

Operating Instructions

POLIRET CLASSIC

LABORATORY EQUIPMENT IN STAINLESS STEEL



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Dear Customer!

The POLIRET CLASSIC is a high quality polishing unit made of stainless steel, equipped with a brushless, maintenance free two speed motor: 1.500 and 3.000 rpm. The polishing unit is suitable for grinding, polishing, cleaning and brushing metal or plastic objects. It is equipped with an integrated powerful extraction. The fleece filter bags are washable and reusable. Two separately adjustable extraction channels, to increase extraction performance on the respectively other side.

Any other use or usage beyond this scope is considered unintended use. The manufacturer shall not be responsible for any damages that may result thereby.

Prior to installation of the device operating instructions and especially the safety instructions must be read and followed by all personnel who use this device.

After having unpacked the device, please check carefully whether transportation damages of any kind have occurred. If that is the case, the carrier or manufacturer must be notified within 3 days. The company will not be responsible for any damages found after that.

These operating instructions must be read and followed by all personnel who use this device.

To ensure quick access we recommend to keep it at a safe place near the device. In case of loss it can be ordered from the manufacturer.

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1 Technical Description

1.1 Basic Equipment

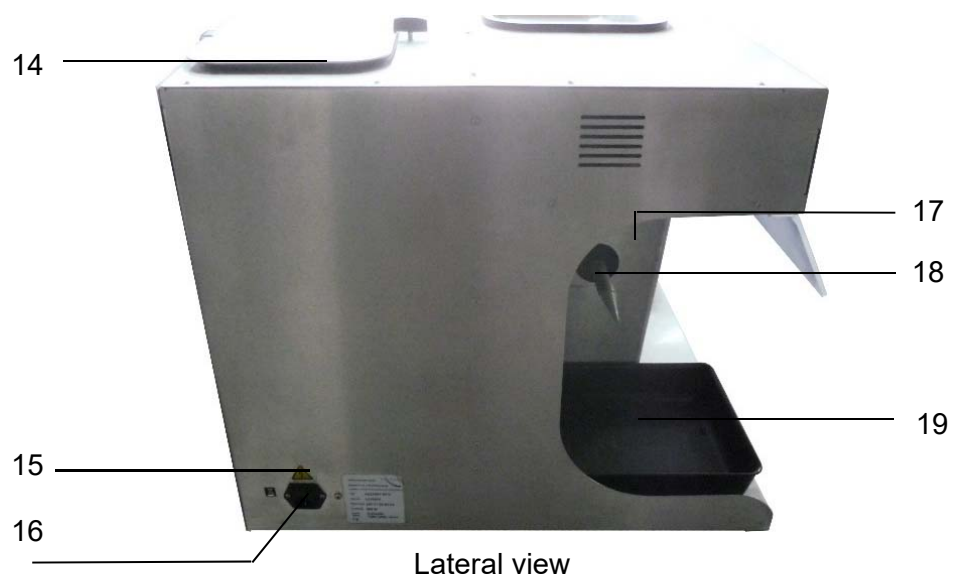
- POLIRET CLASSIC Polishing unit
- Right and left polishing spindle
- 2 filter bags
- 2 polishing troughs

1.2 Special Accessories

- Order-No. 24900000 Vario–lifting table
- Order-No. 22702200 Filter bags

1.3 Device components

- 1 Left fixing screw
- 2 Adjustable extraction channel, left side
- 3 Speed selector switch
- 4 Left safety glass
- 5 Left polishing spindle
- 6 Right fixing screw
- 7 Adjustable extraction channel, right side
- 8 Emergency stop switch
- 9 Power switch
- 10 Off switch
- 11 Extraction switch
- 12 Right safety glass
- 13 Right polishing spindle
- 14 Cover
- 15 Device protection fuse
- 16 Power socket
- 17 LED Lamp
- 18 Polishing shaft sealing
- 19 Polishing trough
- 20 Filter bag
- 21 Clamp rings
- 22 Filter adapter



Lateral view



Interior of the device

1.4 Technical Data

| | |
|--|-----------------|
| Line voltage | 230 V/50–60 Hz |
| Current consumption power | 400 W |
| Current consumption extraction | 190 W |
| Height/width/depth | 500/730/560 mm |
| Weight | 60 kg |
| Two speed motor | 1.500/3.000 rpm |
| Extraction | 600 m³/h |
| Sound level | ≤ 70 dB(A) |
| Housing | stainless steel |
| Made in Germany (Subject to modifications) | |

2 Safety Notes

2.1 General Safety Notes

- All equipment undergoes final inspection and testing before leaving our factory. However, if equipment is damaged during shipping or through any other circumstances, it must not be used in service. Please check the device regularly for damages. Damaged parts should be replaced immediately.
- All power/air/water/gas sources should be rated for the demands of the device as listed in the technical data sheets. Maximum ratings must not be exceeded. All VDE (Verein Deutscher Elektro-Ingenieure) standards should be followed. Equipment should be grounded according to standards.
- Adherence to valid regulations regarding necessary checks (e.g. according to Accident Prevention & Insurance or electrical equipment) is exclusively taken over by the buyer/user of this product.
- This device has been designated to be used only for its intended purpose. All other applications must be prohibited for safety reasons as otherwise the manufacturer's warranty expires.
- The device should be set-up in a clean, well-ventilated room, if necessary under a hood.
- Supporting surfaces should be straight, flat and adequately stable.
- Don't place anything on top of the machine.
- To avoid injury, appropriate protection should be worn (e.g. gloves, safety glasses, safety shoes, hearing protection etc.)
- If the machine is defective or working improperly it must be taken out of service. In case of further use of the machine the owner will be held responsible for any consequential damage.
- To prevent accidents from water, fire or explosion, all power/air/water/gas sources should be turned off after working hours and during breaks, and secured against unauthorized access.
- When carrying out maintenance works or repairs or when opening the device always turn off the main power switch and unplug the whole unit.
- Repairs should be carried out only by the manufacturer or by qualified and certified personnel appointed according to chapter 7 – warranty.
- In case of leaking water out of housing or tank shut down device and call service.
- Check all hose connections for tightness, if necessary tighten hose clamps.

2.2 Specific Safety Notes

Note:

- After turning off the device wait for at least 2 minutes before unplugging the unit, to discharge the capacitors.
 - Fix the tools securely to the spindle to prevent injuries.
 - Don't operate the machine at too high speeds, to prevent burns!
 - Keep the housing clean and dry.
-
- Tools may only be changed when the spindle stands still and the whole unit is unplugged.
 - When working, flap down the protective panel and wear safety goggles.
 - Only use appropriate and no unbalanced tools. Make sure that all tools are fastened securely.
 - Switch on extraction.
 - Do not reach into the running machine.
 - Always respect the tools manufacturer's instructions (e.g. max. speed, admissible material).
 - Only use appropriate material for polishing. Always follow the polishing agent manufacturer's instructions, especially regarding health protection.
 - Always wear clothing which is tight at the forearms and hands. Long hair as well as jewelry could get caught in the rotating parts and result in injury.
 - Only use cleaned or disinfected materials for polishing.
 - In case of danger press emergency stop switch (8). To unlock, turn the emergency stop switch to the right.
 - Hold the object to be polished tight. Danger of flying parts or particles, possibly damaging the workpiece.

3 Installation

The electrical equipment is delivered fully installed. The sealed plug can be connected directly to the mains supply 230 V / 16 A. Regarding installation, please adhere to safety notes in chapter 2.

3.1 Installation

Leave sufficient space above the equipment for filter replacement and for exhaust air outlet. Connect to the power supply.

3.2 Tool assembly

1. Attach the polishing spindles (5) and (13) tightly to the axle and fasten them with a hex screw. Check that they fit correctly.
2. Attach the polishing tool to the spindles (5) and (13). Check that it fits correctly.
Right side: right-handed thread.
Left side: left-handed thread.
3. Detach the polishing spindles (5) and (13) from the axle by removing the Allen screw. If necessary, use a pressure tool.

4 Operation

4.1 Sequence of operation

1. Fix the polishing tool, if necessary fill in polishing paste and/or pumice in the polishing troughs or apply to the polishing tool.
2. Turn the power switch (9) on.
3. Turn the polishing motor on with the speed selector switch (3) (step 1 = 1500 rpm, step 2 = 3000 rpm).
4. Switch on the extraction with the extractor switch (11). Suction performance can be increased by closing one of the extraction channels (2) or (7), to increase extraction performance on the respectively other side.
5. Hold the object to be polished tight and slightly push it against the rotating polishing tool.
6. After finishing work, turn off polishing machine with the speed selector switch (3) and the power switch (10).

4.2 Filter Replacement and Cleaning

1. Remove the locking screws (1) and (6) on top of the unit and remove the lid (14).
2. Remove the old filter bag (20) by releasing the clamp ring (21) from the filter adapter (22).
3. Empty the filter bags, if necessary, wash them:
 - a. a. Water-soluble contaminants can be washed with cold or 40-50°C warm water in a trough or washing machine. The addition of 1-3 g/L of non-ionic surfactant is helpful.
 - b. For acidic contaminants, wash at a maximum of 50°C with the addition of 1-2 ml/L of ammonia. Alkaline contaminants can be dissolved by soaking in water at a maximum of 50°C with 1-2 ml/L of vinegar for one to two hours.
 - c. Resin-based impurities require soaking for several hours in cold water with 1-10 g/L of solvent.
 - d. The filters can be dried in a machine dryer at a maximum of 60°C or air-dried.
 - e. No obligations can be derived from the above recommendations. After the new filter bag has been positioned on the adapter, fasten the clamp ring and reinstall the cover, closing it.

4.3 Lamp Replacement

1. Turn off the power switch (10) and pull the plug.
2. Unscrew plexiglass cover.
3. While holding the lamp, gently pull it out.
4. Insert the new lamp until seated.
5. Attach plexiglass cover and refasten it.

5 Troubleshooting

| | |
|--------------------------------|---|
| The device does not switch on. | <ul style="list-style-type: none"> a. Emergency switch was pressed. To unlock, turn the button to the right. Switch on again the device with the speed selector switch (3) b. Power failure →check domestic fuse. Turn off (10) and on (11) the device. c. Check device fuse (15). |
| Insufficient suction power. | <ul style="list-style-type: none"> a. Clean filter bag (20) or replace it. The filter is machine washable at 40 °C. Please follow the instructions of the polishing agent. b. Loose lid (14). Attach the lid so that it fits tightly. |
| Insufficient motor power | <ul style="list-style-type: none"> a. Polishing brush might be too large (max. diameter: approx. 150 mm) b. Grinding pressure is too high. |
| Machine runs unevenly. | <ul style="list-style-type: none"> a. Check if polishing disc or polishing spindle is unbalanced. b. Remove spindle, using an Allen key and replace it. c. Change tools (pay attention to type of thread). |

6 Maintenance

- Check the device regularly for damage. Pay attention to visible damage to the housing or power cord.
- Regularly clean dirty tools and polishing troughs (19).
- Regularly replace broken or worn tools.
- Regular wash or clean the filter bag (20) (see chapter 4.2 filter replacement).

Note:

Clean and protect your device regularly with the REITEL stainless steel care spray (order-no.: 90405000), to remove lime, plaster and dust as well as other contaminants from the surface of equipment and to prevent corrosion. The spray creates a lasting, water repellent protective film which helps keep the equipment clean.

7 Warranty

We, REITEL Feinwerktechnik GmbH, offer a 1 year's warranty beginning from the proven date of purchase. This warranty covers all defects traceable to materials, design or workmanship. The following warranty regulations are applicable:

Within the warranty period Reitel Feinwerktechnik GmbH or an authorized distributor agrees at its sole option, to perform repair or replace this product at no charge covering all defects traceable to materials, design or workmanship. Warranty only applies to appropriate use and regular maintenance of this product according to the operating instructions. Claims under warranty are restricted to complementary performance. Additional claims, especially claims for indemnifications, are not covered by this warranty.

1.

Warranty claims have to be addressed to the distributor the product was purchased from or directly to our service department.

Contact:

REITEL Feinwerktechnik GmbH

Senfdamm 20

49152 Bad Essen

Germany

Phone: +49(0)5472-9432-32 (Service Department)

Phone: +49(0)5472-9432-0 (Reception)

Fax-No: +49(0)5472-9432-40

2.

In case of warranty claim application the sales receipt or your purchase invoice showing the date of purchase of the product and the serial number must be furnished. Securely pack and ship the device, freight charges prepaid, at your own risk to us, along with a report describing the defect. We reserve the right to decline warranty if this information has been removed or modified after purchase of the product or if they are not included in case of warranty claims.

3.

Warranty repairs have to be performed by REITEL Feinwerktechnik GmbH or by authorised distributors. Repairs performed by non-authorised companies will void the claim for refund since damages to the product resulting hereof are not covered by warranty.

4.

If the unit sent in for repair or replacement is still under the original warranty then warranty is to the end of the original 1 year warranty.

5.

If the unit is destined to be operated in another country than originally intended and manufactured for, modifications to the product might be necessary to comply to special technical and /or safety standards of that specific country. Such modifications are no defects traceable to materials, design or workmanship. and are therefore expressly excluded from warranty claims.

Modification costs or damages arising from operation of the product under deviating conditions are not covered by warranty.

6.

Exclusions from warranty:

- Service and maintenance work as well as repair and replacement of consumables according to our consumables' list
- Transportation cost of the machine or installation and dismounting expenses incurred
- Damages due to use of the product other than for its intended purpose
- Damages due to faulty installation or insufficient maintenance of the product (e.g. decalcification)
- Damages due to natural disaster e.g. lightning, water, fire, act of nature beyond control, war, inadequate line voltage, insufficient ventilation, no decalcification, insufficient care and cleaning or non-adherence to operation and maintenance instructions according to the accompanying operation guide.
- Damage due to use of the product other than in accordance with the instructions provided by REITEL Feinwerktechnik GmbH;
- The warranty does not cover the cost of removal and replacement of parts and accessories, unless supplied as original equipment by REITEL Feinwerktechnik GmbH
- All kind of damages occurred not directly at the device as well as consequential damages (e.g. damages to furniture due to a lack of water, downtime of the machine, material, lost working hours, wages and other consequential damages).

This warranty shall be rendered null and void if:

- the product has been subject to any modification, repair or replacement other than as authorised by REITEL Feinwerktechnik GmbH
- the product is continued to be operated despite a functional defect

7.

The warranty is device specific and may be claimed, within the warranty period, by any person who has legally acquired the device.

8.

Consumables are excluded from warranty. Spare parts are subject to a warranty coverage of 6 months against all defects traceable to materials, design or workmanship according to these warranty regulations.

9.

Legal default claims on the part of the purchaser remain unaffected by this warranty.

10.

We reserve the right to charge a fee if repair of the device is rejected and the device is destined to be sent back unrepared.

11.

Please note:

Upon repair or replacement of this unit, personal data and settings might get lost or damaged. We don't accept liability for all kind of data loss. The customer is advised to backup essential programs and data before sending for service.

12.

This warranty shall be interpreted in accordance with German law to the exclusion of UN sales law. Place of jurisdiction is our business location.

13.

If any provisions of this warranty are judged to be illegal or unenforceable, the continuation in full force and effect of the remaining provisions will not be prejudiced. The provisions of this warranty judged to be illegal or unenforceable shall be construed so as to give effect to the intent manifested by the provision held invalid, illegal or unenforceable and to give effect to section 13 hereof.

14.

Should you need to borrow a device while your device is being repaired, please contact Messrs. REITEL or your distributor. These loans are a service for which availability cannot necessarily be guaranteed. After the warranty period, a fee may be charged for loan equipment as well as for shipping and packaging.

8 Disposal Regulations



According to valid laws our devices are disposed of properly according to B2B – regulations for proper disposal. Please contact your local dealer for information on local disposal guidelines.

9 Spare Parts List

| Best.-Nr. Reference | Poliret Classic Ersatzteilliste / Spare parts list | Stck/ME Qty. | ME Unit |
|------------------------|--|-----------------|---------------|
| 22702200 | Filterbeutel / Filter bag 2 St./Pack | 1 | Pack |
| E6152100 | Kantenschutzprofil Edge protection profile | 1 | m |
| 22603000 | Polier- und Schleifaufnahme m.Bohrfutter | 1 | Stck piece |
| E6064800 | Schalter beleuchtet grün Green illuminated switch | 1 | Stck piece |
| E6019710 | Schalter mit Wiedereinschaltenschutz Switch incl. restart protection | 1 | Stck piece |
| E6158800 | Scheibe, Acryl 185*50*4 dick für Beleuchtung Acrylic screen for lamp | 1 | Stck piece |
| E7344200 | Protective glass acrylic glass (pack / 2 pieces) | 1 | Pack |
| 21111000 | Protection glass version, only for original equipment instead of acrylic glass | 1 | Stck piece |
| E7049300 | Sicherung 4 A träge Delay fuse 4 A | 1 | Stck piece |
| E6149100 | Stufenschalter für Motor, Seriennummer vom Gerät angeben Tap changer for motor, pls. indicate device's serial no. | 1 | Stck piece |
| E6269000 | Trog Trough | 1 | Stck piece |

10 EU DIRECTIVE

EU-Konformitätserklärung EC-Conformity Declaration CE-Déclaration de Conformité

im Sinne der EG-Richtlinie 2006/42/EG über Maschinen (Anhang II A)
according to Machinery Directive 2006/42/EC (Appendix II A)
au sens de la Directive Machines 2006/42/CE (Annexes II A)

Name und Anschrift des Herstellers/Name and address of manufacturer/Nom et adresse du fabricant:

Reitel Feinwerktechnik GmbH
Senfdamm 20
49152 Bad Essen

Diese Erklärung bezieht sich nur auf die Maschine in dem Zustand, in dem sie in Verkehr gebracht wurde; vom Endnutzer nachträglich angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt. Die Erklärung verliert ihre Gültigkeit, wenn das Produkt ohne Zustimmung umgebaut oder verändert wird./This declaration relates exclusively to the machinery in the state in which it was placed on the market and excludes components which are added and/or operations carried out subsequently by the final user. This declaration will become invalid if any unauthorised modification is made to the product./Cette déclaration concerne exclusivement les machines dans l'état dans lequel elles ont été mises sur le marché et exclut des composants ajoutés et/ou les opérations effectuées par la suite par l'utilisateur final. La présente déclaration perd sa validité si des modifications non-autorisées ont été apportées à la machine.

Hiermit erklären wir, dass die nachstehend beschriebene Maschine/**We hereby declare** that the machine described below/**Nous déclarons** que la machine ci-dessous

Produktbezeichnung/Product name/Nom du produit: Poliereinheit/
Polishing Unit/
Unité de Polissage

Typenbezeichnung/Type/Type: POLIRET MINI / CLASSIC / COMFORT / TWIN

allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG sowie der Richtlinie 2014/30/EU (EMV-Richtlinie) über elektromagnetische Verträglichkeit entspricht. Die Schutzziele der Richtlinie 2014/35/EU über elektrische Betriebsmittel sowie 2011/65/EU (RoHS 2) werden eingehalten./is in conformity with all applicable requirements of the Machinery Directive 2006/42/EC and the Electromagnetic Compatibility Directive 2014/30/EU. The safety objectives of the Directive on Electrical Equipment 2014/35/EU as well as the Directive 2011/65/EU (RoHS 2) are adhered to./est conforme aux dispositions applicables de la Directive Machines 2006/42/CE et de la Directive Compatibilité Electromagnétique 2014/30/EU. Les objectifs de sécurité de la Directive sur les Matériels Electriques 2014/35/EU ainsi que de directive 2011/65/EU (RoHS 2) sont respectés.

Angewandte harmonisierte Normen/Harmonised standards applied/Normes harmonisées appliquées:

| | |
|---------------------|-------------------|
| EN ISO 12100:2011 | EN 61010-1:2020 |
| DIN EN 60204-1:2019 | EN 61000-6-1:2019 |
| DIN EN 45635-1 | EN 61000-6-3:2011 |

Bevollmächtigter für die Zusammenstellung der relevanten technischen Unterlagen/Representative authorised to compile the relevant technical documentation/Personne autorisée à constituer la documentation technique pertinente:

Daniel Reitel
Reitel Feinwerktechnik GmbH
Senfdamm 20
49152 Bad Essen

11.02.2021

Ort, Datum
Place, Date
Lieu, Date

Daniel Reitel, Geschäftsführender Gesellschafter/Managing Director/
Directeur Général



Unterschrift/Signature/
Signature

We manufacture in compliance with Quality Management ISO 13485:2016 incorporating established standards.



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