlet and Outlet roller cage



TROMPLAT
Transport and loading accessory

DRIVE DEVICE
For motor drive traversing of the machine on rails



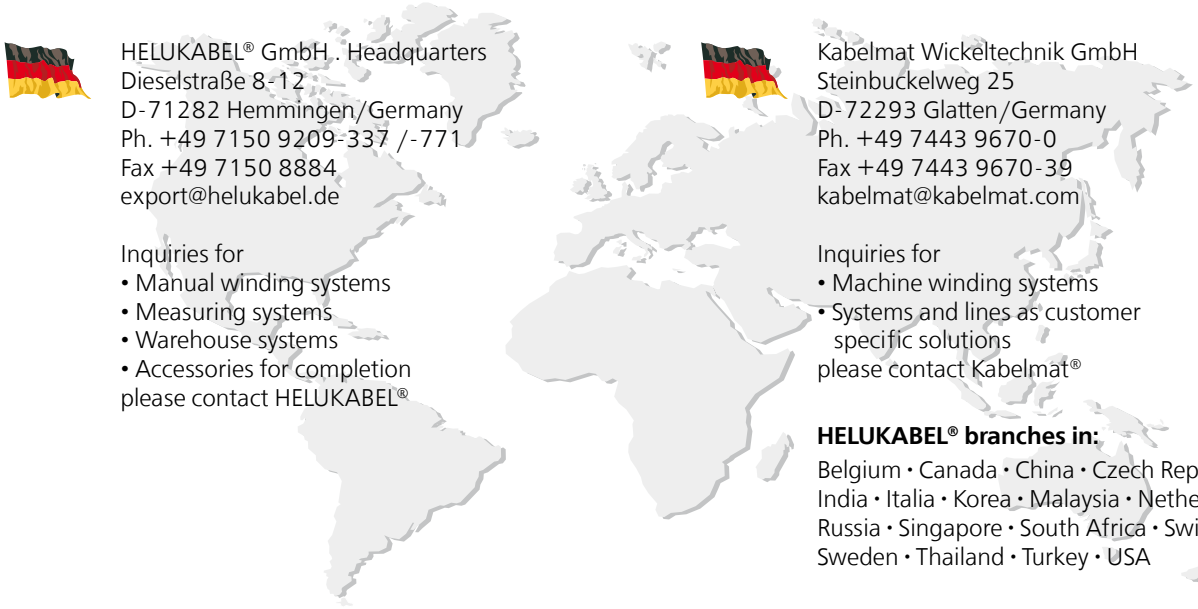
ROLLERFEED
Feed and further transport of the material to be coiled

CABLE TRAILING SYSTEM
With flat cable for rack or ceiling mount

ADDITIONAL DEVICES
For drums and rings

Please find further information about our accessories on our web page: www.kabelmat.de

Worldwide at your service



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- Manual winding systems
- Measuring systems
- Warehouse systems
- Accessories for completion

please contact HELUKABEL®

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Inquiries for
- Machine winding systems
- Systems and lines as customer specific solutions

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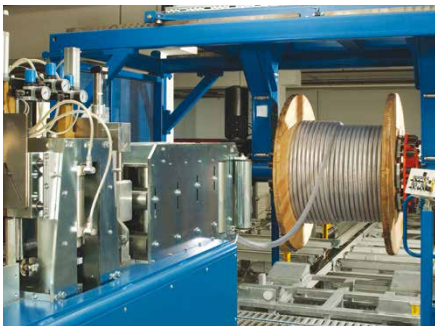
Leading manufacturer and supplier of cables, wires and cable accessories



Cables & Wires made in Germany

Since 1988, HELUKABEL® has been producing more than 340.000 km of wire annually in its own factory in Windsbach, to a high standard. More than 150 highly qualified employees are specialised in manufacturing a large variety of high-specification cables. The cable factory is regarded as a centre of excellence in the business areas of automation, data technology, building systems technology and renewable energies.

We manufacture cables and wires from a wide range of materials in more than 10.000 m^2 of production space and meet every possible expectation on modern cable production. HELUKABEL® offers its customers products to practically every standard and regulation. Our range is rounded out by special cables produced to customer requirements.

High-tech Logistics Centre

HELUKABEL® has one of Europe's largest automated cable and wire distribution centres. The majority of our 33.000 products are warehoused in the state-of-the-art Hemmingen facility, near Stuttgart. Using the latest conveyor and control technology, the extensively automated distribution centre compiles thousands of "just-in-time" orders daily from over 40.000 pallet storage spaces by 18 rack feeders. The small-piece warehouse is also fully automated, further increasing our ability to fulfill orders for our customers around the world as quickly as possible.

Research & Development

We offer optimal, customized solutions for our customers. The focus is on flexible cables for diverse applications. We develop cables that are exceptionally durable and per-form under conditions such as extreme chemical, electrical and mechanical stress combined with small bending radii and a high number of bending cycles.

All information in our prospectuses and catalogues as well as on the Internet is based on the current state of our knowledge of the described products.

The electronic data and files provided, especially CAD files, are based on the current state of our knowledge of the described products.

No legally binding assurance of specific properties or suitability for a specific application can be derived from this information.

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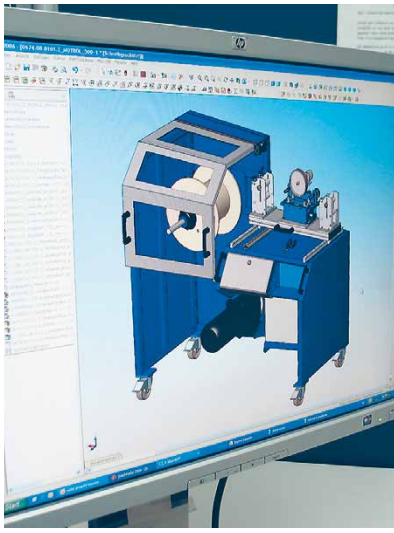


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