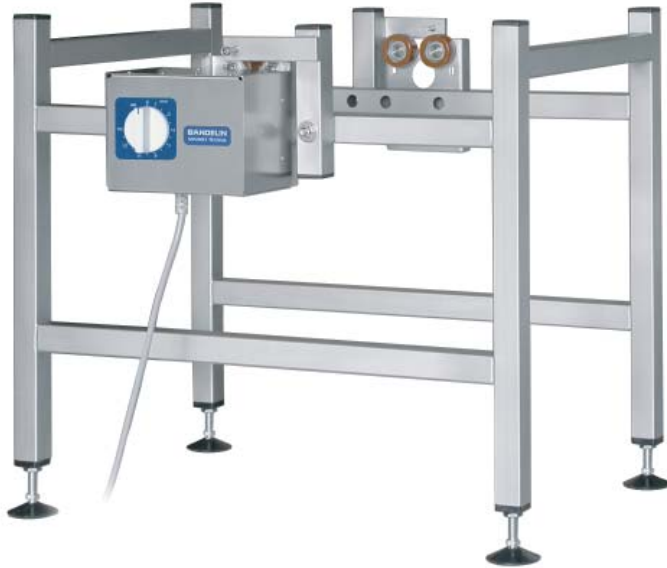


SONOREX TECHNIK

Planing head holders HA



Sample **SONOREX TECHNIK** HA 40



Sample **SONOREX TECHNIK** HA 110

The equipment, the accessories and the cleaning agents are to be used in accordance with the Operating Instructions or the product information.

Keep the unit and cleaning agents out of the reach of children and also of persons who have not been instructed in their operation by reference to these Instructions.

In the case of incorrect use, the manufacturer assumes no responsibility for the product's safety or functional ability. In the case of unauthorised alterations/modifications, the CE conformity will lapse as well.

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The documentation was prepared with great care. Liability for direct or indirect damages resulting from incomplete or erroneous information in this documentation, as well as in its delivery and usage, is excluded.

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1 Safety and operating information – observe without fail



General

- In accordance with its intended use and these Operating Instructions, the planing head holder must only be used together with a SONOREX TECHNIK RM device. Therefore, all safety precautions contained in the Operating Instructions of the SONOREX TECHNIK RM device used shall also apply.
- The unit and cleaning agents are to be kept out of the reach of children and also of persons who have not been instructed in their operation by reference to these Instructions.
- Do not expose the unit to corroding forces.
- The device should only be placed on level and dry surfaces.
- Keep the surface of the device and the operating elements clean and dry!
- Use only the connection material supplied.
- The Operating Instructions and their safety precautions must remain with the unit and must be observed without fail!
- If the unit is passed on, the Operating Instructions with the safety precautions must also be handed over.

Damage and defects

- After removing the packaging, check the housing and operating elements for any possible damage caused in transit.
If transport damage is found, do not connect the unit to the mains. Instead, report the damage immediately and in writing to the delivering shipping agent and to the supplier. Keep the original packaging.
- Pull the mains plug out immediately in the event of defects.
- In the case of defects, only authorized skilled personnel or the manufacturer may repair the unit.
- Defective parts must only be replaced with SONOREX original parts or parts of the same quality!
- Replace a defective mains cable completely.

Operation

- Loss of warranty in the case of unit damage caused by the use of unsuitable cleaning chemicals.
- Only plug the device into an outlet with a grounded socket.
- Observe the ambient conditions (chapter 8).
- Do not operate the unit without supervision.
- Do not touch moving parts during operation.
- Only insert/remove objects to be cleaned (e.g. planing head) when the unit is turned off.

2 Purpose

2.1 General description of the unit

The planing head holder allows for planing heads and saw blades to be hung inside a SONOREX TECHNIK RM device. In this manner, they can be cleaned quickly and thoroughly with ultrasound. In addition, when compared to a manual cleaning, the risk of injury is significantly reduced.

For cleaning purposes, the planing heads and their shafts are positioned on guide rollers and rotated evenly by a motor. The impulse is achieved thanks to the frictional wheel principle. The ultrasonic cleaning process is optimally supported by the rotation.

Important!

The planing head holders are suited for axle diameters of a minimum of Ø 20 mm and a maximum of Ø 50 mm.

The maximum load is 80 kg.

Existing RM ultrasound devices may be retrofitted with a planing head holder. Here, the following device combinations are possible depending on unit size:

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

The principal application is the ultrasonic cleaning. Additional processes such as rinsing are also permissible and depend on the design of the SONOREX TECHNIK RM device.

The unit is operated from the front using the rotary switch. Table-top operation is recommended for the HA 40. The planing head holders HA 110 to HA 210 are designed as floor units.

2.2 CE conformity

The planing head holder satisfies the CE marking criteria of the following European Directives:

- "Low-voltage directive"
- "Electromagnetic compatibility" directive
- "Machinery directive"

in their currently valid versions. The declaration of conformity can be requested from the manufacturer.

3 Scope of delivery

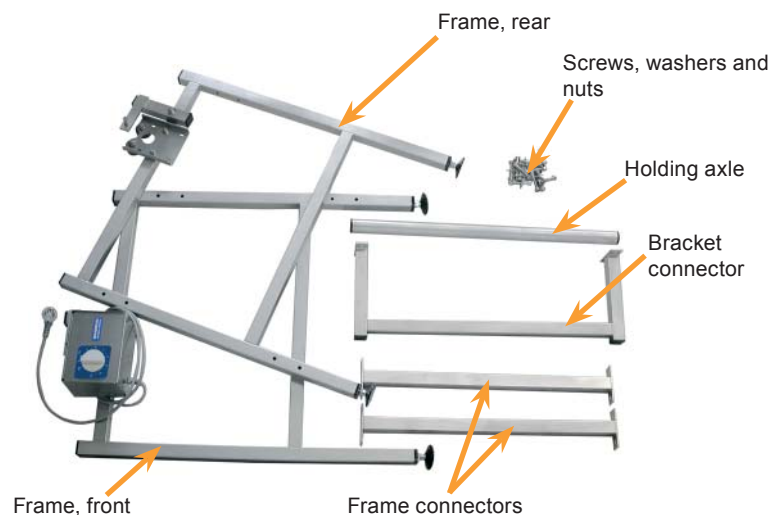
When cleaning saw blades, the O-rings included in the scope of delivery are to be slid (distributed) onto the holding axle. They are used to keep the saw blades in place during the cleaning procedure.

3.1 Planing head holder HA 40

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

3.2 Planing head holders HA 110 to HA 210

- 1 × unit consisting of:
 - 1 × frame, front (with motor)
 - 1 × frame, rear (with mount for the holding axle)
 - 2 × frame connectors
 - 1 × bracket connector
 - 12 × screws, washers and nuts
- 1 × 1" holding axle
- 10 × O-rings (Ø30 × Ø2.5 mm)



The unit is delivered in pre-assembled condition.

The frame must be screwed together for operation.

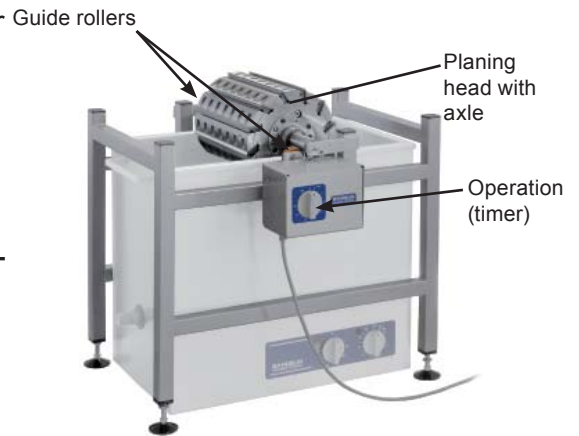
This will require an Allen key SW 6 and a ring spanner or wrench SW 13 (not part of the scope of delivery).

4 Installation and connections

- ① Fully remove transportation aids (pallets, transport safety devices).

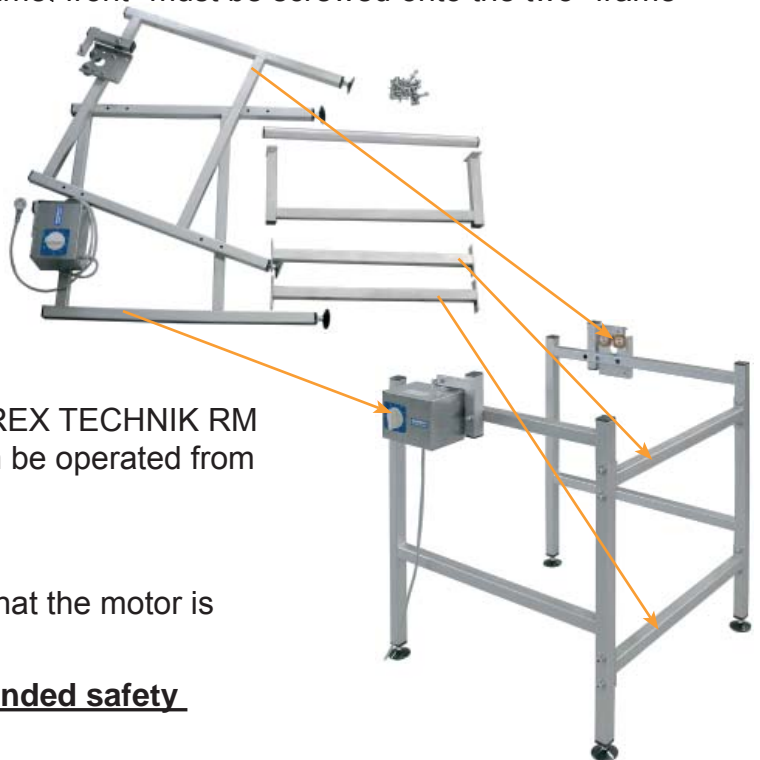
4.1 Planing head holder HA 40

- ② Place the unit over the cleaning tank in such a manner that the SONOREX TECHNIK RM device can be operated from the front, see picture.
- ③ Check that the motor is turned off (timer on "0") and only then:
- ④ Plug the planing head holder onto a **grounded safety socket 230 V~ 50/60 Hz**.
- ⑤ Level the device using the height-adjustable legs. The guide rollers and the wheel may not come into contact with the tank edge!
Place the holding axle on top. Next, check the height adjustment! The axle may not rest atop the tank edge.
- ⑥ Keep the unit clean and dry.



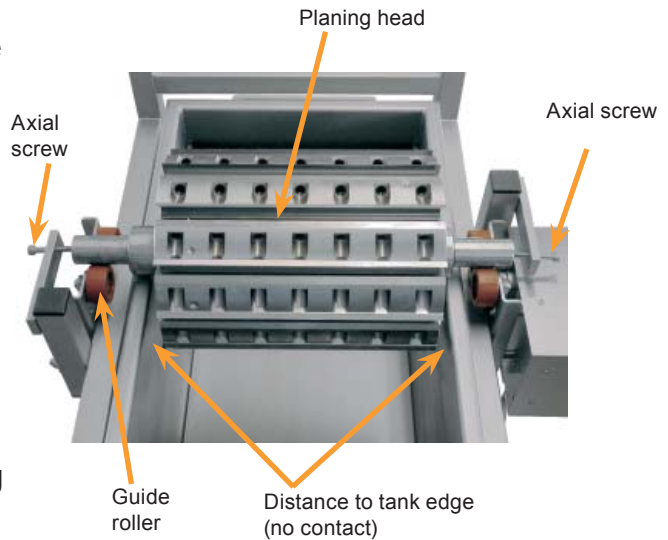
4.2 Planing head holders HA 110 to HA 210

- ② Screw/ assemble the frame: First, the "frame. front" must be screwed onto the two "frame connectors" (see pictures).
- ③ Next, screw on the "frame, rear" (see pictures).
- ④ If the hose connections are already mounted to the SONOREX TECHNIK RM device (overflow and sprinkle tube), disconnect them temporarily.
If the RM device is full, **close the ball valve!**
- ⑤ Next, place the frame around the SONOREX TECHNIK RM device (right) in such a manner that it can be operated from the front.
- ⑥ Screw on the bracket connector.
- ③ Check that all connections are tight and that the motor is turned off (timer on "0") and only then:
- ⑨ Plug the planing head holder onto a **grounded safety socket 230 V~ 50/60 Hz**.
- ⑨ Level the device using the height-adjustable legs. The guide rollers and the wheel may not come into contact with the tank edge!
Place the holding axle on top. Next, check the height adjustment! The axle may not rest atop the tank edge.
- ⑥ Keep the unit clean and dry.



5 Set-up/commissioning

- Fill the ultrasound device with cleaning liquid, see chapter 9.
- Place the planing head with axle directly atop the guide rollers. The axle included in the delivery can be used for planing heads without an axle or to clean saw blades.
- The planing head may not make contact with the tank wall – otherwise, a rotating motion will not be possible.
- The axial screws will ensure that the planing head and/or the supplied axle do not move during operation.
- Check the fill level: Is the planing head submerged in the cleaning agent?
- Switch on the planing head holder with the timer only when the planing head is correctly positioned atop the guide rollers.
- The planing head holder axle will begin to rotate. The continuous rotating motion of the planing head inside the ultrasonic bath produces the cleaning effect.
- Start up the ultrasound device (RM ... UH) – see separate Operating Instructions.
- Once the set time has elapsed, remove the axle with the planing head. If necessary, rinse it or repeat the cleaning procedure if required.



5.1 Timer

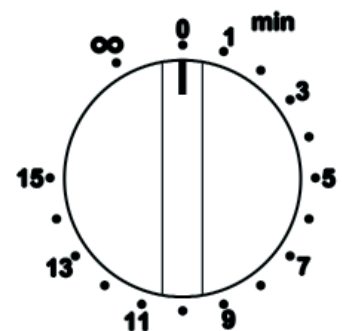
Set the planing head holder's timer to the desired time for the rotating motion.

Short-term operation

- Turn the knob to the right, to set the desired cleaning time.
- The timer switches off automatically once the time has elapsed.
- The time can be shortened or the unit switched off by turning the knob back.

Continuous operation (setting ∞)

- Turn the knob to the left and snap into place.
- The device will not turn off automatically. To switch it off, turn the knob right, back to "0".



6 Cleaning and care

The guide and drive rollers are to be wiped clean at regular intervals (approx. every 4 weeks).

7 Maintenance and repair

The planing head holder does not need to be serviced.

In the event of defects or damages, the device must not be used.
Contact the manufacturer:

BANDELIN electronic GmbH & Co. KG
Heinrichstrasse 3-4
12207 Berlin

Repair service:
Tel.: +49-30-768 80 - 13
Fax: +49-30-773 46 99

Specialist advice:
Tel.: +49-30-768 80 - 19
Fax: +49-30-773 46 99

The general delivery and payment terms of
BANDELIN electronic GmbH & Co. KG shall apply.

Caution!

Repair work may only be carried out by authorised, qualified personnel or by the manufacturer.

8 Technical data

SONOREX TECHNIK planing head holders are interference-free and $\text{C} \text{ } \text{E}$ - marked.
Compliance with DIN EN 60204-1 and adherence to the limit values according to EN 61000-6-1 and EN 61000-6-3.

Type:	HA 40	HA 110	HA 112	HA 210
Mains connection:	230 V~ 50/60 Hz			
Cable length:	2 m			
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			
Degree of protection:	IP 32			
Exterior dimensions in mm (L x W x H):	715 × 615 × 545	900 × 830 × 855	900 × 905 × 855	1050 × 1100 × 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 \varnothing_a in mm:	280 – 450	280 – 500	280 – 550	280 – 750
Order No.:	8494	8496	8497	8498

Ambient conditions according to EN 61 010-1 (IEC 1010-1)

Degree of contamination: 1 according to IEC 60664-1:11.02

Overvoltage category: II

Permissible relative humidity up to 31 °C : 80 %

Permissible relative humidity up to 40 °C : 50 %

Permissible ambient temperature: 5 to 40 °C

No condensation allowed.

9 Recommendations for cleaning agents

In order to achieve optimal cleaning success, suitable cleaning agents are key factors alongside the cleaning technique. Cleaning agents from the **DR. H. STAMM** GmbH company (certified pursuant to EN ISO 9001:2000 and EN ISO 13485:2003) are used in the ultrasonic bath. Experience gathered from the most diverse areas of application has been integrated when formulating the preparations. **TICKOPUR** preparations support the ultrasound and are gentle on the tools and ultrasonic oscillating tank. The tensides contained therein are biodegradable pursuant to the Detergents Directive (EC 648/2004).

They are used worldwide and have been proven and tested a million times over.

The best cleaning results can be achieved, dependent upon cleaning task, using the following **TICKOPUR** preparations.

Contamination	Objects to be cleaned	Cleaning concentrate	Litre	Order No.
Special cleaner, demulsifying				
Gumming, coking residues, soot, oils, grease, waxes, pigments, coatings, and drilling, grinding, polishing and lapping residues, etc.	Steel, stainless steel, glass, ceramics, plastic, rubber.	TICKOPUR TR 13 Intensive cleaner, demulsifying against stubborn residue, free of phosphates and silicates, alkaline, pH 11.9 (1 %) Use 0.1-10 %	2 l	872
	Not for light alloys, tin, zinc.		5 l	848
	Non-ferrous heavy metals may become corroded.		25 l	850
				200 l
Universal cleaner				
General contamination, drilling, grinding, polishing and lapping residues, oil- and grease-based residues, soot, ink, etc.	Metal, glass, ceramics, plastic, rubber, windows, goggles, E-filters, respiratory masks (EXAM certificate No.: 5734/06) etc.	TICKOPUR R 33 Universal cleaner with corrosion protection for Service, Industry, Technology and Laboratories, gentle to material, mildly alkaline, pH 9.9 (1%) Use 1-5 %	2 l	883
	Caution with tin and zinc.		5 l	831
			25 l	835
			200 l	837

All TICKOPUR preparations may be used with submersion and wiping procedures.

If Service is required, please contact your specialist dealer or write us to the address specified.

BANDELIN

www.bandelin.com
info@bandelin.com

Ultrasound since 1955

Certification
EN ISO 9001:2008 • EN ISO 13485:2012

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