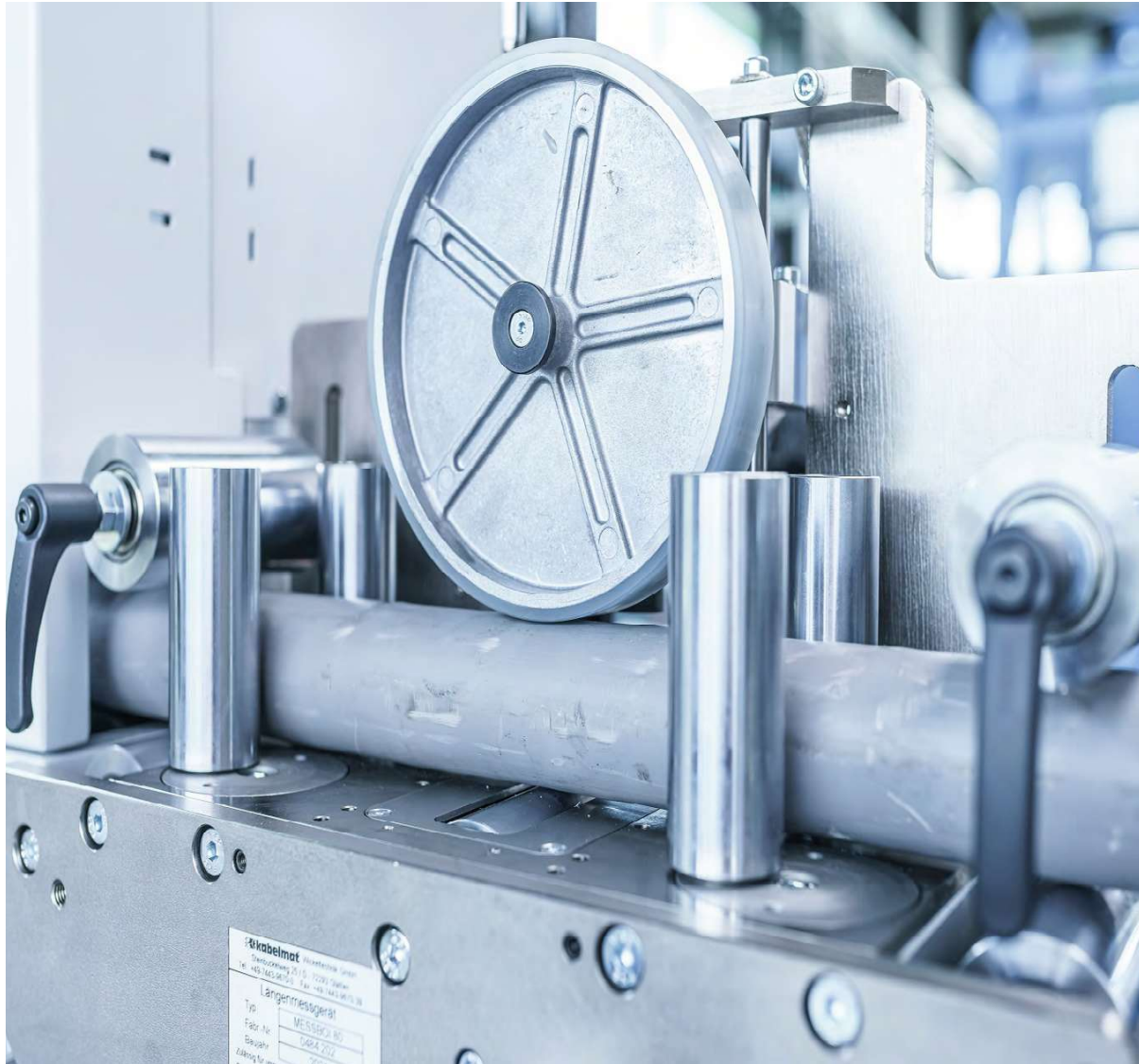


LENGTH MEASURING SYSTEMS



PRODUCTS

• Conformity assessment	92
• MESSBOI 10	94
• MESSBOI 25	96
• MESSBOI 40 B LC / LC-MID	97
• MESSBOI 40 BAE	98
• MESSBOI 40 LC / LC-MID	100
• MESSBOI 80 LC / LC-MID	103
• MESSBOI 100 LC / LC-MID	104
• MESSBOI 100 LASER	105

Conformity assessment for length measuring devices

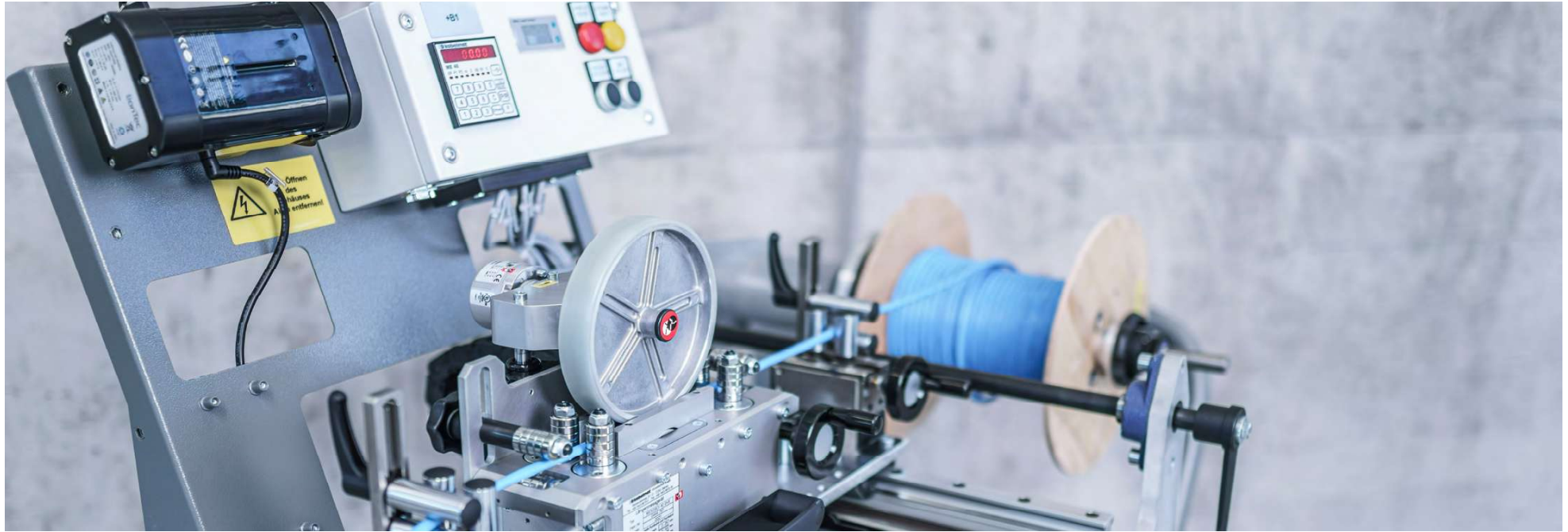


Fig. 1 MESSROL 500 with MESSBOI 40 LC-MID

Conformity assessment We answer frequently asked questions

First conformity assessment - then calibration

The calibration regulation was previously regulated nationally. A conformity-assessed (MID compliant) length measuring system can now be used in all member states of the EEA. Companies that would like to sell the cables to third parties on the market may only use length measuring devices that correspond to the requirements of the new measuring device directive in future.

What has actually changed?

In addition to correct measurement of lengths, the requirements for logging, transparency and traceability of the measurements have been significantly increased. In the case of length measuring devices, the legislator wants to achieve in the long term that customers can be presented with a recorded measurement result upon request. This is only possible with an electronic counter with integrated measured value memory.

The core requirement is a permanent and tamper-proof storage of all measurements. All length cutting data must be archived, such as time, date, cut length, counter and measurement ID number. Furthermore, these data must be verifiably documented on the business documents for the buyer. For this, Kabelmat offers a label printer. This provides both the buyer and seller with 100% transparency and traceability, also with individually pre-cut products. New machines from Kabelmat satisfy the requirements of this directive.

What about length measuring devices with mechanical counter?

Kabelmat length measuring devices with mechanical counters can also be conformity assessed according to module F1, but are then only approved for direct sale (e. g. retail). There is an unlimited calibration period for these devices.

Conformity assessment for length measuring devices

How long does the validity of conformity assessment (calibration period) last?

Electronic length measuring systems with a declaration of conformity are regarded as calibrated until the respective nationally regulated calibration period expires. For Germany, the calibration period for machines on the market is two years. Calibration (previously re-calibration) is then the responsibility of the measuring system owner. The regional weights and measures office of the owner is then responsible for calibration. Irrespective of the above, the calibration period ends when the error limit is exceeded or the seals have been prematurely damaged. Other countries may have deviating regulations. These can be found in the applicable national directives.

Conformity assessment module F

Conformity assessment according to module F (according to the European Measuring Instruments Directive 2014/32/EU) of the Kabelmat length measuring devices with additional inlet and outlet roller cages by the German calibration authority. Valid for two years in the EEA. The assessment is carried out at the Kabelmat manufacturing plant. Re-assessment after two years is required, but is not included in the scope of delivery. The authority for this is the regional weights and measures office. Note: Conformity assessment according to module F is required if the customer is not present when the goods (cables ect.) are cut. Required: Storage of the cutting data and documentation of the cutting data on the business records.

Conformity assessment module F1

Conformity assessment according to module F1 (according to the European Measuring Instruments Directive 2014/32/EU) of the Kabelmat length measuring devices with additional inlet and outlet roller cages by the German calibration authority. Valid for an unlimited period in the EEA. The assessment is carried out at the Kabelmat manufacturing plant. Re-assessment after two years is not required, but maintenance by Kabelmat is recommended. Note: Conformity assessment according to module F1 is only permitted if the customer is present when the goods (cables ect.) are cut. Not required: Storage of the cutting data and documentation of the cutting data on the business records.

When is a conformity assessment not required?

Conformity assessment is required when companies place unprocessed cables on the market. A conformity assessment is not required if the cable is further processed, e.g. a connector is attached.

MESSBOI 10

Length measuring device with mechanical counter

Compact length measuring device
for small material diameters



Fig. 1 MESSBOI 10

MESSBOI 10

- Mechanical length measuring device for winding material-Ø max. 15 mm

Functionality:

This length measuring device is suitable for length measuring of winding goods like cables and wires. The device is available in different versions according to the application.

- Avoiding material loss
- Compact design
- High measuring accuracy
- Simple construction and handling
- Adding mechanical counter with reset button

Length measuring device

Technical data	MESSBOI 10
Part No.	85100471
Measuring range	1 - 15 mm
Measuring force	Spring pressure
Error limit	+ / - 2 %
Display of counter	9999,99 m
L x W x H	approx. 160 x 110 x 90 mm
Housing	Polystyrene
Colour	black / white
Weight	approx. 0,5 kg
With mounting bracket	-



Fig. 2 MESSBOI 10

MESSBOI 10

Length measuring device with mechanical counter

Length measuring device with mounting bracket

Technical data	MESSBOI 10 B
Part No.	85100543
Measuring range	1 - 15 mm
Measuring force	Spring pressure
Error limit	+ / - 2 %
Display of counter	9999,99 m
L x W x H	approx. 260 x 110 x 140 mm
Housing	Polystyrene
Colour	black / white
Weight	approx. 0,7 kg
With mounting bracket	✓



Fig. 3 MESSBOI 10 with mounting bracket

Length measuring device with hand grip

Technical data	MESSBOI 10 HT
Part No.	85100442
Measuring range	1 - 15 mm
Measuring force	Spring pressure
Error limit	+ / - 2 %
Display of counter	9999,99 m
L x W x H	approx. 250 x 110 x 250 mm
Housing	Polystyrene
Colour	black / white
Weight	approx. 1,0 kg



Fig. 4 MESSBOI 10 HT with hand grip

Length measuring device for flat material

Technical data	MESSBOI 10 FLA
Part No.	85100443
Measuring range W x H	100 x 15 mm
Measuring force	Spring pressure
Error limit	+ / - 2 %
Display of counter	9999,99 m
L x W x H	approx. 160 x 210 x 90 mm
Housing	Polystyrene
Colour	black / white
Weight	approx. 0,75 kg



Fig. 5 MESSBOI 10 FLA for flat material

MESSBOI 25

Length measuring device with mechanical counter

Mobile as a hand-held device or stationary use



Fig. 1 MESSBOI 25 with socket and hand grip



Fig. 2 MESSBOI 25 with roller cage unit



Fig. 3 MESSBOI 25 with hand grip

MESSBOI 25

- Mechanical length measuring device for winding material-Ø max. 25 mm

Functionality:

The length measuring device is suitable for measuring the length of almost all types of cables and similar winding goods. The device can be used both as a hand-held device and as a stationary device. For portable use the screws have to be loosened by the socket and the length measuring device can be removed from the socket. Counter wheel detent and a clamp which can be opened to the side enables a convenient insertion of winding goods.

- Counter with reset button
- Continuously adjustable cable guiding
- Aluminium measuring wheel with vulcanized PUR coating
- Socket in the scope of delivery contained
- Non-slip hand grip
- Available with separately roller cage unit

Technical Data	MESSBOI 25	MESSBOI 25 conformity assessed*
Part No.	85101000	86101000
Measuring range	2 - 25 mm	2 - 15 mm
Error limit	+ / - 0,5 %	+ / - 0,5 %
Display of counter	9999,99 m	9999,99 m
L x W x H	approx. 120 x 160 x 350 mm	approx. 120 x 160 x 350 mm
Colour	aluminum / silver	aluminum / silver
Colour socket	RAL 7005 mouse grey	RAL 7005 mouse grey
Weight without socket	approx. 1,4 kg	approx. 1,4 kg
Weight socket	approx. 0,7 kg	approx. 0,7 kg

Equipment	Inlet and outlet roller cage unit
Part No.	85101001
Roller cage unit for better guidance of the winding goods. Required for MESSBOI 25 conformity assessed.	

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

MESSBOI 40 B LC / LC-MID

Length measuring device with digital counter

Length measuring for various winding material

MESSBOI 40 B LC / LC-MID

- Digital belt length measuring device for winding material-Ø max. 40 mm

Functionality:

This length measuring device is used for round and flat material such as cables, pipes, hoses, ropes of all kind. It is perfectly suited for high measurement precision and low measurement tolerances. The chassis consists of a stainless steel casing in which above all the sensitive components are well protected against outer influences. The scanning of the material to be measured is ensured by two measuring tape units running against each other. The top tape unit is liftable by means of a knee lever and due to its coordinated own weight adapts itself to the thickness of the material to be measured. For registration the length, the bottom measuring unit is provided with a rotary pulse encoder.



Fig. 1 MESSBOI 40 B LC with tripod stand

Technical data	MESSBOI 40 B LC / LC-MID
Part No.	0405.000
Round cable-Ø with MID / conformity assessment	1 - 40 mm
Tube-Ø with MID / conformity assessment	2 - 40 mm
Steel cable-Ø with MID / conformity assessment	2 - 15 mm
Thickness range flat cable with MID / conformity assessment	1 - 15 mm
Width range flat cable with MID / conformity assessment	10 - 40 mm
Speed conformity assessed	max. 250 m / min
Circumference of measuring wheel	0,5 m
Rotary pulse encoder	500 Imp / per turn 24 VDC
Error limit regarding accuracy class III with roller cages	+ / - 0,5 %
Display of counter	99999,999 m
L x W x H (without roller cages)	approx. 500 x 300 x 500 mm

Basic equipment:

- One set of inlet and outlet rollers with adjustable width
- Measuring tape with manual column-type measuring wheel adjustment
- Flange for a second rotary pulse encoder, provided for in the stainless steel casing
- Preselection counter and rotary pulse encoder integrated in the stainless steel casing
- A preselection counter LC MID with two potential-free electric contacts for controlling the fast motion / inching function of an adjustable winding drive. The counter is equipped with a plastic foil keyboard for inputting the data.
- Supervision of the calibrating speed with a luminous indicator

Supplementary equipment:

- Tripod stand for floor mounting (Height adjustable 1320 - 1620 mm) or stand for table mounting
- Holding arm with inlet and outlet roller cage
- Manual height locking device of the measuring wheel
- Conformity assessment / MID (formerly first calibration) of the length measuring device according module F with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery
 - Automatic storage of the cutting data
 - Label printer with interface to the preselection counter
 - Holder for label printer



Abb. 2 MESSBOI 40 B LC

MESSBOI 40 BAE

Length measuring device with mechanical counter

Mechanical length measuring device with modular design

MESSBOI 40 BAE

- Mechanical length measuring device for winding material-Ø max. 40 mm

Functionality:

Length measuring device for winding goods up to an outer diameter of 40 mm with mechanical counter. Depending on the application we offer various versions to customer specification. These measuring devices consist of a solid base frame with guide rollers to which the measuring device is mounted. Measuring scanning by means of measuring wheel. If requested, also available with stainless steel-counter roller for the measuring of steel ropes.

Basic equipment:

- One set of inlet and outlet rollers of adjustable height and centrally adjustable width
- Adding mechanical counter with reset button

Supplementary equipment:

- **Alu profile** with mounting plates for measuring device, roller cages, lever shear and housing for counter
- **Inlet and outlet roller cages**
- **Conformity assessment / MID (formerly first calibration)** of the length measuring device according module F1 with additional inlet and outlet roller cages is approved by German calibration authority for a period of two years from date of delivery, valid for all EEA member states. Conformity assessment has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery. **Only approved for useage in direct sales!**

Basic device MESSBOI 40 BAE

Technical data	MESSBOI 40 BAE*
Part No.	85100003
Measuring range (with conformity assessment)	1 - 40 mm (2 - 25 mm)
Speed conformity assessed	max. 80 m / min
Circumference of measuring wheel	0,5 m
Error limit regarding accuracy class III with roller cages	+ / - 0,5 %
Display of counter	9999,99 m
L x W x H (without roller cages)	approx. 320 x 320 x 280 mm
Material	steel / stainless steel / aluminium
Weight	approx. 12 kg
* Note: MESSBOI 40 BAE is also available with stainless steel counter roller for wire rope or steel cable. Part No. 86000316	



Fig. 2 MESSBOI 40 BAE basic device

MESSBOI 40 BAE

Length measuring device with mechanical counter

Roller cages



Fig. 3 Inlet and outlet roller cages



Fig. 4 Inlet and outlet roller cages



Fig. 5 Inlet roller cage



Fig. 6 Inlet or outlet roller cage (piece)

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

Conformity assessment

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

Alu profile and lever shear

Technical data	Alu profile for MESSBOI 40 for mounting onto MESSROL 670 / 1000
Part No.	86100005
With mounting plates for roller cages, measuring device and lever shear	
Technical data	MATIS 40 lever shear for cable (fine-wire)
Part No.	86001132
Material-Ø	max. 40 mm
B x W x H	approx. 110 x 130 x 720 mm
Weight	approx. 8,3 kg
Material	Blades made of hardend tool steel
Cut release via hand lever.	



Fig. 7 Alu profile with MESSBOI 40 BAE, MATIS 40 and inlet and outlet roller cages



Fig. 8 MATIS 40 lever shear

MESSBOI 40 LC / LC-MID

Length measuring device with digital counter

Data storage for a permanent and tamper-resistant storage of all measurements

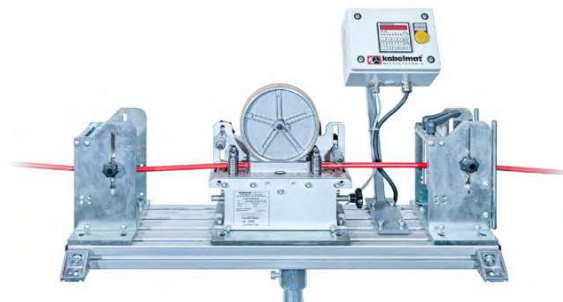


Fig. 1 MESSBOI 40 LC with counter in housing, aluminium profile, inlet and outlet roller cages, printer holder and printer

MESSBOI 40 LC / LC-MID

- Digital length measuring device for winding material-Ø max. 40 mm

Functionality:

Length measuring device with digital counter. Depending on the application we offer various versions due to customer specification. This measuring device consists of a solid base frame with guide rollers to which the measuring device is mounted. Measuring scanning by means of measuring wheel.

Basic equipment:

- Preselection counter integrated in housing, mounted besides the measuring device
- One set of inlet and outlet rollers of adjustable height and centrally adjustable width
- A rotary pulse encoder with two channels A+B, 24 VDC and connection cable
- A preselection counter LC MID with interface RS 232 with two potential-free electric contacts for drive of high- / low speed function of an adjustable winding drive or a signal lamp. The counter is equipped with a plastic foil keyboard for inputting the data. Possibility of conformity assessment (formerly first calibration) of the length measuring device with Kabelmat - preset counter and rotary pulse encoder in connection with additional infeed and outfeed roller cages.
- The calibration speed is monitored by a signal lamp

Supplementary equipment:

- Angle drive for easy operation of the central adjustment of vertical guides
- Cable end detection
- Sensor for measuring the cable diameter for automatic traversing and for switching off the winding drive at the cable end
- Inlet and outlet roller cages
- Conformity assessment / MID (formerly first calibration) of the length measuring device according module F with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery.
 - Automatic storage of the cutting data
 - Label printer with interface for preselection counter
 - Printer holder for label printer

MESSBOI 40 LC / LC-MID

Length measuring device with digital counter

Basic device MESSBOI 40 LC / LC-MID

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



Fig. 2 MESSBOI 40 LC with counter in housing

Roller cages



Fig. 3 Inlet and outlet roller cages



Fig. 4 Inlet and outlet roller cages



Fig. 5 Inlet roller cage



Fig. 6 Inlet or outlet roller cage

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

MESSBOI 40 LC / LC-MID

Length measuring device with digital counter

Conformity assessment and accessory

Technical data	Conformity assessment / MID (formerly first calibration)
Part No.	242
Conformity assessment of the length measuring device according module F with additional inlet and outlet roller cages approved by German calibration authority for a period of two years from date of delivery, valid for all EEA member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after two years had expired is not included in the delivery. Presence of the customer is not needed.	

Technical data	Label printer
Part No.	5101.000
With interface to the preselection counter The company logo must be provided by the customer when ordering. In *.bmp format, black / white, Resolution 200dpi, max. size: 45 x 20 mm (W x H)	

Technical data	Printer holder
Part No.	85100949
Holder for label printer	

Alu profile and lever shear

Technical data	Alu profile for MESSBOI 40 for mounting onto table
Part No.	86100006
With mounting plates for roller cages, measuring device and lever shear	

Technical data	Alu profile for MESSBOI 40 for mounting onto MESSROL 670 / 1000
Part No.	86100005
With mounting plates for roller cages, measuring device, lever shear and housing for counter	

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



Fig. 7 MESSBOI 40 LC-MID with counter in housing, inlet and outlet roller cages, holder for label printer and label printer



Fig. 8 Label printer



Fig. 9 Example label with customer logo



Fig. 10 Alu profile



Fig. 11 MATIS 40 lever shear

MESSBOI 80 LC / LC-MID

Length measuring device with digital counter

Length measuring for big sizes



Fig. 1 MESSBOI 80 LC with housing and roller cages on alu profile

MESSBOI 80 LC / LC-MID

- Digital length measuring device for winding material-Ø max. 80 mm

Functionality:

This length measuring device consists of a solid base body with guiding rollers to which the measuring device is mounted. The scanning of the material to be measured is ensured by a measuring wheel.

Technical data	MESSBOI 80 LC / LC-MID
Part No.	0484.000
Round cable-Ø (with MID / conformity assessment)	2 - 80 mm (2 - 60 mm)
Steel cable-Ø with MID / conformity assessment	2 - 20 mm
Thickness range flat cable with MID / conformity assessment	2 - 20 mm
Width range flat cable with MID / conformity assessment	10 - 60 mm
Speed conformity assessed	max. 250 m / min
Circumference of measuring wheel	0,5 m
Rotary pulse encoder	500 Imp / per turn 24 VDC
Error limit regarding accuracy class III with roller cages	+ / - 0,5 %
Display of counter	99999,999 m
L x W x H (without roller cages)	approx. 510 x 270 x 310 mm
Weight	approx. 23 kg

Basic equipment:

- A casing fitted to the length measuring device for the counter
- The length is measured by a measuring wheel
- One set of inlet and outlet rollers of adjustable height and centrally adjustable width
- A rotary pulse encoder with connection cable
- A preselection counter LC MID with interface RS 232 with two potential-free electric contacts for controlling the fast motion/ inching function of an adjustable winding drive or a luminous indicator. The counter is equipped with a plastic foil keyboard for putting the data. Possibility of a conformity assessment (formerly first calibration) of the length measuring device with Kabelmat preselection counter and rotary pulse encoder in connection with additional inlet and outlet roller cages.
- Supervision of the calibration speed with luminous indicator

Supplementary equipment:

- Diameter recognition mounted on the MESSBOI 80 LC / LC-MID to determine the diameter of winding good
- Conformity assessment / MID (formerly first calibration) of the length measuring device according module F with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery.
 - Automatic storage of the cutting data
 - Label printer with interface to the preselection counter
 - Holder for label printer

MESSBOI 100 LC / LC-MID

Length measuring device with digital counter

Length measuring device
for big material

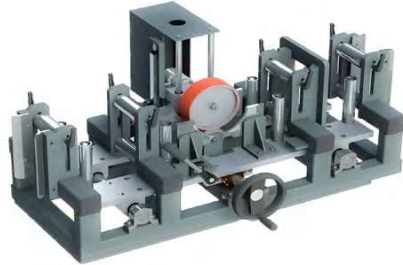


Fig.1 MESSBOI 100 LC with pre-selection counter in housing

MESSBOI 100 LC / LC-MID

- Digital length measuring device for winding material-Ø max. 100 mm

Functionality:

This length measuring device consists of a solid base body with guiding rollers to which the measuring device is mounted. The scanning of the material to be measured is ensured by a measuring wheel.

Technical data	MESSBOI 100 LC / LC-MID
Part No.	0492.000
Round cable-Ø with MID / conformity assessment	5 - 100 mm
Thickness range flat cable with MID / conformity assessment	4 - 20 mm
Width range flat cable with MID / conformity assessment	10 - 100 mm
Speed with MID / conformity assessment (depending on material)	max. 150 m / min
Circumference of measuring wheel	0,5 m
Rotary pulse encoder	500 Imp / per turn 24 VDC
Error limit regarding accuracy class III with roller cages	+ / - 0,5 %
Display of counter	99999,999 m
L x W x H (without roller cages)	approx. 1100 x 550 x 450 mm
Weight	approx. 80 kg

Basic equipment:

- Four sets of inlet and outlet rollers, adjustable in height and centrally adjustable in width
- Mechanical measuring wheel mounted on two pillar guides
- The length is measured by a measuring wheel
- Measuring wheel rests on the material due to its dead weight
- A rotary pulse encoder with connection cable
- A preselection counter LC MID with interface RS 232 with two potential-free electric contacts for controlling the fast motion / inching function of an adjustable winding drive or a luminous indicator. The counter is equipped with a plastic foil keyboard for inputting the data. Possibility of a conformity assessment (formerly first calibration) of the length measuring device with Kabelmat preselection counter and rotary pulse encoder in connection with additional inlet and outlet roller cages.
- Supervision of the calibration speed with luminous indicator.

Supplementary equipment:

- Diameter recognition mounted on the MESSBOI 100 LC / LC-MID to determine the diameter of winding good
- Conformity assessment / MID (formerly first calibration) of the length measuring device according module F with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery.
 - Automatic storage of the cutting data
 - Label printer with interface to the preselection counter
 - Holder for label printer

MESSBOI 100 LASER

Length measuring device with contactless length measuring

Contactless
length measuring



Fig. 1 MESSBOI 100 LASER

MESSBOI 100 LASER

- Laser length measuring device for winding material-Ø max. 100 mm

Functionality:

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

Technical data	MESSBOI 100 LASER
Part No.	0495.000
Measuring range (differing with conformity assessment)	4 - 100 mm
Speed	max. 5000 m / min
Electrical supply	110 - 240 V / 50 Hz
L x W x H	approx. 1100 x 550 x 450 mm
Weight	approx. 100 kg

Basic equipment:

- Basic unit with manual height adjustment
- Basic unit with motorized height adjustment
- Inlet and outlet rollers of adjustable height and centrally adjustable width
- Very high reproducibility - better 0.02%
- Very high absolute accuracy - better 0.05%
- No slippage - even at very high speeds and accelerations
- No wear or abrasion
- Multi-function display
- Interface module for storing the data
- Two potential-free electrical contacts for controlling the rapid / creep speed function of a controllable winding drive or a light-emitting indicator

Supplementary equipment:

- Laser protective housing mounted on length measuring device
- Laser measuring head with integrated direction detection
- Roller guide vertically and horizontally adjustable
- Inlet and outlet roller cages
- Diameter detection mounted on the MESSBOI 100 LASER to determine the winding material diameter
- Conformity assessment / MID (formerly first calibration) of the length measuring device according module F with additional inlet and outlet roller cages is approved by German Authorities for a period of two years from date of delivery, valid for all EEA Member States. Conformity has to be carried out in the manufacturing firm. Prolongation of this approval after 2 years had expired is not included in the delivery.
 - Automatic storage of the cutting data
 - Label printer with interface to the preselection counter
 - Holder for label printer



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