Operating instructions

Workstation L
Workstation XL Pro
Workstation XXL
Workstation XXL Pro

Translated from German version

[EN]
2026-01-13
Version 17

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CONTENT

1 Foreword

Thank you for choosing the workstation series from REUTER GmbH & Co. KG.
This instruction manual is intended to explain the safe handling and operation of the workstation.
The user is provided with practical tips and adjustment aids to avoid operating errors.
Your specialist dealer will be happy to support and advise you on commissioning, application or problems.
Our telephone hotline +49(0)211-17177456 is always available to provide you with competent advice.
Please read this instruction manual carefully before using it.
We wish you a lot of fun and successful work with our devices.

1.1 Validity of these operating instructions

This operating manual applies to the following work tables:

- EP-06-020 Workstation L - 1200x800x1000mm
- EP-06-015 Workstation XL Pro 230V - 1200x800x2000mm (with arm)
- EP-06-025 Workstation XL Pro 400V - 1200x800x2000mm (with arm)
- EP-06-035 Workstation XXL- 2000x800x1000mm
- EP-06-035 Workstation XXL Pro- 2000x800x2000mm (with arm)

Type-specific differences are marked and described accordingly.

1.2 Target group of this operating manual

This operating manual is intended for the operator and the operating personnel of the workstation.
Before using the "workstation", familiarize yourself with the contents of this operating manual. This allows you to achieve better work results and work safely.
If you have any difficulties or uncertainties, please contact our customer service team who will be happy to help you.
We reserve the right to make technical changes that contribute to the improvement of our components.

1.3 Compliance with the operating instructions

This operating manual is part of the workstation.
The applicable detailed operating instructions for the devices and components are available on our homepage under the "Download" menu.

The operating instructions must be available to the operating personnel at all times.

The operating instructions must be read by the operating personnel before commissioning.

The operating personnel must have understood the content of the operating instructions before commissioning.

If the "workstation" is passed on or resold, all operating instructions and documentation belonging to the system must be handed over to the new owner.

1.4 EC and VDE Directives

The electrochemical processing equipment complies with the CE certificate of conformity:

- 2014/35/EU Low Voltage Directive
- 2014/30/EU EMC Directive
- 2011/65/EU RoHS Directive

1.5 Accident prevention (UVV)

- **Hazards can occur due to:**
  - Electricity
  - Pollutants
  - Gases
  - Electrolytes
  - Carelessness
- Read our safety data sheets on the electrolytes we use.
- Observe the hazard warnings.
- Please note the following UVV regulations and information:
  - DGUV 1 Principles of Prevention
  - DGUV 3 Electrical systems and equipment
  - DGUV 4 Electrical systems and equipment
  - DGUV 6 Occupational health care
  - DGUV 9 signage Safety and occupational health and safety at the workplace
  - DGUV 209-074 Industrial robot
  - DGUV 109-602 Industry: Electroplating
  - DGUV 209-009 Galvanize
  - DGUV 209-073 Workplace Ventilation-Decision Support for operational practice
  - DGUV 204-007 First Aid Manual
  - DGUV 204-022 First aid in the company
  - DGUV 251-003 Modern occupational health and safety
  - SDS's Safety Data Sheets
  - ChemG Substances Law on Protection against Hazardous (Chemicals Act)
- TRGS528 Technical Rules for Hazardous Substances

Hint

As of 1.05.2014, all UVV regulations and regulations have been renumbered and named.
Abbreviations such as: BGV/GUV-V, BGR/GUV-R, BGI/GUV-I/BGG/GUV-G or GUV-SI will then no longer exist.
The fonts are divided into four categories.

- DGUV regulations
- DGUV Rules
- DGUV Information
- DGUV Principles

Detailed information can be found e.g. Under www.dguv.de

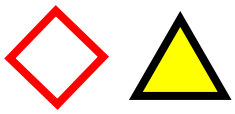
2 For your safety

Read these operating instructions carefully. The following chapter explains the pictograms used in this operating manual.

2.1 Convention

2.1.1 Pictograms

The pictograms used in this instruction manual have the following meanings:

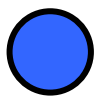


Warning sign

- Indications of possible dangers when handling the device and accessories.
- Warning signs are indicated by:
  - a yellow triangle with a black border
  - or white square with a red border
  - and a symbol in the middle, which is indicates a special dangerous situation.

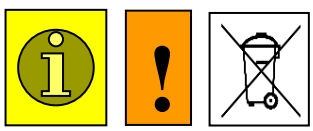
Prohibition signs

- Indications of prohibitions in the use of the device and accessories
- Warning signs are marked by:
  - a white circular area with a red border
  - and a symbol in the middle indicating a special prohibition.



Mandatory signs

- Indications of the use of protective equipment.
- Mandatory signs are characterized by:
  - a blue circle area with a thin black border
  - and a symbol in the middle, which indicates a special commandment, e.g.: Wear protective clothing.



Sentinel

- Notes on sections of this operating manual that should be particularly observed.

2.1.2 Types of display

The normal descriptions in the operating instructions are displayed in the standard font size "Arial".

- Special safety instructions to be observed are shown as in the following example:

Security:
Here is the corresponding text...

- Tips that make it easier to work or handle the device or accessories are shown as shown in the following example:

Tip:
Here is the corresponding text...

2.1.3 Warning sign

- Electromagnetic Field Warning

- Hot surface warning

- Explosive Substance Warning

- Warning of harmful substances

- Warning of dangerous electrical voltage

- Warning of dangers to life and limb

- "Attention" warning of corrosive chemicals

- Risk of crushing

- Warning of flammable substances

2.1.4 Mandatory signs

- Use eye protection

- Use protective gloves

- Use protective clothing

- Unplug before opening

- Safety shoes

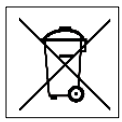
2.1.5 Prohibition signs

- Prohibition for people with pacemakers

2.1.6 Note Sign

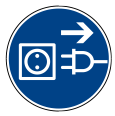
- Indication of general sources of danger.
  Be sure to read this section

- Reference to tips or important information about working with the workstation and accessories.
  Be sure to read this section!



- Disposal of old electrical and electronic equipment (valid in the European Union and other European countries with a separate collection system).
- This symbol on the product or on the packaging means:
  - This product must not be treated as household waste.
  - This product must be disposed of properly.

2.2 Safety measures in the event of a malfunction



- Turn off the workstation immediately.
- Unplug it.

- Secure and mark the "system" against restarting.
  - Restore the full functionality of the system after each repair.
  - Inspect cables for damage.
  - Check all safety devices for function.

- If electrolyte fluid gets into the eyes:
  - rinse your eyes immediately with plenty of water.
  - consult an ophthalmologist immediately.

- Secure heated workpieces from unauthorized access

2.2.1 Safety-relevant environmental conditions

- **The use of the workstation is:**
  - ➢ limited to closed industrial and commercial areas.
  - ➢ expressly prohibited in fire and explosive environments.
  - ➢ expressly prohibited in humid environments
- **Cover stone and concrete floors well**.
  - ➢ Acids react with alkaline soil coverings such as:

    Granite
    Marble
    Limestone sandstone
    Stoneware
    Tile
    Screed
    ...

  - ➢ Wash off electrolyte splashes or stains immediately with plenty of water and/or Neutralyt/Pre & Post.
- **The process to be used (electrochemical weld cleaning) must:**
  - ➢ can only be operated in well-ventilated rooms.

- Chlorine-containing solvents must be removed from the work area.

- Electrochemical cleaning/polishing can produce harmful fumes due to chemical reactions.
  - ➢ Always work with the suction device on

- Procedures that result in flying sparks must not be carried out on the extraction table or nearby.
  - ➢ Particles could be sucked in and set the filter on fire.

Security
The operator is obliged to ensure sufficient ventilation of the work area

2.3 Possible sources of danger and protective measures

2.3.1 Possible sources of danger

- Improper handling of the workstation and its components.
- Awkward position of the cleaning electrode or handle on the workpiece or work surface:
  - ➢ The electrode or felt or carbon fiber brush is in contact with the metal surface.
  - ➢ In this case, electricity continues to flow.
- If the components are connected incorrectly, vagrant currents can lead to the destruction of electrical protective conductors.
  - ➢ Defective live cables.
  - ➢ Damaged or defective switching elements.
  - ➢ Defective connectors.
  - ➢ Non-existent or damaged PTFE insulation

- Do not use protective clothing
  - ➢ Goggles
  - ➢ Apron or jumpsuit
  - ➢ Gloves.

- The carbon fiber brush, the electrode and the workpiece can get about 200°C hot.
  Risk of burns!

- Improper handling of chemicals.
  - ➢ Electrolyte splashes can cause eye burns.
  - ➢ Splattered electrolyte fluid can stain stone floors or other surfaces

- Electromagnetic fields can influence pacemakers.

- Squeeze:
  - ➢ on the doors
  - ➢ when moving the table up and down
  - ➢ when the canopy is folded down

- Carrying out work near the extraction table that generates flying sparks.

2.3.2 Protective measures

- Use of third-party devices on/on the workstation
  - ➢ Never use third-party devices at/on the workstation that is not connected to our intended electrical protection device.

- Repairs to electrical parts of the workstation or to power supply lines may only be carried out by qualified qualified electricians.
  - ➢ Have the workstation checked immediately by a qualified electrician after a short circuit or malfunction.
  - ➢ Use the workstation and accessories only as intended.
  - ➢ Only operate the workstation in the designated work environment.

- Avoid vagabond currents.
  - ➢ Connect the ground cable directly to the workpiece or to the receptacle provided for the workpiece.
- Place the cleaning electrode/handle on the workpiece or work surface as follows:
  - ➢ that the electrode, felt or carbon fiber brush is not in contact with the metal surface.
  - ➢ otherwise, electricity will continue to flow, which can lead to damage or hazards.

- In the event of an accident, disconnect the workstation immediately.
- In the event of malfunctions, disconnect the workstation from the network immediately.
  - ➢ Always unplug during maintenance

- Only work at the workstation with appropriate, personal, acid-resistant protective equipment.
  - ➢ Gloves
  - ➢ Apron and safety shoes.
  - ➢ Goggles.

- Before changing editing tools (brushes, felts, etc.), always turn off the workstation.

- Secure hot objects against accidental touching.

- Never eat or drink at work!

It is forbidden!

- After working with electrolytes, always wash your hands thoroughly with soap and plenty of water.
  - ➢ Wipe away any spilled electrolyte fluid immediately with plenty of water.

- Please note the detailed information on our EC safety data sheet for electrolytes.
  - ➢ Store the workstation, cleaning equipment, accessories or chemicals so that they cannot get into children's hands.

- Pacemaker wearers may:
  - ➢ not working with the workstation
  - ➢ do not stay in the immediate vicinity of the workstation!

- Never use the workstation for work that generates flying sparks, such as grinding.
  - ➢ The flying sparks can damage filter mats.
  - ➢ The flying sparks can lead to a fire.

- Work that generates flying sparks may only be carried out at a sufficiently large safety distance from the workstation.

- Do not load the table with more than:
  - ➢ Workstation L - **200 kg**
  - ➢ Workstation XL Pro 230V and 400V - **200 kg**
  - ➢ Workstation XXL - **200 kg**
  - ➢ Workstation XXL Pro 230V and 400V - **200 kg**

2.3.3 Checks before each start of work

Before starting each work, check:

- All live cables and wires for damage to insulation.
- All live cables and wires for breaks and kinks of the strands within the insulation.
- All plugs and connectors for damage.
- All switches for damage, e.g. chipped housing parts.
- The workpiece clamp for external damage.
- Whether all PTFE insulation is present and undamaged.
- Make sure that you do not pull or lay electrical cables over sharp edges.
- Your workplace must be freely accessible
- Eliminate tripping hazards.
- Is the suction running?
- Fill level of the canisters (risk of overflow).
- Sewage canister connected?
- Waste water tap on the hose is open?

- Visual inspection at the control box +SKT1 (viewing window)
  - Are all protective devices switched on?
  - If not → checked immediately by **qualified electricians**!

2.4 Possible misuses

- Connecting to an incorrect mains voltage can lead to the destruction of the components.
- The connection of third-party components that are not approved by Reuter GmbH can:
  - lead to the destruction of the extraction table and components.
  - lead to a danger to persons.
- The use of chemicals that are not approved by Reuter GmbH & Co. KG can:
  - lead to damage to health,
  - negatively affect the work result.
- The use of an unsuitable electrolyte for a specific use case. Example: The use of cleaning electrolytes for signing/labeling:
  - may cause staining or illegible signing/labeling.
- Carry-over of marking electrolyte into the cleaning electrolyte
  - leads to dull spots or blackening on the workpiece surface.

2.5 Residual risks

Possible risk	Effect	Remedy
Electrolytes get into the hands of children or people who are inexperienced in handling chemicals.	Depending on the misuse: - Chemical burns of the skin - Chemical burns of clothing - Chemical burns of other objects - Severe internal injuries when ingesting the chemicals	Store electrolytes and other chemicals in a way that is only accessible to authorized persons.
Device is used by unauthorized persons (curiosity, play instinct)	- Burns of the skin when too Strong heat generation of the electrode or workpiece - Inhalation of fumes with Corresponding damage to health	Make sure that the device can only be used by authorized persons. Secure the device against improper use after use.
Uncontrolled rolling of the work table	- Damage to other objects	Actuation of the parking brakes
Squeeze	- Skin abrasions -Broken bones	Be careful when removing and inserting the grate or drip tray.
Overflowing canister	- Soil contamination - Injury to persons - Contamination of the table	- Regular emptying of the collection canister - Collection canister with level sensor
Non-company electrolytes	- Injury to the operator - Destruction of machines and tools	Use only electrolytes from Reuter GmbH
Cable Damage	- Destruction of the machine	- Before moving the workstation, disconnect all plugs from the mains - Secure the cables to the workstation
Too much weight	-Collapse -Upset	Maximum payload: - Workstation L: **200 kg** - Workstation XL Pro 230V and 400V: **200 kg** - Workstation XXL: **200 kg** - Workstation XXL Pro 230V and 400V: **200 kg**

Table 1 Residual risks

3 Requirements for staff and operators

3.1 Operator

- The following knowledge is required:
  - A briefing on how to operate the "workstation".
  - Instruction on the handling of the components.
  - Safety instruction on the dangers of handling electrical equipment.
  - Safety instruction on the dangers of handling chemicals.
- The following activities may be carried out:
  - Electrochemical cleaning with machines from Reuter GmbH.
  - Selection and use of electrolytes for appropriate applications.
  - Change of cleaning, marking tools and wear parts.
  - Turn the workstation and components on and off.
  - Rectification of minor faults after instruction.

This knowledge is imparted either by REUTER GmbH & Co. KG or other authorized persons or institutions.

3.2 Operator

- The operator must regularly instruct the staff in accordance with the legal requirements.
- Untrained personnel or unauthorized persons may not use the workstation and components.

4 Warranty and liability

Warranty and liability claims for personal injury and property damage are excluded if they are due to one or more of the following causes:

- **Improper use**
  - the "workstation".
  - of the components belonging to the "workstation".
  - of the chemicals belonging to the electrochemical processing equipment.
  - Use of inappropriate chemicals.
    Only use electrolytes that have been approved by Reuter GmbH!
  - Overload
    - Workstation L 200 kg payload
    - Workstation XL Pro 230V 200 kg payload
    - Workstation XL Pro 400V 200 kg payload
    - Workstation XXL 200 kg payload
    - Workstation XXL Pro 230V 200 kg payload
    - Workstation XXL Pro 400V 200 kg payload
- **Failure to comply with the**
  - Work and safety instructions in this manual.
  - Operating instructions of the "workstation" or the components.
- **Improper**
  - Commissioning
  - Commissioning in case of improperly installed guards
  - Service
  - Maintenance
  - Repairs carried out
  - Repair by unqualified personnel.
- **Use**
  - The "workstation" in living and office spaces
  - in a fire and explosive environment
  - in humid environments
  - unauthorized structural changes
- **Noncompliance**
  - of the prescribed maintenance intervals

Hint

For damage and malfunctions caused by the operation of components and chemicals from other manufacturers, no claims of any kind can be made to REUTER GmbH & Co. KG.
Unless it is factually proven that the damage was clearly caused by negligent design or production by REUTER GmbH & Co. KG and was foreseeable at the time of construction.

4.1 Material defects

- The customer must notify the supplier of material defects in writing within 14 days without delay.
- If no limitation periods have been agreed by the supplier and consumer for material defect claims, the legal requirements apply.
- In the case of a material defect claim, submit a certificate showing that the limitation period has not been exceeded.

5 Terms

Term	Meaning
Distilled water	Distilled water contains no minerals and is therefore very "soft". It is obtained by distillation.
Demineralized water	Demineralized water is obtained by filtration. It contains hardly any minerals and is also very "soft".
Electrolyte	Electrolytes are electrically conductive chemicals that are used in various compositions and concentrations for cleaning, polishing and signing. ➢ SIGN - Electrolyte is used for labeling. ➢ Cleaning electrolyte (Cleaner, SuperCleaner, Polisher) is used for cleaning or polishing.
Felts	Felts are absorbent fabrics that are soaked in electrolytes and used for: ➢ Marking ➢ Clean ➢ Polish
Carbon electrode	Carbon electrodes consist of a rigid carbon body that is used to attach the marking and cleaning felts and to transmit electricity.
Carbon Fiber Brush	Carbon fiber brushes are made up of up to 1.5 million individual carbon fibers. During the cleaning process, the current is distributed over the individual fibers. A small arc (~3 – 7 µm in size) forms on each fiber that comes into contact with the workpiece surface.
Passivate	Passivation is the inactivation of oxidation processes on the workpiece surface by chemical treatment.
Signing/Labeling	Marking/labeling is a targeted oxidation process that takes place in the metal surface and not a superficial application of paint particles. Therefore, permanent and forgery-proof! During signing, a marking electrolyte and electr. Transferring current information from a template to the workpiece surface. All electrically conductive metal surfaces can be labeled with the appropriate electrolyte.
Marking Stencils	Signing stencils contain the information that can be obtained by means of the marking tool, marking electrolyte and electr. current can be transferred to the workpiece surface.

Marking stamps	A marking stamp is the combination of a carbon electrode, handle and marking felt attached to it.
Water hardness	The mineral content in the water determines the degree of hardness. The higher the concentration of certain minerals in the water, the higher the degree of hardness. The degree of hardness is given in "degree of German hardness" [°dH].

6 Delivery, in-house transport, unpacking

Security
As a matter of principle, all activities required for delivery, transport, unpacking and storage must be carried out with the utmost care and all rules and regulations required for safety must be observed.
Failure to follow safety rules and regulations can lead to serious cuts, bruises and broken bones.

6.1 Delivery

- The devices and components are delivered in orange Euro plastic boxes on pallets by freight forwarder, parcel service or with Reuter GmbH's own vehicle.

  - ➢ For safe transport, the extraction arm was dismantled and packed separately. *(Only for the Workstation XL Pro, Workstation XXL Pro 230V and 400V).*
  - ➢ Cleaning equipment and accessories were also packed separately.
  - ➢ See chapter Setup and commissioning for more information.

6.2 Unload

- To unload the scope of delivery, you may only use hoists and means of transport that are approved for the corresponding load.
  - ➢ All hoists and their accessories must be suitable for the intended use and comply with the current safety standards.

- The workstation can be moved on its own castors after unloading.

6.3

6.4 In-house transport

- For internal transport, you may only use hoists and means of transport that are suitable for the purpose and meet the current safety standards.
- The workstation can be moved on its own castors after unloading.
- Move the table unloaded.
- Move the table slowly
  - ➢ Avoid jerky movements.
  - ➢ Jerky movements can create a tipping moment.

6.5 Unwrap

Security
To unpack the devices and components, be sure to follow the corresponding operating instructions

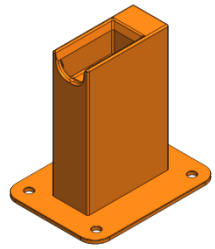
- Remove the protective film, if present.
- Remove the tension straps that secure the load on the pallet.
- To do this, cut through the tension straps with a side cutter.
- Carefully lift the workstation off the pallet and place it upright on the four casters.
- Use suitable hoists with safe slings for this purpose.
- Open the workstation door carefully.
  - ➢ Components that may have been stowed inside may have come loose.

Security
The tension belts are under strong mechanical tension. Do not stand in the "trajectory" of the two tension belt parts.
Under no circumstances should you hold on to the tension straps when cutting them.
- ➢ Cuts can be the result.
- ➢ Wear appropriate safety clothing.

7 Scope of delivery

- When unpacking the delivery, check the completeness of the delivery.
- Complain about missing or damaged parts immediately.

7.1 Scope of delivery and consumables

Accessories						
Description	**Available at**			**Quantity**	**Order No.**	**Illustration**
	L & XXL	**XL & XXL PER 400V**	**XL & XXL PER 230V**			
Level sensor option on the wide-neck canister	Optional	✔	✔	1	EP-07-130	
Optional bypass (only for Workstation XL Pro 230V, Workstation XXL Pro 230V)	✕	✕	Optional	1	EP-06-037	
Hydrojet Gun Compressed air and water combi gun with 2 functions.	Optional			1	EP-06-040	
Bracket AutoFeed - Handle for Workstation Bracket TripleBrush for Workstation	Optional			1	EP-06-042 EP-06-048	

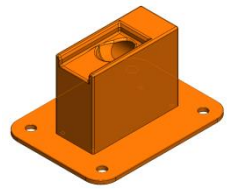
Bracket Hydrojet Gun for Workstation	Optional		1	EP-06-041	
Tannenbaum Clips / Pine Tree Clips 9,5mm	Optional		8	EP-B-6063	
Post-filter/ Rear silencer for activated carbon filter box Da=115mm L=410mm	×	× ✔	1	EP-06-150	
Activated carbon filter replacement cartridge for extraction (400V variants)	×	✔ ×	2	EP-06-027	
Activated carbon filter replacement cartridge for extraction (230 V variants)	×	× ✔	1	EP-06-036	

Table 2 Delivery list

8 General information for all workstations/desks

Hint:
When working with "workstations/work tables", please observe the applicable operating instructions for all components and devices used!
Only use processes/chemicals approved by Reuter GmbH & Co. KG.

Hint:
Always wear your personal acid-resistant protective equipment when working!

8.1 Establish

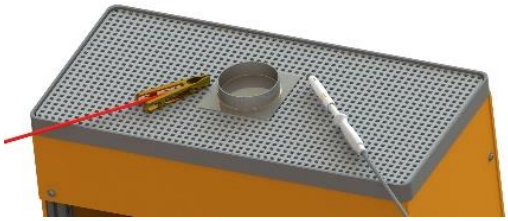
- Move the workstation/workbench to its place.
  - ➢ and fix the brakes.

8.2 Condition of the installation site

Hint:
Treat the floor generously with an acid-resistant coating or install an acid-resistant floor covering.

The cleaning electrolytes **(Cleaner, SuperCleaner, Polisher)** are reactive to concrete floors!

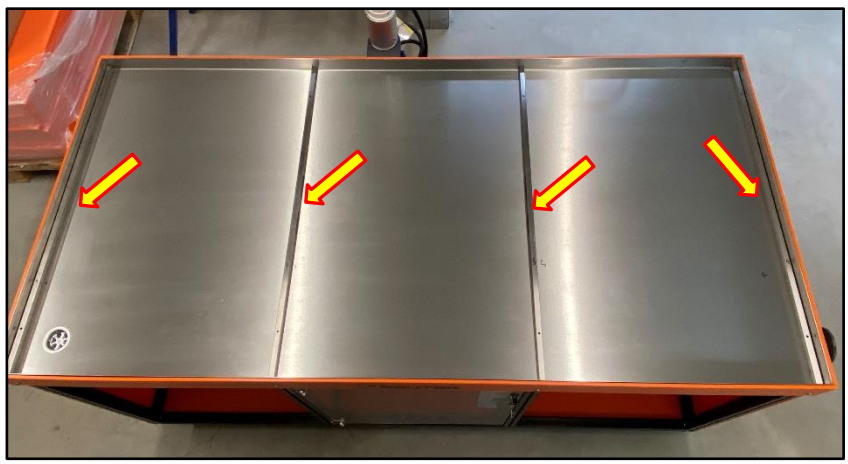
8.3 Workspace



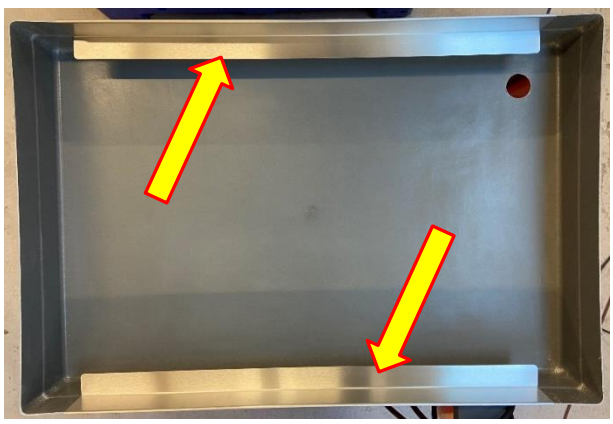
Grating holder XXL & XXL Pro

- Process workpieces only over the work surface of the grating.
  - In this way, used electrolyte and rinsing water are collected directly.
  - Keep the work area clean and tidy.
  - This will prevent contamination or damage to other components!
  - The grating is made of acid-resistant GRP.

- The GRP grating is placed on four stainless steel square tubes.
  - This ensures a stable work surface and a better drainage of the cleaning fluids.



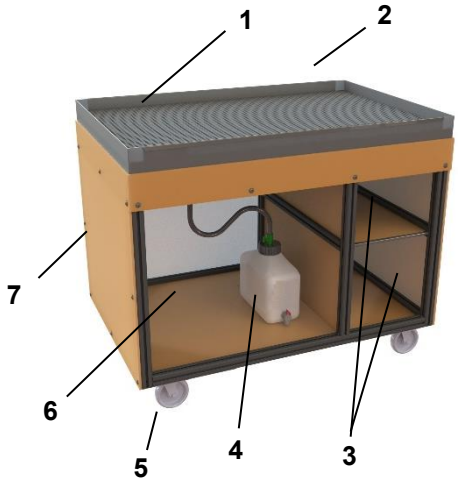
Grating Holder L & XL Pro



Attention!
Do not operate all workstation types without the grid brackets.
- Otherwise the drip pan can be damaged.
- Leaks are the result.

9 Specific Information Workstation/Workbenches

9.1 Workstation "L" & "XXL"



- The workstation "L" & "XXL" are larger variants from the workstation series for electrochemical cleaning of weld seams from Reuter GmbH & Co. KG.
  - ➢ Maximum payload: 200 kg.

- Composed of:

1 – Working area (GRP grating)
2 – Drip pan
3 – Storage space for cleaning equipment
4 – Waste water canister with waste water hose
5 – Four swivel castors with two parking brakes
6 – Storage space for waste water canisters
7 – Base frame made of acid-resistant materials

9.1.1 Placing the cleaning device

- Below the drip tray there is enough storage space for accessories or a device from Reuter GmbH & Co. KG. Available.
  - ➢ Devices from the SuperCleanox series from Reuter GmbH & Co. KG must be placed in the compartment from above.

- To do this, proceed as follows:
  - ➢ Carefully lift the tub and grating out of the rack.
  - ➢ Proceed with caution.

- Place the drip pan on top of the frame.
  - ➢ Carefully turn the drip pan to the side.
  - ➢ To do this, lift the frame slightly

Attention!
Be careful not to disconnect the sewage hose!

- Place the device in the appropriate compartment.

- Place the device so that you can operate it from the front.

- Carefully replace the tub and grating in reverse order.

Security!
Pay attention to your fingers when inserting the grating or tub.
- ➢ Risk of crushing

9.1.2 Emptying the canister

- Follow these steps:
  - ➢ Close the shut-off valve on the sewer hose.
  - ➢ Loosen the twist and remove the waste water hose from the canister.
  - ➢ Empty the canister into suitable and marked waste water containers.
  - ➢ Dispose of the collected wastewater professional.
- Screw the lid back onto the canister.
- Open the stopcock!

Info!
For more information, please read the chapter10 ***"Emptying, connecting and replacing the waste water canister".***

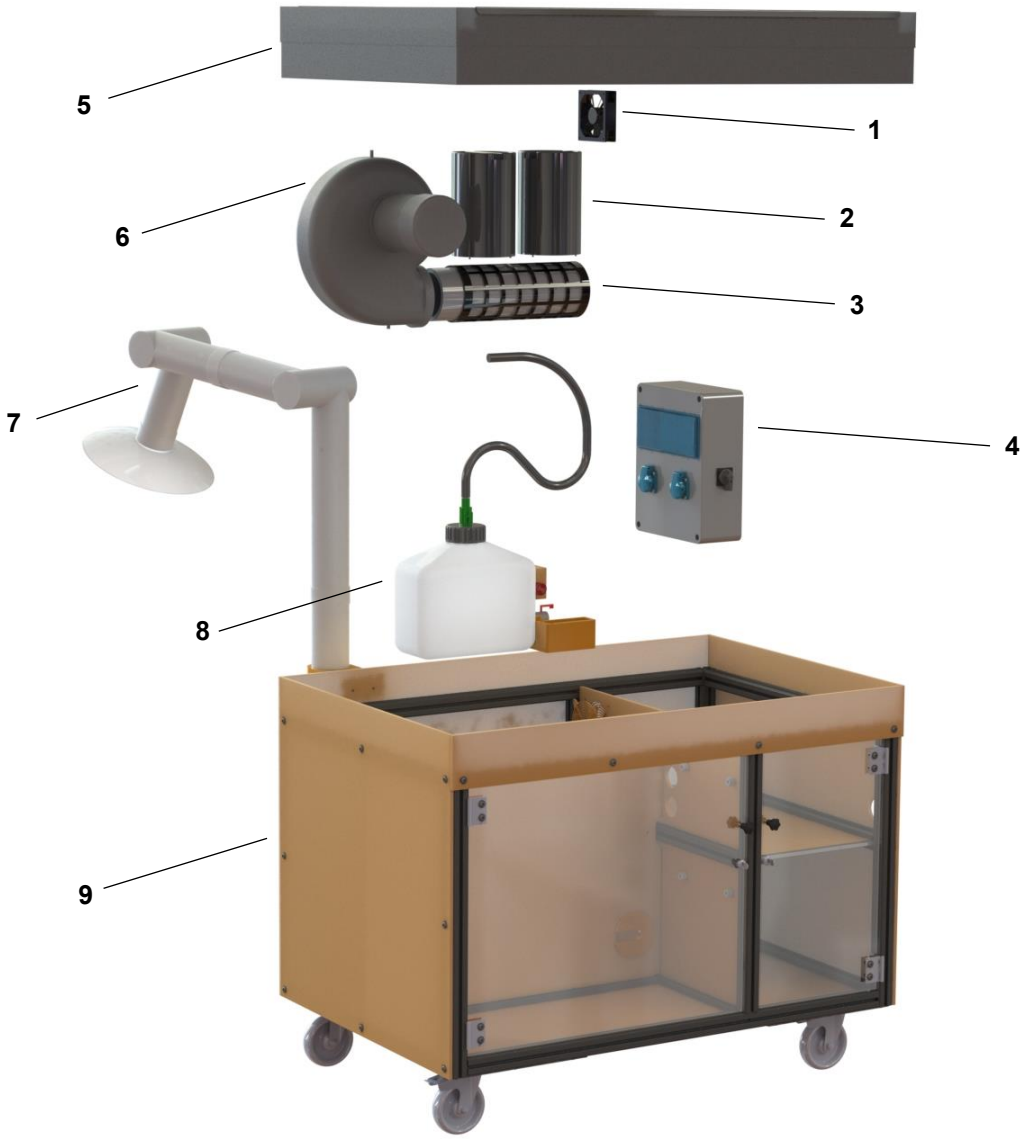
9.2 Workstation "XL Pro" & "XXL Pro"

- The workstation/work tables "XL Pro" & "XXL Pro" are more powerful variants of the workstation series for electrochemical cleaning of weld seams from Reuter GmbH & Co. KG.
  - ➢ Maximum payload: 200 kg.

9.2.1 Component Overview Workstation XL Pro 230V, & XXL Pro 230V

1 Indoor fan
2 Activated carbon filter
3 Control box
4 Drip tray/grating
5 Extraction blower
6 Extraction arm
7 Waste water canisters
8 Base frame

9.2.2 Component Overview Workstation XL Pro 400V & XXL Pro 400V



1 Indoor fan
2 Activated carbon filter
3 Filter Insert Silencer
4 Control box
5 Drip tray/grating
6 Extraction blower
7 Extraction arm
8 Waste water canisters
9 Base frame

9.2.3 Installation of the extraction arm

- The joints are connected with tension screws.
  - ➢ The frictional force of the brakes is adjusted by tightening or loosening.
- If the arm sags after installation in the determined state,
  - ➢ Check that the tension screws are sufficiently tightened.
- If this does not help, please contact us.

ATTENTION! Injury!
To better balance the extraction arm, strong springs are installed inside the extraction arm.
Attention! When unscrewing the parking brakes, the extraction arm can flip over because of the strong machined spring.

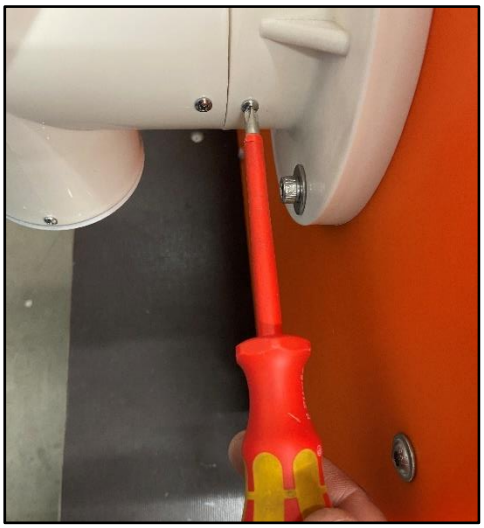
Tools required for mounting the extraction arm:

- 1 x Ratchet with SW 10mm socket
- 1 x Allen key 4mm
- 1 x Allen key 6mm
- 1 x Phillips screwdriver

Mounting the extraction arm:

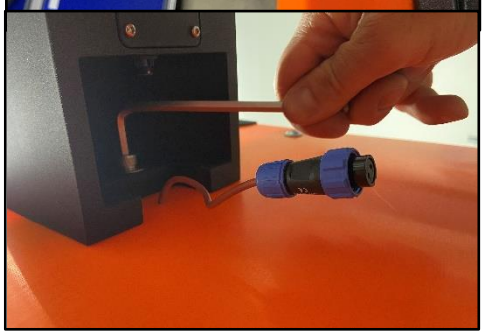
WARNING!
For **workstations with the neutralization** option, always disconnect the valve connector and drain hose (located under the basin) before lifting the basin and grid.

- Carefully lift the tub and grating out of the rack.
  - ➢ Carefully set the pieces aside.
  - ➢ Loosen the lid of the canister before lifting the tub.
  - ➢ Proceed carefully.

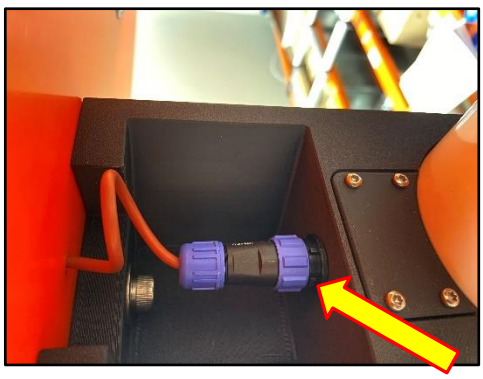


- Insert the T-piece of the extraction arm into the lower flange.
  - Tighten the cross fastening screws to connect the parts together.
  - Use the Phillips screwdriver for this.

- Then screw the black tube bracket to the frame.
  - Use the corresponding two countersunk screws for this.
  - Use the Allen key 4mm.
- Secure the countersunk screws with self-locking nuts.
  - Use the ratchet with SW 10mm socket.



- Next, screw the lower part of the black pipe bracket.
  - Use the Allen wrench 6mm.



- Connect the plugs to the lower part of the black pipe bracket.
  - Tighten the blue union nut to lock the plugs.

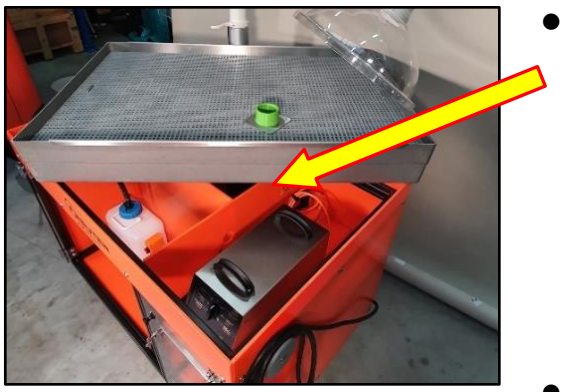
- Insert the extraction arm into the pipe.
  - ➢ Align the arrows with each other.

- Secure the tube with the Phillips-head screws.
  - ➢ Use the Phillips screwdriver for this.

- Set the
  - ➢ tub and the grating back into the frame.
- Pay attention to the drain hose.
  - ➢ Do not bend or squeeze.

9.2.4 Placing and connecting the accessory

- To facilitate the placement of larger devices in the workstation, the grating and drip pan must be lifted out.
  - ➢ Before lifting the tub, loosen the lid of the canister.
  - ➢ Carefully lift the tub and grate out of the rack.
  - ➢ Set parts aside.
  - ➢ Be careful with drain under the tub.



- Place the device in the storage compartment.

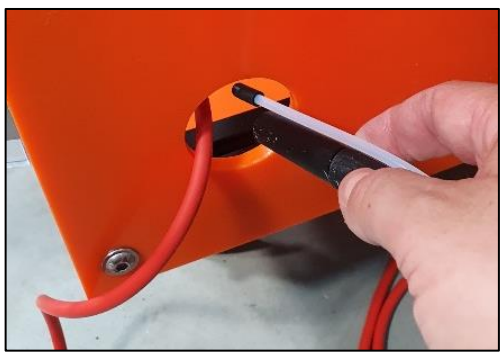
- Thread the power plug through one of the holes.

- Plug in to the cleaning equipment outlet.
- Now put the drip pan and the grate back in.

Optional:

- Now insert the MagicBox into the lower compartment.
  - ➢ Connect the MagicBox and the device.
- Please note the detailed instructions for the two components!

Attention!
Be sure to follow the corresponding operating instructions for the respective device.



- Feed the ground cable and the hose package of the handle through the corresponding openings in the side wall.
  - ➢ so that you can close the door.

- Connect all components according to the operating instructions for "MagicBox".

9.2.5 Electrical connection Workstation XL Pro 230V, Workstation XXL Pro 230V

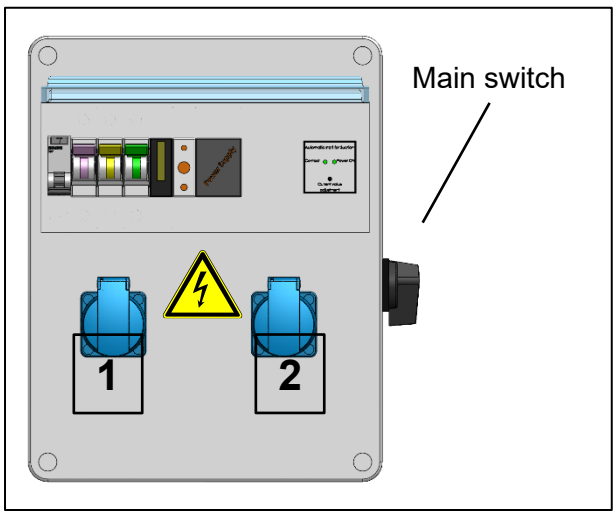
- The Workstation XL Pro 230V is connected to a socket type E and F, 230V mains system.
- An H07RN-F 5m power cable with a Schuko plug according to IECEE CEE-7 is installed.
  - ➢ Plug CEE 7/7 (L+N+PE)

9.2.6 Electrical connection Workstation XL Pro 400V, Workstation XXL Pro 400V

- The Workstation XL Pro is connected to a three-phase 400VAC power system.
- An H07RN-F 5m power cable with a three-phase plug according to IEC 60309 is installed.
  - ➢ CEE Plug 16A, 400VAC 3L+N+PE, 6h

9.2.7 Fuse Box Workstation XL-Pro 230V, Workstation XXL Pro 230V

9.2.7.1 Control box +SKT1



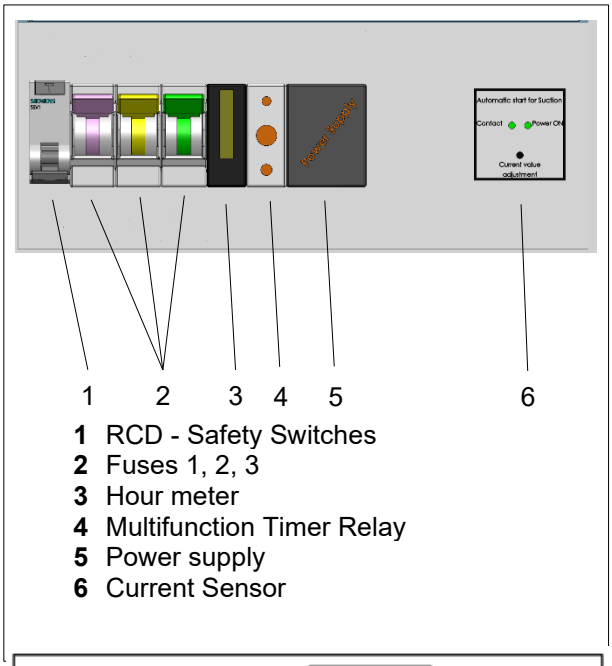
- **Sockets**
  - ➢ There are two 230VAC working sockets available with a total fuse of max. 13A, but with different functions.
  - ➢ **Socket 1: [Cleaning device]** The cleaning device must only be connected to this socket, otherwise the suction will not start.
  - ➢ **Socket 2: [Auxiliary Socket]** This socket can be used for an auxiliary device.

ATTENTION!

The suction is started automatically, exclusively by load on the cleaning device socket.

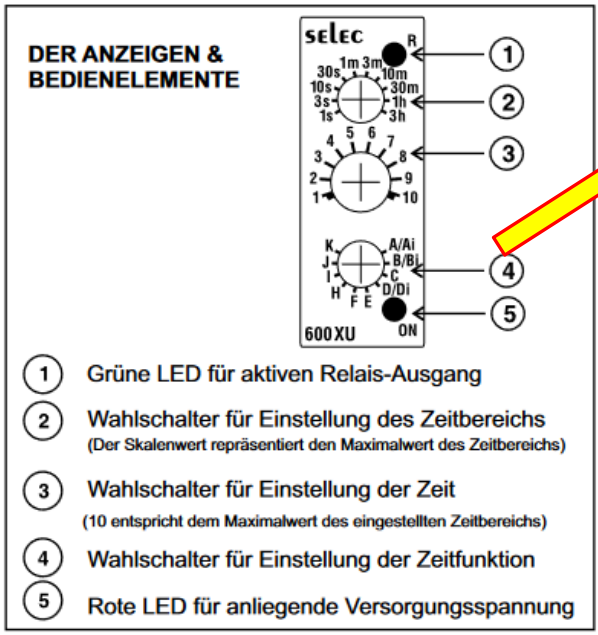
- ➢ As soon as the brush touches the workpiece and the load is removed from the cleaning device, the suction starts automatically.

9.2.7.2 Backups

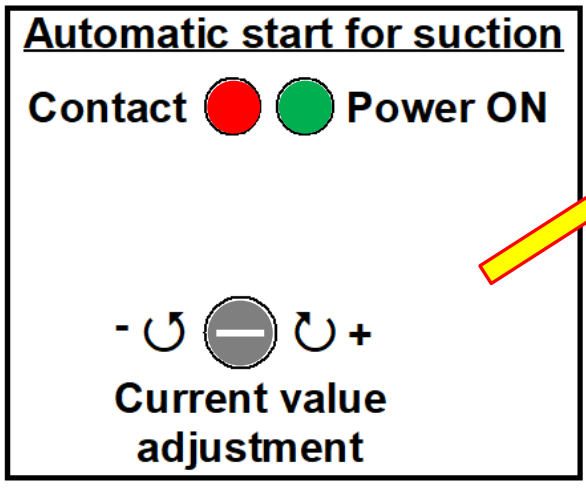


1 RCD - Safety Switches
2 Fuses 1, 2, 3
3 Hour meter
4 Multifunction Timer Relay
5 Power supply
6 Current Sensor

- **1 -** RCD "ON"
  - For personal protection 30mA
- **2 -** Fuse 1, 2, 3
  - **-FC1** fuse: 230V control voltage
  - **-FC2** fuse: sockets
  - **-FC3** fuse: suction pump
- **3 -** Hour meter
  - As soon as the suction pump is activated, the operating hour counter starts counting. **ATTENTION:** The time recorded by the operating hour counter only shows the running time of the suction pump and not the time of the complete system!



- **4 –** Multi-function timer relay
  - This timer relay controls the discharge time of the suction pump. After setting down the brush, the suction pump continues to run for approx. **15 seconds**.
  - Is set by the factory to the following:
    - **[2-Time Range]** Time Range **30s.**
    - **[3-Time]** Time set **to 5 seconds**.
    - **[4-Time Function]** Time Function **J**.
- **5 –** Switching power supply
  - Here the control voltage of 12V/2A is generated.



- **6 –** Current sensor
  - This is where the current that is to switch on the suction pump is recorded.
  - The suction pump should only be switched on when the carbon fiber brush contacts the workpiece. This adjustable current can be adjusted via the potentiometer **[Current value adjustment].**
  - The green LED **[Power ON]** lights up when current flows through the current sensor.
  - The red LED **[Contact]** lights up when the set current is drawn via the current sensor.

- For the external LED lighting on the suction bell (AngelEye), a glass fuse was installed as cable protection and LED inside the electrical box.
  - ➢ Glass fuse **5x20mm T2A**

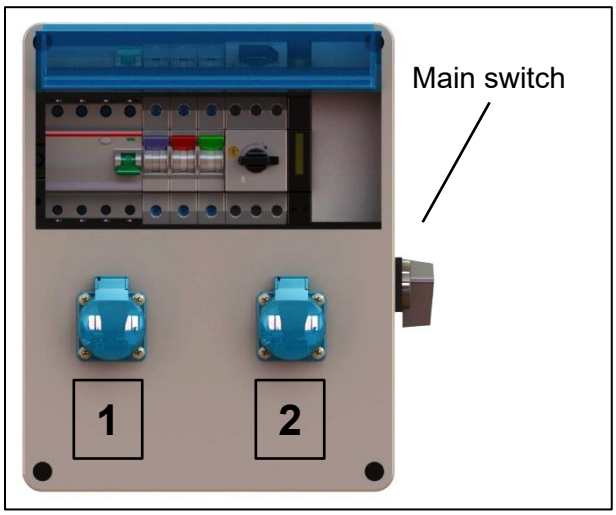
Security!

In the event of a malfunction, check the circuit breakers through the viewing window in the control box +SKT1.

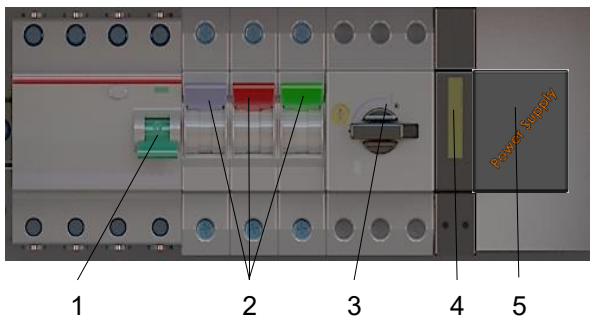
- ➢ If one of the circuit breakers has tripped, there is a malfunction.
- **Only a qualified electrician or an authorized person may open the control box,**
- ➢ **eliminate the disturbance,**
- ➢ **put the system back into operation.**

9.2.8 Fuse Box Workstation XL-Pro 400V, Workstation XXL Pro 400V

9.2.8.1 Control box +SKT1



- **Sockets**
  - ➢ There are two 230VAC working sockets with different fuses available.
  - ➢ **Socket 1:** Is fused with C13A and is only intended for the cleaning device.
  - ➢ **Socket 2:** Is fused with B10A and can be used for an auxiliary device.



1 RCD - Safety Switches
2 Fuses 1, 2, 3
3 Motor protection circuit breakers
4 Hour meter
5 Power supply

- **1 -** RCD "ON"
  - ➢ For personal protection 30mA
- **2 -** Fuse 1, 2, 3
  - ➢ Fuse for the sockets and other electrical components
- **3 -** Motor protection switch
  - ➢ Power supply extraction
- **4 -** Hour meter
  - ➢ As soon as the system is activated, the operating hour counter starts counting.
- **5 –** Switching power supply
  - ➢ Control voltage of 12V/2A.

- For the external LED lighting on the suction bell (AngelEye), a glass fuse was installed as cable protection and LED inside the electrical box.
  - ➢ Glass fuse **5x20mm T2A**

Security!

In the event of a malfunction, check the circuit breakers through the viewing window in the control box +SKT1.

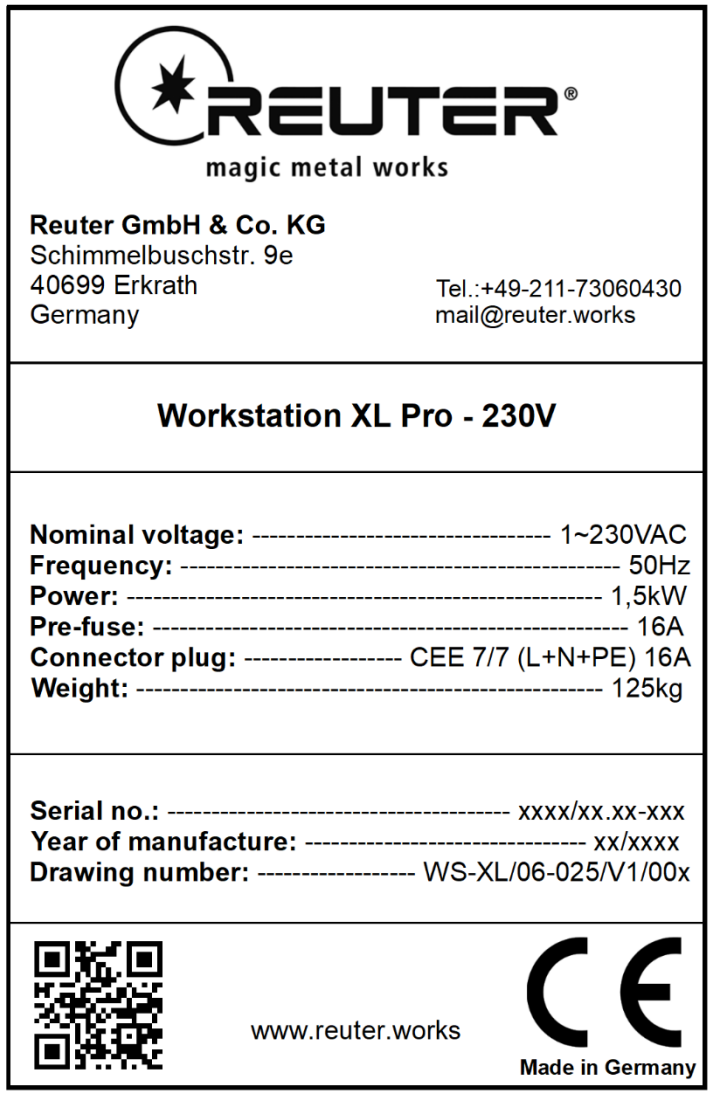
- ➢ If one of the circuit breakers has tripped, there is a malfunction.
- **Only a qualified electrician or an authorized person may open the control box,**
- ➢ **eliminate the disturbance,**
- ➢ **put the system back into operation.**

9.2.9 Technical data/ Type plate (Only for the Workstation XL Pro 230V, Workstation XXL Pro 230V)

Specifications:

Connection voltage	1~230VAC	
Power consumption "*The total power consumption depends on the power of the locked devices.*"	See on Type plate	
Protection max.	16A	
Feed	CEE 7/7 (L+N+PE, 16A)	
Cable length	5m	
Sound pressure level at a distance of 1m	< 75dB	
Power	1kW	
Suction capacity max.	300m³/h	
Suction pressure max.	15,000Pa	
Maximum payload weight	200kg	
Workstation	**XL Pro 230V**	**XXL Pro 230V**
Workstation Width	1200mm	2000mm
Workstation Depth	800mm	1000mm
Workstation Height (with extraction arm approx. 2m)	1000mm	1000mm
Weight (without devices and accessories)	125Kg	195Kg

Type plate (example):

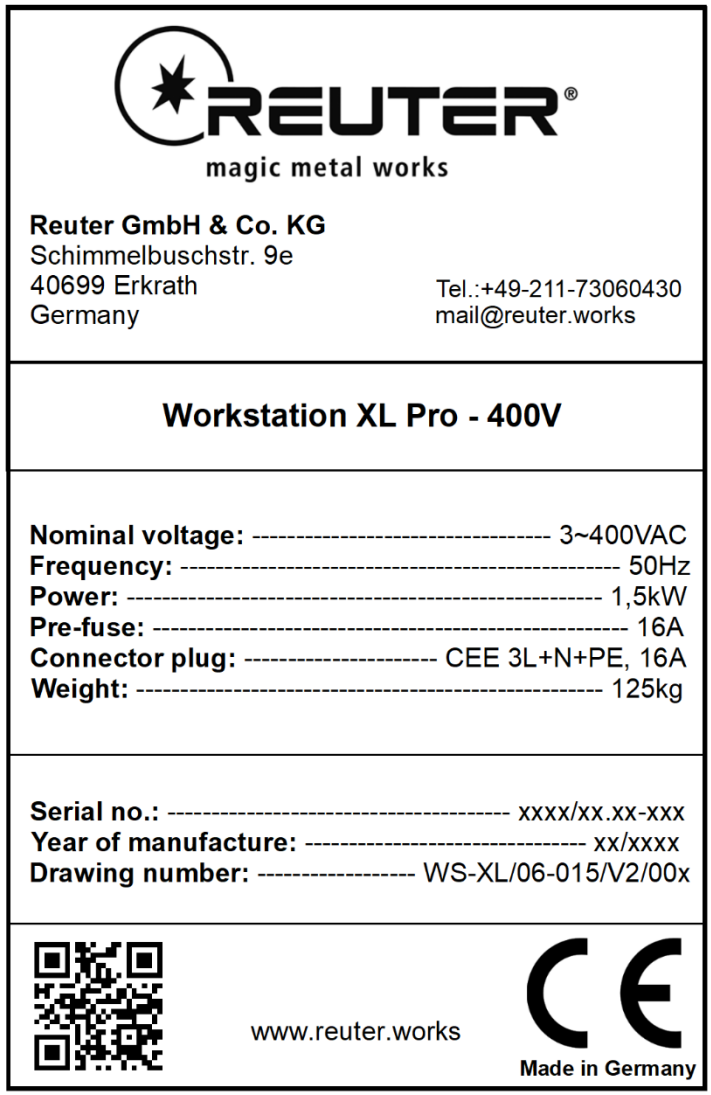


9.2.10 Technical data/ Type plate (Only for the Workstation XL Pro 400V, Workstation XXL Pro 400V)

Specifications:

Connection voltage	3~400VAC	
Power consumption "*The total power consumption depends on the power of the locked devices.*"	See on Type plate	
Protection max.	16A	
Feed	CEE Connector 3L+N+PE, 6h, 16A	
Cable length	5m	
Sound pressure level at a distance of 1m	< 70dB	
Power	0.37kW	
Suction capacity max.	950m³/h	
Maximum payload weight	200kg	
Workstation	**XL Pro 400V**	**XXL Pro 400V**
Workstation Width	1200mm	2000mm
Workstation Depth	800mm	1000mm
Workstation Height (with extraction arm approx. 2m)	1000mm	1000mm
Weight (without devices and accessories)	125Kg	195Kg

Type plate (example):



9.2.11 First commissioning Workstation XL-Pro 230V, Workstation XXL Pro 230V

- A main switch on the side of the fuse box serves as a mains disconnect device.

- Make sure that the main switch is set to **"0"** before plugging in the CEE Plug.
  - ➢ If so, then connect the plug to the socket.
  - ➢ The workstation is equipped with a Schuko plug CEE 7/7 plug 16A, 230V (L+N+PE).
- To turn on the workstation:
  Main switch "ON"
  - ➢ Position **"1"**
  - ➢ Tension is on
  - ➢ Sockets are active

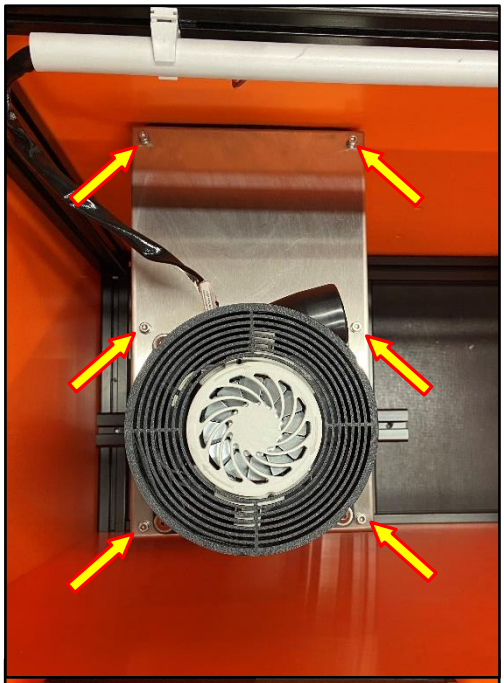
Security:
The workstation must be switched off before connecting the cables and changing the handles, brushes, carbon electrodes or felts.

➢ Set the **main switch to** "0".

9.2.12 Replace Activated Carbon Filter for Workstation XL Pro 230V, Workstation XXL Pro 230V

- ➢ The extraction system has an activated carbon filter.
- ➢ This must be replaced at regular intervals.

- Carefully lift the tub and grating out of the rack.
  - ➢ Loosen the lid of the canister before lifting the tub.
  - ➢ Carefully set the pieces aside.
  - ➢ Proceed carefully.



- The extraction system has an activated carbon filter.
- Screw the 6 Allen screws with a 4 mm Allen key.
- Carefully set the suction pump and suction box lid aside.
- Please pay particular attention to the motor cables.

- The activated carbon filters are connected to the suction box by a bayonet lock.
  - **Loosen the activated carbon filter:** turn to the left.
  - **Tighten the activated carbon filter:** turn to the right.

Hint
The replacement intervals of the activated carbon filters can be found in the chapter "Inspection and Maintenance Plan".

- Replacing the activated carbon filters.
  - When installing the activated carbon filter, please pay particular attention to the bayonet lock.

9.2.13 First commissioning Workstation XL-Pro 400V, Workstation XXL Pro 400V

- A main switch on the side of the fuse box serves as a mains disconnect device.

- Make sure that the main switch is set to **"0"** before plugging in the CEE three-phase plug.
  - ➢ If so, then connect the CEE plug to the factory CEE socket.
  - ➢ The workstation is equipped with a three-phase plug in accordance with IEC 60309. CEE Plug 16A, 400VAC 3L+N+PE, 6h.

- To turn on the workstation:
  Main switch "ON"
  - ➢ Position **"1"**
  - ➢ Tension is on
  - ➢ The extraction starts.
  - ➢ Sockets are active
  - ➢ Hour meter counts.

Attention! Check direction of rotation:
The workstation works exclusively with **a right-hand rotating field**.
In the left-hand rotation field, the exhaust fan runs in the wrong direction of rotation.

- ➢ **The extraction performance is impaired!**
- ➢ **Before initial commissioning, make sure that the right-hand rotation field is in place.**
- ➢ **Only a qualified electrician is allowed to open the control box to carry out a rotary field test.**
- ➢ The CEE socket has a phase inverter e®. The phases can thus be easily adjusted with a flat-head screwdriver.

Tip:
The difference is clearly audible.

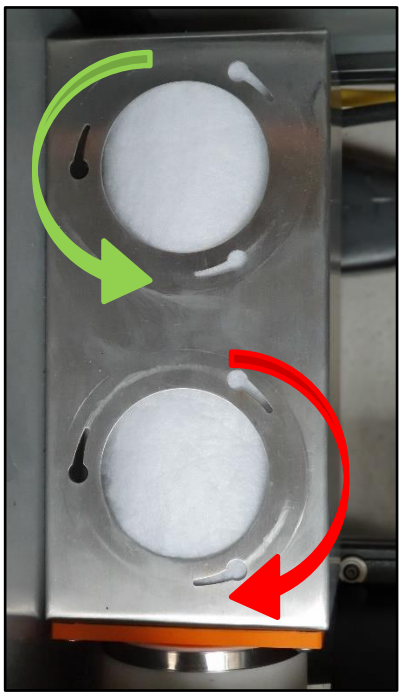
- ➢ When the rotating field is set correctly, the extraction fan has more suction power and is louder.

Security:
The workstation must be switched off before connecting the cables and changing the handles, brushes, carbon electrodes or felts.

- ➢ Set the **main switch to** "0".

9.2.14 Replace the activated carbon filter on Workstation XL-Pro 400V, Workstation XXL Pro 400V

- The extraction system has two activated carbon filters.
  - They must be replaced at regular intervals.
  - The intervals and the exchange are described below.



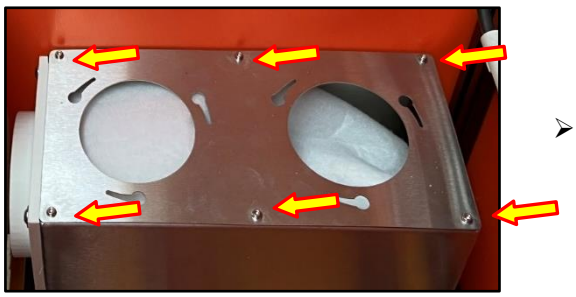
- The activated carbon filters are connected to the suction box by a bayonet lock.
  - **Loosen the activated carbon filters:** turn to the left.
  - **Tighten the activated carbon filters:** turn to the right.

Hint
The replacement intervals of the activated carbon filters can be found in the chapter "Inspection and Maintenance Plan".

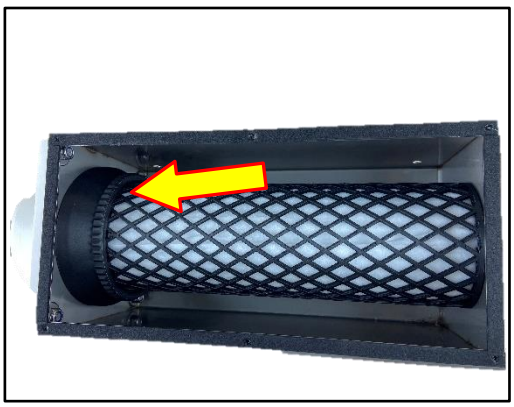
9.2.15 Replace filter insert (silencer) on Workstation XL-Pro 400V, Workstation XXL Pro 400V

- The extraction system has a filter roller on the suction box module, which serves as a silencer.

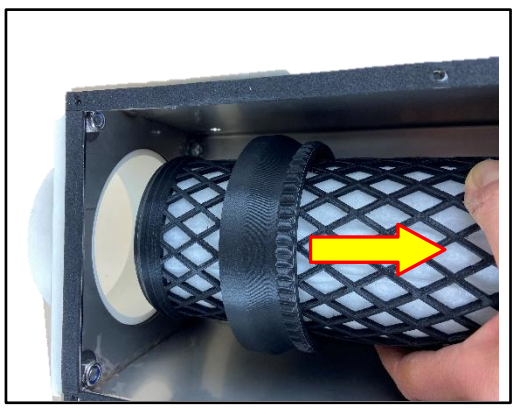
- Unscrew the activated carbon filters as described in the previous chapter "Replacing the activated carbon filter".



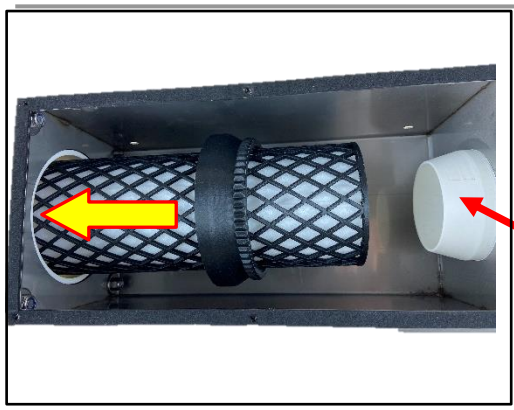
- Loosen the 6 hexagon socket screws.
  - Remove the cover.



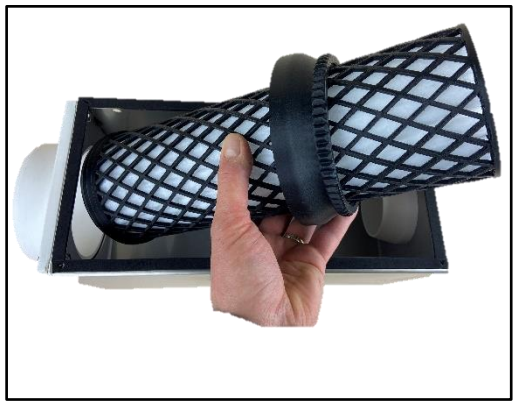
- Under the activated carbon filter cover is the filter insert.
  - First, loosen the large nut so that it can move freely.



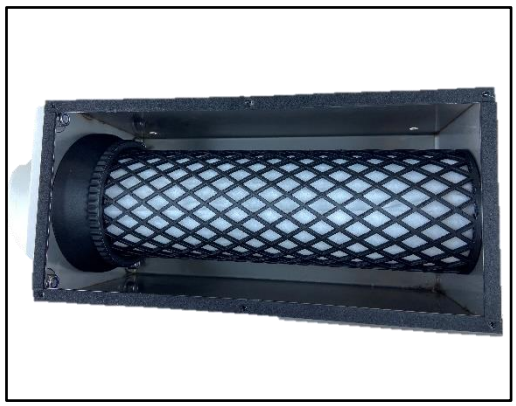
  - Pull the nut back



- Push the filter backwards so that it is guided out of the centering tip.



- Then remove the filter insert from the suction box at an angle.



- Perform the installation steps of the new filter in reverse order.
- When inserting the new filter, keep the following in mind:
  - Finally, the nut must be tightened again against the stainless steel filter box so that the filter can show its effect. Otherwise, the filter is loose and the air will look for another way.

Hint
The replacement intervals of the filters can be found in the chapter "Inspection and Maintenance Plan".

9.2.16 Condensate drain Workstation XL Pro (XXL Pro) 230V and 400V

- The extracted vapours can condense on the inside of the extraction arm.
  - These resulting condensates must be removed occasionally.

- To remove the condensate, place a container under the extraction arm.
  - Remove the condensate screw.
  - Catch the liquids without them getting on the floor.

- Screw the condensate screw tightly.
  - Don't forget the sealing washer.

Security
Splattered electrolyte fluid can cause stains on stone floors or other surfaces.
Phosphoric acid (Cleaner, SuperCleaner, Polisher) is highly reactive to stone floors!

10 Emptying, connecting and replacing the waste water canister

- Position the connected waste water canister in the designated place.
- The waste water hose is connected to a hose cover.
- The hose cover is screwed to the waste water canister.
- Waste water canisters are optionally equipped with level sensors. (XL-Pro, XXL Pro Standard)
  - When the sewage canister is full, a warning signal sounds. (XL-Pro Standard only)
  - Empty the waste water canister immediately.
  - How to save the battery of the level sensor

- Dispose of the wastewater properly.

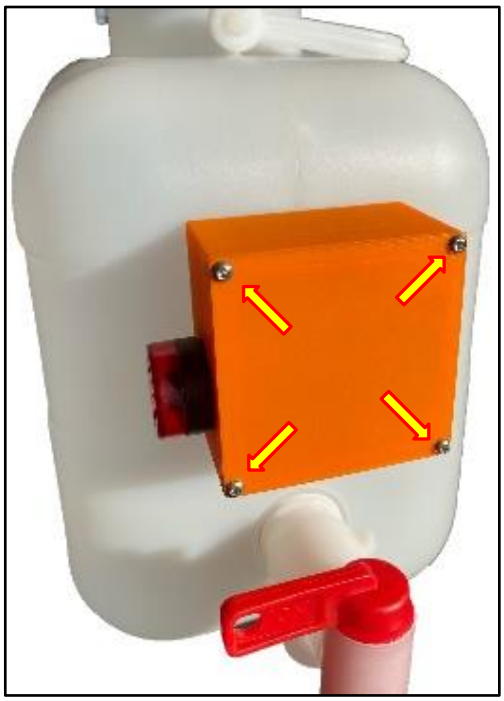
Attention!
Suspended solids that have settled as sediment in the wastewater canister must not get into the wastewater under any circumstances.

10.1 Emptying or exchanging a full canister

- Warning signal sounds
  - Close the shut-off valve on the sewer hose.
  - Remove the lid with the waste water hose from the full waste water canister.
  - Close the full waste water canister with the lid from the storage compartment.
  - Dispose of the wastewater properly.

- Check that the level sensor is in working order.
  - Turn the empty waste water canister upside down for a short time (signal sounds).
  - Screw the lid with waste water hose onto the empty waste water canister.
  - Place the waste water canister back in the holding device.
  - Open the shut-off valve on the sewer hose.

10.2 Battery change of the level sensor on the wastewater canister



- Remove the waste water canister from the workstation,
  - Loosen the 4 pan head screws on the orange electronics housing.

- Replace the battery
- Battery Type. Item No.: (EP-B-1104)

11 Maintain

Hint

The following maintenance work may be carried out by the operator of the device himself:

- All cleaning work on the device housing.
- All cleaning work on accessories.
- Professional disposal of wastewater
- Replacement of wear parts
  - ➢ Felts, PTFE handles, carbon electrodes, ground terminals, ground cables, signing, carbon filters, filter mats

Security

The following maintenance work may only be carried out by a qualified electrician:

- Replacing defective power plugs.
- Replacing defective power cables.
- Replacing the ground and marking sockets on the machine.
- Replacement or repair of all components in the device housing.

11.1 Inspection and maintenance plan

- ➢ The maintenance of the device consists of thorough cleaning and inspection by a qualified electrician.
- ➢ The frequency depends on the degree of soiling.
- ➢ Comply with the suggested maintenance intervals.
- ➢ Before starting the inspection or maintenance work, disconnect the device from the mains (unplug).
- ➢ Remove dust deposits with a vacuum cleaner.
- ➢ Wipe the components with a dry cloth.
- ➢ Only use degreasing agents that are suitable for electrical equipment.
- ➢ Follow the instructions for cleaning the appliance and accessories.
- ➢ Use the hour meter in the +SKT1 control box (see chapter 9.2.7.2) to record the operating hours.

Inspection and maintenance plan

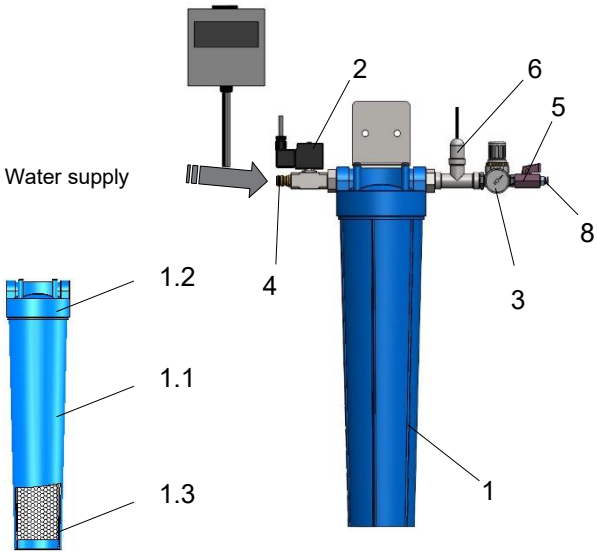
Work to be carried out	Workstation		before	if necessary	Daily	weekly	1/2 Yearly (1)	Yearly (2)
	L & XXL	XL Pro, XXL Pro						
Security review as described in chapter 2.3 and described below	X	X						
Check the instructions for cleaning equipment and accessories to see if maintenance is due	X	X						
Function test of the extraction system		X						
Disposal of wastewater	X	X	X					
Cleaning the work surface	X	X		X				
Replacing the activated carbon filters		X						X
Replacing the filter roller		X						X
DGUV		X						X
Check the carbon fiber brush and replace it if necessary	X	X						

Table 3 Inspection and maintenance plan

(1) – 1/2 Annually or after 500 hours of operation.
(2) – Annually or after 1000 hours of operation.

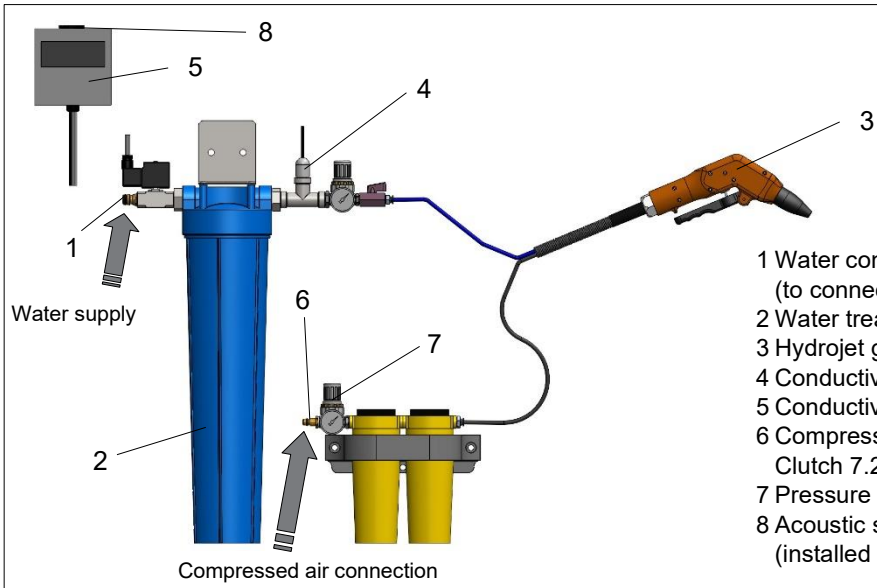
12 Optional Accessories

12.1 Water treatment module



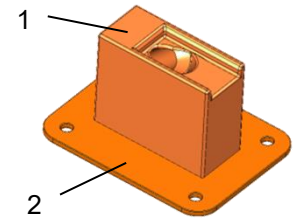
1 Water
1.1 Filter body
1.2 Filter cover
1.3 Filter
(Wear Part EP-06-152)
2 Main Safety Valve MB1
3 Pressure reducer + pressure gauge
4 Water connection factory
5 Manual Stopcock
6 Conductivity sensor
7 Water connection for hydrojet Pistol

12.2 Connection diagram water / air



1 Water connection
(to connect to the house connection)
2 Water treatment module
3 Hydrojet gun
4 Conductivity sensor
5 Conductivity Meter
6 Compressed air connection
Clutch 7.2mm NW; max. 6bar
7 Pressure reducing valve
8 Acoustic signal transmitter
(installed in the housing (5))

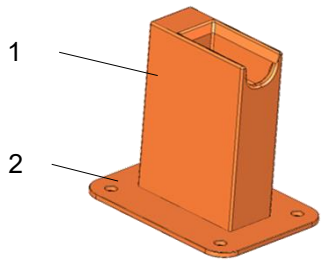
12.3 Mounting Hydrojet Gun



1 Recording for Hydrojet gun (EP-06-041)
2 Grating adapter plate for recording

- The holder can be conveniently fixed anywhere on the work surface by means of "Christmas tree rivets".

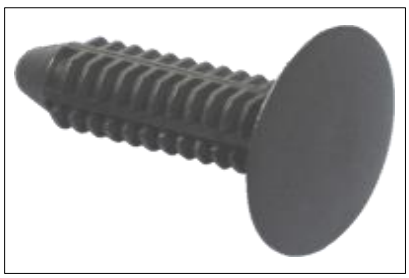
12.4 Recording AutoFeed



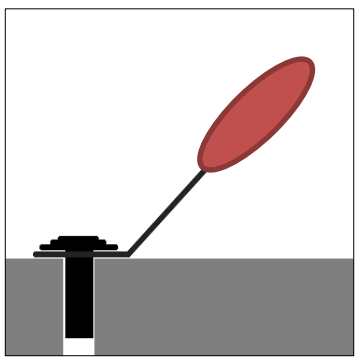
1 Recording for AutoFeed Handle (EP-06-042) TripleBrush (EP-06-048)
2 Grid East Adapter Plate for recording

- The holder can be conveniently fixed anywhere on the work surface by means of "Christmas tree rivets"

12.5 Tree rivet for attaching the mounts

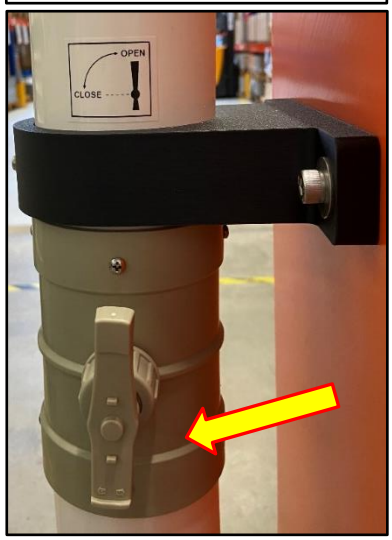


- Position the base plate of the Hydrojet or AutoFeed mount on the grating of the work surface and attach it with 4 tree rivets.



- To loosen the Christmas tree rivets, you can purchase the corresponding tool from us in a set of 10 replacement rivets.
  - Item number: EP-06-056
- To loosen, slide the tool under the rivet and pry up.

12.6 Bypass External Suction



- For external suction, an optional bypass can be retrofitted to the XL-Pro, XXL Pro workstation in order to be able to extract flexibly in various applications.
  - ➢ The length of the hose and the design of the suction nozzle can be individually adjusted on request.

- The extraction air flow can be individually adapted to the different applications by means of two butterfly valve regulators.
  - ➢ The large butterfly valve regulator can be used to regulate/stop the air flow to the suction cup.
  - ➢ The butterfly valve regulator on the bypass can be used to regulate/stop the airflow on the hose.
  - ➢ **Attention:** A flap must always be open!

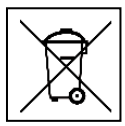
13 Disposal

13.1 Disposing of contaminated electrolytes

- Never **dispose** of contaminated electrolytes undiluted in the sewer system or environment.
- Heavy metal residues from oxidized welds and metal surfaces may be dissolved in the contaminated electrolytes.
- These must be filtered and disposed of properly.
- Before disposing, dilute electrolytes with plenty of water, lime or neutrality to a pH value greater than 5.

Hint
We will be happy to provide you with a concept for professional water treatment.
Talk to us.

13.2 Disposing of e-waste



- Old appliances and batteries must not be disposed of in normal household waste.
- This device, as well as all components, must be disposed of in an orderly manner at the end of its service life.
- Hand in the old device and components at a collection point for electronic waste.
- Contact your local waste management company or municipal administration for more information.

14 Decommissioning / Storage

- For safe and gentle decommissioning/storage of the devices and accessories, please refer to the corresponding operating instructions.
- Turn off the device.
- Clean the tub of deposits with plenty of water.
- Wipe the cables with a damp cloth.
- Have the electrical cables checked by qualified personnel.
- Dry all items
- Close the electrolyte containers carefully
  - ➢ No electrolyte must leak
  - ➢ If possible, store this and accessories in the compartments under the workstation.
- Lock the doors.
- Clean the workstation thoroughly, as well as all associated devices and components!
- Adhering chemicals can cause damage due to corrosion during storage.
- Do not store the workstation loaded.
- For storage, we recommend the workstation on a pallet with 2nd small pallets underneath for better storage and neatly fastening.


Security
Chemicals must not get into the hands of children!
Keep them under wraps!

15 Equipment technology

In conjunction with the associated devices and components, the workstation is a compact system for electrochemical cleaning of metals.

- It was developed for commercial use in trade and industry.
  - ➢ It is suitable as a workbench for cleaning and polishing TIG and MAG welds.

- Toxic hydrofluoric, sulphuric or nitric acids, as is otherwise the case with conventional pickling processes, are not used.
  - ➢ These must not be used under any circumstances, as Reuter GmbH & Co. KG. can only confirm resistance to your own electrolytes.

- The electrochemical processing equipment works with low DC and AC voltages.
  - ➢ Are harmless to humans.

- The workstation has a strong extraction system that runs continuously (noise level <75dB).

Security

- The workstation is designed exclusively for electrochemical cleaning/polishing!
- The workstation must not be used for pickling/grinding/welding. can be used!
  - There is a risk of fire if sparks are sucked in by the extractor.

- The workstation is a work table specially designed for electrochemical cleaning with Reuter devices.

- The materials have been selected for their acid resistance,
  - this resistance can only be taken over against the chemicals we use.
  - The grating made of GRP-reinforced, acid-resistant plastic prevents scratching of the sensitive stainless steel surfaces of the workpieces to be processed.
  - In addition, the work table offers a large drip tray directly under the work surface, in which the electrolyte and rinse water can drain off.

- Depending on the version, there is a collection canister underneath the trough, with which the waste water can be conveniently collected and disposed of.

- As an additional option, an extraction system can be installed to absorb the process fumes.

- Further options can be realized through our modular system.

- Special designs or other dimensions are feasible.

- If you have any wishes, please feel free to contact us.

Hint

The materials are resistant to the electrolytes of the Reuter company. Liability is excluded for other acids.

16 Clean containers, handles and workstations

- Always clean all accessories with plenty of soap and water after each use.
- If necessary, wipe the device housing with a slightly damp cloth.
- Neutralize the diluted electrolyte residues.
- Clean the workplace thoroughly with plenty of water.

  Electrolyte residues can lead to chemical burns to the skin or clothing.
- Electrolyte residues can cause damage to surfaces.
- Wipe the cables and the massage pliers with a damp cloth with water and a cloth.
- Remove all electrolyte residues around the workplace, workbench and floor with plenty of water.
- To clean the tub, remove the grates.
  ➢ The hand hanger makes it easier for you to lift.

Security
Always pull the plug before starting maintenance, servicing and repair work!

Attention! Danger of jamming!
Risk of jamming of the fingers when inserting the grating or the tub.