

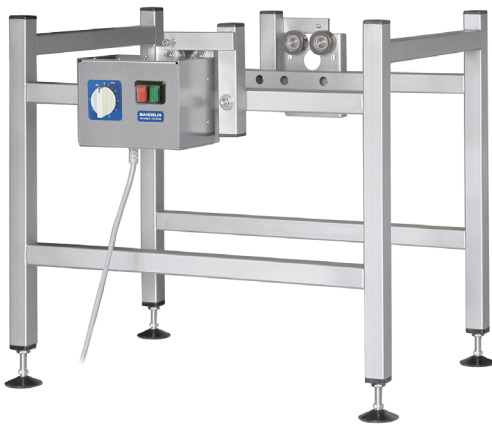


Operating manual

Translation of operating manual

SONOREX TECHNIK

Planing head holder



Example **SONOREX TECHNIK** HA 40



Example **SONOREX TECHNIK** HA 110

Valid for:

HA 40

HA 110

HA 112

HA 210

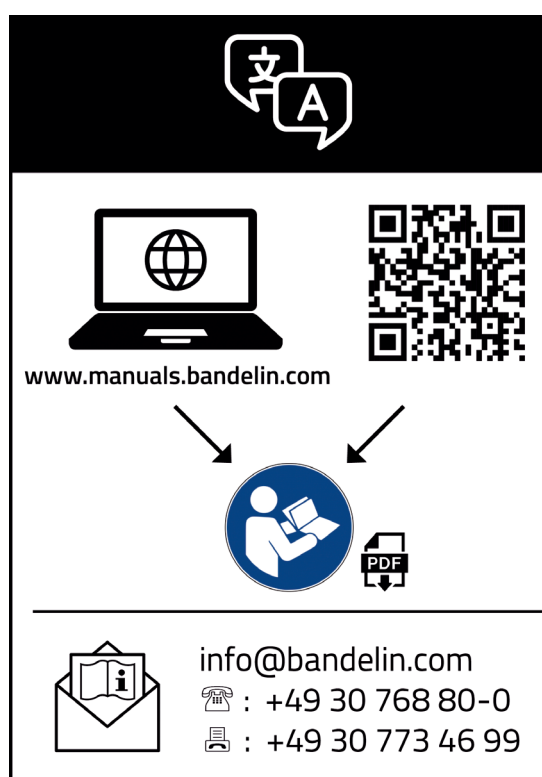


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1 About this instruction manual

This instruction manual contains both necessary and useful information for operating the device safely and efficiently.

- Read this instruction manual before using the device.
- Pay particular attention to chapter **2 Safety**.
- If you pass this device on to someone else, provide this instruction manual with it.
- Should this instruction manual leave any questions unanswered, please contact your specialist dealer or BANDELIN. Notes on service can be found in chapter **6.3 Repairs**.

In the event that the translation cannot be understood, the German original version of BANDELIN must be followed.

BANDELIN assumes no responsibility or liability for damage caused by improper handling or use.

Illustrations are exemplary and not to scale. Decorations not included with delivery.

2 Safety

2.1 Using the device

The planing head holder makes it possible to hang planing heads or saw blades in a SONOREX TECHNIK RM device. This way, they can be cleaned quickly and thoroughly with ultrasound. What's more, the risk of injury is significantly reduced compared to manual cleaning.

For cleaning, the planing heads are mounted with their shafts on guide rollers and rotated evenly by a motor. The drive is provided via the so-called friction wheel principle. The rotation optimally supports the ultrasonic cleaning process.

Existing RM ultrasound equipment can be retrofitted with a planing head holder. The following device combinations are possible, depending on the device size:

Planing head holder HA40	→	SONOREX TECHNIK RM 40 device
Planing head holder HA 110	→	SONOREX TECHNIK RM 110 device
Planing head holder HA 112	→	SONOREX TECHNIK RM 112 device
Planing head holder HA 210	→	SONOREX TECHNIK RM 210 device

The focus of application is on ultrasonic cleaning; additional processes such as rinsing are also permitted and depend on the design of the SONOREX TECHNIK RM device.

The device is controlled via rotary switches on the front. For the HA 40, the table operation is recommended; the planing head holders HA 110 to HA 210 are intended as floor-standing devices.

2.2 Keep out of reach of children

Children may not detect hazards emanating from the device. Therefore, keep the device away from children.

2.3 Risk of electric shock

The device is an electrical device. Failure to follow safety rules can result in a life-threatening electric shock.

- Never let the device become wet. Keep the surface and controls clean and dry.
- Do not rinse the device or expose it to splash water.
- Disconnect the device from the mains before any cleaning or maintenance.
- Only connect the device to a socket with an earthed protective contact that matches the protective contact of the mains connector.



WARNING

Note for unit with type E+F jack:

Combination with socket type K (especially common in Denmark) is not permitted.

- If you discover a defect in the device, unplug it immediately. Do not connect any defective device to the mains.
- Only have repairs carried out by qualified personnel or by the manufacturer. See chapter **6.3 Repairs**.
- Position the device in such a way that it is possible to disconnect the mains connection at any time without difficulty.

2.4 Interference with wireless communication

The device may interfere with other wireless communication devices in close proximity, such as:

- mobile phones;
- wi-Fi devices; and
- Bluetooth devices.

If a wireless device malfunctions, increase its distance from the device.

The device complies with the requirements for Class B devices according to EN 55011.

2.5 Safety stickers on the device

- Observe all safety stickers on the device.
- Keep the safety stickers in a readable state. Do not remove them. Replace them when they are no longer legible. Please contact our customer service for this. See chapter **6.3 Repairs**.

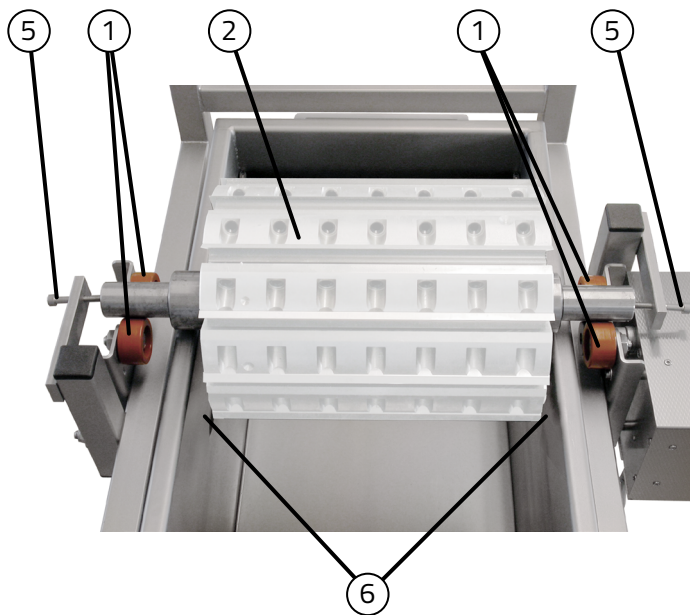
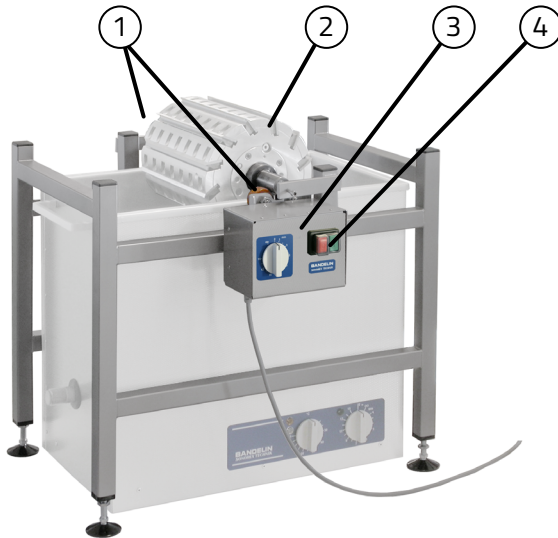
2.6 Not overloading the appliance

Observe the specified load capacity.

- The maximum load is 80 kg.
- The planing head mounts are suitable for axle diameters of at least Ø 20 mm, up to a maximum of Ø 50 mm.

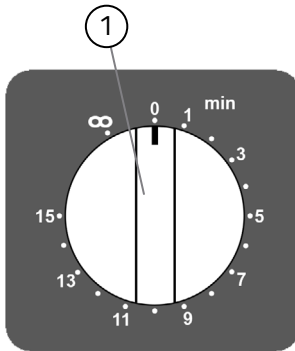
3 Construction and function

3.1 Construction



- 1 Guide rollers
- 2 Planing head with axle
- 3 Control
- 4 Undervoltage switch
- 5 Axial screw
- 6 Distance to the tank wall (no touching)

3.2 Control panel



1 Turning knob for adjusting the duration

3.3 Undervoltage switch

The device does not start automatically when first being put into service and after the mains voltage has suffered an outage. It must be released manually. To release, press the green button on the undervoltage switch.



4 Preparing for operation

4.1 Installation site requirements

The installation site of the device must meet the following conditions:

- The installation surface must be horizontal, firm and dry.
- The load-bearing capacity must be sufficient for the device together with a planing head. For weight, see chapter **8.1 Technical specifications**.

4.2 Scope of delivery

The O-rings included in the scope of delivery are to be pushed (distributed) onto the holding axle while the saw blades are being cleaned. They serve to fix the saw blades in place during the cleaning process.

4.2.1 Planing head holder HA 40

- 1 × HA 40 device
- 1 × holding axle, 1"
- 10 × O-rings (Ø30 × Ø2.5 mm)

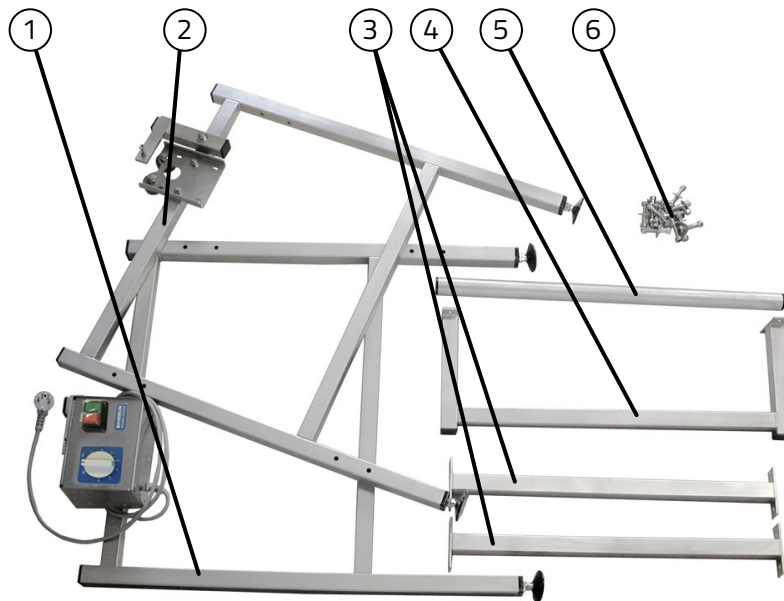
4.2.2 Planing head holder HA 110 to HA 210

- 1 × device, comprising:
 - 1 × front frame (with motor)
 - 1 × rear frame (with holder for the holding axle)
 - 2 × frame connector
 - 1 × hanger connector
 - 12 × screws, washers and nuts
- 1 × holding axle, 1"
- 10 × O-rings (Ø30 × Ø2.5 mm)

The device is supplied in a pre-assembled state.

The support must be screwed together for operation.

This requires an SW 6 hexagon socket wrench and an SW 13 (ring) spanner (not included in the scope of delivery).



- 1 Front frame (with control)
- 2 Rear frame
- 3 Hanger connector
- 4 Frame connectors
- 5 Holding axle
- 6 Screws, washers and nuts

4.3 Installation and connections

Remove transport aids (pallets, transport locks) completely.

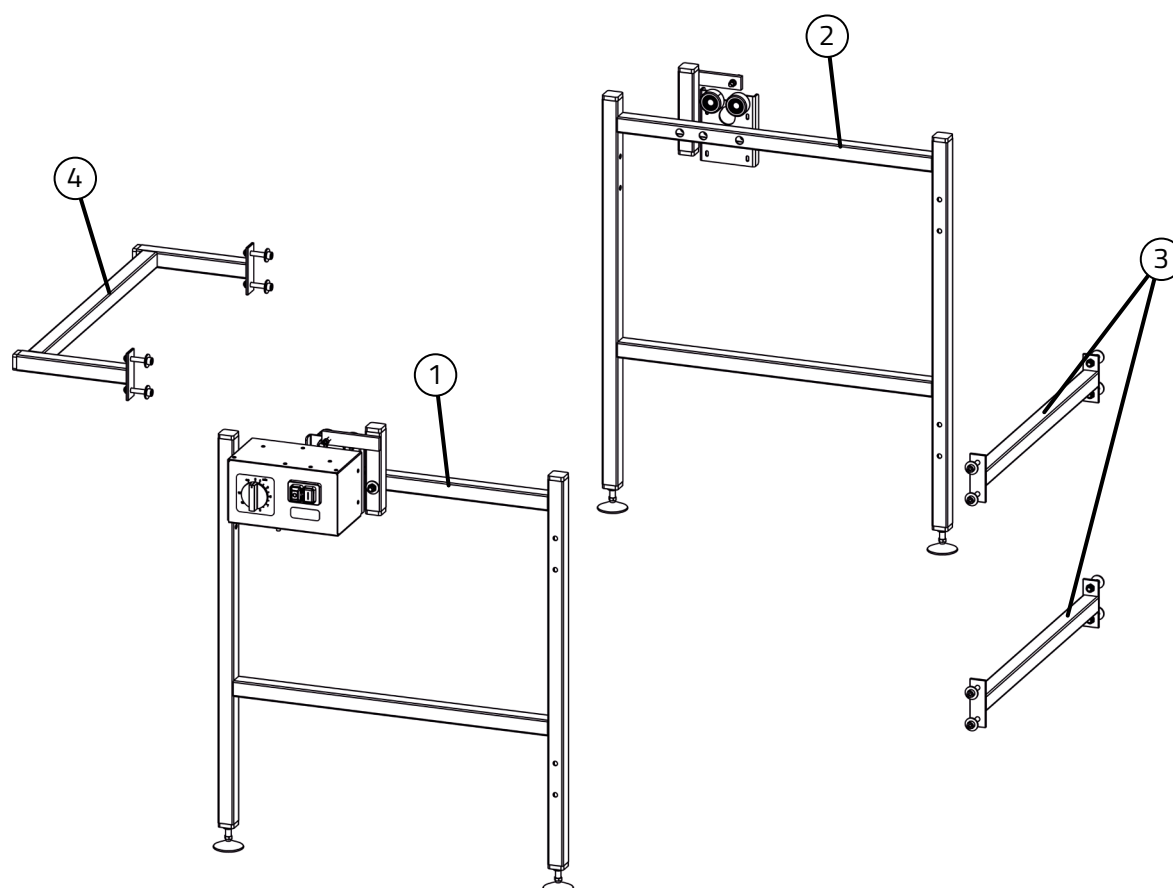
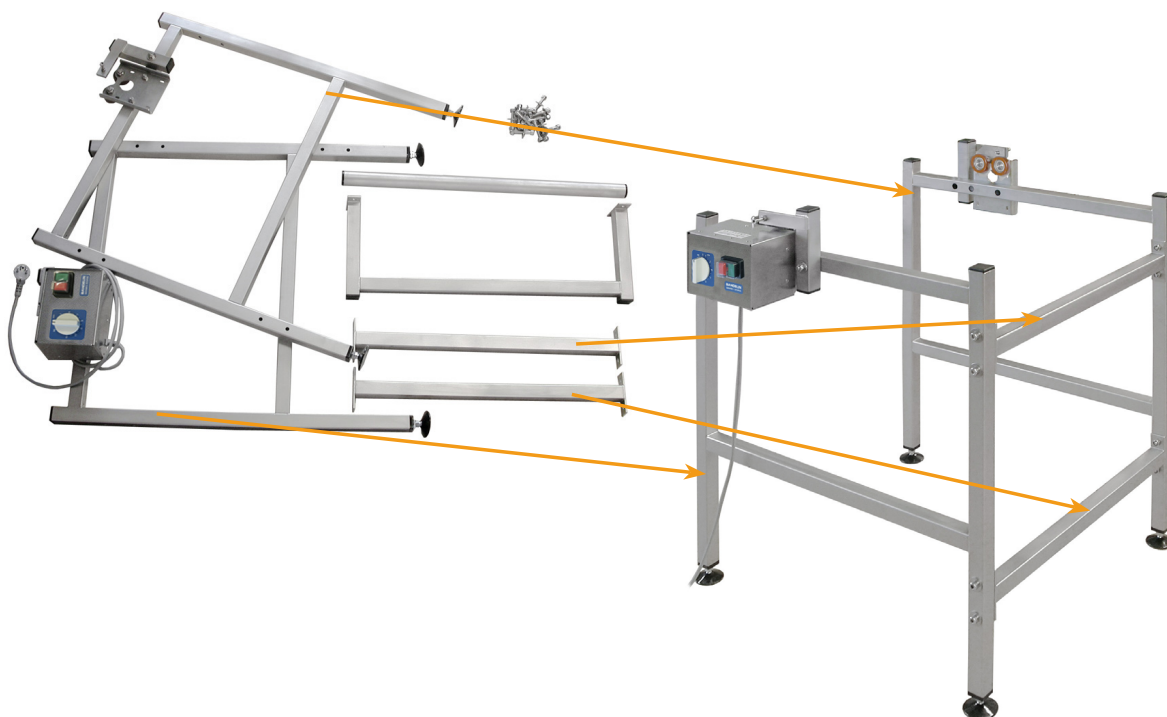
4.3.1 Planing head holder HA 40

- Place the device over the cleaning tank so that it can be operated from the front using the SONOREX TECHNIK RM device; see image.
- Check that the motor is switched off (timer to "0") and only then carry out the following:
- Connect the planing head holder to a 230 V~ 50/60 Hz earthed wall socket.
- Align the device horizontally with the height-adjustable feet. The guide rollers and the friction roller must not touch the edge of the tank!
Position the holding axle in place. Finally, check the height setting! The axle must not rest on the edge of the tank.
- Keep the device clean and dry.



4.3.2 Planing head holder HA 110 to HA 210

- Build the support: first, screw the "front frame" to the two "frame connectors" (see pictures).
- Then screw on the "rear frame" (see pictures).
- Temporarily dismantle any already installed hose connections on the SONOREX TECHNIK RM device (overflow and spray pipe).
When the RM device is filled, close the ball valve!
- Place the support around the SONOREX TECHNIK RM device (right) so that it can be operated from the front.
- Screw on the hanger connector.
- Check that all connections are firmly tightened and that the motor is switched off (timer to "0") and only then carry out the following:
- Connect the planing head holder to a 230 V~ 50/60 Hz earthed wall socket.
- Align the device horizontally with the height-adjustable feet. The guide rollers and the friction roller must not touch the edge of the tank!
Position the holding axle in place. Finally, check the height setting! The axle must not rest on the edge of the tank.
- Keep the device clean and dry.



- 1 Front frame (with control)
- 2 Rear frame
- 3 Hanger connector
- 4 Frame connectors

5 Operation

5.1 Putting into service

The supplied O-rings are for fixing saw blades in place on the holding axle. These are not required if a planing head is to be cleaned.

Requirements

- The mains plug needs to be plugged into an earthed wall socket.

Procedure

1. Fill the ultrasonic device with cleaning agent.
2. Place the planing head with the axle directly on the guide rollers. For planing heads without an axle, or when cleaning saw blades, use the supplied axle.
3. The planing head must not touch the tank wall – otherwise no rotational movement is possible.
4. The axial screws can be used to ensure that the planing head or supplied axle does not "wander" during operation.
5. Check the filling level: is the planing head immersed in the cleaning agent?
6. Only switch on the planing head holder, using the time switch, once the planing head is resting correctly on the guide rollers.
7. The axle of the planing head holder will begin to rotate. The continuous rotational movement of the planing head in the ultrasonic bath supports the cleaning effect.
8. Put the ultrasonic device (RM ... UH) into operation – see separate operating instructions.
9. Once the set time has elapsed, remove the axle with the planing head and rinse if necessary, or repeat the cleaning process if necessary.

5.2 Switching the rotational movement on and off

Requirements

- The mains plug needs to be plugged into a wall socket with an earthed safety contact.

Procedure

1. Turn the turning knob for the time switch to the desired duration or to the ∞ symbol for continuous operation.
 - » The planing head holder is switched on. The motor for the rotational movement can be heard.
 - » If the turning knob is not set to ∞ , it will move slowly in the anti-clockwise direction, indicating the remaining duration. As soon as it is at "0", the planing head holder will switch off.
2. To switch off the rotational movement, turn the turning knob for the duration to "0".



Information

- If the rotational movement does not start after the device has been switched on, the undervoltage switch must be released.
- After a power outage, the power supply is automatically interrupted. To switch the device on again, press the green button on the undervoltage switch.



Information

- You can rotate the turning knob in both directions.
- You can extend, shorten or switch off the rotational movement at any time.
- The time switch only works when the mains voltage is applied. Without mains voltage, the locking of the turning knob can barely be felt.

6 Maintenance

6.1 Servicing

The device is maintenance-free.

6.2 Cleaning and caring for the device

The guide and drive rollers must be cleaned by wiping at regular intervals (about every 4 weeks).

6.3 Repairs

During the warranty period, contact your specialist dealer or the manufacturer.
Only have repairs carried out by qualified personnel or by the manufacturer.
The manufacturer assumes no liability for unauthorised interventions on the device.



WARNING

Health hazard due to contaminated device

- Decontaminate the device before shipping if it has come into contact with hazardous substances.
-

If the device needs to be repaired, send it to the manufacturer.
Clean and decontaminate the device and the accessories before shipment.
The "Certificate of decontamination" serves the occupational safety and health of our employees in accordance with the German "Infection Protection Act" (Infektionsschutzgesetz) and the Accident Insurance Regulations (UUV) of the employers' liability insurance associations.

Before being returned for inspection/repair, the device and accessories must be cleaned in accordance with the applicable laws and regulations and, if necessary, disinfected with a surface disinfectant that is listed by the VAH (Association of Applied Hygiene).

Please understand that we can only start the work if this certificate is completed in full.

Download the "Certificate of decontamination" form here:

<https://www.bandelin.com/downloads>



Fill out the form and attach it so as to be clearly visible on the outside of the packaging. Acceptance will be refused without a completed form.

Send the unit to the following address:

BANDELIN electronic GmbH & Co. KG
Heinrichstr. 3–4
12207 Berlin
Germany

+49 30 76880-13
service@bandelin.com

7 Disposal



WARNING

Health hazard due to contaminated device

- Decontaminate the device before disposal if it has come into contact with hazardous substances.
- Also decontaminate accessories before disposal.

Dispose of the device properly as electrical waste if it can no longer be used. Do not dispose of the device in the household waste. Observe local regulations for the disposal of electrical waste.

The oscillating elements contain sintered ceramics made of lead zirconium titanate.

- EC no. 235-727-4
- CAS no. 12626-81-2



This use is permitted in accordance with RoHS Directive 2011/65/EU, Annex III, Exception 7c. I.

Dispose of accessories as metal scrap or as plastic waste according to the material used.

8 Information about the device

8.1 Technical specifications

Electrical data, general

Mains supply	230 V (± 10%) 50/60 Hz
Mains cable	2 m
Protection class	I
Degree of protection	IP 32

Type:	HA 40	HA 110	HA 112	HA 210
Rotation speed:	approx. 1 rpm			
Power consumption of the motor:	5.6 W			
Current consumption:	0.15 A			
Emission sound pressure level (A-weighted):	< 70 dB			
Material:	Stainless steel 1.4301			
External dimensions in mm (L x W x H):	715 x 615 x 545	900 x 830 x 855	900 x 905 x 855	1050 x 1100 x 855
Timer:	0–15 min and ∞			
Weight without holding axle:	20 kg	20 kg	21 kg	24 kg
Holding axle (scope of delivery):	1"			
Max. total load:	80 kg			
Usable planing heads Ø _a in mm:	280–450	280–500	280–550	280–750

8.2 Ambient conditions

Overvoltage category:	II
Degree of contamination:	2
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity up to 31 °C:	80% (non-condensing)
Permissible relative humidity up to 40 °C:	50% (non-condensing)
Altitude	< 2000 m above sea level
For indoor operation only	

8.3 CE conformity

The device meets the CE marking criteria of the European Union:

- 2006/42/EC – Machinery Directive
- 2014/30/EU – EMC Directive
- 2011/65/EU – RoHS Directive

The declaration of conformity is enclosed with the delivery.

9 Annex

Recommended preparations

The choice of one of the following concentrates will depend on the cleaning task in question and the degree of soiling.



TICKOPUR R 33 **Universal cleaner**

For light soiling. Concentrate. With corrosion protection. Gentle cleaning. Mildly alkaline, pH 9.9 (1%). Also for light metals.

Application: 5%, approx. 15 min, 60–70 °C

5-litre canister, order no. 831
10-litre canister, order no. 6023

TICKOPUR TR 13 **Intensive cleaner**

For stubborn soiling. Concentrate. Phosphate- and silicate-free. Alkaline, pH 11.9 (1%). Alkali-sensitive materials, such as light metals, tin, zinc and non-ferrous metals, can be weakened.

Application: 105%, approx. 15 min, 60–70 °C

5-litre canister, order no. 848
10-litre canister, order no. 6018

TICKOPUR KS 1 **Corrosion protection**

For all ferrous metals. Concentrate: solvent-free, for hall storage. Neutral, pH 7.4 (1%).

Application without ultrasound: 0.5%, 1 min, approx. 30 °C

2-litre bottle, order no. 6011
5-litre canister, order no. 6012

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