



Micromotor attachment handpieces CHIRANA are manufactured according to directive MDD 93/42 / EEC under ISO 13485: 2012 quality management system.

Straight handpiece 110 D

No. 39 021 2567 Pic.1



Adjust the flow of water exiting the nozzle of the handpiece cooling spray to min. 50 ml/min. at the inlet pressure of 200kPa. Air flow of the cooling spray 1.5NL/min at the inlet pressure 200kPa.

**Contra angle handpiece with light 120 L
Contra angle handpiece 120**

**No. 39 033 2827 Pic.2
No. 39 033 2837 Pic.2**



Minimum requirement for the cooling air supplied by micromotor is 6 NL/min. Insufficient cooling can increase the temperature of external parts.



DO NOT attach or remove any handpiece attachments from the micromotor while it is running.

**Contra angle handpiece 120LB
Contra angle handpiece 120LR**

**No. 39 033 2853
No. 39 033 2854**

1. TECHNICAL DETAILS :

	110D	120	120L	120LB	120LR
Input RPM	Max.40 000 min ⁻¹	Max.40 000 min ⁻¹	Max.40 000 min ⁻¹	Max.40 000 min ⁻¹	Max.40 000 min ⁻¹
Gear Ratio	1:1	1:1	1:1	1:1	1:5
Color Marking	Blue point	Blue point	Blue point	Blue point	Red point
Bur Cooling	side spray	side spray	side spray	4-spray	4-spray
Light	-	-	yes	yes	yes
Ø shank / bur length (mm)	Ø 2.35 / 44.5	-	-	Ø 2.35 / 22	Ø 1.6 / 22

2. IMPORTANT INSTRUCTIONS:



- Straight handpiece and contra angle handpieces are intended for use in dentistry by trained professionals only.
- Use under safe working conditions only. Follow the proper use instruction in accordance with this manual.
- Protect the eyes of patient and assisting staff from direct contact with light source.
- Protect yourself, patients and others from possible accidents.
- Avoid contamination from the product.
- Repairs and maintenance can be done by trained professionals only.

3. STANDARD ACCESSORIES :

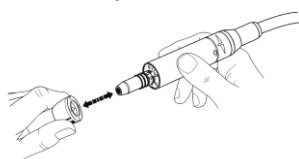
Jet cleaning needle	1 pc	No. T 070 2603 4
SMIOIL spray with nozzle	1 pc	No. 39 031 2690,1
KN lubricating tip	1 pc	No. 070 2634 4
KT lubricating tip (only 120LR)	1 pc	No. 3152 7608

4. FIRST USE:



- Check the content of the package to make sure you received the attachment with accessories, user manual and a warranty card.
- Micromotor handpiece attachment connection dimensions conform to ISO 3964
- Use only burs and cutters that correspond to ISO 1797-1 with shank diameter of 2.334 ÷ 2.350 mm, maximal length of 22 mm for contra angle heads and maximal length of 44.5 mm for straight attachments.
- Pay attention to the warnings and instructions provided by manufacturers of burs and cutters.
- DO NOT USE burs and cutters that deviate from the indicated data.
- DO NOT USE burs with worn shank. They could fall out during treatment and injure the patient. Once in a while check the sharpness of burs under a magnifying glass.

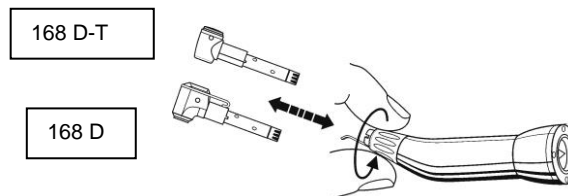
4.1. Coupling with micromotor pic. 3



Attaching: With a slight twisting motion slip the attachment handpiece onto the micromotor coupling until the driving and chuck mechanisms snaps into place.

Removal: Remove the attachment handpiece off of the micromotor by a slight pull along the micromotor axis while simultaneously twisting the attachment around.

4.2. Attaching head to the contra angle pic. 4

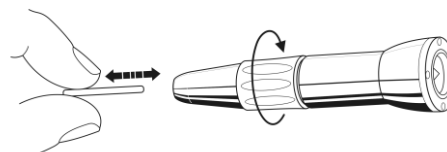


(Does not apply for 110D, 120LB, 120LR) Rotate the clamping ring of contra angle in the direction of the arrow until it stops and hold it in position. Insert the head into the contra angle so the grooves on the head match the slots inside the contra angle. Release the clamping ring.



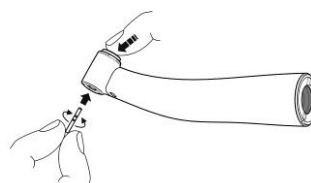
- Never insert the head during rotation.
- Check the head's proper connection with contra angle handpiece before each use.

4.3. Straight handpiece bur insertion and replacement pic. 5



The bur gripping mechanism is released by rotating the clamping ring in the indicated direction. Reverse rotation will tighten and lock the inserted bur.

4.4 Bur insertion and replacement on 120LB, 120LR contra angles Fig.6



Inserting the bur - press the push button firmly with your thumb and simultaneously insert the bur all the way into the hole. The correct clamping position of latch burs is found by rotating the bur around its axis (applies for 120LB). To remove the bur - press the push button with your thumb and pull the bur out. After each change of the drill it is necessary to check its clamping by pulling it outwards from the head.



We recommend the use of protective gloves or another finger protection while inserting, removing and checking the bur's grip. This way you will avoid injuries and infections.

5. PRODUCT MAINTENANCE

The lifetime of micromotor handpieces is extended by regular and correct maintenance. Treat the handpiece before the first and after each following use by the procedure of external cleaning – disinfection – greasing – sterilization.

5.1. External cleaning

The surface of straight and contra angle micromotor attachments can be cleaned with alcohol solution or by brushing under running water.

5.2. Disinfection

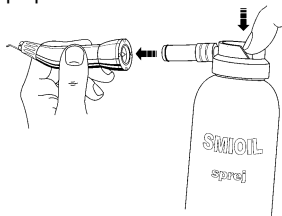
We recommend disinfecting the surface of handpiece with antiviral disinfectants effective against HIV virus, i.e. disinfectant spray or wipes.



- DO NOT immerse attachments into disinfectant bath. This may cause them to malfunction.
- DO NOT use high alkaline or chlorine based disinfectants.
- DO NOT clean or disinfect attachments in ultrasonic bath.

5.3. Greasing

Before each sterilization or at least twice a day, grease the handpiece by overspraying for **1-2 seconds, pic. 7**. Place the handpiece with the header down that the residue oil could leave through the header out, wipe the excess oil. If you see black oil flowing from the handpiece, repeat the process until the flowing oil is clean. When handling, use a pulp that is well visible for dirt.



It is recommended to treat the bur clamping system once per week. Spray into the bur hole with spindle applicator tip for 1-2 seconds (Fig. 8).



- For maintenance of straight and contra angle attachments use only SMIOIL spray.

9. USED SYMBOLS



XXXX

Manufacturing Date



Warning



See the instruction manual



2265

CE marking code of the notified body



Do not dispose off with household waste



Manufacturer



Fragile, handle with caution



Store in a dry place



Wear protective glasses



UA.TR.099

Conformity mark of Ukraine with number of the conformity assessment body



Autoclavable by indicated temperature



Temperature limits



Humidity limits



Atmospheric pressure limits

5.4. Sterilization

Micromotor handpiece attachments are autoclave sterilizable up to 135°C. Suggested verified parameters: temperature 134°C, Time 5 min., Pressure 300 kPa, three times pre-vacuum. We recommend use of equipment according to EN 13060: 2004 Type B, packaging according to EN 868-5: 2009.



- Also sterilize the needle T07026034
- Treat the handpiece attachments with SMIOIL spray before each sterilization
- Autoclave only cleaned handpiece attachments
- Do not sterilize handpiece attachments with inserted burs.
- Follow the autoclave manufacturer instructions and national legislations.
- Remove the handpiece attachments from autoclave immediately after sterilization cycle ends.



If handpiece attachments have not been used for a prolonged period of time, it is necessary to clean and maintain them according to the user manual.

Store handpiece attachments in a dry place.

If you hear irregular sounds during the operation, feel strong vibrations or if the bur cannot be clamped, stop using the handpiece attachment and immediately contact a Chirana authorized dealer or CHIRANA Medical, Inc. to avoid further damage to the product.

6. REPAIRS AND SERVICE

Service lifetime of the product – min. 5 years

In the case of deviations from the usual characteristics, such as irregular running, vibrations, deterioration of the clamping mechanism, overheating, media leakage, mechanical damage, you must not work with the handpiece. Contact an authorized service organization or the manufacturer CHIRANA Medical, a. s. When repairing, use the original spare parts from the device producer CHIRANA Medical, a. s.

7. DEVICE DISPOSAL



Disposal must be done in strict compliance with all applicable regulations. At the end of a lifetime, the device (instrument) cannot be disposed off with household waste. It has to be disposed off with other industrial waste, ie by separate collection. A separate collection of electrical waste is transferred to the distributor or waste management company for reusing or recycling. Waste collection of device or instrument is provided by distributors (contracted service company, respectively contracted service personnel), who will collect the device (instrument) from the consumer after cleaning, required disinfection and sterilization and forward it to the hazardous waste management company.

8. TRANSPORT AND STORAGE CONDITIONS

Temperature: -20°C ÷ 70°C (-4°F ÷ 158°F)

Relative humidity : 5% ÷ 95%

Atmospheric pressure: 50kPa ÷ 106kPa (0.5 ÷ 1.06bar; 7.25 ÷ 15.37psi)

Registrowané ochranné známky CHIRANA
Registered trade marks CHIRANA



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Date of last revision – 01/2020