

AUTOCUT 40

Length cutting machine

Easy operation -
Exact cutting



Fig. 1 AUTOCUT 40 with closed protection cover

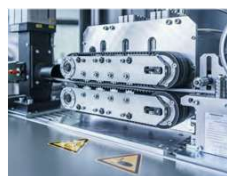


Fig. 2 Installation with a calibratable length measuring device, belt feed and pneumatic cable cutter



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



Fig. 4 AUTOCUT 40 with open protective cover



Fig. 5 Pot winder with adjustable drive motor

AUTOCUT 40

- Cutting machine for cables, pipes, hoses and more

Functionality:

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

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

AUTOCUT 40

Length cutting machine

Basic equipment:

- Basic machine constructed as self-supported, torsionally resistant weldment with two lockable and two fixed steering rollers or four lockable steering rollers
- Speed control is continuously adjustable, allowing a smooth starting
- The control cabinet is installed in the machine frame
- The control panel with emergency stop button is ergonomically integrated in the base frame
- Protection cover with window to be hinged upwards (required for CE)
- CE conformity declaration according to machinery directive 2006/42/EG
- **Roller cage** before the length measuring unit, easily adjustable to match the material
- **Length measuring device MESSBOI 40 LC / LC-MID** with preselection counter
 - Error limit (with in- and outlet roller cages) + / - 0,5 %
 - Pre-selection counter with disconnecting contact of the drive

Recommended equipment:

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

Further auxiliary equipment on request

RINGROL 600

Semi-automatic coil winder

Coil winding made easy



Fig. 1 RINGROL 600 with open cover and binding device

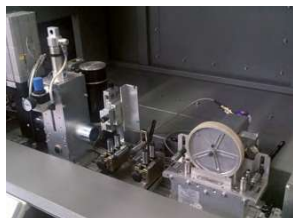


Fig. 2 Example traversing unit



Fig. 3 Winding unit



Fig. 4 Cable fixing clamp for winding plate

RINGROL 600

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

Functionality:

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

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



RINGROL 600

Semi-automatic coil winder

Basic equipment:

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

Recommended equipment:

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

Optional:

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



Fig. 5 Binding unit

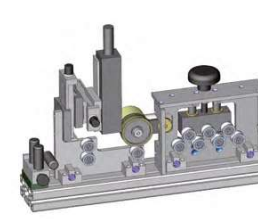


Fig. 6 Guiding unit for the printing head

Recommended delivery systems:

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

Further auxiliary equipment on request

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



RINGROL 800

Semi-automatic coil winder

Coil winding made easy



Fig 1 RINGROL 800



Fig 2 Example traversing unit



Fig 3 Winding unit



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

RINGROL 800

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

Functionality:

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

Technical data	RINGROL 800
Part No.	3853.000
Winding material-Ø (depending on material)	max. 30 mm
Winding plate-Ø	800 mm
Core-Ø	300 - 550 mm infinitely variable
Winding height	50 - 200 mm infinitely variable
Operating height	1075 mm (+/- 25 mm)
Coil weight	max. 70 kg
Rotation speed	0 - 250 min ⁻¹ (3 kW) continuously adjustable
Line speed	max. 250 m / min
Electrical connection (CEE-connector plug)	230 / 400 V - 50 Hz
L x W x H	2700 x 1700 x 2100 mm
Weight (without accessories)	approx. 800 kg



RINGROL 800

Semi-automatic coil winder

Basic equipment:

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

Recommended equipment:

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

Optional:

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

Further auxiliary equipment on request

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



RINGROL 1200

Fully automatic coil winder

High outputs,
Short changeover times -
Fully automated coil winding



Fig. 1 RINGROL 1200 with safety fence and roller guide

RINGROL 1200

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

Functionality:

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

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

RINGROL 1200

Fully automatic coil winder



Fig. 2 Functional principle



Fig. 3 Finished product

Basic equipment:



Fig. 4 Traversing unit

Operator panel

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

Traversing unit

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



Fig. 5 Coil winding station

Coil winding station

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

Coil gripper system

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



Fig. 6 Coil gripper system

Coil ejector

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



Fig. 7 Coil ejector

Strapping station for PP straps

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



Fig. 9 Strapping station for PP straps

Further modules:



Fig. 8 Wrapping station for stretch straps

Wrapping station for stretch straps (as an alternative to wrapping with PP straps)

- For the partial or complete wrapping of the bundle of coils trough the lug

Holding-down device for the wrapping station

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

SPULFIX 480

Coil and spool unwinding machine

Perfect complement
to processing machines



Fig. 1 SPULFIX 480 with open cover

SPULFIX 480

- Coil and spool unwinding machine

Functionality:

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

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

SPULFIX 480

Coil and spool unwinding machine

Basic equipment:

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

Additional equipment:

- SPULFIX 480 horizontal unwinding plate for spools

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

- RINGFIX 480 horizontal unwinding plate for coils

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



Fig. 2 SPULFIX 480 unwinding plate



Fig. 3 RINGFIX 480 unwinding plate



Fig. 4 SPULFIX 480 with closed cover

SIGNOMAT

Sinter machine



Fig. 1 SIGNOMAT view 1

Permanent label print
on cables and wires

SIGNOMAT

- Sinter machine for cables and wires

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

Functionality:

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

Unique process:

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

SIGNOMAT

Sinter machine



Fig. 2 SIGNOMAT view 2



Fig. 3 SIGNOMAT centering device

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

SPULROLLY

Spool storage and unwinding device

Spool storage device with central material outlet



Fig. 1 SPULROLLY example for arrangement with split pair coils

SPULROLLY

- Multifunctional spool storage and unwinding device

Functionality:

Spool storage and unwinding device 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.

- Central sampling point for all cables
- Adjustable break mechanism to avoid an uncontrolled material flow
- Space-saving solution
- Double-sided component assembly possible

Technical data	SPULROLLY
Part No.	1749.000
Amount of spool units	selectable, pairs of spools are always arranged at the basic opposite
Spool Ø	max. 450 mm
Spool width for bore Ø 25	max. 200 mm
Spool width for bore Ø 65	max. 280 mm
Spool weight	max. 20 kg
Arrangement of the spools	on request

Indoor use only. Fig. may differ from original.
Technical modifications reserved. Status 01/2020



Fig. 2 SPULROLLY single unit



Fig. 3 SPULROLLY return stop



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Technical modifications reserved.

TROMBULLY

Drum storage and unwinding device

Drum storage device with central material outlet



Fig. 1 TROMTRAK 1000 drum storage device



Fig. 2 TROMBULLY with central point of removal and return stop

TROMBULLY

- Multifunctional drum storage and unwinding device

Functionality:

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 axes 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.

- Central sampling point for all cables
- Adjustable break mechanism to avoid an uncontrolled material flow
- Space-saving solution
- TROMTRAK drum storage devices also usable as single devices
- Double-sided component assembly possible



Fig. 3 TROMTRAK 1000 drum storage device in use

Technical data	TROMBULLY
Part No.	1075.000
Amount of drum units	selectable
Drum Ø	max. 1000 mm
Drum width	max. 710 mm
Drum weight per unit	max. 500 kg
Arrangement of the drum units	max. 4 pcs. one upon the other / max. 15 pcs. behind each other
Material Ø	max. 20 mm

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