

## Operating Instructions

### ROTOGRIND NT

**LABORATORY EQUIPMENT  
IN STAINLESS STEEL**



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Dear customer!

The ROTOGRIND NT trimmer with disc rinsing technology is well-equipped as both wet and dry trimmer for all applications. The disc rinsing keeps the disc clean, even after dry operation and prevents clogging. The front cover can easily be removed by a special quick release for convenient cleaning, fulfilling hygienic standards. For safety reasons, the ROTOGRIND NT is equipped with a quick stop and restart protection. The large grinding disc opening offers convenient access to the selected diamond or corundum grinding disc. The laser-engraved angle markings on the tray table provide perfect model alignment with variable angle adjustment and locking positions. During dry operation, dust is extracted directly from the tray table without having to change anything on the device. A high level of stability is ensured thanks to the robust stainless steel housing.

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

- Wet- / dry trimmer ROTOGRIND NT
- Inlet hose, 150 cm
- Drain hose, 80 cm
- Allen® key, size 6
- Allen® key, size 2

## 1.2 Special Accessories

- Order-No.: 20306000 LED working lamp
- Order-No.: 20308000 Laser guide for model alignment
- Order-No.: 20301000 Silicon carbide grinding disc
- Order-No.: 20302000 Fully coated diamond grinding disc „medium“
- Order-No.: 20303000 Fully coated diamond grinding disc „rough“
- Order-No.: 23401000 Partially coated diamond grinding disc „DELTA“, triangle segmented
- Order-No.: 23301000 Partially coated diamond grinding disc „PW“, mounted points
- Order-No.: 27902000 Extraction unit DUSTY COMFORT
- Order-No.: 20305000 Orthodontic angulation table (fitting for grinding disc Ø 280 mm)

## 1.3 Device components

- 1 Front cover
- 2 Grinding disc
- 3 Tray table
- 4 Adjusting spindle for tray table
- 5 Extraction hose for dry trimming
- 6 Quick release (secured with Allen® screw before first use)
- 7 Drain hose for wet trimming
- 8 Appliance outlet for extraction
- 9 Power supply
- 10 Power switch
- 11 Ball valve with black handle to regulate the amount of water
- 12 Switch for dry or wet trimming
- 13 Overload protection
- 14 Locking pin
- 15 Disc rinsing tube, small
- 16 Rubber seal
- 17 Retaining screw for fixing and removing grinding disc
- 18 Disc rinsing tube, large
- 19 Water inlet connector



Fig.: Front view



Fig.: Lateral view



Fig.: Lateral view

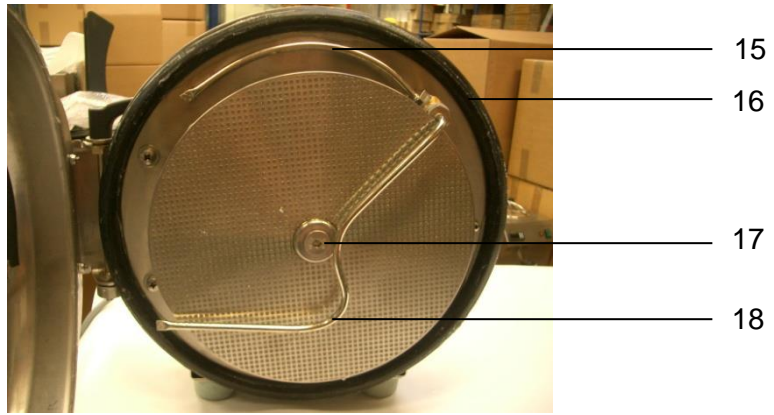


Fig.: Grinding disc



Fig.: Rear view

## 1.4 Technical Data

Line voltage	230 V/50-60 Hz
Current consumption	1.500 W
Height / Width / Depth	350/350/470 mm
Base of the unit (W/D)	200/250 mm
Weight	22 kg
Speed	3.000 rpm
Grinding disc diameter	250 mm
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 may only be used by persons who have been instructed in the handling and are expressly commissioned with the operation.
- 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.
- No objects may be placed on the device.
- To avoid injury, appropriate protection should be worn (as 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:

- Prior to opening the device, remove the locking pin (Allen® key) at the quick release (6).
  - Only use the ROTOGRIND NT with grinding discs, Ø 250 mm with exception of the orthodontic front cover, which is used with a grinding disc, Ø 280 mm. Smaller discs are not permitted since they increase the risk of injury
  - Investment material and dry hard plaster reduce the lifetime of the grinding disc. The diamond grinding discs may not come into contact with metal and quartzite material. The diamonds will start to melt immediately and the grinding disc becomes unusable.
  - The ROTOGRIND NT includes a wet-rinsing, cleaning the grinding disc. When working with material containing components which are not meant to be put into the public wastewater disposal, suitable cleaning systems have to be used or the wastewater has to be collected and disposed of separately.
- 
- The ROTOGRIND NT is a benchtop unit. Supporting surfaces should be straight, flat and adequately stable.
  - When opening the machine's front cover, please keep in mind that the grinding disc doesn't stop immediately after the machine has been turned off. Wait until it has stopped completely.
  - Wear safety glasses when trimming.
  - Always use a wedging block when working on smaller pieces.
  - First put the model on the tray table and then push it against the grinding disc.
  - Never reach into the running machine.
  - Only switch on the machine when the grinding disc is standing still.
  - Don't use worn or damaged grinding discs.
  - Only change the grinding disc when it is standing still and the whole unit is unplugged.
  - Only use original REITEL grinding discs – with an outer diameter of 250 mm. Using grinding discs supplied by other manufacturers will render our warranty null and void with immediate effect.
  - Always respect the regulations of the grinding disc's manufacturer (e.g. max. speed, sense of rotation, cutting speed, material to be worked on).
  - Keep the housing clean and dry.

## 3 Installation

The electrical equipment is ready for immediate use. 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

1. Connect the supplied hose to the water inlet connector (19) and fasten the hose clamp included in delivery. Connect the other end of the hose to your water tap.
2. Attach the drain hose to the water outlet (6). Route drain hose to plaster sink (respect local regulations), making sure it is sloped downward, toward drain, and free of kinks.
3. Connect the trimmer to the power supply.
4. For dry trimming, connect the extraction unit to the extraction hose (5) and plug the extractor's plug into the trimmer socket (8).
5. Before putting the device into operation, remove the locking pin from the quick release.

### 3.2 Changing a grinding disc

1. Turn off power switch (10). Pull the mains plug (9) from the socket.
2. Wait until the grinding disc has completely stopped.
3. Open the quick release (6) and then open the front cover (1)
4. Use the Allen® key (see chapter 1.1) to remove the retaining screw (17) counter-clockwise while holding the grinding disc. Then remove the grinding disc.
5. Before mounting, be sure the back of the grinding disc and the mounting surfaces are free of any dirt, debris or build up. Place grinding disc on backing plate hug and ensure correct positioning. Finally fasten the retaining screw clockwise.
6. Close the front cover with the quick release (6).

## 4 Operation

### 4.1 Chronological run of operation

1. Use the switch (12) to select the required grinding mode (12):
  - dry trimming (switch position "cloud")
  - wet trimming (switch position "water tap")
2. Adjust the inclination angle of the tray table (3) with the adjusting spindle (4). Secure it with the lock nut. Press power button (10).
3. Regulate water supply with the black handle (11) of the ball valve (on the right side of the device) (lever in horizontal position → open tap, lever in vertical position → closed tap). Each position in between regulates the amount of water.
4. Put the model to be worked on the tray table (3) and press it against the grinding disc (2). It is prohibited to use the trimmer with inadmissible material.
5. Switch off the device after operation. The disc stops running after a short time.
6. When switching on again, excess water is automatically removed from the grinding disc, enabling immediate changeover to dry trimming.

### 4.2 Cleaning

1. Turn off power button (10).
2. Pull off power plug (9) from socket.
3. Wait until the grinding disc has completely stopped.
4. Open the quick release (6) and remove the hinge (14) locking pin. Pull the locking pin out of the guide and remove the front cover (1) towards yourself.
5. Clean the front cover under running water and the inside with a damp cloth.
6. Clean the rubber gasket. Reinstall the front cover (1) and fix it with the locking pin (14). Tighten the locking hinge pin (14) and close the front cover (1) with the quick release (6).

## 5 Troubleshooting

Device doesn't turn on.	<ul style="list-style-type: none"> <li>a. Power failure → Check fuses in the building. Switch the device on again.</li> <li>b. Check safety switch by opening and closing the front (Switching operation is triggered by the pin at the housing).</li> </ul>
Low abrasion	<ul style="list-style-type: none"> <li>a. Replace worn or defective grinding discs.</li> <li>b. Clean dirty grinding discs (e.g. with a steam cleaner).</li> <li>c. Investment material and dry hard plaster reduce the grinding disc's service time.</li> <li>d. Check water cleaning, flushing hole may be blocked, too little water.</li> </ul>
Machine is untight.	<ul style="list-style-type: none"> <li>a. Check correct fitting of the front cover (1).</li> <li>b. Clean the gasket behind the front cover, use e.g. Vaseline to grease it</li> <li>c. Replace gasket.</li> </ul>
Grinding disc stands still.	<ul style="list-style-type: none"> <li>a. In case of blocking, turn power switch off and after 5 min. push in the appliance fuse.</li> <li>b. Retaining screw is not tightened or does not tension the disc (grinding disc too thin – third-party product) → Use spacer.</li> </ul>
Clogged drain	<ul style="list-style-type: none"> <li>a. Route drain hose to sink basin making sure it is sloped downward, toward drain, and free of kinks.</li> <li>b. Clogged drain hose, unclog.</li> </ul>
Odor nuisance during operation.	<ul style="list-style-type: none"> <li>a. Brake grinding → inform customer service.</li> <li>b. Too frequent switching on and off leads to smell of the brake.</li> </ul>
Vibrations during trimming.	<ul style="list-style-type: none"> <li>a. Clean mounting surfaces</li> <li>b. Check the axial runout of the grinding disc.</li> </ul>
Device moves on the table.	<ul style="list-style-type: none"> <li>a. Unbalanced grinding disc → replace.</li> <li>b. Dirty grinding disc → clean.</li> <li>c. Place the device on a vibration-free and stable surface.</li> </ul>

## 6 Maintenance

- Regularly check the appliance for visible damage to the housing or power cord.
- Clean the front and inner grinding area once a week (see chapter 4.2 cleaning).

### Note

Clean and protect your device at regular intervals 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 the 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 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 laws our devices are properly disposed of according to B2B – Regulations for proper disposal. Pls. contact your local dealer for additional information.

## 9 Spare Parts List

Best.Nr. neu 2018	Rotogrind (VA) (22.1 + 22.2) Ersatzteilliste/Spare Parts List 03/2019	Stck/ ME Qty.	ME Unit
E7056200	"Klebt + Dichtet" 70 ml Tube Sealing glue, 70 ml tube	1	Stck piece
E6014500	Ablaufschlauch Di 30 mm Drain hose	0,8	m
E7059610	Dichtfett Sealing grease	1	Stck piece
E6012010	Dichtungsgummi für Frontabdeckung ( ab 22.2 1013 413 ) Front rubber seal	1	Stck piece
E6014800	Dichtungsgummi für Frontausschnitt Rubber sealing for front cutout	1	Stck piece
E6015100	Inbusschlüssel 2mm Allen key 2 mm	1	Stck piece
E6015120	Inbusschlüssel Größe 5 Allen key, 5 mm	1	Stck piece
E7254400	LED-Lampe Leuchtkörper (nur für Trafo E60173) LED lamp bulb (only for network adapter E60173)	1	Stck piece
E7328000	Linearkugellager rostfrei (KFO) inkl. 61364.4 (2 St./Tisch)	1	Stck piece
E6019710	Schalter mit Wiedereinschaltenschutz 2 / 3 / 4 Switch incl. restart protection 2 / 3 / 4	1	Stck piece
E6015600	Schleifscheiben- Unterlegscheibe Alu Grinding disc support	1	Stck piece
E6013210	Schleifscheibenaufnahme (Alu) Aluminium disc support	1	Stck piece
E6037900	Umschalter Selector switch	1	Stck piece
E6022000	Wasser-Zulaufschlauch Water-feed hose	1	Stck piece
20305000	KFO angulation table, Adaptation required by the manufacturer	1	Bgr assy

## 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:** Nass- und Trockentrimmer/  
Universal dry / wet Trimmer/  
Taille modèles universel à eau et à sec

**Typenbezeichnung/Type/Type:**ROTOGRIND MINI / NT

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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