

## Operating Instructions

### POLIRET MINI

LABORATORY EQUIPMENT IN  
STAINLESS STEEL



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Dear Customer!

The POLIRET MINI is a compact polishing unit with a powerful motor. It is equipped with a right side mounted spindle. The polishing unit is perfectly suitable for grinding, polishing, cleaning and brushing metal and plastic materials. Excellent results and high efficiency are achieved by the infinitely variable speed from 1.000 - 4.500 rpm. An integrated extraction provides for dust extraction directly behind the polishing brush with an easy change fleece filter, machine wash. A safety glass offers high operational safety.

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.

Store it at a safe place near the device. This documentation is protected by copyright.

Transmittal or reproduction of this document in whole or in part and disclosure of its contents is not permitted. If the operation manual gets lost an extra copy can be ordered from the manufacturer.

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## 1 Technical Description

### 1.1 Basic Equipment

- Polishing unit POLIRET MINI with polishing spindle, working lamp and filter bag

### 1.2 Special Accessories

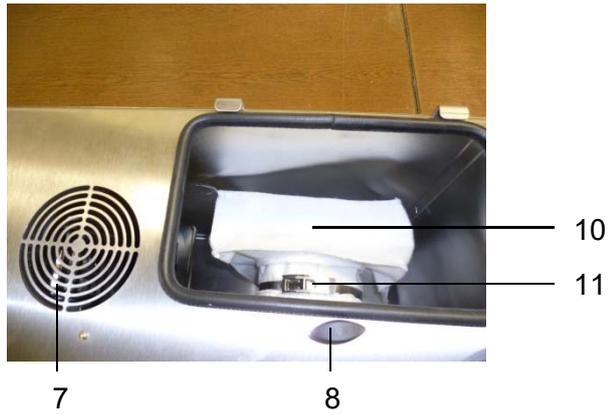
- Order-No.: 24800000 Vario Lifting table
- Order-No.: 22603000 Workholding fixture incl. drill chuck
- Order-No.: 22702100 Filter bag with zipper

### 1.3 Device Components

- 1 Safety glass
- 2 Polishing spindle (use an Allen key to remove spindle)
- 3 Speed controller
- 4 Power switch
- 5 Extractor switch
- 6 Motor stop button
- 7 Exhaust air opening (topside)
- 8 Fixing screw
- 9 Tray
- 10 Filter bag with zipper (inside the machine)
- 11 Clamp ring for filter (inside the machine)



Device view



Interior view

#### 1.4 Technical Data

Line voltage	230 V/50–60 Hz
Motor power	600 W
Extraction	115 W
Height/width/depth	430/530/400 mm
Weight	24 kg
Infinitely variable speed	1.000 – 4.500 rpm
Extraction	500 m <sup>3</sup> /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 leak tightness, if necessary tighten hose clamps again.

## 2.2 Specific Safety Notes

**Note:**

- The tool must be securely fixed to the spindle, otherwise there is a risk of injury!
- If motor speed is too high there is danger of burning!
- Keep the housing dry and clean.

- Tools may only be changed when the spindle stands still and the mains plug is disconnected.
- Use only appropriate tools and no unbalanced tools. Make sure that the tools are securely fixed.
- Switch on the extraction.
- Never reach into moving machinery.
- Always adhere to the regulations stipulated by the tool's manufacturer (e.g. max. speed, recommended material).
- Make sure to use only appropriate material for polishing. Adhere to the manufacturer's regulations, especially for health protection.
- Take care that the clothing at wrist and forearm is tight. Avoid loose hair and jewellery which could get into the working spindle or the tools.
- Make sure to use only cleaned or disinfected material with this machine.
- In case of emergency press the motor stop button (6). To unlock the motor stop button turn it to the right.
- Hold the workpiece firmly in place otherwise there is the danger of flying particles that might damage 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. For installation please refer to Safety Notes in chapter 2.

### **3.1 Installation**

Leave enough space (at least 20 cm) to accommodate exhaust. Establish the power supply.

### **3.2 Tool Assembly**

1. Push the polishing spindle tightly onto the axle and secure it with a hexagon socket head screw. Check for proper fit.
2. Attach the required tool to the polishing spindle and check for proper fit: right-hand thread.
3. The polishing spindle can be removed from the axle by releasing the hexagon socket head screw; if necessary use a pressure tool.

## **4 Operation**

### **4.1 Chronological run of operation**

1. Fix the polishing tool to the spindle and fill the tray (9) with polishing paste and/or pumice or apply it to the polishing tool.
2. Use the speed controller (3) to regulate motor speed. Before starting the appliance, set speed controller to 0. Switch on power (4). Wait approx. 2 seconds to regulate speed with the speed controller.
3. Use the extractor switch (5) to activate the extraction.
4. Pressing the emergency stop button (6) stops the running motor immediately in case of danger. The emergency stop button is unlocked by turning it to the right. Afterwards set speed controller (3) and power switch (4) to 0. Wait approx. 10 seconds to start the motor as described under point 2.
5. After having finished work turn power switch off (4).

## 4.2 Filter Replacement and Cleaning

1. Remove fixing screw (8) on top of the device to remove the cover.
2. Release clamping ring (11) to remove the old filter bag (10).
3. Empty the filter bags, if necessary, wash them:
  - 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. Slide the new or cleaned filter bag together with the clamping ring onto the inlet fitting. Close the clamping ring and attach the cover.
5. Fasten with fixing screw. (8).

## 5 Troubleshooting

Device won't start.	<ol style="list-style-type: none"> <li>a. The MOTOR STOP button is pressed. The MOTOR STOP button is unlocked by turning to the right. Turn the main power switch off and wait approx. 6 seconds before turning it on again. The motor starts running after approx. 6 seconds.</li> <li>b. Check the main fuse of the building.</li> <li>c. Check the appliance fuse. (The fuse holder is located inside the power socket of the device.)</li> </ol>
Overload protector has tripped.	Overloaded motor due to steady use and/or excessive contact pressure → Turn off power, check for free spindle run and switch on power after a cooling-off period.
Insufficient suction power.	Clean filter or change it if necessary (machine wash at 40°C). Follow the manufacturer's instructions of the polishing material.
Insufficient motor power	Polishing brush is too big or max. diameter approx. 150 mm/contact pressure is too high.

Machine runs unevenly.	Check for unbalanced polishing disc or spindle
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## **6 Maintenance**

- Regularly check the device for visible damage to the housing or power cord.
- Clean regularly dirty tools as well as the tray (9).
- Replace worn or defective tools regularly.
- Change or wash the filter bag (10) regularly (refer to chapter 4.2 Filter change).

## 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 of 30 € if repair of the device is rejected and the device is destined to be sent back unrepaired.

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 regulations our devices are properly disposed of according to B2B – Regulations for proper disposal. For further information please contact your local dealer.

## 9 Spare Parts List

<b>Best.-Nr. Ref.:</b>	<b>Poliret mini (VA)/(Stainless steel) 54.2 Ersatzteilliste / Spare Parts List</b>	<b>Stck/ME Qty.</b>	<b>ME Unit</b>
<b>E6269000</b>	<b>Ablageschale Kunststoff schwarz - ab Geräteno. 635</b>	<b>1</b>	<b>Stck/piece</b>
<b>22702100</b>	<b>Filterbeutel mit Reissverschluss / Filter bag with zipper</b>	<b>1</b>	<b>Stck/piece</b>
<b>E7341700</b>	<b>Schutzscheibe, Acryl, ab Gerätenummer 635 / Acrylic protection panel</b>	<b>1</b>	<b>Stck/piece</b>
<b>E6012100</b>	<b>Lüftungsgitter / Ventilations's grid</b>	<b>1</b>	<b>Stck/piece</b>
<b>E6303800</b>	<b>Polierspindel / Polishing spindle</b>	<b>1</b>	<b>Stck/piece</b>
<b>E6064800</b>	<b>Schalter beleuchtet grün / Green illuminated switch</b>	<b>1</b>	<b>Stck/piece</b>
<b>E6246710</b>	<b>Schutzrohr Aryl Lampe / Acrylic protection tube for lamp</b>	<b>1</b>	<b>Stck/piece</b>
<b>E6048700</b>	<b>Sicherung 6,3A träge / Delay fuse 6,3 A</b>	<b>2</b>	<b>Stck/piece</b>

## 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 process standards.



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