

# MATBOI / SPULBOI

TRANSLATION OF THE ORIGINAL  
OPERATING MANUAL

Winding | Unwinding | Wrapping | Measuring | Cables | Wires | Ropes | Pipes | Hoses



Manual coil and spool storage system



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# 1 Introduction

This technical document contains detailed descriptions for the safe and proper commissioning and monitoring of the product (hereinafter also referred to as the storage system).

It also contains safety instructions and general instructions on the product.

This document is only for specially trained, authorized personnel.

## 1.1 Completeness

This technical document is only complete together with the other applicable documents.

The following documents are considered other applicable documents:

## 1.2 Storage location

Always store this technical document and all other applicable documents within reach and accessible for later use.

## 1.3 Presentation conventions


This section contains an overview of the symbols used and the methods for highlighting text.

### 1.3.1 Warning concept

This technical document indicates warnings as follows.

#### 1.3.1.1 Warnings

Warnings relate to entire chapters or to sections, subsections or several paragraphs within this technical document. Warnings are structured on the following pattern:

<b>⚠ Warning</b>	
	<p><b>Type and source of hazard</b></p> <p>Consequences</p> <ul style="list-style-type: none"> <li>▶ What to do</li> <li>▶ What to do</li> </ul>



### 1.3.1.2 Signal words and pictographs

The following signal words are used:

Signal word	Meaning
DANGER	Indicates a dangerous situation that will lead to death or severe injury if not prevented.
WARNING	Indicates a dangerous situation that may lead to death or severe injury if not prevented.
CAUTION	Indicates a dangerous situation that may lead to injury if not prevented.
NOTE	Indicates a situation that may lead to property damage if not prevented.

Tab. 1 Signal words


The following pictographs warn of hazards:

Pictograph	Meaning
	Warns of a hazard location.
	Warns of a crushing hazard.

Tab. 2 Pictographs on hazards

### 1.3.2 Information concept

The following pictographs are used for important information:

Pictograph	Meaning
	Important information.

Tab. 3 Pictograph indicating important information

### 1.3.3 Action concept

#### One-step action instructions

Action instructions that consist of just one work step are structured as follows:

##### Purpose of action (optional)

- ▶ Instruction
  - Result of action instruction (optional)
  - ✓ Result of action (optional)

#### Multi-step action instructions

Action instructions that consist of more than one work step are structured as follows:

##### Purpose of action (optional)

- ▶ 1. Instruction
  - Result of action instruction 1 (optional)
- ▶ 2. Instruction
  - Result of action instruction 2 (optional)
  - ✓ Result of action (optional)

## 1.4 Notations

This technical document uses the following notations:

Notation	Use	Example
Fig. Figure number	Figure cross-reference	Fig. 1
Tab. Table number	Table cross-reference	Tab. 1
Chap. Chapter number - Chapter name	Chapter cross-reference	Chap. 4 - Technical data
Pg. Page number	Page cross-reference	Pg. 6

Tab. 4 Notations in use

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## 2 Safety

This technical document contains detailed explanations of how to safely and properly connect, start, operate and monitor the product.

- Read this technical document carefully and thoroughly to get to know the product.
- This technical document is part of the product.
- Especially read and observe the safety instructions in this chapter.
- Observe the warnings in this technical document to prevent function-related hazards.
- The product is manufactured according to the state of the art. Nonetheless, when it is not used as intended, hazards can arise to the user's life and limb, or damage can occur to the product or other property.

### 2.1 Intended use

The product is for storing and unwinding windable goods, such as cables, leads, wires, ropes, tapes, hoses or pipes. The smallest permissible bending radius according to the specifications of the material must be observed.

Depending on the equipment, cable coils and / or cable spools can be stored ready for removal.

If a product is equipped for special applications, it is only designed to measure the material specified in the sales contract.

Any other use is considered improper use.

This product poses no hazard to people, property or the environment when it is used properly and the requirements and conditions in this technical document and the warnings posted on the product are obeyed.

The following is considered intended use:

- Operate the product according to this technical document, the agreed delivery conditions and the technical data.
- Make sure that all required work is done only by qualified personnel.
- Use the included equipment and special tools exclusively for their intended purpose and as specified in this technical document.
- Operate the product only if it is in technically perfect condition and displays no faults.

The owner bears sole responsibility for any injury or property damage occurring due to improper use of the product.



### 3 Description

The storage system is suitable for cable coils and cable spools that are stored ready for unwinding. The storage system is available as a wall-mounted version (with wall rails) or mobile on a mobile storage rack (with lockable swivel castors).

The storage system can be equipped with different, braked bearing plates and spools, and can thus be individually adapted (see Chap. 4 - Technical data).

#### 3.1 Layout



Fig. 1 Example combination MATBOI / SPULBOI

- |   |  |   |   |
|---|--|---|---|
| 1 | SPULBOI 310-7-S  | 4 | MATBOI 650 T right<br>(also available with pop-up protection) |
| 2 | MATBOI 300 T   | 5 | Storage rack (optional with MESSBOI 25<br>bracket)            |
| 3 | MATBOI 480 T left / right<br>(also available with pop-up protection) | 6 | Travelling mechanism  |

## **3.2 Function**

### **Storage rack / wall profile rails**

The storage rack / wall profile rails are used to hold the various bearing arrangements. The storage rack is equipped with lockable swivel castors for mobile use.

### **MATBOI coil bearing**

MATBOI coil bearings are used for cable coils, hoses and profiles, depending on the design.

### **SPULBOI spool bearing**

The SPULBOI spool bearings are used for cable spools.

### 3.3 Accessories

#### 3.3.1 MATBOI coil bearing

##### 3.3.1.1 MATBOI 200 T

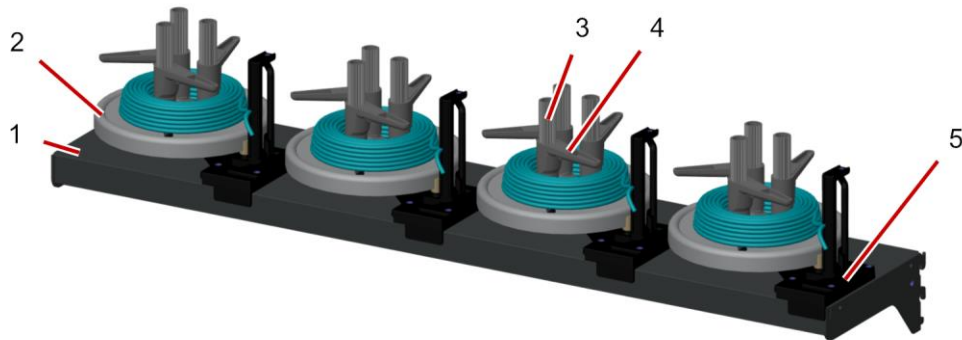


Fig. 2 Layout of MATBOI 200 T

- |                 |  |
|-----------------|--|
| 1 Shelf         | 4 Clip-on holder   |
| 2 Bearing plate | 5 Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H |
| 3 Clamping bolt |  |

##### 3.3.1.2 MATBOI 300 T

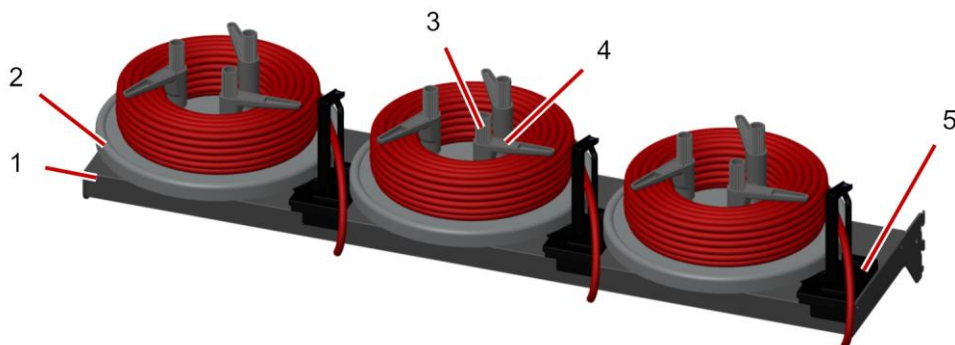


Fig. 3 Layout of MATBOI 300 T

- |                 |  |
|-----------------|--|
| 1 Shelf         | 4 Clip-on holder   |
| 2 Bearing plate | 5 Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H |
| 3 Clamping bolt |  |

### 3.3.1.3 MATBOI 450 T

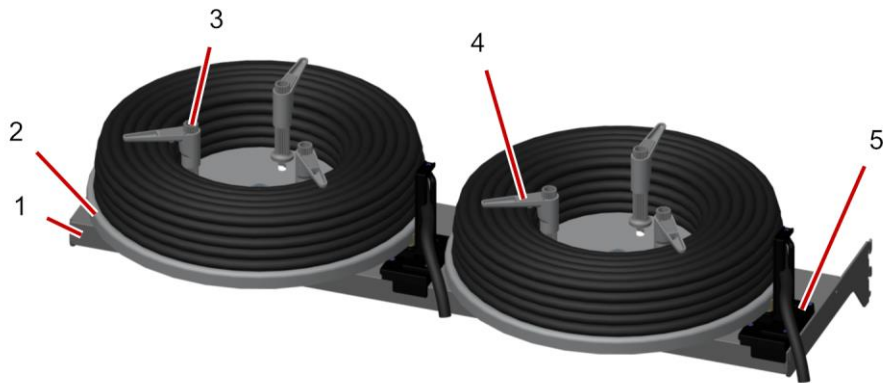


Fig. 4 Layout of MATBOI 450 T

- |   |               |   |  |
|---|---------------|---|--|
| 1 | Shelf         | 4 | Clip-on holder   |
| 2 | Bearing plate | 5 | Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H |
| 3 | Clamping bolt |   |  |

### 3.3.1.4 MATBOI 480 T - left / right

Optionally available with pop-up protection.

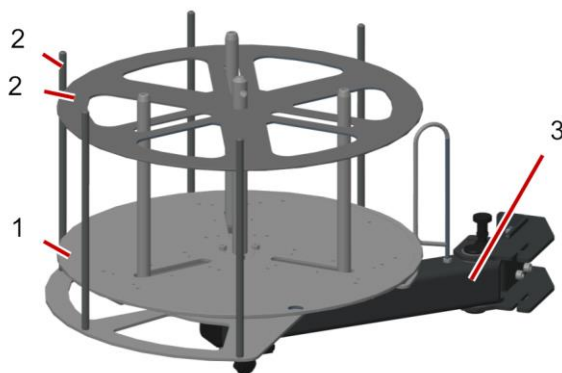


Fig. 5 Layout of MATBOI 480 T

- |   |   |   |             |
|---|---|---|-------------|
| 1 | Bearing plate                                   | 3 | Bearing arm |
| 2 | Pop-up protection with counter plate (optional) |   |             |

### 3.3.1.5 MATBOI 650 T - left / right

Optionally available with pop-up protection.

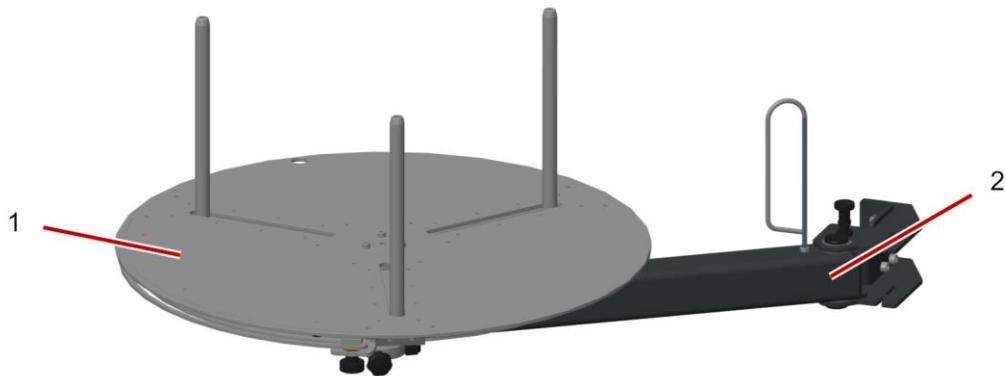


Fig. 6 Layout of MATBOI 650 T

1 Bearing plate

2 Bearing arm

### 3.3.2 SPULBOI spool bearing

#### 3.3.2.1 SPULBOI horizontal

##### 3.3.2.1.1 SPULBOI 200-4-S

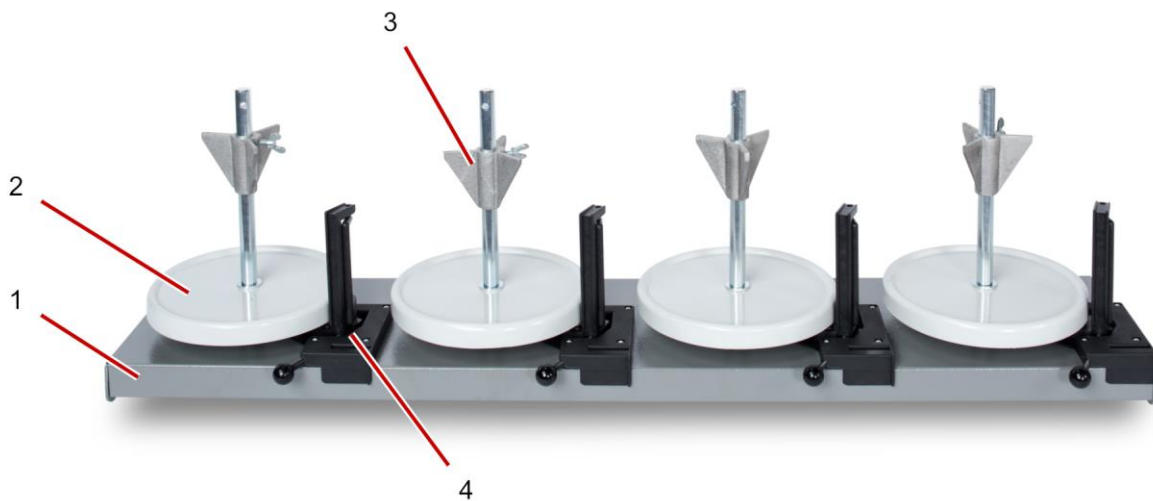


Fig. 7 Layout of SPULBOI 200-4-S

1 Shelf

2 Bearing plate

3 Centring piece

4 Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H

### 3.3.2.1.2 SPULBOI 300-3-S

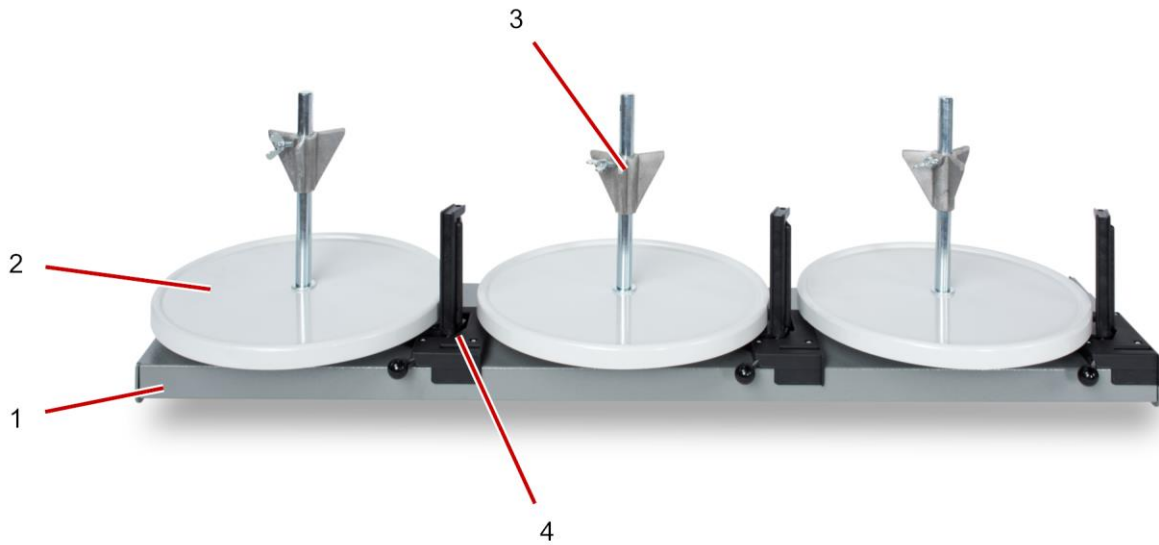


Fig. 8 Layout of SPULBOI 300-3-S

- |                 |  |
|-----------------|--|
| 1 Shelf         | 3 Centring piece   |
| 2 Bearing plate | 4 Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H |

### 3.3.2.1.3 SPULBOI 450-2-S

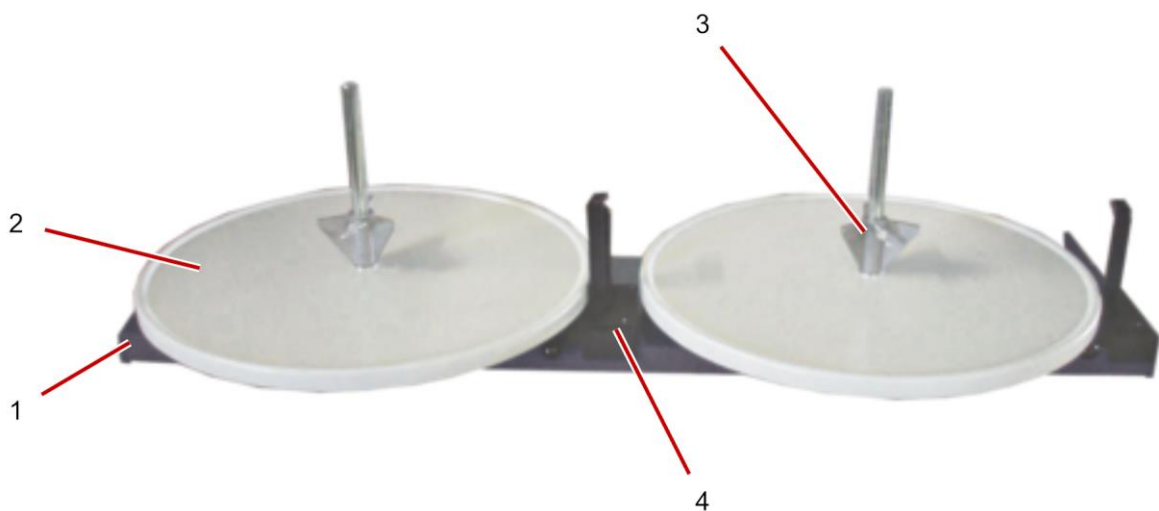


Fig. 9 Layout of SPULBOI 450-2-S

- |                 |  |
|-----------------|--|
| 1 Shelf         | 3 Centring piece   |
| 2 Bearing plate | 4 Unwind brake with cable guide and possibility of mounting the MESSBOI 10 H |

### 3.3.2.2 SPULBOI vertical

#### 3.3.2.2.1 SPULBOI 200-7-S

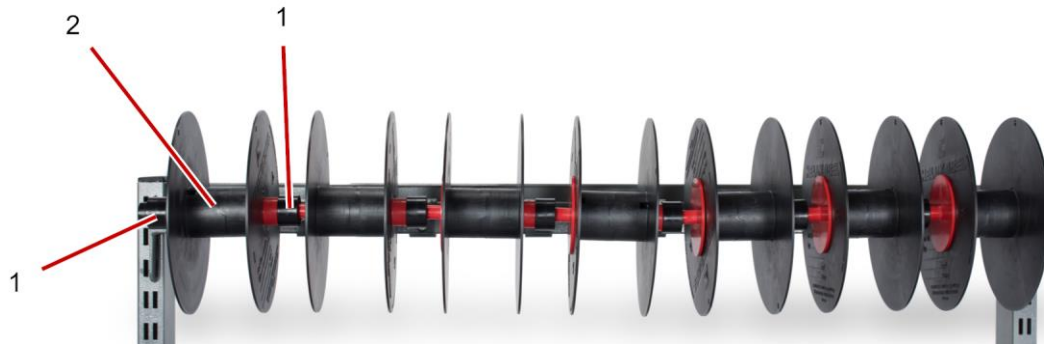


Fig. 10 Layout of SPULBOI 200-7-S

1 Spool holder

2 Spool with integrated axle

#### 3.3.2.2.2 SPULBOI 310-7-S

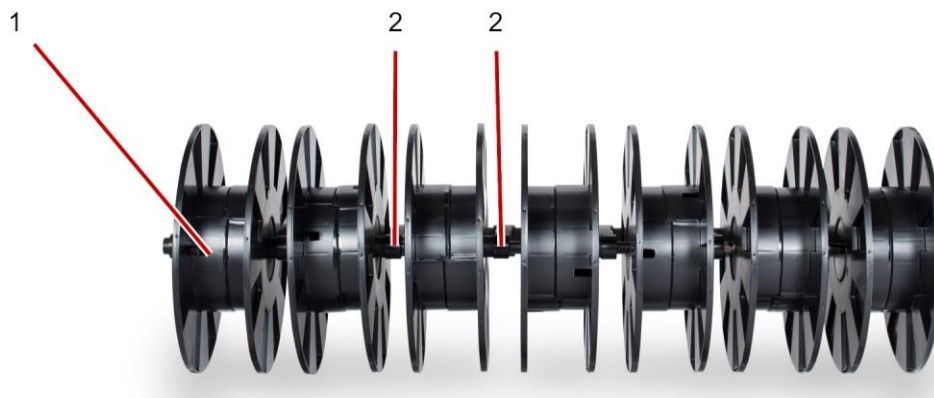


Fig. 11 Layout of SPULBOI 310-7-S

1 Spool with integrated axle

2 Spool holder

### 3.3.2.2.3 SPULBOI 310-4-S

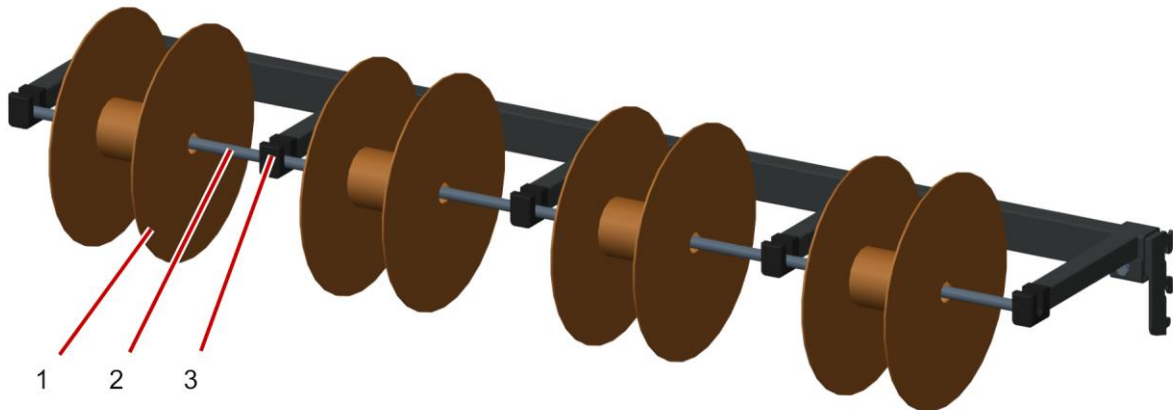


Fig. 12 Layout of SPULBOI 310-4-S

- |   |       |   |              |
|---|-------|---|--------------|
| 1 | Spool | 3 | Axle support |
| 2 | Axle  |   |              |

### 3.3.2.2.4 SPULBOI 310-5-S

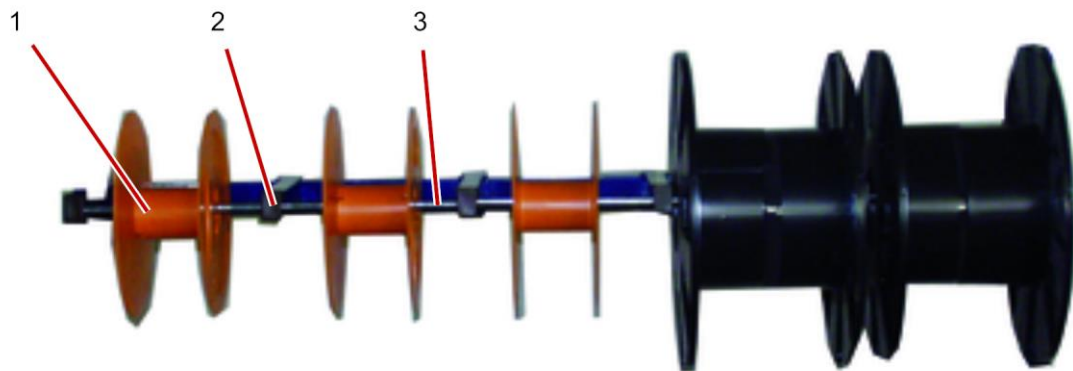


Fig. 13 Layout of SPULBOI 200-5-S

- |   |              |   |      |
|---|--------------|---|------|
| 1 | Spool        | 3 | Axle |
| 2 | Axle support |   |      |



### 3.3.2.2.5 Cable guide rail



Fig. 14 Layout of cable guide rail

1 Cable guide rail

2 MESSBOI 10 (optional)

## 4 Technical data

### 4.1 Base frame / wall profile rails

	<b>Storage rack 650 mobile</b>
<b>H x W x D</b>	approx. 1780 x 1040 x 700 mm
<b>Load-lifting capacity</b>	max. 200 mm
<b>Weight</b>	approx. 42 kg

Tab. 5 MATBOI / SPULBOI base frame

	<b>Attachment for storage rack</b>
<b>H x W x D</b>	approx. 60 x 30 x 315 mm

Tab. 6 Accessories - MATBOI / SPULBOI attachment for storage rack

	<b>Wall profile rails (pair)</b>
<b>H x W x D</b>	approx. 980 x 30 x 13 mm
<b>Weight</b>	approx. 1 kg

Tab. 7 MATBOI / SPULBOI wall profile rails

## 4.2 MATBOI coil bearing

	<b>MATBOI 200 T</b>	<b>MATBOI 300 T</b>	<b>MATBOI 450 T</b>
<b>Plate-Ø</b>	200 mm	300 mm	450 mm
<b>Coil Ø</b>	max. 190 mm	max. 290 mm	max. 440 mm
<b>Height of core bolt</b>	110 mm	110 mm	110 mm
<b>Core adjustment range</b>	80 - 150 mm	90 - 180 mm	150 - 250 mm
<b>Coil weight</b>	max. 8 kg	max. 10 kg	max. 12 kg
<b>Weight</b>	approx. 8.6 kg	approx. 9.2 kg	approx. 10.2 kg

Tab. 8 Accessories - MATBOI horizontal coil bearing

	<b>MATBOI 480 T left</b>	<b>MATBOI 480 T right</b>	<b>MATBOI 650 T left</b>	<b>MATBOI 650 T right</b>
<b>Swivel arm version</b>	left	right	left	right
<b>Plate-Ø</b>	480 mm	480 mm	650 mm	650 mm
<b>Coil Ø</b>	max. 470 mm	max. 470 mm	max. 640 mm	max. 640 mm
<b>Height of core bolt</b>	250 mm	250mm	250 mm	250 mm
<b>Core adjustment range</b>	140 - 320 mm	140 - 320 mm	180 - 500 mm	180 - 500 mm
<b>Coil weight</b>	max. 20 kg	max. 20 kg	max. 20 kg	max. 20 kg

Tab. 9 Accessories - MATBOI horizontal coil bearing with swivel arm

	<b>MATBOI 480 T pop-up protection</b>	<b>MATBOI 650 T pop-up protection</b>
<b>Cover plate-Ø</b>	max. 480 mm	max. 650 mm
<b>Boundary rods</b>	5 piece	5 piece
<b>Height of boundary rods</b>	305 mm	305 mm
<b>Coil height</b>	max. 230 mm	max. 230 mm
<b>Weight</b>	7.3 kg	10 kg
<b>Weight of cover plate</b>	2.7 kg	3.8 kg

Tab. 10 Accessories - pop-up protection for MATBOI 480 T and MATBOI 650 T

### 4.3 SPULBOI spool bearing

	<b>SPULBOI 200-4-S</b>	<b>SPULBOI 300-3-S</b>	<b>SPULBOI 450-2-S</b>
<b>Plate-Ø</b>	200 mm	300 mm	450 mm
<b>Spool Ø</b>	max. 190 mm	max. 290 mm	max. 440 mm
<b>Mandrel</b>	Ø 16 x 200	Ø 16 x 200	Ø 16 x 200
<b>Centring cone</b>	25 - 80 mm	25 - 80 mm	25 - 80 mm
<b>Spool weight</b>	max. 8 kg	max. 8 kg	max. 8 kg

Tab. 11 Accessories - SPULBOI horizontal spool bearing

	<b>SPULBOI 200-7-S</b>	<b>SPULBOI 310-7-S</b>
<b>Number of spools</b>	7	7
<b>Spool Ø</b>	150 - 200 mm	310 mm
<b>Spool width</b>	75 - 80 mm	75 mm
<b>Core Ø</b>	140 - 320 mm	140 - 320 mm
<b>Spool weight</b>	max. 4 kg	max. 5 kg

Tab. 12 Accessories - SPULBOI vertical spool bearing

	<b>SPULBOI 310-4-S</b>	<b>SPULBOI 310-5-S</b>
<b>Number of spools</b>	4, stored individually	5, stored individually
<b>Spool Ø</b>	max. 310 mm	max. 310 mm
<b>Spool width</b>	max. 215 mm	max. 167 mm
<b>Axle Ø</b>	10 mm	10 mm
<b>Axle load</b>	max. 5 kg	max. 5 kg

Tab. 13 Accessories - SPULBOI vertical spool bearing stored individually

#### 4.3.1 Empty spools

	Empty spool	Empty spool	Empty spool	Empty spool
<b>Spool Ø</b>	150 mm	200 mm	310 mm	310 mm
<b>Core Ø</b>	50 mm	50 mm	150 mm	150 mm
<b>Spool width</b>	80 mm	75 mm	75 mm	150 mm
<b>Bore-Ø</b>	18.5 mm	18.5 mm	30 mm	30 mm
<b>Spool load</b>	max. 4 kg	max. 4 kg	max. 5 kg	max. 5 kg

Tab. 14 Accessories - empty spools

#### 4.4 Measuring devices

	MESSBOI 10 H	MESSBOI 10 LS
<b>Measuring range</b>	1 - 15 mm	1 - 15 mm
<b>Measuring force</b>	Spring pressure	Spring pressure
<b>L x W x H</b>	approx. 260 x 110 x 140 mm	approx. 260 x 110 x 140 mm
<b>Counter with reset button</b>	9999.99 m	9999.99 m
<b>Tolerance</b>	+/- 2%	+/- 2%
<b>Matching articles</b>	MATBOI 200 T MATBOI 300 T MATBOI 450 T SPULBOI 200-4-S SPULBOI 300-3-S SPULBOI 450-2-S	Cable guide rail for vertical spool storage

Tab. 15 Accessories - Measuring equipment for MATBOI / SPULBOI for suspension

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## 5 Transport, set-up, storage, disposal

### 5.1 Transport



#### Info

After taking delivery, check the packaging and the product immediately for transport damage. Report damage and faults to the carrier and the supplier immediately.

### 5.2 Set-up

For the device's set-up location, observe the following:

- The device must be set up only indoors, mounted to a machine, or to a stable, level table.
- The device's temperature range is between + 5 °C and + 40 °C with maximum (non-condensing) air humidity of 80%.
- The owner must secure the space around the device according to applicable regulations.

### 5.3 Storage

Do the following work before storing:

- Spray bare metal parts with a preservative.
- Wrap the unit with a plastic sheet.
- Only store the unit in a dry place at room temperature. The storage duration is unlimited.

### 5.4 Disposal

Dispose of the device's parts in accordance with the national regulations. In particular, ensure that environmentally hazardous substances such as oils or electronic components are disposed of in an environmentally sound manner.

## 6 Operation

### 6.1 Setting

#### 6.1.1 MATBOI 480 T and MATBOI 650 T pop-up protection

The pop-up protection is optional and can be retrofitted. As a rule, it is supplied assembled.

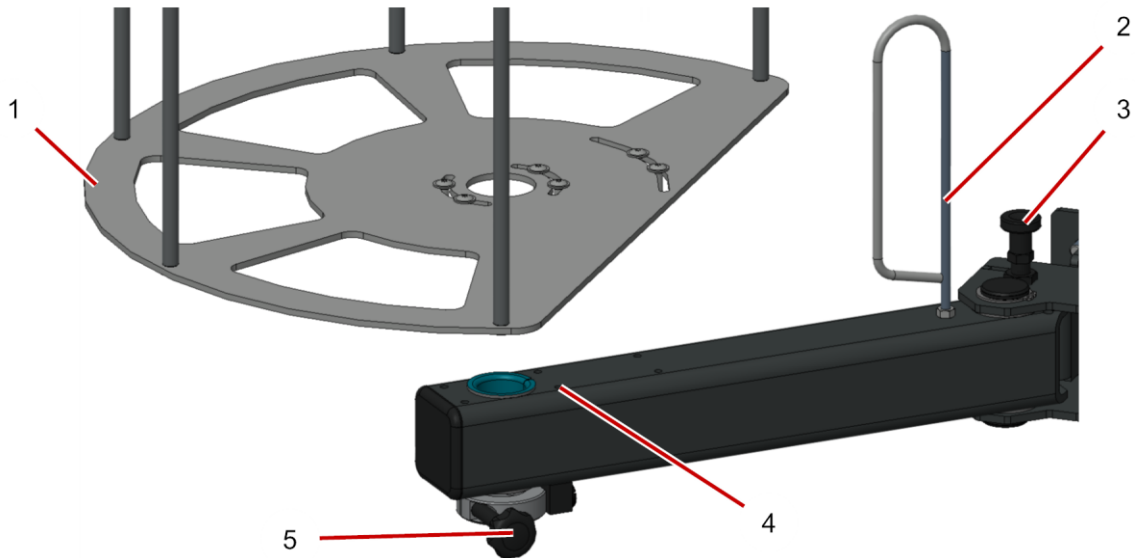


Fig. 15 Setting up pop-up protection for MATBOI 480 T and MATBOI 650 T

- |   |   |   |  |
|---|---|---|--|
| 1 | Pop-up protection (incl. counter plate) | 4 | 6 threaded holes for pop-up protection |
| 2 | Cable routing                           | 5 | Star knob brake                        |
| 3 | Locking bolt swivel arm                 |   |  |

#### Fitting the pop-up protection

- ▶ Loosen the safety bolt on the swivel arm and swivel the swivel arm outwards until the safety bolt engages.
- ▶ Release the star knob brake.
- ▶ Remove the bearing plate.
- ▶ Attach the pop-up protection to the swivel arm with 6 screws, making sure that the straight edge points in the direction of the cable guide.
- ▶ Insert the bearing plate.
- ▶ Tighten the star knob brake.
- ▶ If necessary, insert a ring collar. See Fig. 18.
- ▶ Place the counter plate on the ring collar. See 12, Pg. 12.
- ▶ Loosen the safety bolt on the swivel arm and swivel the swivel arm inwards until the safety bolt engages.
  - ✓ Pop-up protection is mounted.

## 6.2 Adjusting

### 6.2.1 MATBOI 200 T / 300 T / 450 T

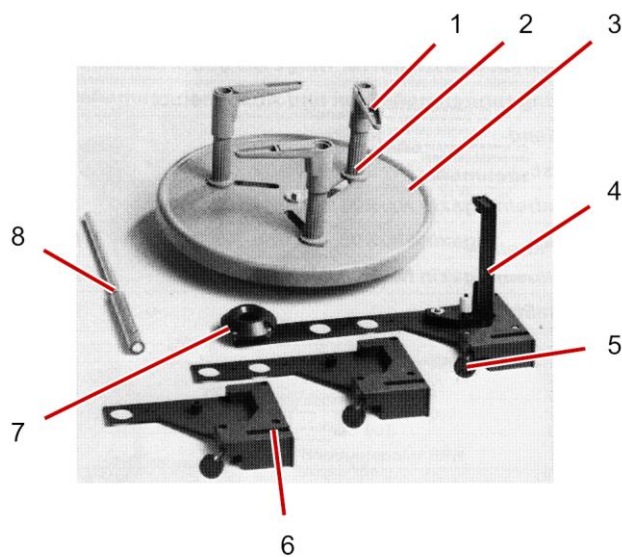


Fig. 16 Adjusting MATBOI 200 T / MATBOI 300 T and MATBOI 450 T

- |   |                                     |   |   |
|---|-------------------------------------|---|---|
| 1 | Clip-on holder with clamping part   | 5 | Adjusting screw for brake force regulation                |
| 2 | Clamping bolt for centring the core | 6 | Mounting groove MESSBOI 10 H                              |
| 3 | Bearing plate                       | 7 | Locating bearing for bearing plate                        |
| 4 | Cable guide with unwind brake       | 8 | Clamping key for central adjustment of the clamping bolts |

#### Insert ring collar

- ▶ Press the clamping part of the clip-on holder upwards and pull off the clip-on holder.
- ▶ Use the tensioning spanner to push the clamping bolts inwards via the central adjustment.
- ▶ Insert ring collar.
- ▶ Use the tensioning spanner to push the clamping bolts outwards via the central adjustment.
- ▶ Push the clip-on holder onto the clamping bolts up to the ring collar and press the clamping part downwards.
- ▶ Guide the material through the cable guide and adjust the braking force on the unwind brake if necessary.
  - ✓ Ring collar is inlaid



#### Info

If material runs off during unwinding, the braking force must be adjusted.



## 6.2.2 MATBOI 480 T / 650 T

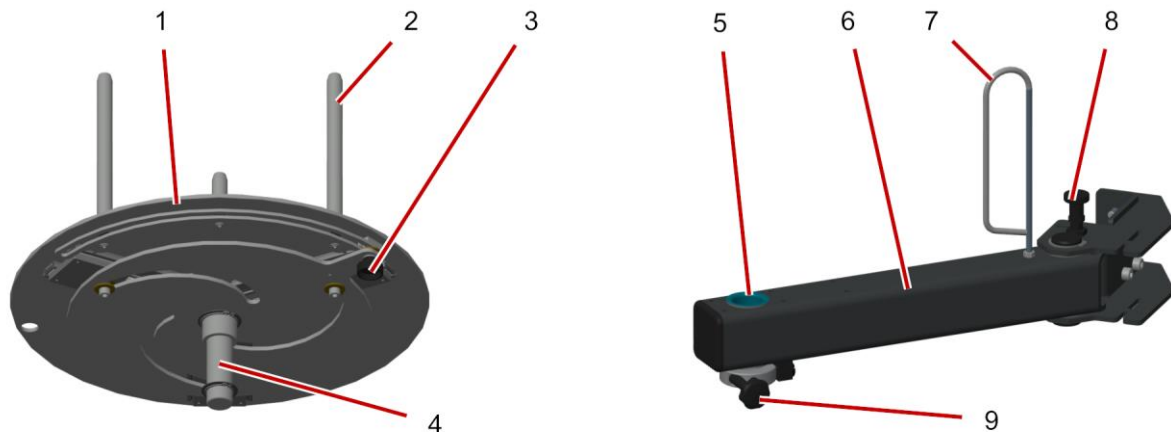


Fig. 17 Adjusting MATBOI 480 T and MATBOI 650 T

- |   |  |   |                         |
|---|--|---|-------------------------|
| 1 | Bearing plate  | 6 | Bearing arm             |
| 2 | Clamping bolt  | 7 | Cable routing           |
| 3 | Knurled screw for central adjustment of the clamping bolts | 8 | Locking bolt swivel arm |
| 4 | Connecting shaft   | 9 | Star knob brake         |
| 5 | Locating bearing for bearing plate                         |   |                         |

### Insert ring collar

- ▶ Loosen the safety bolt on the swivel arm and swivel the swivel arm outwards until the safety bolt engages.
- ▶ Loosen the knurled screw of the central adjustment of the clamping bolts.
- ▶ At the knurled screw, push the clamping bolts inwards via the central adjustment
- ▶ Insert ring collar.
- ▶ At the knurled screw, push the clamping bolts outwards via the central adjustment.
- ▶ Tighten the knurled screw of the central adjustment of the clamping bolts.
- ▶ Loosen the safety bolt on the swivel arm and swivel the swivel arm inwards until the safety bolt engages.
- ▶ Guide the material through the cable guide and adjust the braking force on the star knob if necessary.
  - ✓ Ring collar is inlaid



#### Info

If material runs off during unwinding, the braking force must be adjusted.

### 6.2.3 SPULBOI 200-4-S / 300-3-S / 450-2-S

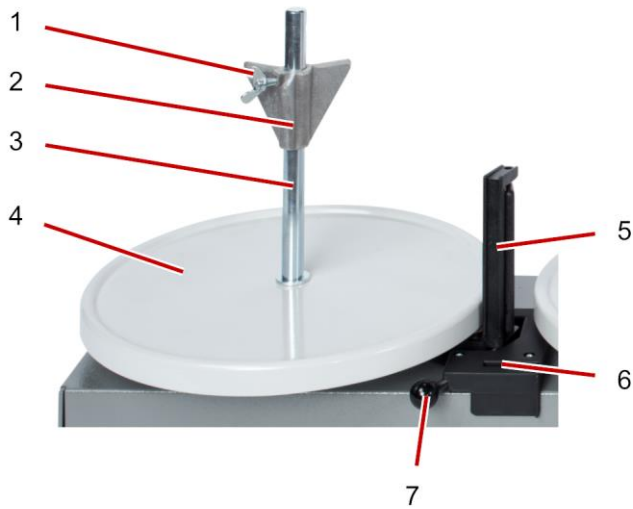


Fig. 18 Adjusting SPULBOI 200-4-S / SPULBOI 300-3-S and SPULBOI 450-2-S

- |   |                |   |  |
|---|----------------|---|--|
| 1 | Wing screw     | 5 | Cable routing                              |
| 2 | Centring piece | 6 | Mounting groove MESSBOI 10 H               |
| 3 | Mandrel        | 7 | Adjusting screw for brake force regulation |
| 4 | Bearing plate  |   |  |

#### Insert spool

- ▶ Loosen the wing screw.
  - ▶ Remove the centring piece.
  - ▶ Insert the spool.
  - ▶ Push the centring piece onto the mandrel until the spool is fixed.
  - ▶ Tighten the wing screw.
  - ▶ Guide the material through the cable guide and adjust the braking force on the unwind brake if necessary.
- ✓ Spool is inserted



#### Info

To remove the spools, carry out the steps in reverse order.



#### Info

If material runs off during unwinding, the braking force must be adjusted.

## 6.2.4 SPULBOI 200-7-S / 310-7-S

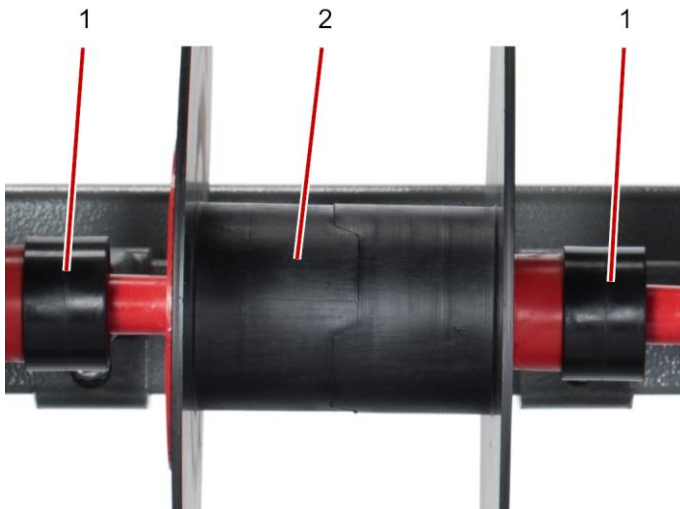


Fig. 19 Adjusting SPULBOI 200-7-S and SPULBOI 310-7-S

1 Spool holder

2 Spool with integrated axle

### Remove and insert spool

- ▶ Push the spool to the left into the axle receptacle and remove it.
  - Spool is removed.
- ▶ Push the spool with the narrow axle side into the left axle receptacle and press lightly.
- ▶ Push the spool with the wide axle side into the right axle receptacle and slowly release the spool.
  - ✓ Spool is inserted

## 6.2.5 SPULBOI 310-4-S / 310-5-S

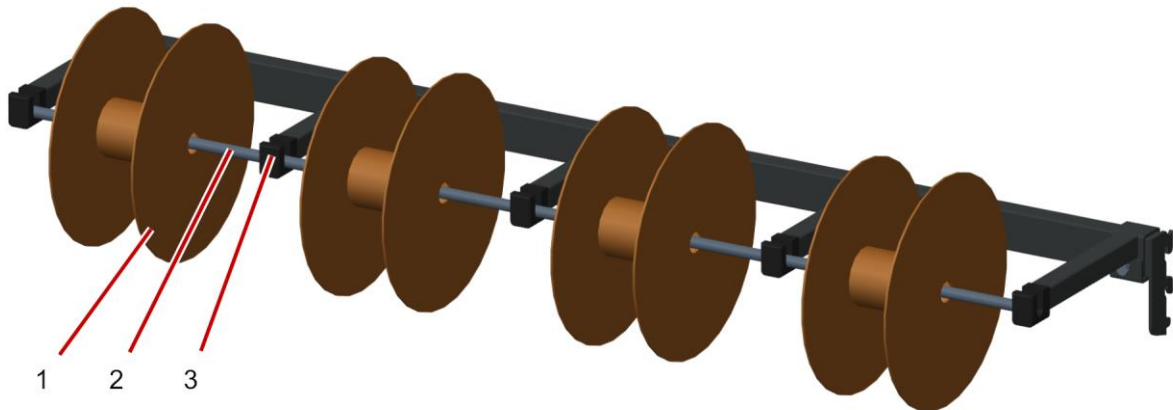


Fig. 20 Adjusting SPULBOI 310-4-S and SPULBOI 310-5-S

- |   |       |   |              |
|---|-------|---|--------------|
| 1 | Spool | 3 | Axle support |
| 2 | Axle  |   |              |

### Insert spools

- ▶ Lift the axle out of the axle holders.
- ▶ Push the spools onto the axle and distribute them.
- ▶ Place the axle with spools in the axle holders.
  - ✓ Spools are inserted



### Info

To remove the spools, carry out the steps in reverse order.

## 7 Service

### 7.1 Replacement parts

#### 7.1.1 MATBOI 200 T / 300 T / 450 T

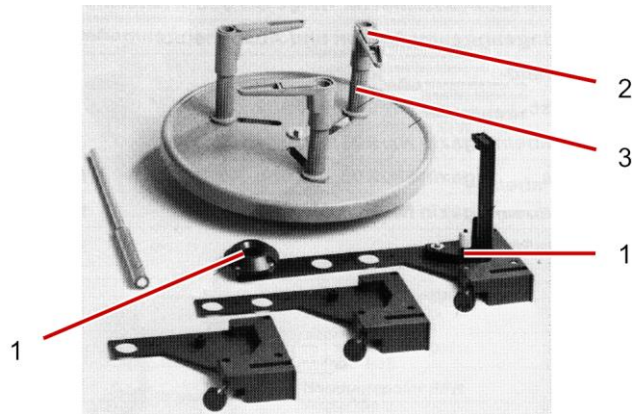


Fig. 21 Spare parts MATBOI 200 T / MATBOI 300 T and MATBOI 450 T

Item	Designation	Item number
1	Brake with bearing size H 200	0107.06.0101
	Brake with bearing size H 300	0108.02.0101
	Brake with bearing size H 450	0108.02.0101
2	Clip-on holder with 89931186	89931185
3	Clamping bolts for all plate sizes	89931184

Tab. 16 Spare parts MATBOI 200 T / MATBOI 300 T and MATBOI 450 T

## 7.1.2 SPULBOI 200-4-S / 300-3-S / 450-2-S

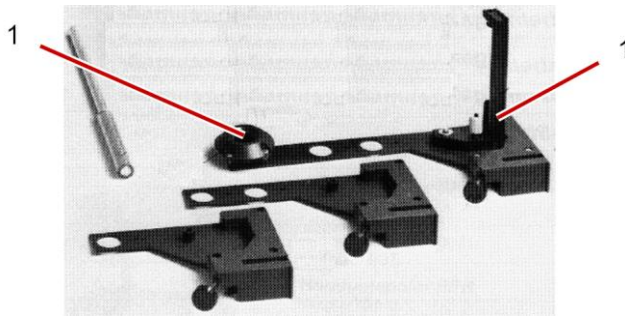


Fig. 22 Spare parts SPULBOI 200-4-S / SPULBOI 300-3-S and SPULBOI 450-2-S

Item	Designation	Item number
4	Brake with bearing size H 200	0107.06.0101
	Brake with bearing size H 300	0108.02.0101
	Brake with bearing size H 450	0108.02.0101

Tab. 17 Spare parts SPULBOI 200-4-S / SPULBOI 300-3-S and SPULBOI 450-2-S

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## 8 Customer service

If you require customer service, please contact the following address:

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D-72293 Glatten

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E-mail: [service@kabelmat.com](mailto:service@kabelmat.com)

## 9 Change history

### Change chart

This document has been changed according to the following chart.

Date	Previous version No.	Reason for change	New version No.
xx.xx.xxxx	xxxx.xxx.xx.xx.xx	Describe the reason for change in detail, providing the page number and the affected paragraph or chapter.  Text content                    xxxx.xxx.xx.xx.xx Images                            xxxx.xxx.xx.xx.xx Orthography/ Appearance                    xxxx.xxx.xx.xx.xx	xxxx.xxx.xx.xx.xx

Tab. 18 Change chart

### Change history

Date	Previous version No.	Reason for change	New version No.
06/11/2020	xxxx.xxx.xx.xx.xx	Document created.	080x.000.01.01.01

Tab. 19 Change history