Dolezych
EINFACH SICHER

Operating instructions

DoMessPro

Digital preload indicator

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Imprint

Dolezych GmbH & Co. KG
Hartmannstr. 8
44147 Dortmund

Phone: +49 (0) 231 / 82 85 0
Fax: +49 (0) 231 / 82 77 82
Internet: www.dolezych.de
E-Mail: info@dolezych.de

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1 Foreword

1.1 About these instructions

These operating instructions are part of the scope of delivery.

Always keep the operating instructions ready to hand.

Read the operating instructions carefully before first use and observe the information when using the product.

Observe the safety instructions in the operating manual to avoid personal injury and damage to property.

1.2 Symbols in the instructions

Warnings of personal injury

This safety warning symbol and the associated signal word indicate important information for avoiding hazards that can lead to injuries or even death. The meaning of this signal word is explained in more detail below.

DANGER!	Extremely dangerous situation. Non-observance of the safety instruction will result in death or serious injury.
WARNING!	Dangerous situation. Non-observance of the safety instruction may result in death or serious injury.
CAUTION!	Dangerous situation. Non-observance of the safety instructions may result in minor injuries.

Warnings of property or environmental damage

This symbol indicates important instructions to avoid damage to the product or other objects as well as the surroundings (environment).

Other information

This symbol indicates other helpful information. This information is additionally marked with a frame.

1.3 Limitation of liability

Dolezych GmbH assumes no liability for damages caused by:

- Failure to observe these operating instructions
- Non-intended use
- Use of the product by untrained personnel
- Use of non-approved accessories / fitting parts
- Unauthorized modifications

1.4 Special regulations and guidelines

For safe handling of the product, special reference is made to the following applicable regulations and technical rules:

- EN 12195-1:2011-06 Load restraining on road vehicles - Safety - Part 1: Calculation of securing forces
- DGUV Regulation 1 Principles of Prevention
- DGUV Regulation 70 Accident prevention regulations for vehicles
- DGUV Information 214-003/BGI 649 Load securing and load distribution on vehicles
- VDI 2700 ff. Securing of loads on road vehicles

If necessary, additional special regulations must be observed, e.g. for the transport of hazardous goods.

2 Safety instructions

2.1 Intended use

The product is used to secure loads for transport and may:

- only be used by authorized and instructed persons.
- only be used in compliance with the valid regulations.

It is forbidden:

- to modify the product.
- To dismantle the product
- to repair the product by non-specialized personnel.

This is a professional product intended for commercial use.

2.2 General safety instructions

For safe handling of the product, the following general instructions must be observed:

- Keep the product away from heat and open flames / fire
- Keep away from children
- Do not drop product
- Do not put fingers between moving parts → risk of crushing
- The product is an indicator device. If in doubt, never rely solely on the displayed value, but question it critically.
- Before use, ensure that there is no damage to the device (or the webbing).
- The device must only be operated manually. No force-amplifying devices (levers) may be used.
- Devices and accessories that are not in perfect condition must not be used. If the device malfunctions, it must be returned to the manufacturer.
- This device must not be used for any purpose other than those specified in this instruction manual. The maximum preload force to be measured must not exceed 1,250 daN.

- When the device is finally taken out of service, it must be rendered unusable. The locally applicable environmental protection regulations must be observed.
- This device is approved in accordance with European regulations and must be tested in accordance with the regulations applicable in other countries before being put into service and used there.

3 Product description

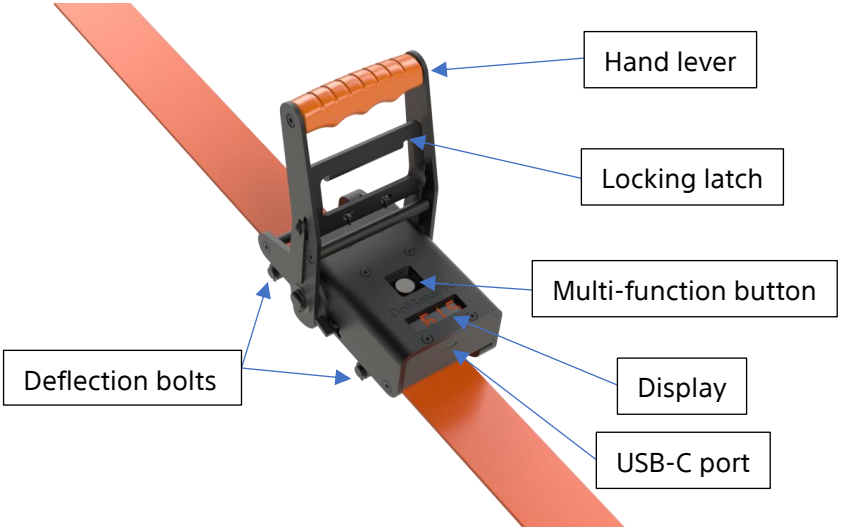


Figure 1: DoMessPro controls and display elements

3.1 Technical data

Dimensions of device	approx. 240 mm x 100 mm x 70 mm
Dimensions of packaging	291 mm x 252 mm x 100 mm
Weight (incl. packaging)	approx. 2.4 kg
Net weight of ready-to-use device	approx. 2 kg
Measuring range	100 – 1250 daN
Storage temperature	-10 °C to +60 °C
Operational temperature	0 °C to +40 °C
IP protection class	IP 54
Power source	Lithium-ion battery Capacity: 1100 mAh Nominal energy: 4.07 Wh Charging voltage: 5 V
Runtime	Standby: > 3 months Measurement data recording: > 12 h (continuous operation)
Suitable webbing types	PES-lashings; 50 mm nom. width; LC 2000 daN / 2500 daN
Accuracy of displayed values	< 7 % of measurement range

3.2 Markings on product

The following information is marked on the product

- CE marking
- Disposal instructions
- Suitable webbing width
- IP protection class
- Serialnumber (S/N)
- Capacity of built in battery
- Date of next inspection

3.3 Application-orientated product selection

The specified accuracy of DoMessPro applies only to polyester lashing straps of the brands ‘DoZurr 4000’ and ‘DoZurr 5000’ with a nominal width of 50 mm from the manufacturer Dolezych GmbH & Co. KG. With polyester lashing straps from other manufacturers, deviations in the webbing thickness may lead to deviations in the measured values.

4 Testing and maintenance

4.1 Initial commissioning

Before using the DoMessPro for the first time, it must be ensured that:

- The device has been fully charged.
- A valid inspection sticker is affixed to the type plate.

4.2 Before each use

Before any further use of the DoMessPro, it must be ensured that:

- The next inspection date on the label has not been exceeded.
- The device shows no damage or defects
  (e.g. bend deflection bolts, cracks, fractures etc.).
- there is no heavy contamination, particularly of the friction-prone mechanical components (deflection geometries, toothed discs, pawls).

4.3 Regular inspection

The DoMessPro device is factory calibrated upon delivery. In addition, it is recommended that the device be returned to the manufacturer every 2 years for recalibration. The next inspection date can be found on the inspection sticker on the underside of the device.

5 Application nodes

5.1 Requirements for valid measurement results

To ensure that the preload force values determined with DoMessPro are reliable, the following points must be taken into account:

- Only use polyester lashing straps with a nominal width of 50 mm.
- Before use, make sure that the webbing is not damaged.
- Heavily used/dirty lashing straps can lead to measurement deviations.
- Only use DoMessPro on the single-layer section of the loose end (not in the seam area, double-layer areas or belt loops).

NOTICE! The DoMessPro digital preload indicator is an indicator device. If in doubt, never rely solely on the displayed value, but question it critically.

5.2 Performing the measurement with DoMessPro

Switching on

The DoMessPro is activated by briefly pressing the multifunction button.

The current mode is then shown on the display.

Setting the mode to the desired LC (2,000 daN or 2,500 daN)

To set the desired LC, press and hold the multi-function button for 3 seconds until the desired LC is shown on the display.

While the multi-function button is held down, the display will switch between ‘2,000 daN’ and ‘2,500 daN’ every 3 seconds.

table 1: Displays on the DoMessPro

Display	Meaning
	The DoMessPro digital preload indicator is adjusted to lashings with LC = 2,000 daN.
	The DoMessPro digital preload indicator is adjusted to lashings with LC = 2,500 daN eingestellt.
	The DoMessPro digital preload indicator is ready for measurement.

After pressing the multi-functional button, the active mode will be displayed for 3 seconds.

Measurement can be performed as soon as the display shows ‚0000'.

Attaching the DoMessPro

To perform the measurement, the DoMessPro must be placed sideways on the tensioned webbing so that the webbing:

- Is single-layered and without seams,
- runs above the deflection bolts, and
- rests against the side of the device on the inside.

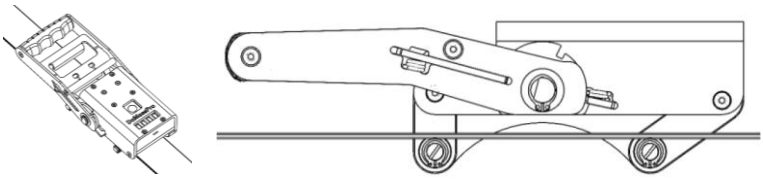


Figure 2: Correct alignment on the webbing

NOTICE! The webbing must be in contact with the inside of the device at both deflection bolts. Otherwise, measurement is not permitted!

Performing the measurement

WARNING!

Risk of crushing hands and fingers!

When operating the hand lever, skin or fingers may be crushed between moving parts.

- Wear protective gloves.

Engage the lever of the DoMessPro until you can hear a distinct click.

After a short time, the force exerted on the webbing is shown on the display.

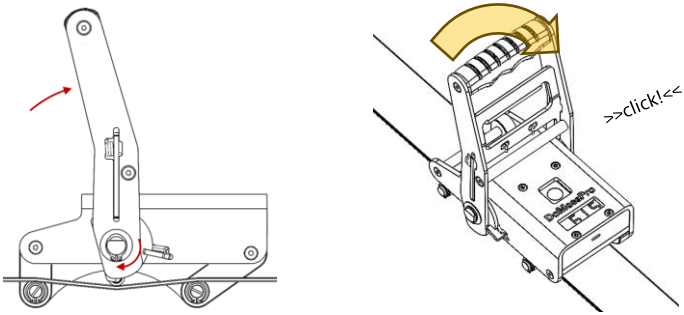


Figure 3: Performing the measurement

Ending the measurement

To end the measurement, pull the locking latch on the hand lever and move the lever back to its starting position.

Then remove the device sideways from the webbing.

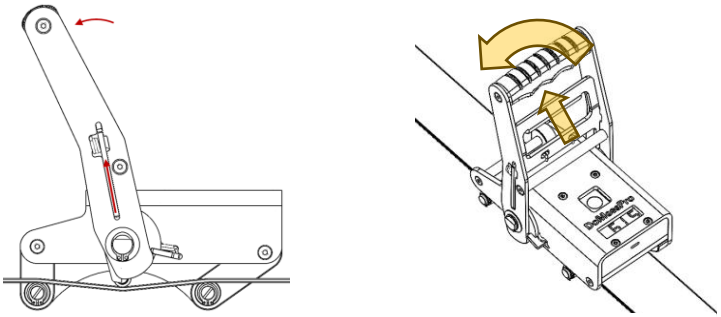


Figure 4: Ending the measurement

Switching off

The DoMessPro switches off automatically after 60 seconds without recording any measurements.

Before the next use, the DoMessPro must be switched on again by pressing the multi-function button.

5.3 Charging

The DoMessPro contains a lithium-ion battery that must be charged regularly to ensure reliable preload measurement.

NOTICE! Only charge the device when it is switched off.

As soon as the battery reaches a critical charge level, the display shows the message ‘LO’.

The battery is charged using a USB-C cable, which is plugged into the USB-C port on the front of the device.

During charging, the word ‘LOAD’ flashes on the display (after tapping the multifunction button once).

Once the device is fully charged, the display changes to ‘FULL’ and switches off after a short time. The device should always be fully charged.

NOTICE! Despite IP protection, ensure that there is no liquid in the USB port before connecting the cable.

5.4 Troubleshooting

High friction / stiff lever / stiff ratchet

In the event of high friction or a stiff lever or ratchet, a drop of precision oil may resolve the issue.

Webbing forces deviating significantly from expectations

If the displayed pretension force values deviate significantly from the expected forces, the following causes may be responsible:

1. The set mode (LC) does not match the type of strap used.
   Countermeasure:
   Set the mode that matches the LC of the strap (see p. 11).
2. The device is not correctly aligned on the webbing strap.
   Countermeasure:
   Check the alignment of the device on the webbing strap (see p. 12).

After charging, the word 'FULL' flashes on the display

Reconnect the device to a charging cable and leave it connected for at least another 30 minutes. The error should then disappear, and the device should function as usual.

5.5 Maintenance and calibration of the device

To ensure that the device continues to function properly, the mechanics of the device should be checked at regular intervals to ensure that they are running smoothly. Any areas subject to friction should be lubricated with precision engineering oil. When doing so, avoid getting oil on the elements that come into contact with the webbing (deflection bolts and deflection levers).

To ensure that the tensile force of lashing straps can be reliably checked over the long term, the DoMessPro must be calibrated by the manufacturer every 2 years. The next inspection date can be found on the round inspection sticker on the underside of the device.

6 Storage and care

6.1 Storage

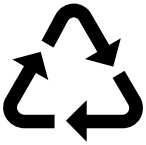
When not in use, the DoMessPro should be always stored in the transport case provided. These instructions should also be always carried in the designated pocket inside the case.

The transport case has compartments for storing a USB-C cable and a suitable power supply unit. These are not included in the scope of delivery.

6.2 Cleaning

Where possible, DoMessPro should be kept free of coarse dirt and contamination. However, if contamination does occur, the device can be wiped with damp cloth. The use of solvent-based cleaners or compressed air guns is not permitted. If necessary, the mechanically stressed areas can be lubricated with precision engineering oil after cleaning.

7 Disposal instructions



The DoMessPro is a small electrical appliance.

Products marked with the crossed-out wheelie bin symbol must not be disposed of with normal household waste at the end of their service life but must be taken to a collection point for the recycling of electrical and electronic equipment.

The symbol on the product, the operating instructions or the packaging indicates this. The materials are recyclable according to their labelling.

Help us to protect the environment and conserve resources by returning this device free of charge to the appropriate collection points or retailers. If you have any questions, please contact the organisation responsible for waste disposal or your specialist dealer.

8 Appendix

8.1 Overview of display

Display	Meaning
	The DoMessPro digital preload indicator is adjusted to lashings with LC = 2,000 daN.
	The DoMessPro digital preload indicator is adjusted to lashings with LC = 2,500 daN eingestellt.
	The DoMessPro digital preload indicator is ready for measurement.
	The charge level is low. Fully charge the DoMessPro digital preload indicator before the next use.
	The DoMessPro digital preload indicator is charging.
	The DoMessPro digital preload indicator is fully charged.

8.2 EC Declaration of Conformity

In accordance with the Low Voltage Directive (Electrical Equipment) 2014/35/EU and the EMC Directive (Electromagnetic Compatibility) 2014/30/EU

We,

CE

Dolezych GmbH & Co. KG
Hartmannstraße 8
44147 Dortmund

hereby declare the DoMessPro digital preload indicator complies with the following regulation in the standard version:

- EN 12195-1:2011-06 Load restraining on road vehicles - Safety - Part 1: Calculation of securing forces
- EN 12195-2:2000-02 Load restraint assemblies on road vehicles – Safety – Part 2: Web lashing made from man-made fibres
- EN 60529:1991 Degrees of protection provided by enclosures (IP Code) #IEC EN 60529:1991/A2:2013/AC:2019-02
- EN ISO 12100 Safety of machinery – General principles for design – Risk assessment and risk reduction
- EN IEC 61326-1:2021 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
- EN IEC 61557-12 Electrical safety in low voltage distribution systems up to 1.000 V AC and 1.500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 12: Power metering and monitoring devices
- IEC 62680-1-3:2022 Universal serial bus interfaces for data and power - Part 1-3: Common components - USB Type-C® cable and connector specification
- EN 61340-5-1:2017-07 Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements

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Dipl. Ing. Thomas Schade
(Authorised representative)

Dolezych

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