

Operating Instructions

SANDURET 2/3/4

LABORATORY EQUIPMENT IN STAINLESS STEEL



REITEL Feinwerktechnik GmbH

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Dear Customer!

The Microfine jet blasters SANDURET offer optimum surface quality for blasting different materials with all commercial abrasives from 25 to 250 microns. The device can be used for cleaning, buffing and polishing as well as for removing oxide layers from different surfaces. The special blasting principle and the heated chambers offer a constant flow of the abrasive that result in a smooth surface being created. The maintenance-free quick stop grants precise and economic use of abrasives. Different abrasive grain sizes enable various surface qualities.

The Microfine jet blasters SANDURET are available with 2 / 3 or 4 chambers (the cover shows the SANDURET 3 with drawer). The optional drawer unit is made of highly durable and solid stainless steel and permits the fast removal of surplus abrasive material.

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

- Microfine jet blaster SANDURET 2 / 3 / 4 chambers (depending on order)
- Set of carbide nozzles (depending on number of chambers, see chart on page 5)
- Funnel for filling in abrasive media
- Power cord
- Foot switch
- Tube replacement tool

1.2 Special Accessories

Order-No.: 12900000 DUSTY MINI

Order-No.: 17902000 DUSTY COMFORT

Order-No.: 24603000 SANDURET-drawer (depending on order)

Various carbide sandblasting nozzles (see chart on page 8)
 (please specify the desired flow rate when ordering)

1.3 Device Description

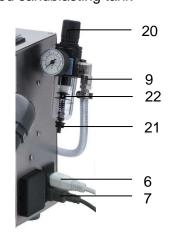
- 1 Power switch
- 2 Glass pane with protective foil
- 3 Gasket
- 4 Extraction adapter
- 5 Fuse (incl. spare fuse)
- 6 Power cord socket
- 7 Foot switch socket
- 8 Extraction unit socket
- 9 Compressed air connection
- 10 SANDURET-drawer (option)
- 11 Interior light (LED)
- 12 Glass pane with locking knob
- 13 Leather gauntlets
- 14 Screw plug for tank
- 15 Plexiglass lid seal
- 16 Plexiglass lid of the tank
- 17 Nozzle head (inside the tank)
- 18 Tank
- 19 Tank drain plug
- 20 Maintenance unit with pressure regulator
- 21 Valve for draining excess water
- 22 Water separator
- 23 Sand sieve
- 24 Blast nozzle
- 25 Nozzle holder
- 26 Nozzle pen
- 27 Nozzle
- 28 Selector switch for abrasives
- 29 Abrasive hoses
- 30 Funnel with filler neck
- 31 Foot switch
- 32 Rubber plug
- 33 Brass tube
- 34 Abrasive hose (in the tank)



Device view (SANDURET 3S)

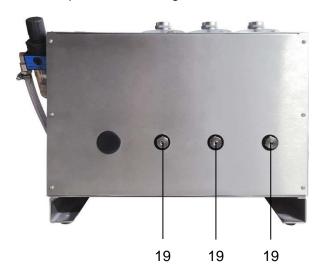


Closed sandblasting tank

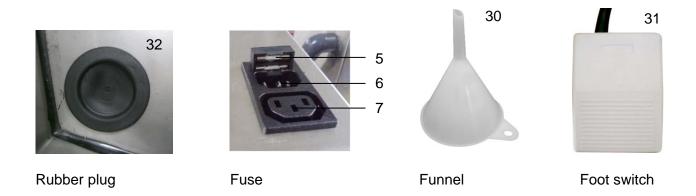


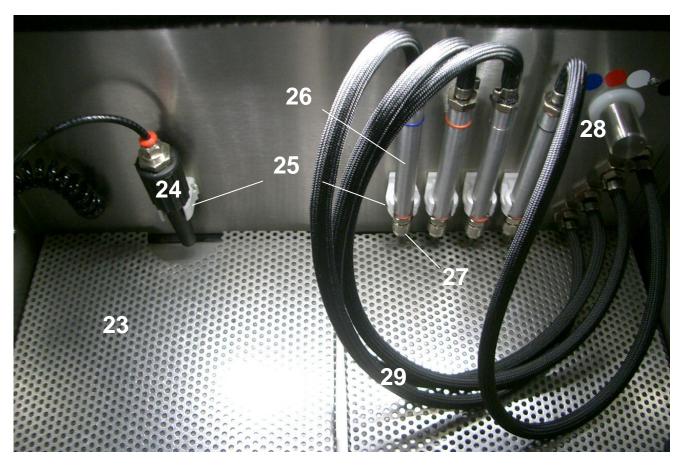
Lateral view

Open sandblasting tank



Backside of the sandblaster





Sandblasting cabinet

1.4 Technical Data

SANDURET	2	3	4			
Line voltage	230 V/50–60 Hz					
Current consumption	100 W	120 W	140 W			
Height/width/depth		320+160/480/440 mm				
Weight	17 kg	18 kg	19 kg			
Air consumption		approx. 80 l/min.				
Pressure		0,5-6 bar				
Sound level		65 dB (A)				
Housing		stainless steel				
Order-No.:	14601000	14600000	146020000			
SANDURET-drawer						
Height/width/depth 42/410/290 mm						
Order-No.: 24603000						
Made in Germany (Subject to modifications)						
SANDURET lid						
Glass pane	Glass pane 205 mm x 300 mm					
Opening 160 mm x 180 mm						
SANDURET bottom						
High x width	301 mm x 410 mm					
incl. inclined front on the left and right side (167 mm)						

1.5 Sandblasting Chamber and Nozzle Configuration

The Microfine jet blasters offer optimum surface finising with abrasives, such as corundum, aluminium oxide, glass polishing beads and combined abrasives from 25 to 250 microns.

	1. chamber	2. chamber	3. chamber	4. chamber
	blue	red	white	black
Sandblaster with	25–125 my	non-existing	125–250 my	non-existing
2 chambers				
Sandblaster with	25–75 my	75–150 my	150–250 my	non-existing
3 chambers				
Sandblaster with	25–75 my	75–150 my	150–250 my	150–250 my
4 chambers				

Chamber and nozzle configuration:

	1. chamber blue	2. chamber red	3. chamber white	4. chamber black
	Dido	100	Willie	Diaok
Sandblaster with	4.0		1,5 mm	non-existing
2 chambers	1,2 mm	non-existing		
Sandblaster with	2.2	4.0	4.5	
3 chambers	0,8 mm	1,2 mm	1,5 mm	non-existing
Sandblaster with	0,8 mm	1,2 mm	1,5 mm	1,5 mm
4 chambers	0,0 11111	1,2111111	1,5 111111	1,5 11111

The use of the corresponding nozzles for chamber 1 must be strictly observed. Deviations from specified nozzle sizes in the other chambers may lead to poor blasting results.



Detail view SANDURET 2S



SANDURET 4S

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.

2.2 Specific Safety Instructions

Note:

The recommended abrasive grain sizes for the tanks have to be strictly adhered to. Finer grain sizes than 25 my are not permitted and clog the ventilation unit.

The abrasive chambers may only be opened in a depressurized state.

The tank lids must be positioned evenly and closed with the tank cap screw (14) prior to starting work.

The use of liquids or outgassing agents is not permitted. Purpose of use only in compliance with the manufacturer's information and regulations.

Regularly check the device for condensate in the compressed-air service unit (see chapter 6).

- When working with the machine, keep the glass pane closed and connect the machine to a suitable extraction.
- Always wear gloves, safety glasses and face masks to avoid injuries.
- The device may only be operated with commercially available, harmless powder blasting media.
- No harmful blasting media, gases or liquids may be used.
- The device must not be operated with gases other than compressed air
- The cabinet locking knob (12) may only be opened when the device is depressurized.
- The sand jet is only to be aimed at objects to be cleaned, never at living beings.
- Do not set up any devices that are sensitive to dust near the sandblaster.
- If the blasting abrasive comes out, stop using it and call the service.

3 Installation

The electrical equipment is supplied including an IEC plug and power cord and can be operated with your standard household 230 V / 16 A power connection. For installation please refer to chapter 2.

3.1 Installation

- 1. Plug the mains cable into a current supply socket.
- 2. Establish the compressed air connection (9) (0,5–6 bar). Regulate the pressure with the pressure regulator (20). Do not set the pressure above 6 bar.
- 3. Connect the extraction as follows:
 - Insert the extraction plug into the extraction unit socket (8),
 - Attach the extraction tube to the extraction adapter (4),
 - Activate the extraction unit.
- 4. Insert the plug of the foot switch (31) into the foot switch socket (7).
- 5. Attach the nozzles (27) to the nozzle pens (26). Upon delivery the nozzles are premounted. Please refer to notes in chapter 1.

3.2 Filling the Chambers

Note:

Removing the blasting chambers is only intended for repairs.

Only use the supplied funnel with filler neck (30) for filling abrasive material in the tanks. Do not fill in more than 450 ml of abrasive material to avoid overfilling. The filling area must be clean (cover, screw thread, chamber discharge nozzle).

Fill in abrasive material (see chapter 1).

- Release pressure, open the tank with the screw plug (14) and remove the tank lid (16),
- Insert the funnel (30) completely into the chamber (guiding it along the nozzle head
 (17) and fill in abrasive material,
- Correct filling height = up to the screw (approx. 7 cm below the top edge), the ventilation slot must remain free
- Clean the lid's opening of residual abrasive (if necessary use a brush),
- Put tank lid (16) on tightly and fasten the screw plug (14).

4 Operation

4.1 Chronological run of operation

- 1. Turn on the main power switch (1).
- 2. The jet pressure is continuously adjustable with the pressure regulator (20) up to a max. of 6 bar (uniform for all chambers).
- 3. Use the abrasive selector switch (28) inside the cabinet (colour identification) to select the desired chamber.
- 4. Start and stop the blasting process with the foot switch (31).
- 5. Use the blast nozzle (24) to clean objects.
- 6. After having finished work turn off the device with the power switch (1).

4.2 SANDURET Drawer

The optional drawer is made of highly durable and solid stainless steel and permits the fast removal of surplus abrasive material. Empty the drawer regularly. Proceed as follows:

- 1. Pull out the SANDURET drawer (10).
- Remove surplus abrasive material. If there is abrasive material inside the cabinet, making
 it difficult or even impossible to resinsert the drawer, use the extraction to hoover the
 sandblaster's cabinet. Dispose of surplus abrasive material according to manufacturer's
 instructions.
- 3. Reinsert the SANDURET drawer (10). Make sure that the drawer slide is clean.

5 Troubleshooting

	<u> </u>
Jet becomes irregular.	 a. The abrasive may be dirty → Change abrasive, if necessary unscrew the nozzle and blow through.
	 b. Wrong nozzle → Please adhere to nozzle configuration in chapter 1.3 (important for chamber 1).
	 c. Insufficient quantity of abrasive material in the chamber → add abrasive.
	d. Worn nozzle → replace nozzle
Clumped abrasive, condensation has	a. Abrasive might be damp \rightarrow Remove the
formed.	tank's screw plug, switch on the device
	and let it evaporate for several hours -
	the chambers are heated.
	b. Always use dry abrasive material.
Sandblasting cabinet is very dusty.	 a. Insufficient extraction power: →
	increase extraction power.
	b. Dust bag is full \rightarrow change dust bag.
	 c. Clean extraction → e.g. change motor filter.
LED (11) doesn't shine.	a. Pull the power plug, check and insert
	plug again.
	 b. Lamp defective → check and replace.
Foot switch malfunction (31).	Check power cord and connect it properly.

6 Maintenance

- Check the the device regularly for visible damage to housing or power cord.
- Abrasive hoses (29) damaged through normal wear and tear need to be replaced. This is
 not a matter of claim but normal wear and tear. The hoses in the sandblasting cabinet
 can be replaced by the customer with standard tools. Worn abrasive hoses inside the
 device have to be replaced by the distributor or by REITEL.
- Empty and clean the device regularly. After removing the drain plug (19) at the back of the device you can hoover residual abrasive material off the open chamber.
- Regularly empty the drawer (10) that permits the fast removal of surplus abrasive material. Remove the rubber plug (32) in the sandblasting cabinet to remove abrasive material.
- Regularly clean or change the filter of the extraction.
- Regularly check the water separator (22), the pressure regulator (20) and if necessary open the valve (21) to drain water.
- Regularly clean the housing with a damp cloth and apply REITEL stainless steel care spray.

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 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 GmH;
- 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 free 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. Pls. contact your local dealer for information on local disposal guidelines.

9 Spare Parts List

Best Nr. Order- No.	Sanduret 2 - 4 (046) Ersatzteilliste / Spare parts list 03/2019	Stck Qty.	VE Unit
E7930500	Behälterdeckel farblos Transparent tank cover	1	Stck piece
E7992600	<u> </u>	1	Stck piece
24598000	Düse 0,6mm für 50µ Nozzle 0,6mm for 50µ	1	Stck piece
24599000	Düse 0,8 mm für 110µ Nozzle 0,8 mm for 110µ	1	Stck piece
24600000	Düse 1,2 mm für 150µ Nozzle 1,2 mm for 150µ	1	Stck piece
24601000	Düse 1,5 mm ab 200µ Nozzle 1,5 mm from 200µ	1	Stck piece
E7015710	Filter (im Rückraum) Filter (in the back room)	1	Stck piece
E6189400	Fußtaster 1-pol. mit Kabel 1,65 m + Kaltgerätestecker Foot switch 1-pole	1	Stck piece
E6230200	Glasscheibe, inkl. Folie und Klebepunkte Glass panel, incl. protection foil	1	Stck piece
E6230600	Handdurchführung, 2 St. incl. Ledereinsatz für Lochd. 130mm Gauntlets, 2 pcs., made of genuine leather	1	Paar/pair
24604200	Handschuhe für Sandstrahlarbeiten Größe 10 Pair of gloves for sandblasting units, Size L	1	Paar/pair
24604100	Handschuhe für Sandstrahlarbeiten Größe 7 Pair of gloves for sandblasting units, Size S	1	Paar/pair
24604000	Handschuhe für Sandstrahlarbeiten Größe 9 Pair of gloves for sandblasting units, Size M	1	Paar/pair
E6002300	Innenfilter Inner filter	1	Stck piece
E6230700	Kunststoff-Schutzfolie, 5 St. Plastic protection foil, 5 pcs.	1	Pack
E7336210	LED Lampe, mit Clips und Endkappe, ohne Trafo LED lamp, incl. clips and end caps, without transformer	1	Stck piece
20280000	Lupe, mit Saugnapf, D75mm / Magnifying glass with suction cup, D75 mm	1	Stck piece
E7809120	Markierringe Handgriffel, Set rot, blau, schwarz / Set of marker rings for blasting pen, red, blue, black	1	Set
E6202030	O-Ring 65 x 2,5 mm für Behälter (aussen) O-ring 65 x 2,5 mm for chamber (outside)	1	Stck piece
E7854500	O-Ring für Kammerdeckel 65x3,55 O-ring for for tank lid	1	Stck piece
E7336100	Rohr Acryl LED-Schutzrohr mit 1 Endkappe 240mm LED acrylic lamp protection, incl. 1 end cap 240mm	1	Stck piece
E7872900	Rohrclips 12 mm - Halter für Messingrohr im Behälter, Tube clips 12 mm - Holder for brass tube in the tank Tube clips 12 mm - Halter für Strahlgriffel Tube clips 12 mm - Holder for blasting pen	1	Paar two pcs
78534000	Rohrclips 16 mm - Halter für Ausblasdüse Tube clips 1 mm – Holder for blast nozzle	1	Stck piece

E6064800	Schalter mit Lampe grün 2pol. Power switch incl. green lamp (2 poles)	1	Stck piece
E7049500	Sicherung 10 Amp.	1	Stck piece
E7931210	Strahlgriffel Alu Ø12 x 89mm Abrasive pen, aluminium Ø12 x 89mm	1	Stck piece
F7031230	Strahlgriffel Alu komplett mit Verschraubung, ohne Düse und Markierring Abrasive pen, incl. screwings, without nozzle and marking ring	1	Bgr assy
L7931230	Strahlschlauch für Strahlraum, mit 2 Steckröhrchen d = 8 mm	1	Stk./ Kammer
E7852340	Hose for cabinet, incl. 2 tubes d = 8 mm	1	pc./ chamber Stk./
E7852350	Strahlschlauch Gehäuserückraum, 8 x1 mm Hose in back housing, 8 x 1mm	1	Kammer pc./ chamber
E7852380	Strahlschlauch Silikon transparent 6 x 1,5 mm (im Behälter) Silicone hose transparent 6 x 1,5 mm	1	m m
E7336300	Transformator, für LED Licht Transformer for LED Light	1	Stck piece
E7802600	Verbindungsstück für Schlauch der Absaugung Adapter for extraction's hose	1	Stck piece

10 EC-Conformity Declaration

EG-Konformitätserklärung **EC Conformity Declaration** CE-Déclaration de Conformité

im Sinne der Niederspannungs-Richtlinie 2014/35/EU (Anhang III B) according to Low Voltage Directive 2014/35/EU (Appendix III B) au sens de la Directive Basse Tension 2014/35/EU (Annexes III B)

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 das Gerät in dem Zustand, in dem es 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 unauthorized 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 nachstehend beschriebenes Gerät/We hereby declare that the machine described below/ Nous déclarons que la machine ci-dessous

Produktbezeichnung/Product name/Nom du produit: Mikrofeinstrahlgeräte/

Microfine jet blaster/ Micro-Sableuses

SANDURET 2/3/4 Typenbezeichnung/Type/Type:

allen einschlägigen Bestimmungen der Richtlinien 2014/35/EU sowie 2011/65/EU (RoHS 2) entspricht. is in conformity with all applicable requirements of the Directives 2006/95/EC and 2011/65/EU (RoHS 2). est conforme aux dispositions applicables de la Directives 2006/95/CE et 2011/65/EU (RoHS 2).

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

EN 61010-1:2001

03.03.2018

Ort. Datum Place, Date Lieu, Date

Daniel Reitel, Geschäftsführender Gesellschafter/Managing Director/

Directeur Général

Department

Quality and

3A - 1988

Unterschrift/Signature/ Signature

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

