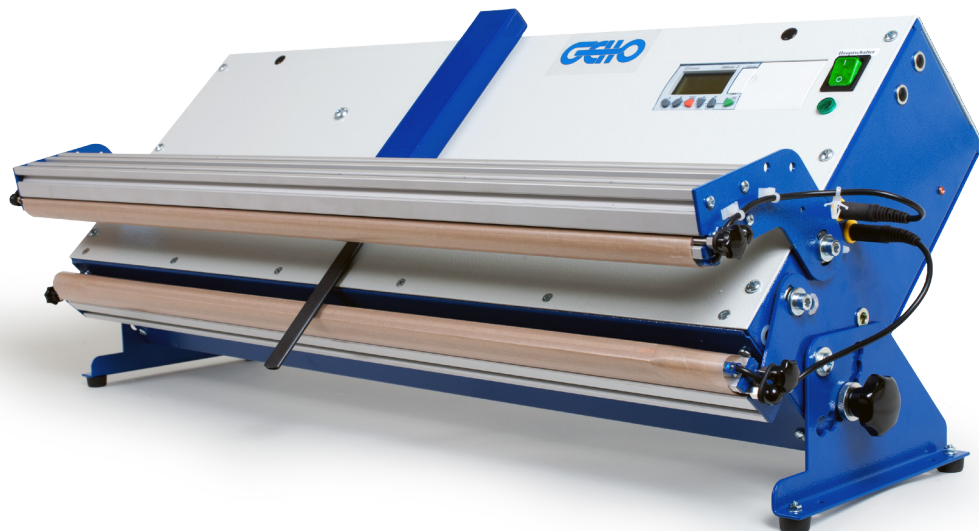


Operating instructions



GEHO TM...VD- SERIE

Thermal Impulse Sealers with air extraction



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**Important:
Keep for future use**

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Note: The device carries the CE mark, since it must be satisfied with the protection requirements and therefore put into operation.

1. Index

1. Index 3

2. Introduction 5

2.1 Basics about sealing 5

2.2 Essential characteristics of the thermal impulse sealing 5

2.3 Sealing procedure 5

2.5 TM-Series succinctly 6

2.6 Accessoires 6

2.7 Benefits 6

3. Safety 7

3.1 Turn off in emergency 7

3.2 Working safely 7

3.3 Qualified personal 7

3.4 Handling with the unit 7

3.5 Intended uses 8

3.6 Electrical connection 8

3.7 Electrical Operating Conditions 8

3.8 Service 9

3.9 Maintenance 9

3.10 Cleaning / Disposal 9

3.11 Transport / Storage 9

3.12 Ambient conditions 9

4. Installation 10

4.1 Installation 10

4.1.1 Connect the sealing system 10

4.1.2 Connect footswitch 10

4.1.3 Connect compressed air 10

4.1.4 Manufacture mains connection 10

4.2 Installation of accessories 11

4.2.1 Support table 11

4.2.2 Device skew 11

4.2.3 Table extension 11

4.2.4 Foil dispenser 12

4.2.5 Cutter 12

4.2.7 Base height adjustable and mobile 12

5. Preparing 13

5.1 Control parameters 13

5.1.1 Sealing and cooling time settings 13

5.1.2 Air extraction time 13

5.1.3 Daily counter 13

5.1.4 B-menu 14

5.1.5 Turn on extraction 14

5.1.5 Turn on extraction-stop-function 14

5.1.6 Turn on after air extraction function 14

5.3 Accessoires and special equipment 15

5.3.1 Setting the support table 15

5.3.2 Device skew 16

6. Operation 17

6.1 Trigger sealing process 17

6.1.3 Trigger sealing process 17

6.2 Working with accessoires 17

6.2.1 Working with the cutting device 17

6.2.2 Working from the film roll 18

7. Maintenance 19

7.1 Check wearing parts 19

7.1.1 Check PTFE-cover daily 19

7.1.2 Check heater band 19

7.1.3 Check separating wire 20

7.1.4 Check silicone rubber 20

7.1.5 Check blade of cutter 20

7.2 Change wear parts 21

7.2.1 Check PTFE-cover 21

7.2.2 Change heating tape 21

7.2.4 Change PTFE-pad 22

7.2.5 Change silicone rubber 22

7.2.6 Switch blade 23

7.3.2 Setting the parallelism of heating tape carrier 23

10. Schematics 24

2. introduction

2.1 Basics about sealing

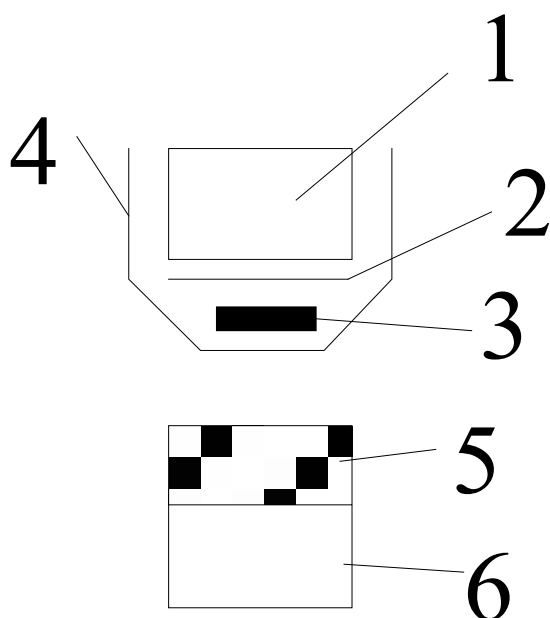
Sealing provides a fast, durable and appropriate for the material connection method thermoplastic films represent. For sealing have the films heated to flow temperature become. The various thermoplastic Different films conventional sealing processes by how produces the sealing temperature becomes.

The GEHO TM devices operate according to the heat pulse - sealing process.

2.2 Essential characteristics of the thermal impulse sealing

The essential characteristic of the heat pulse - sealing process is that the heated and welded film by the cooling time has the opportunity to solidify and thereby form a beautiful and safe seam is produced.

2.3 sealing procedure



The sealing beam (1) consists of a metal bar, an insulating layer (2) to both the electric and the thermal insulation and the heater band (3).

The cable is an electrical

Current pulse heater. The film is fluent and connects to each other under pressure. The heat generated is relatively quickly discharged from the heating band and the material to be welded through the insulating layer in the sealing bar, thus a short cooling time is guaranteed.

To sticking of the film to be sealed

To avoid the heating tape, the heating tape is covered with PTFE-glass fabric (4).

The lower sealing bar (6) is with elastic Silicone rubber (5). Advantage: Consistent pressure over the entire length of the seam.

For two-sided heating two heating strips are used. Advantage: Faster sealing time and the ability to weld stronger films.

2.5 TM-Series succinctly

The units of the TM-Series are powerful Sealers for industrial use.

You can choose between three different weld lengths:

- TM 400 series: 420 mm
- TM 600 series: 620 mm
- TM 800 series: 820 mm

The units can be equipped with various equipment (see table).

2.6 Accessories

These accessories are available:

- Cutter: smooth, with recessed, hardened blades
- Supporting table: To store the packaged goods, can be adjusted in height, complete with adjustable stop angle
- Table extension: long bags up to 450mm can be placed on the supporting table
- Foil dispenser: is placed behind the unit, with two stable support rollers for receiving a film roll
- Devices skew: for tilting the device up to 90 °
- Base: made of sturdy aluminum profiles, mobile, height-adjustable
- Piezo buzzer
- counting

2.7 Benefits

- Can be used without preheating
- Powerful
- Suitable for continuous industrial use
- Wide range of applications by extensive accessories
- Low wear and tear due to PTFE supply roll

3. Safety

3.1 off in an emergency



Warning: Turn off the unit immediately in any emergency situation.

Set the main switch to „0“ -

- The malfunction rectified by qualified personnel before restarting the unit.

3.2 Working safely



Note: Be sure to note your right notes!

A basic requirement for safe handling and trouble-free operation of the unit is a knowledge of the basic safety instructions and the safety regulations. It is important that the safety instructions are followed.

- Read the section safety instructions before installing the unit, operate, or maintain
- This operating manual, especially the safety instructions must be observed by all persons working on the device

Keep these operating instructions easily accessible for the operating and maintenance personnel of the equipment -

3.3 Qualified Personnel

Qualified personnel are here employees who because of physical and fitness, education Experience are able, can the installation, operation and maintenance of the equipment can be completed safely. Qualified personnel must be familiar with the relevant occupational safety and accident prevention regulations. The equipment operator is responsible for a high quality education and compliance with these requirements itself.

3.4 Handling the Unit

The device is according to the latest state of the art and the recognized safety rules.

The device should only be used

- For the intended use
- Was in absolutely perfect condition

Disorders that can impair safety must be rectified immediately.

3.5 Intended uses.



WARNING: If the equipment is described as the instructions used, which can lead to the immediate danger to the user and / or damage to the device and accessories

The heat pulse - sealers of the TM - Series are intended solely for sheet sealing. Can be welded almost all thermoplastic plastic films, such as Polyethylene (PE) and polypropylene (PP), and also laminate films, aluminum-coated films, and

Composite films (for example, PE / PA vacuum films). With

the both sides heated devices can e.g. coated Pappreiter and foil bags are sealed. Any other use is not treated as

humor under.

Below are some examples of improper use, which can not be responsible for injuries or property damage:

- Non-compliance with safety instructions
- Use, installation, operation or maintenance of the equipment other than described herein or performance of work by unqualified personnel
- Unauthorized changes or modifications to the equipment
- Use of inappropriate or incompatible materials, fixtures or auxiliaries or accessories
- Operating the unit with defective safety devices or not functioning safety and protective devices
- Inadequate monitoring of machine parts that are subject to wear
- Improper repairs

3.6 Electrical connection



WARNING: If the equipment is described as the instructions used, which can lead to the immediate danger to the user and / or damage to the device and accessories.

- Work on the electrical supply may only be performed by qualified personnel

Check cables, which are located outside of the device, regularly for damage -

- The power cord must not be pinched or be squeezed. It must be installed so as not to form pitfalls or it may be damaged

3.7 Electrical Operating Conditions

A voltage: continuous operating voltage 230 V \pm 10%

b Frequency: 50 Hz \pm 1% steady (briefly \pm 2%)

c voltage interruption not longer than 3ms. Between successive interruptions a time of more than 1s must be

d voltage dips: <20% of the peak voltage of the power supply within a period. Between successive slumps a time of more than 1s must be

3.8 Service



Note: Be sure to note your right notes!

Device can be operated only by qualified personnel and observe the following points:

Disconnect If the sealing time lamp does not turn off after 5 seconds, then device from the mains -.

- If device does not open, then unplug immediately

3.9 maintenance

Device can only wait by qualified personnel:

- Perform the specified adjustment, maintenance and inspection work carried out within the prescribed period
- All maintenance, inspection and repair work turn the power supply and secure against unexpected reconnection
- Use only original spare parts and consumables. Parts manufactured by others is not guaranteed that they are stress and safety requirements designed and manufactured

3:10 Cleaning / Disposal

All materials used to handle and dispose of it properly.

3:11 Transport / Storage

The device must be suitably protected to prevent damage due to vibration and moisture.

3:12 ambient conditions

A transport and storage temperatures ranging from -25 ° C to + 55 ° C. Briefly, for less than 24 hours, to 70 ° C

b Humidity: Immaculate Condition at a relative humidity of 30% to 95% (non-condensing)

c Operating temperature: between + 5 ° C and + 40 ° C Trouble-free operation

d Protection class: IP Code 20

4. Installation



Note: The appliance can be operated by qualified personnel as described only in the manual.

4.1 Installation

Remove the device from its packaging and place it on a stable surface.

Connect 4.1.1 Sealing System

Sealing systems connect: Insert the plug of the sealing system in the side of the unit attached yellow bushes.

4.1.2 Connect footswitch



Footswitch connect: The plug of the foot switch is inserted and screwed into the socket on the rear panel. The plug is twisting and therefore can only be inserted in one position.

4.1.3 Connect compressed air



Important: Use only dry compressed air

On the rear panel there is a coupling plug. The compressed air must be dry and may not exceed. Have 6 bar.

Manufacture 4.1.4 Mains connection

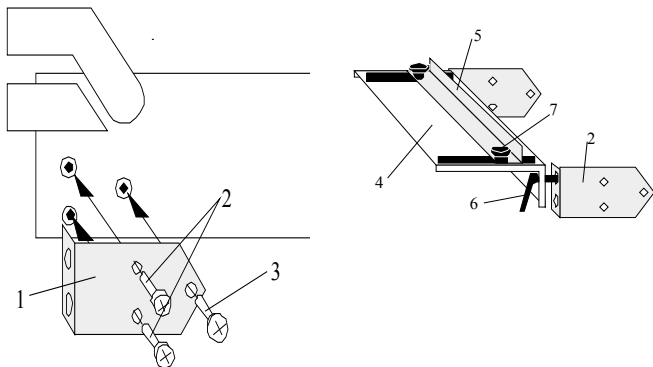
Set the power switch to „0“
Set the mains connection according to data on the nameplate ago with the supplied power cord

4.2 Installation of accessories



Important: The accessories are not included in the standard delivery and can be purchased separately from your GEHO dealer.

4.2.1 support table



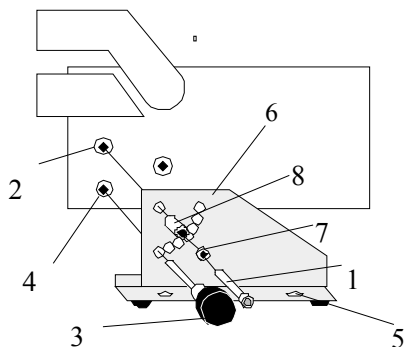
The support table is bolted to the machine:
 a desk mounts (1) with two lenses-Phillips screws (2) and a lowering Phillips screw (3) screw
 b attach supporting table (4) at the table holder (1) with two clamping levers (6)
 c mount stop bracket (5) on the table with two knobs (7) with sliding blocks

In addition, when a device skew is to be installed, please do not screw the 2 Screws (2) !!! Please proceed with section 4.2.2. This means that the table holder (1) is fastened only by its flat head screw and is then fitted with the device holder on the unit.



Note: The grip of the clamping lever can be rotated freely by pulling without the set screw rotates.

4.2.2 Device skew



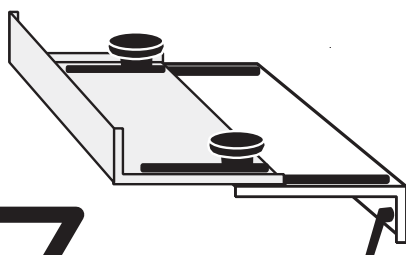
Using the device holder, the entire unit can be tilted to various positions.

a device holder (6) into thread (2) screw with Phillips screw (1), washer (7) and plastic sleeve (8)
 b notice in thread (4) With star knob screw (3). Central government, the star knob screw must engage in the recesses
 c unit holder (6) through holes (5) screw on the pad



Note: Pay attention to appropriate stability

4.2.3 Table extension



The table extension allows the creation of bags up to 450 mm.

Remove a standard stop angle
 Mount b table extension

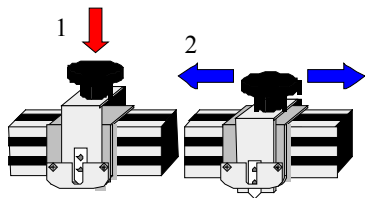


Note: Pay attention to appropriate tipping stability

4.2.4 foil dispenser

The foil dispenser is placed behind the device. The film roll is put on both idlers.

4.2.5 cutter



The cutter is firmly fitted at the factory. When ordering a separate installation instruction is included.

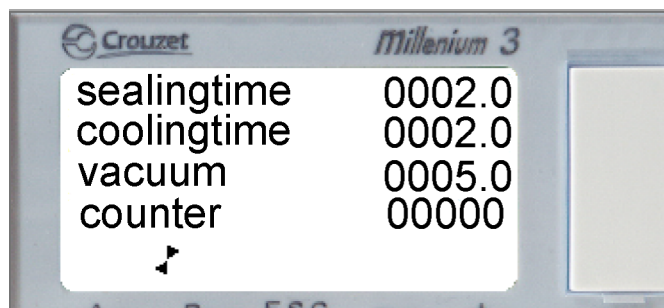
4.2.7 Base height adjustable and mobile

To this base a separate assembly instructions are included.

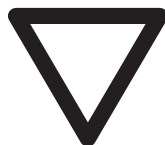
5. Preparing

5.1 Control Parameters

5.1.1 Sealing and cooling time setting



Note: always on the lowest possible sealing time setting because so heating tape and PTFEisolierung be the least wear



Note: When heating the sealing system in continuous operation, the sealing time can be reduced and the cooling time can be extended

Sealing and cooling times must using

Test welds are determined. Different film thicknesses and materials require different sealing and cooling times.

The sealing time should always be chosen as short as possible to conserve heat tape and PTFE covers. Modify the values as follows:

Turn a main switch (1)

Press button until the weld time value flashes - b „+“

c Confirm with key „O.K.“.

change button d value with „+“ - or - „-“.

Confirm e new value with „O.K.“ button. The cooling time value is modified accordingly.

The cooling time ensures a visually appealing seam because it is held in the form in the cooling process.

5.1.2 air extraction time

With this value, the air extraction time is set.

The air extraction time is based on the extraction volume, and is best determined by experiment.

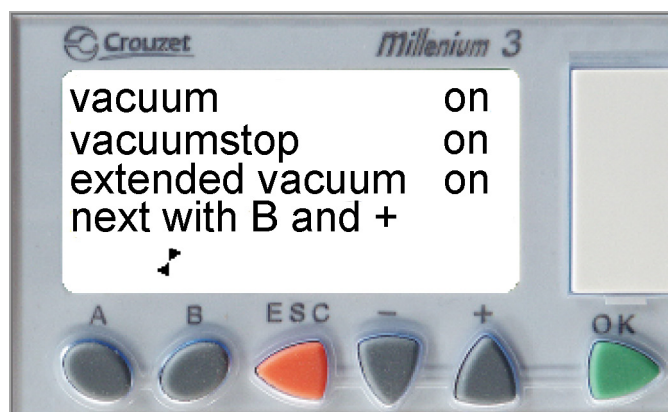
To change the value according to the above description to proceed.

5.1.3 Daily counter

The day counter counts the welds.

It can be reset by the device is turned off for at least 30 seconds.

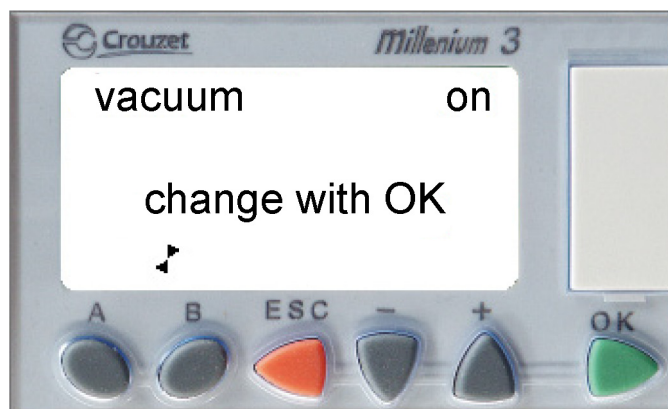
5.1.4 B-menu



Pressing the „B“ button takes you to a second menu.

This vacuuming can be controlled.

5.1.5 Turn on Extraction

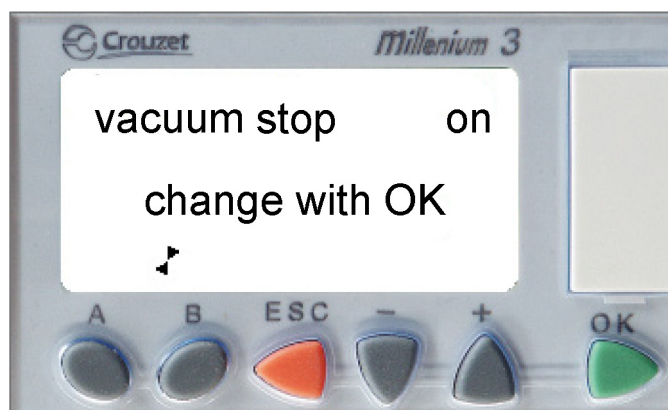


Pressing „B“ and „+“ takes you to a screen that lets you switch the exhaust or to turn off. Man changes the setting by pressing „OK“

If you turn exhaust on we retracted the proboscis.

The device can be used as a normal vacuum sealer.

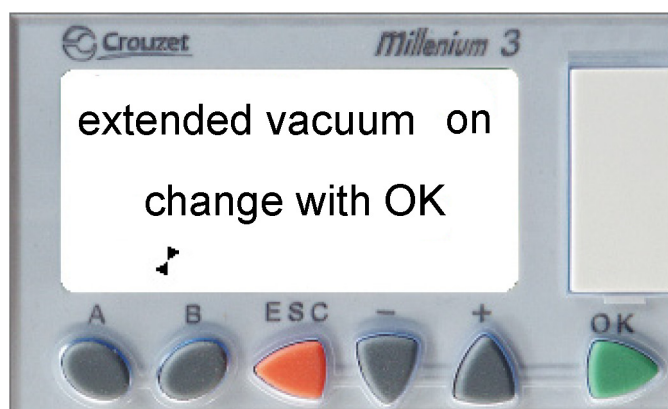
5.1.5 Turn on Extraction-stop-function



By pressing of „B“ and „+“ takes you to a screen that lets you switch the Absaugungsstoppfunktion or to turn off. Man changes the setting by pressing „OK“

When the vacuum-stop function the air extraction process can be canceled by a second time will turn on the foot switch.

5.1.6 Turn on after air extraction function



By pressing of „B“ and „+“ takes you to a screen that lets you switch the extended vacuum function or to turn off. Man changes the setting by pressing „OK“

With activated extended vacuum function is further sucked during the extraction of the proboscis therethrough. This has the disadvantage that the trunk has greater resistance when pulling out and produces more folds in the bag.

5.3 accessories and special equipment

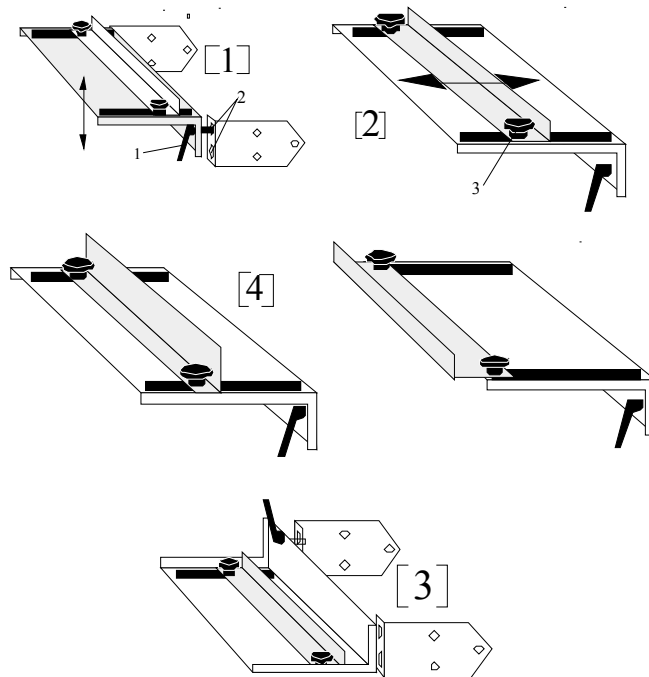


Important: The accessories are not included in the standard delivery and can be purchased separately from your GEHO dealer.

5.3.1 Setting the support table



Important: The table can be an accessory and can also be retrofitted.



The support table can be adjusted the pack height
be [1a clamping handles (1) Loosen
adjust- b support table up or down len
c tighten clamping handles

The attack angle can displayed the pack length
fits [2]:

d Loosen star knobs (3)

e move Squares

Tighten star knobs f

Of table holder has two different threads (2), both
of which can be used:

- The upper thread for flat packing goods
- The lower thread for high packing goods
- For highest packing goods, the support table be reversed (upside down) [3].
- For the laying long bag or bags, the very high Squares also be mounted upside down [4].

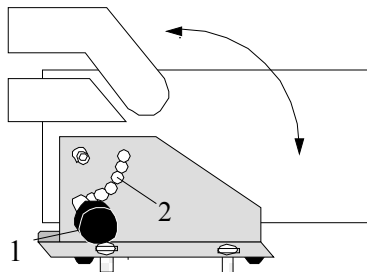


Note: The grip of the clamping lever
can be rotated freely Duch pulling
without the set screw rotates

5.3.2 Device skew



Important: The device skew is accessory and can also be retrofitted.



The device holder is used for tilting the entire device.

The unit is tilted as follows:

- a hold device well
- b star grips (1) Loosen the right and left as far until the collar of the recess (2) comes out
- c tilt unit in new position
- d fix unit with star-shaped handles (1) left and right again



Hinweis: Bund muß in die Aussparung (2) hineingreifen

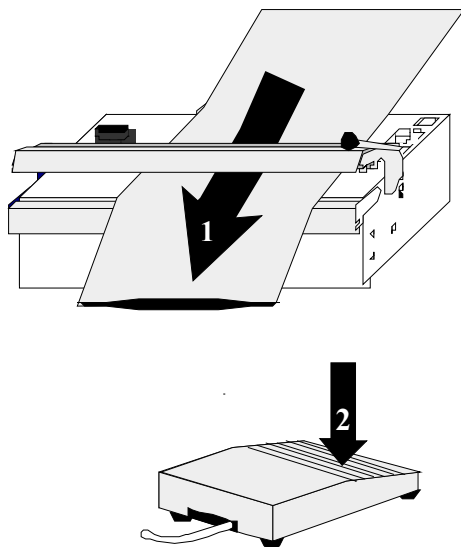
6. Operation

6.1 Trigger sealing process



Attention: All of the following activities to be carried out by qualified personnel. Safety instructions here and follow throughout the documentation.

6.1.3 Trigger sealing process



The operation is carried out after pressing the Fußdrucktaster automatically.

A evert to be welded bag over the exhaust pipe and insert between the pressure beam.

b Press footswitch (Alternatively, the sealing arm can be manually depressed) (2)

c The device sucks the set air extraction time according to the air from the bag. Thereafter, the air extraction tube is pulled out and the bag sealed. The sealing bar opens automatically after the sealing and cooling times
see d welded bags

6.2 Working with accessories

6.2.1 Working with the cutting device



Important: The cutting device is an accessory and can also be retrofitted.

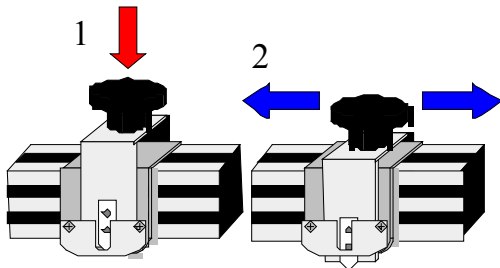
If the sealing bar is closed, the Cutting means are actuated to cut off the projecting film edge:

downloaded a knob of the cutting device

Press (1)

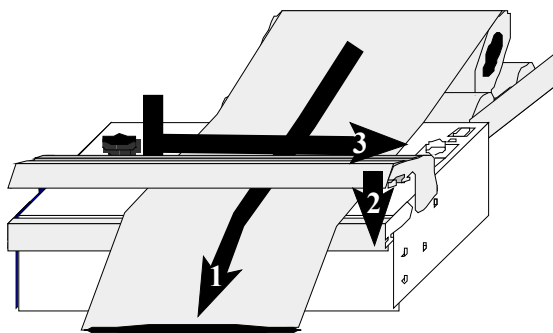
b cutter with heruntergedrücktem knob on the film pull (2)

c Release the knob again



Caution: only push down the knob of the cutting device when the sealing bar is closed. Otherwise danger of injury on the blade!

6.2.2 Working from the film roll



If you are working with a blown film film, bags can be made up to measure:

a Put the film roll on a film dispenser behind the TM device

b Pull the film as far as necessary forward [when supporting table exists, adjust the stop angle accordingly (see 5.3.1)] (1)

c weld trigger (2)

d cutter press (3)

The finished bag may now be removed.

7. maintenance



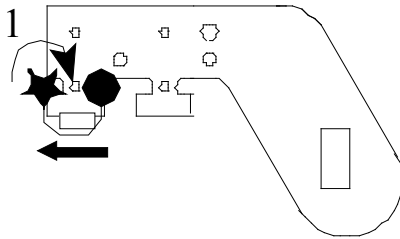
Attention: All of the following activities to be carried out by qualified personnel. Safety instructions here and follow throughout the documentation.



Important: Only use original spare and wear parts, as this may no longer be guaranteed that the device meets guidelines.

7.1 Check wearing parts

7.1.1 Check PTFE cover - daily



Check daily the state of the PTFE cover over the heating tape. In case of damage (blackening, cracks) the PTFE-axle something must be turned with the star head, so that the heating cable has fallen below an intact site:

A PTFErolle continue to rotate with star head clockwise (1)

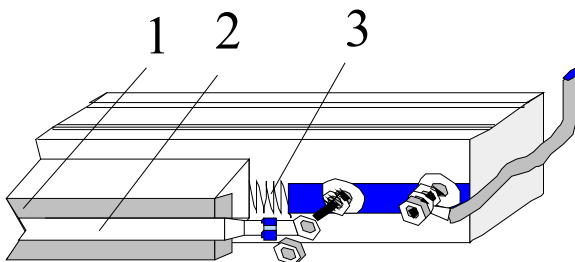


Note: For easier discoloration the place can still be used



Important: In time a new PTFE order supply roll!

7.1.2 check heater band



In case of bad welds occurrence check the condition of the heating tape:

A Unplug

Unscrew b Ball knobs of the two axes on the left

c Remove the O-ring

d PTFErollen so turn that the film is stretched between the rollers (see 7.1.1)

e PTFErollen pulled out of the Heizbandträger side

f heating cable (2) (bridge Kni-, cracks) for damage g in double-sided heated units the heater bands must lie parallel one above the other

h PTFEunterlage (1) Check and replace if damage to (see 7.2.3)

i PTFErollen reintroduce the Heizbandträger untwist j Ball knobs of the two axes on the left again

k rolling up the entire cover to the ball knob counterclockwise

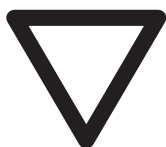
l Replace O-ring again

Tension m PTFE heating tape

Restore n Network connection

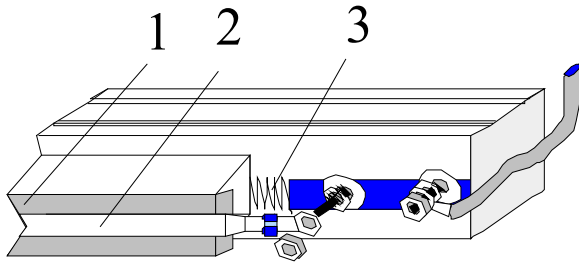


Note: the heating cable kinks impair the quality of the weld. Cracked heater bands need to be replaced



Note Pad The PTFE may be damaged under any circumstances, contact the heating tape with metal can damage the device significantly

7.1.3 Check separating wire



In poor separation seams occurrence check up a condition of the release wire:

A Unplug

b separating wire (2) (bridge Kni-, cracks) for damage

c PTFEunterlage (1) Check and replace if damage to (see 7.2.3)

Check d PTFEabdeckung silicone rubber and silicone rubber, replace if damaged (see 7.2.3)

e restore power supply

7.1.4 Check silicone rubber

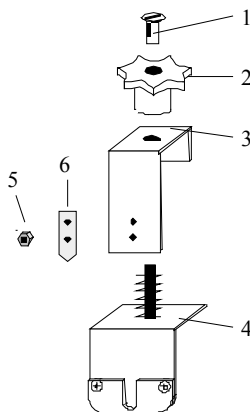
In poor sealing or separating seams occurrence check the condition of the silicone rubber:

A Unplug

b silicone rubber (lower back pressure bar) for damage (grooves, cracks, etc.) fen examine replace, if damaged

Restore C Power supply

7.1.5 Check blade of cutter



A poor cut edge occurrence, check the condition of the blade (6). The blade must be sharp. If damaged, replace it (7.2.4)

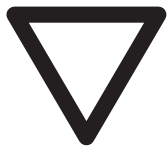
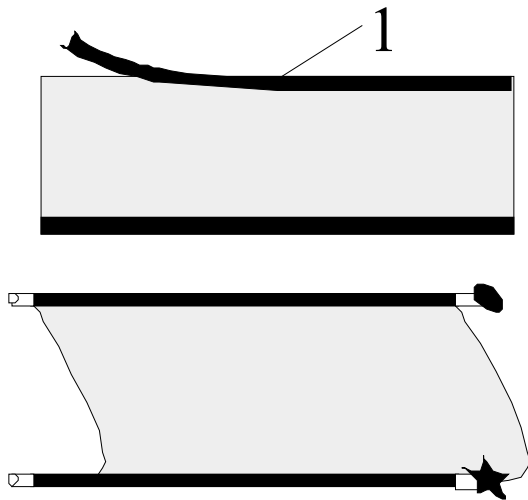


Caution: Risk of injury from blade

Vorsicht

7.2 Change wear parts

7.2.1 Change PTFE cover



Note: Pay attention to parallel alignment of the PTFE cover

PTFE is the supply roll is used up, it has to be replaced:

A Unplug

Unscrew b Ball knobs of the two axes on the left

c Remove the O-ring

d PTFE roll so turn that the film is stretched between the rollers (see 7.1.1)

Pull out e PTFE roll laterally from the Heizbandträger cautious

f solve old PTFE cover of the axes

clean g axes grease

h (remove protective foil) new PTFE cover the axes on stick (1)

i PTFE cover back tape carrier in the heating insert

untwist j Ball knobs of the two axes on the left again

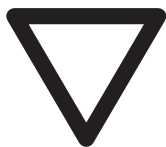
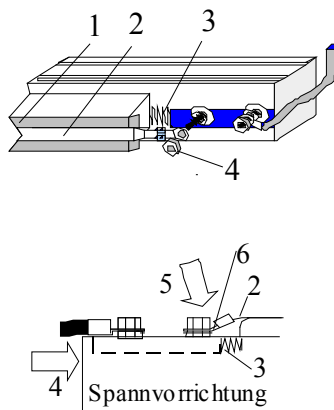
k rolling up the entire cover to the ball knob counterclockwise

l Replace O-ring again

Tension m PTFE heating tape

Restore n Network connection

7.2.2 Change heating tape



Note: Make sure that the heating tape is straight. With double-sided heated units the heater bands must lie parallel one above the other

If the heating cable is damaged (see 7.1.2), it must necessarily be replaced:

A Unplug

b PTFE roll remove (see 7.2.1)

c hex nut unscrew

d remove old heating tape (2)

e Heizbandöse (6), turn about 30 °

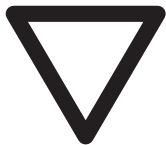
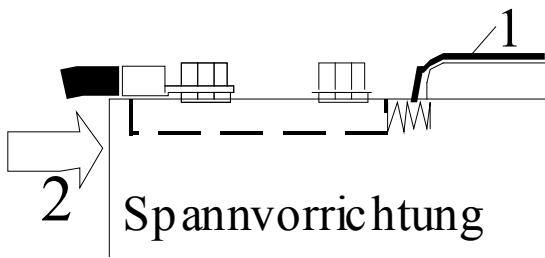
squeezing f jigs (4) and a new heating tape hook (5)

Screw g hex nut

h PTFE roll reintroduce the Heizbandträger (see 7.2.1)

Restore i network connection

7.2.4 Change PTFE pad



Note: Make sure that the heating tape or the separating wire does not come into contact with metal.

Should the PTFE his pad damaged, it must be sure to replace .:

A Unplug

b Remove PTFErolle, not with T devices

Remove c heating tape or separating wire

Remove old PTFEunterlage d (1)

e clean pad of adhesive residues

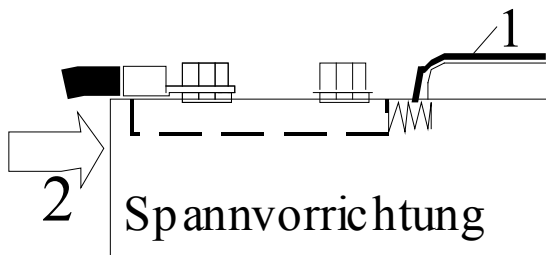
stick f new PTFEunterlage

compress g jigs and hook new heating tape or new release wire

h PTFErolle reintroduce the Heizbandträger, not with T devices

Restore i network connection

7.2.5 Change silicone rubber



Note: Ensure that the silicone rubber stays loose when gluing and is not elongated.

If the silicone rubber is damaged, it must be necessarily replaced .:

A Unplug

b Remove PTFErolle, only double-sided, heated devices

Remove c heating cable only with double-sided, heated devices

d old PTFEunterlage (1) remove, only double-sided, heated and T devices

Remove old e silicone rubber

f silicone rubber track of Kleberückstän- clean the g new silicone rubber glue (only for double-sided, heated devices, the ends cut oblique)

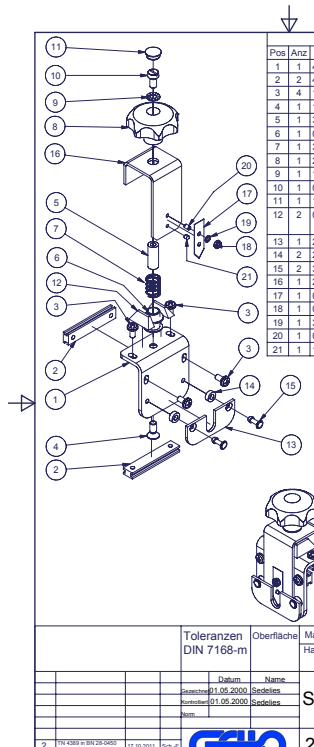
stick f new PTFEunterlage, only double-sided, heated and T devices

compress g jigs and hook new heating tape or new release wire

h PTFErolle reintroduce the Heizbandträger, not with T devices

Restore i network connection

7.2.6 switch blade



If the blade of the cutter is no longer sharp enough, it must be replaced:

a cover plug (11) from the star handle (8) remove
b Screw (10) in the star grip (8) Unscrew, pay attention to serrated lock washer (9)

c knife holder (16) gently pull upwards manufactured

d hex nut (18) unscrew, watch Schnorsicherung (19)

Replace e blade (17)

f hexagon nut (18) and Schnorsicherung (19)

Screw

g knife holder (16) Carefully insert again zen

h Screw screw (10) with serrated washer again in Sterngriff

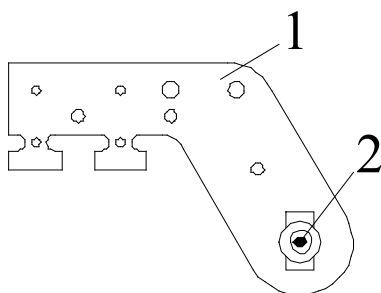
Push i Covering again



Caution: Failure to follow these instructions can result in injury.

Vorsicht

7.3.2 Setting the parallelism of Heizbandträger



If the seam on one side is worse than the other, you have to proceed as follows:

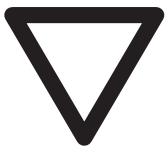
A Unplug

b Loosen the Allen screw (2) on the side of poorer seam

c slide rail holder (1) as far down until Heizbandträger again parallel are excluded

Tighten d Inbusschraube again

e restore power supply



Note: Check the connection the lifting or holding magnet setting.

10. Schematics

