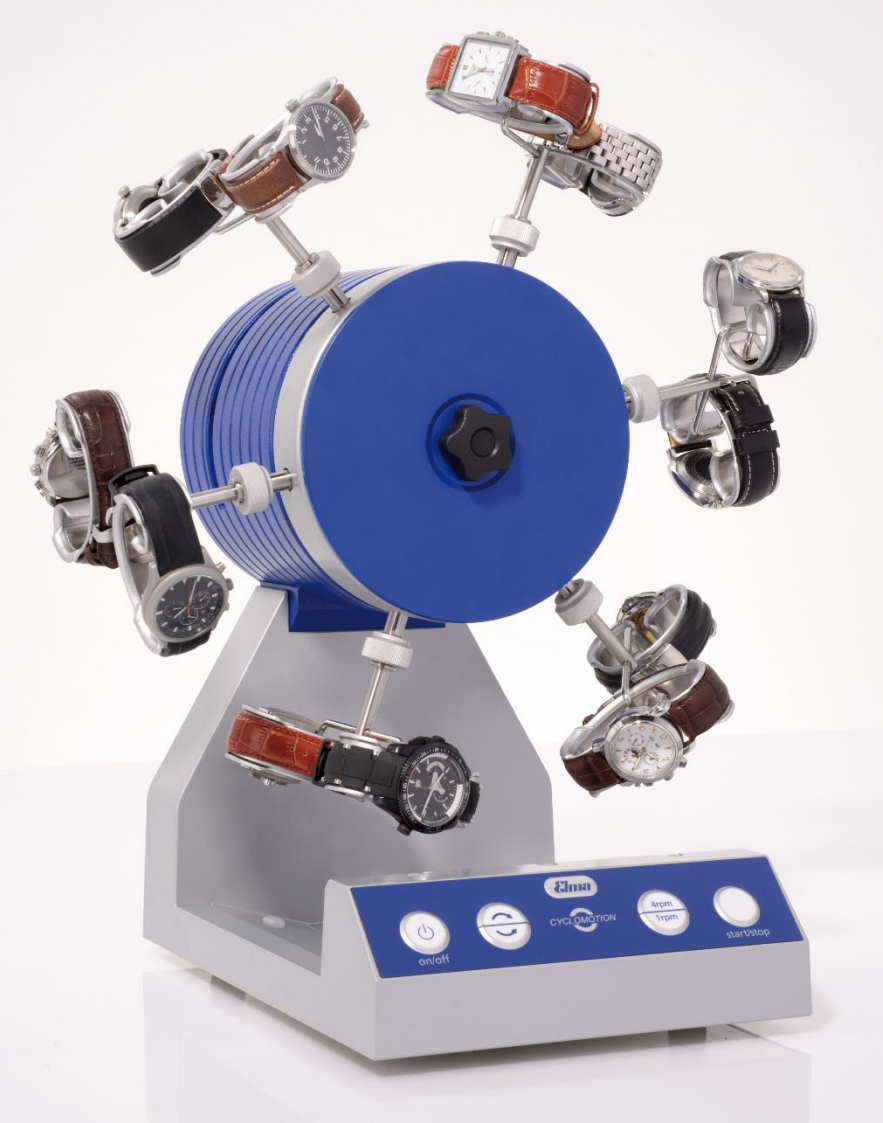
Operating Instructions

english

Cyclomotion

Watchwinder



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Content

1 General

The present operating instructions are part of the delivered equipment. They must be ready for use at any time and remain with the unit in case of resale.

We reserve the right to carry out technical modifications on the unit due to advanced development.

An operating manual cannot take account of every conceivable use. An operating manual cannot take account of every possible use. Contact your dealer or the manufacturer for further information or in the event of problems which are not covered or not sufficiently covered in this operating manual.

2 Safety warnings

Please observe any additional national safety regulations that may apply.

Exclusion of liability

The manufacturer cannot be held liable for damages on persons, equipment or watches caused by improper use.
The operator is responsible for the instruction of the operating staff.

2.1 Instructions for the use of the present manual

Symbols used in the present manual

This symbol warns of the risk of injury caused by electricity.

This symbol warns of the risk of slight injury and damage to the equipment.

This symbol marks additional information.

2.2 Instructions for the use of the unit

Intended use

The present Cyclomotion or Cyclomotion pro unit has been designed for the winding up of mechanic (automatic) watches only.

User

Operation of the unit by authorized and instructed staff only. Observe the instructions given in the present manual.

Check for transport damages

Check the Cyclomotion and the power supply unit for transport damages. In case of visible damage do not operate the unit!

Transportation

In order to move the Cyclomotion to another place hold the unit by the handle on the rear and the foot. Do not lift and carry the Cyclomotion by the acrylic glass hood.

Placement

Place the unit on a dry and solid surface. Ensure that the workplace is sufficiently ventilated and keep workplace and unit dry.
Allowed ambient temperature: +5 to +30°C.

Mains connection

For safety reasons, the present unit must be connected to a correctly grounded socket only. The technical details indicated on the nameplate must correspond with the available mains connection details, in particular those of the mains voltage and current connected value.

Prevention of electrical accidents

If the Cyclomotion and/or the mains cable are damaged do not connect the unit to the mains!

The unit must be opened by authorized and specialized staff only.

For cleaning the acrylic glass hood (Cyclomotion pro) use cleaning media that are suitable for acrylic glass surfaces and ensure that the acrylic glass hood cannot be scratched.

3 Product description

Watch winder, the „artificial wrist“ for checking and winding up automatic watches. The watch is put into any position possible when worn on the wrist.

3.1 Cyclomotion product features

- The standard unit is delivered without clips. For operating the unit, 6 clips must be ordered separately; 5 different types of clip are available.
- The Cyclomotion is available in 2 versions; individual adjustment of the bows is possible.
- Change of rotational direction is possible; also suitable for large and heavy watches (up to 200 g).
- Individual combination(s) of clips possible; this allows the simultaneous winding up of watches that are wound up in both directions and of watches that are wound up in one direction only.
- 2 different speeds available (1 or 4 rpm) for permanent winding up and for quick winding up
- Powerful, silent motor with integrated safety clutch and holding torque (in standby mode) for the perfect protection of the watches.
- Optional: lockable protecting hood protects the watches from dust and mechanical damage (Cyclomotion pro only).
- Manual, mechanical interruption of the service program possible.

3.2 CE conformity

The present Elma unit is in compliance with the CE marking criteria with reference to

- the EMC Directive 2004 / 108 / EWG (EEC)
- the Machinery Directive 2006 / 42 / EWG (EEC)

The declaration of conformity is available from the manufacturer.

3.3 Delivered equipment

- Basic unit Cyclomotion or Cyclomotion pro
- Power supply unit
- Operating instructions

3.4 Optional accessories

• „Watch clip 2“	165 – 205 mm	103 5190
• „Watch clip 4“	165 – 205 mm	103 5192
• „Watch clip 2 left / right“	165 – 205 mm	103 5359
• „Watch clip 4 left / right“	165 – 205 mm	103 5360
• „Watch clip 2“	150 – 165 mm	104 5571
• „Watch clip 4“	150 – 165 mm	104 5573
• „Watch clip 2 left / right“	150 – 165 mm	104 5566
• „Watch clip 4 left / right“	150 – 165 mm	104 5568
• “Watch box” for up to 4 watches		105 3528
• „Industrial clip 4“		103 5361
• „Wall mounting device“ for Cyclomotion		103 5701

3.5 Technical details

Mains voltage (V~)	100 - 240
Mains frequency (Hz)	50 / 60
Sense of rotation	left/right
Revolutions radial (rpm)	1 or 4
Revolutions axial (rpm)	4.5 or 18
Clip	6 (12 or 24 watches)
Cyclomotion ext. dimensions W/D/H (mm)	465/325/520
Cyclomotion pro ext. dimensions W/D/H (mm)	635/325/585
Weight Cyclomotion (kg)	11.0
Weight Cyclomotion pro (kg)	16.0
Weight of clip (kg /pce)	0.1
Load per clip (g)	max. 200
Material housing	aluminum, coated
Material protecting hood (Cyclomotion pro)	acrylic glass
Power consumption total (W)	24
Power consumption standby mode (W)	24

3.6 Functioning of the Cyclomotion

Movement

The speed of the spindle head (*fig. 3.7. G*) can be set to either 1 or 4 revolutions per minute (rpm). Due to the internal speed increase the rotating speed of the clip is 4.5 times higher. The watches are wound up either in both rotational directions or in only one rotational direction depending on the type of watch (*see figures 3.6.1. and 3.6.2.*).

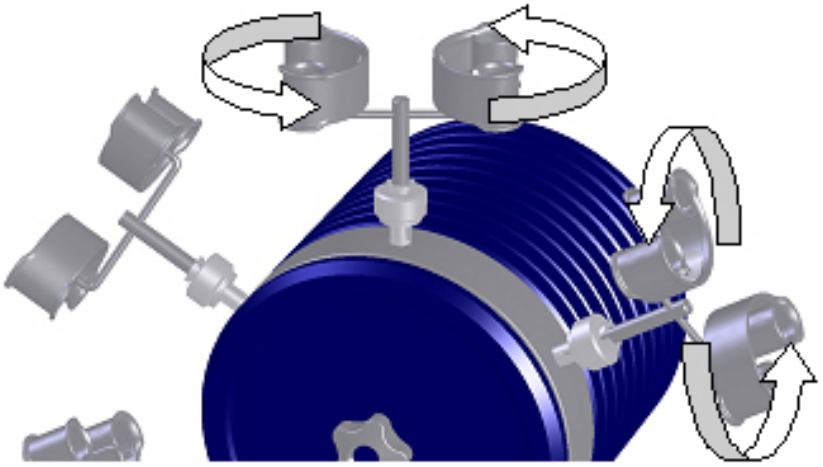


Fig. 3.6.1. Clip for watches that are wound up in either direction

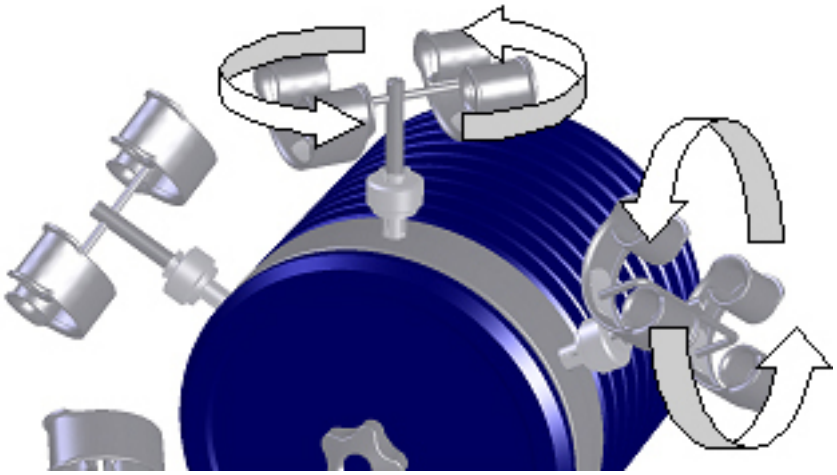


Fig. 3.6.2. Clip for watches that are wound up in one particular direction only

Sense of rotation left: only left winding

Sense of rotation right: only right winding

3.7 Front view

Fig. 3.7. front view

A Operating panel (detailed view see below)

B Mechanic disengaging screw

C Protecting hood (Cyclomotion pro only)

D Knurled screw for fastening the clips

E Lock on protecting hood (Cyclomotion pro only)

F Clip

G Spindle head

3.8 Rear view

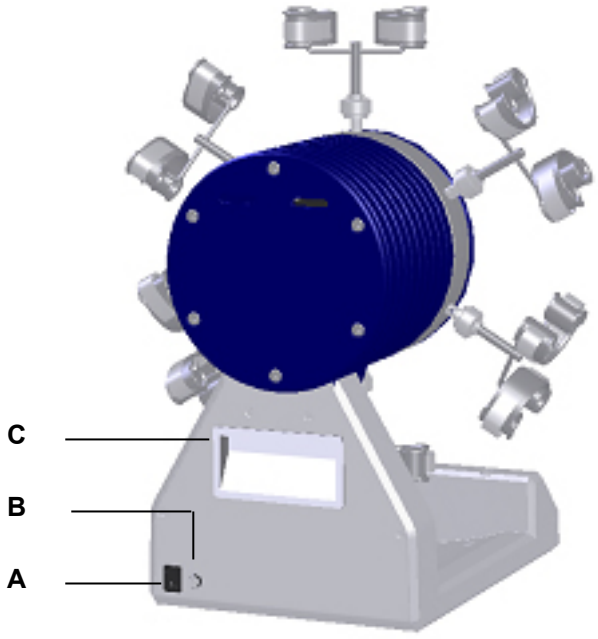


Fig. 3.8. Rear view

A Main switch

B DC socket / connection for power supply unit

C Handle

3.9 Operating panel

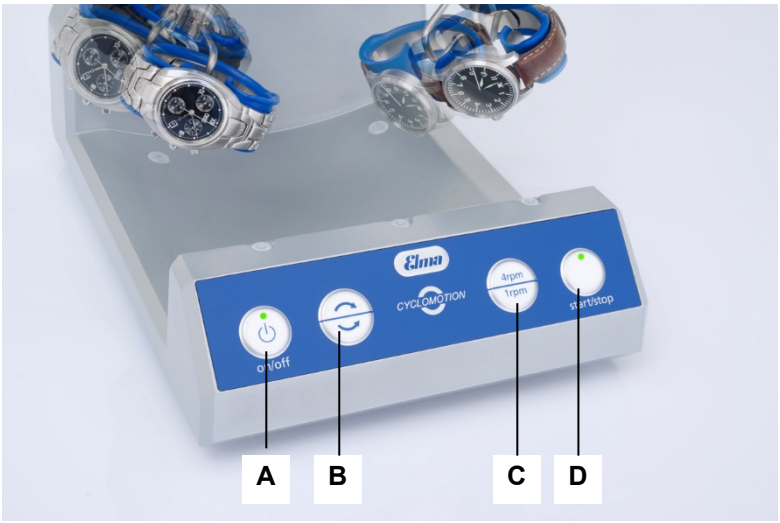


Fig. 3.9. Operating panel

A ON/OFF button

B Button for setting the sense of rotation

C Button for setting the speed

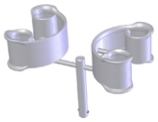
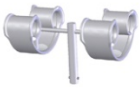
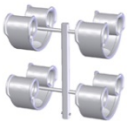
D Start/Stop button (special operation mode, see section 6: Setting of the wind-up mode)

3.10 Individual combination of clips

The Cyclomotion (pro) can be equipped with 6 clips. You can choose individual clip combinations to adjust the Cyclomotion to your personal needs. You can combine clips for various winding up modes (winding up in one or both directions) with clips for 2 or 4 watches or with industrial clips or with watch boxes.

Please observe the following description of the available clips (*see section 3.10.1*) and of the combination examples (*see section 3.10.2*).

3.10.1 Description of the clips

	**Watch clip 2** for winding in both directions; for 2 watches with straps
	**Watch clip 4** for winding in both directions; for 4 watches with straps
	**Watch clip 2 left/right** for winding in one direction (left or right depending on the watch); for 2 watches with straps
	**Watch clip 4 left/right** for winding in one direction (left or right depending on the watch); for 4 watches with straps
	**Watch box** for up to 4 watches without straps, max. Ø 43 mm
	**Industrial clip 4** for winding in both directions; for 4 watches without straps

3.10.2 Combination examples

Example 1 You want to wind up 12 watches with straps; the watches are wound in both directions. In this case you can mount e.g. 6x „watch clip 2“.

Example 2 You want to wind up 24 watches with straps; the watches are wound in one particular direction. In this case you can mont e.g. 6x „watch clip 4 left/right“.

Example 3 You want to wind up 18 watches: 14 watches are with straps; 4 watches are without straps. 10 of the 14 watches are wound in both directions, 4 watches are wound in right direction only. Equip your Cyclomotion with the „Elma Watch box“ for the 4 watches without straps; with one „watch clip 2“ and 2x with „watch clip 4“ for the 10 watches that are wound in both directions; and 2x with „watch clip 2 left/right“ for the 4 watches that are wound in right direction only. Set the sense of rotation to “right” (*see section 6*).

Example 4 You want to wind up 12 watches: 9 watches are with straps; 3 watches are without straps. 3 of the 9 watches are wound in both directions; 3 watches are wound in right direction only; 3 watches are wound in left direction only. Equip your Cyclomotion with the “Elma Watch box” for the 3 watches without straps; 2x with “watch clip 2” for the 3 watches that are wound in both directions; and with 3x “watch clip left/right” for the remaining 6 watches that are wound in one direction only. Activate the automatic change of the sense of rotation (*see section 6*) to ensure that all watches are wound up.

You can wind up watches that are wound in both directions and watches that are wound in one direction only at the same time. Ensure that you set the correct sense of rotation on your Cyclomotion (*see also section 6*).

Example 5 You would like to wind watch movements on the Cyclomotion. Clamp this
in a plastic calotte in the "industry clamp 4”

4 Before initial operation

4.1 Unpacking and placement

Packing
Please keep the original packing for possible service purposes, or dispose of it according to the relevant waste disposal regulations. You can also return the packing to the manufacturer or your supplier (charges to your account).

Check for transport damages
Check the unit for possible transport damages before initial operation. In case of visible damage do not put the unit into operation. Contact your supplier and forwarding agent.

Placement
For operation place the unit on a dry, solid and level surface.

Remove transport safety device
The watch clips are secured for transportation purposes by means of one cable strap each. Remove the cable straps before you operate the unit.

Ambient conditions
Allowed ambient temperature during operation:
+ 5 to + 30 °C.

4.2 Connection to the mains

Before connection to the mains
Check the technical data indicated on the nameplate of the Cyclomotion and ensure that they correspond with the available mains connection conditions, in particular the mains voltage.

Plug the delivered power supply unit into an earthed socket and connect the cable to the DC socket on the unit rear (*see fig. 3.8.B*).

5 Initial operation

Fix the watches/clockworks to the clips

1. Fix the watches or the clockworks to the clips. The elastic coating on the clips protects the watch cases against scratches.
2. To mount a clip with fixed watches or clockworks to the spindle head, turn the spindle head so that the empty clip support is at the top. There are two ways to do this:
   Put the main switch on the unit rear (*see fig.3.8.A)* in position **I** to switch it on and press the **on/off key** (*fig. 3.9.A*). Press the **start/stop** key (*fig. 3.9.D*) to start the Cyclomotion, let the spindle head move into the required position and press the **start/stop** key again to stop the Cyclomotion.
   Or turn the disengaging screw (*fig. 3.7.B*) to the left to separate the spindle head from the drive shaft. Now turn the spindle head into the required position by hand and retighten the disengaging screw.
   Note: The spindle head can be turned by hand even with tightened disengaging screw. In this case, you need more force to move the spindle head against the resistance. The drive mechanism will not be damaged.
3. Mount the clips with fixed watches or clockworks to the spindle head one after the other. For this, open the knurled screw of the empty clip support (see *fig. 3.7.D*), insert a clip and retighten the knurled screw. Then move the next clip support in the required position and mount the second clip, etc.
   If the knurled screws are not retightened sufficiently the clips may slip out of the supports during operation causing damage to the watches or clockworks.

Note! Ensure that the weight of the watches is distributed evenly over the complete circumference of the spindle head.

Cyclomotion pro: If you need to wind up very large watches with a diameter > 50 mm check if there is enough space between the watch(es) and the acrylic glass hood and the lock (on the Cyclomotion the foot) to prevent scratch damages on the watch(es) and or the unit. We recommend to fix large watches to the bottom position of the watch clip 4 or to a watch clip 2.

The manufacturer cannot be held liable for any damage caused on/by watches with a diameter > 50 mm.

How to switch the unit on or off

4. Put the main switch on the unit rear (*see fig. 3.8.A)* in position **I** to switch it on.
   The Cyclomotion is now in standby mode. The ON/OFF button is lighted red.
5. For a complete switch-off put the main switch into position **0**.

When the unit is switched off by the main switch, it is separated from the mains and does not consume any electricity.

Due to their own weight watches fixed to the clips may cause the spindle head to move into a final position after switch-off.

6 Setting of the wind-up mode

The unit is correctly connected to the mains as described in *Section 4.2.*; the main switch (*see fig. 3.8.A*) is switched on (standby mode). The **on/off** button (*fig. 3.9.A*) is lighted red.

Activate the operating panel

Switch on the unit at the ON/OFF button (*fig. 3.9.A)* to activate the operating panel.
The **on/off** button is now lighted green.

Start winding process

Press the **start/stop** button (*fig. 3.9.D*). Now, the **on/off** button is lighted green (*fig. 3.9.A*). The unit starts the winding process.

Stop the winding process

To stop the winding process, press the **start/stop** button again. The green light in the button turns dark.

Set the speed of rotation

You can select 2 different speeds of rotation:

4 rpm: Press the top button for setting the speed of rotation (*fig. 3.9.C).* 4 rpm is the pre-set speed on the delivered unit.

1 rpm: Press the bottom button for setting the speed of rotation (*fig. 3.9.C*).

The speed of rotation can be changed during operation. The final setting is saved when the unit is switched off.

Set the sense of rotation

There are 2 options to set the sense of rotation:

Right-hand rotation: Press the top button for setting the sense of rotation (*fig. 3.9.B).* Right-hand rotation is pre-set on the delivered unit.

Left-hand rotation: Press the bottom button for setting the sense of rotation (*fig. 3.9.B*).

The sense of rotation can be changed during operation. The final setting is saved when the unit is switched off.

Automatic change of sense of rotation

Keep the **start/stop** button pressed for 2 sec to activate the automatic change of sense of rotation: the unit starts rotating in the sense that had been activated last (right-hand rotation on a new unit); the sense of rotation changes regularly every 30 min. The button light flashes.

Both speed and sense of rotation can be changed by hand while the automatic change of sense of rotation is activated. The 30 min change cycle continues.

7 Maintenance

7.1 Maintenance of the unit

Pull the mains plug before you carry out any maintenance and care work!

Mains cable and mains connection

For reasons of safety check mains cable, power supply unit and power input socket on the unit for damage in regular intervals.

Use original accessories only.

Repair

In case of a technical fault please contact your supplier or the manufacturer of the unit.

For repair or spare parts orders please quote the serial number of the unit.

Opening of the unit by authorized specialized staff only

Repair and maintenance work that require the unit to be opened and connected to the mains must be carried out by authorized and specialized staff only.

Always separate the unit from the mains before you open it. The manufacturer cannot be held liable for any damage caused by unauthorized repair.

In case of damage contact your supplier or the manufacturer of the unit.

7.2 Cleaning of the protecting hood (Optional)*

* Cyclomotion pro only

Fig. 7.2.1 Cyclomotion pro with open protecting hood

A Mechanic disengagement screw with shaft

B Front plate

C Spindle head

Cleaning and care

To facilitate cleaning and care of the protecting hood inside, remove the spindle head with the mounted watch clips.

1. Remove all watch clips.
2. Loosen the disengagement screw (*fig. 7.2.1.A*).
3. Pull the shaft with the disengagement screw to the front as far as it will go (*fig. 7.2.1.A*).
4. Remove the front plate together with the disc springs (*fig. 7.2.1.B*).
5. Carefully take out the complete spindle head with the mounted watch clips (*fig. 7.2.1.C*).
6. Now there is more room to clean the acrylic glass of the protecting hood on the inside. Use cleaning media and wiping cloths that are compatible with the material to protect the acrylic glass surfaces against scratching.

7. Mount the spindle head. Follow the above steps in reverse order and ensure that all components are correctly assembled, in particular the disc springs.

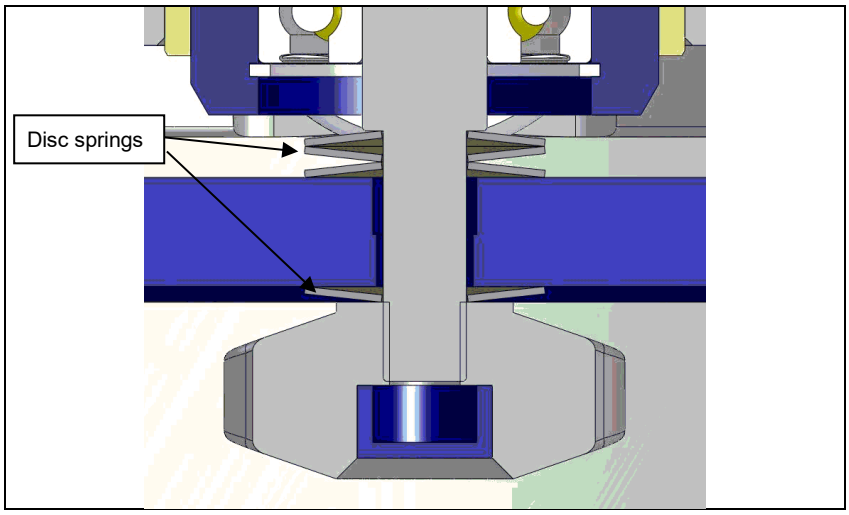


Fig. 7.2.2. Position of the disc springs

8 Putting out of action and waste disposal

The unit can be taken to metal and electronics recycling stations or returned to the manufacturer.

9 Manufacturer’s contact address

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
78224 Singen (Germany)
www.elma-ultrasonic.com

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E-Mail: support@elma-ultrasonic.com