




Original

Operating Instruction SCHICK ceramic - milling set

SCHICK - ceramic - milling set

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1. Application and use

The ceramic milling set is intended for use in the dental laboratory and can be used both on milling devices and separately. The ceramic milling set was developed for the treatment of primary parts and implant superstructures made of zircon, alumina and pressable ceramic. When working with the turbine, the resulting grit and cooling water are transported through the suction tub into the separator and the suction. Impairment of visibility by the water mist produced is substantially minimized by connecting it to the extractor.

A further area of use is the treatment of titanium. Here the normal milling spindle is used instead of the turbine. By connecting it to the extractor, the resulting light grit is transported through the suction tub into the extractor; visibility is thus not impaired, the workplace remains clean and the harmful grit is eliminated directly where it is produced.

2. General notes

- 2.1. Before using the turbine the manufacturer's instructions for use should be read. Check that the details of the air compressor connector correspond to the details on the nameplate.
- 2.2. Use distilled water only in order to avoid deposits on the nozzle and water reservoir.
- 2.3. During use, always follow the relevant regulations of the professional association (always use safety goggles)

NOTE: 

- When using rotary tools the limits given by the tool manufacturer must be observed.
- Repairs or other interventions must be carried out only by SCHICK or by technical personnel authorized by SCHICK.
- SCHICK accepts no warranty if the ceramic milling set is not handled in accordance with the instructions for use.

3. List of contents - accessories



S3 - Ceramic-milling set complete art.-no. 2650/01
(without S3 Master)

turbine art.-no. 2640/1
S3 adapter for turbine art.-no. 2481
retaining clip art.-no. 2245
light head for turbine art.-no. 2510/1
suction tub art.-no. 2470
separator art.-no. 2655
model table art.-no. 2407/9
diamond tool set turbine 1,6 mm
(8 items) art.-no. 2660
polishing-set 2,35 mm (3 items) art.-no. 2665



S1 - Ceramic-milling set complete art.no. 2650/11
(without S1 Junior and base)

turbine art.-no. 2640/1
retaining clip art.-no. 2245
light head for turbine art.-no. 2510/1
controller for light head art.-no. 2480
cable for light head art.-no. 2485
suction tub art.-no. 2470
separator art.-no. 2655
model table art.-no. 2407/9
diamond tool set turbine 1,6 mm
(8 items) art.-no. 2660
polishing-set 2,35 mm (3 items) art.-no. 2665



turbine
art.-no. 2640/1



light head
art.-no. 2510/1



suction tub
art.-no. 2470



separator
art.-no. 2655



model table
art. no. 2407/9



controller for light
head art.-no. 2480



diamond tool set
turbine 1,6 mm
art.-no. 2660



polishing - Set 2,35 mm
art.-no. 2665



S2 Ceramic-milling set complete art.no. 2650/41
(without S2 Master)

- turbine art.no. 2640/1
- S2 adapter for turbine art.no. 2481
- retaining clip art.no. 2793
- light head for turbine art.-no. 2510/1
- suction tub art.-no. 2470/1
- separator art.-no. 2655
- model table art.-no. 2407/9
- diamont tool set turbine 1,6 mm
(8 pieces art.-no. 2660
- polishing-set 2,35 mm (3 pieces) art.-no. 2665



turbine
art.-no. 2640/1



light head for turbine
art.-no. 2510/1



suction tub
art.-no. 2470/1



separator
art.-no. 2655



model table
art.-no. 2407/9



diamond tool set
turbine 1,6 mm
art.-no. 2660

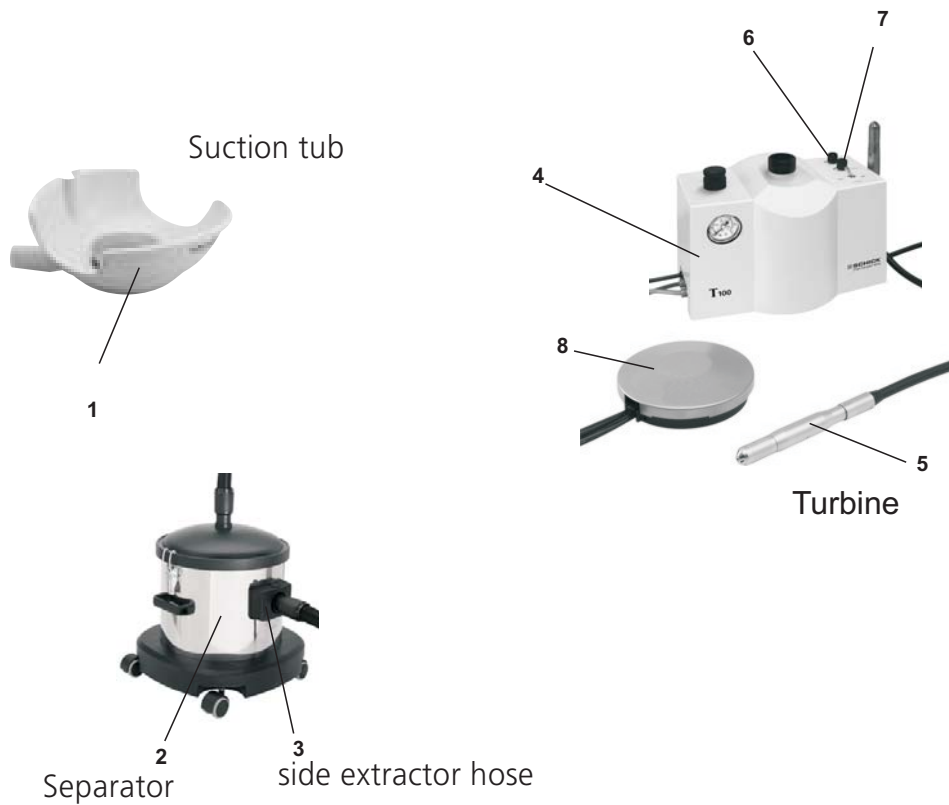


polishing - Set 2,35 mm
art.-no. 2665

4. Description / Illustration of construction



The arrow must point to the side when assembling



5. Operation

- 5.1 Check that the compressed air details agree with the details given by the turbine manufacturer (BienAir).
- 5.2 Connect the compressor port of the turbine station (4) to the compressed air system.
- Connect the suction tub (1) to the extractor hose of the separator (2) (without plastic adapters see pic. 1 page 4).
 - Connect the end of the hose to the side opening of the separator.
 - The second hose should be connected to the upper port of the separator (2) and the extractor/central extractor. The system can be operated by connecting the separator to any commercially available extractor or central extractor.
 - Both of the supplied extractor hoses can be laid and shortened individually.



Caution: Do not lay the hose with excessively small radii; risk of kinking.

- 5.3- The separator has a check valve, which prevents water from being sucked into the extractor. The need to empty the separator depends on use and on the intensity of the cooling water delivery.
- To empty, the two clamps at the top of the separator should be opened and the side extractor hose (3) removed.



Caution: After emptying ensure that the arrow visible on the lid points to the hose port attached to the side of the separator.

- 5.4- To assemble the light head the front sleeve (pic. 3) of the supplied turbine must be unscrewed and taken off forward. The light head must be pushed on and screwed in the reverse order (pic. 4).



Pic 3



Pic 4

- 5.5- To use in a SCHICK S3 / S2 milling set, the supplied adapter sleeve must also be pushed on so that the turbine can be housed in the milling arm. For other manufacturers' milling devices, corresponding adapters are available on request.

- 5.6- Instead of the motor milling spindle the turbine provided with the light head is inserted into the holder on the milling arm from below. The turbine operates at a speed of 300 000 rpm. To avoid temperature-dependent micro cracks in the ceramic the system works with water cooling. The amount of water necessary for cooling can be adjusted continuously through the green knurled screw (6) at the turbine station. The air flow for atomizing the cooling water can be adjusted at the station with the blue knurled screw (7).

5.7- Fix the milling arm to change the tool. The tool is ejected downward by firmly pressing down the upper part of the turbine (pic. 5-7). In order to insert a new tool, the upper part of the turbine should again be pushed down and the tool should be pushed in as far as it will go. By returning the upper part of the turbine to the starting position the tool is fixed in the turbine.



Pic 5



Pic 6



Pic 7

5.8- The clips for the turbine hose can be secured individually to a suitable place on the respective milling device. Before securing them, the surface beneath must be dry and free from grease and dust.

8.9- When the turbine is used, bearing lubrication should be carried out with the supplied grease after approx. 4 - 6 hours of operation (fig. 8/9). Remove the cover from the grease cartridge and insert the cartridge into the clamping mechanism. The required quantity of grease is delivered by 1/2 turn of the rear sleeve. After lubricating the bearing, run the turbine for approx. 15 seconds at a moderate speed (10%) without a load so that the lubricant is distributed evenly.



Pic 8



Pic 9

6. Troubleshooting

- If the delivery of the cooling agent is interrupted, check that there is a sufficient quantity of the cooling agent in the reservoir and the feed from the foot switch (8) should be checked for kinking.
- If there is a drop in the turbine output or speed, the pressure setting should be checked at the station and the feed should be checked for sufficient compressed air.
- If there is a decrease in suction in the suction tub, check the amount of water in the separator or filter of the extractor

7. Care and maintenance

Painted surfaces should be cleaned by wiping down with a dust- and lint free cloth. Do not use aggressive cleaning agents as otherwise the painted surface can be damaged. Gross dirt should be removed beforehand with a brush.

The water separator should likewise be cleaned with a cloth from the inside depending on use. This serves particularly to prevent the development of odors and bacterial growth in the container.

Caution:

After emptying and/or cleaning the water separator ensure that the arrow visible on the lid points to the hose port attached to the side of the separator (see pic. 2 page 4)



8. Technical Data

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separator art.-no. 2655

LxWxH: 45x45x50cm
Weight: 4,9kg
Adaptor port: internal Ø31,4mm
external Ø37,1mm

Hose:
Hose length: 2 x 4m
Weight incl. adaptor 2,0kg
Hose port: internal Ø32,7mm
external Ø40mm

suction tub art.-no. 2470

LxWxH: 30x24,5x12,5cm
Weight: 1,3kg
Connection: 31mm -
38,1mm
(Conical)

9. Declaration by manufacturer

EG-Herstellererklärung
EC declaration by manufacturer
(nach Art. 4, Abs.2 der EG-Richtlinie 89 / 392 / EWG)
(in accordance with Art. 4 paragraph 2 of EC directiv



Hersteller: Schick Dental GmbH
Manufacturer:

Anschrift: Lehenkreuzweg 12
Address: 88433 Schemmerhofen
Bundesrepublik Deutschland

Typ/Type: Absaugwanne / Abscheider

Das bezeichnete Produkt ist zum Gebrauch mit einer anderen Maschine (Turbine/Micromotor) bestimmt. Die Inbetriebnahme ist solange untersagt, bis die Konformität der verwendeten Maschine mit der Richtlinie 89 / 392 / EWG festgestellt ist.
The product indicated is intended to be used in connection with another machine (turbine/micromotor) Use is prohibited until conformity of the used product with EC directive 89 / 392 / EEC has been confirmed.

Wir bestätigen die Konformität des oben bezeichneten Produktes mit den Normen:
We confirm conformity of the product indicated above with the standards:

DIN EN ISO 12100-1
DIN EN ISO 12100-2

Schick Dental GmbH
Schemmerhofen, 31.05.2005

W. Schick
Geschäftsführer
Managing Director

Diese Erklärung ist keine Zusicherung von Eigenschaften im Sinne des Produkthaftungsgesetzes!
This declaration is not warranty of attributes within the meaning of the product Liability!

Die Sicherheitshinweise der Produktdokumentation sind zu beachten!
The safety notes given in the product documentation must be observed!

Hersteller:



SCHICK
Dentalgeräte

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