

Instructions For Use M200E High Speed Collection





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WARNING! ATTENTION! (To prevent damage) (Risk of injury)



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persons or objects



disinfectable



Sterilizable up to the stated temperature

Intended Use

Maxso Dental Handpiece, models Maxso-M/Maxso-S/Maxso-E are intended to be used for removing carious material, reducing hard tooth structure, cavity preparation, finishing tooth preparations and restorations and polishing teeth.

Before You Begin

Please read this Manual prior to using your Maxso Highspeed Handpiece. The use of this product is only intended for use by trained dental personnel. We recommend that you retainthis manual for future reference.

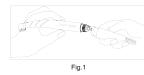
- Safety Information High speed handpieces should be sterilized after each patient to prevent any transmission of infective organisms.
- Suitable hygienic measures must be taken to prevent cross contamination between patients, operators and other personnel.
- Only operate this highspeed handpiece when the bur is properly inserted in the chuck. Do not attempt to extend the length of the bur by improper positioning in the chuck.

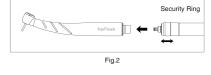
Technical Specifications

10.8mm x 13.0 mm
40-60
19
400,000
FG burs according to EN ISO 1797-1
1.6 / 25
Push Button
Single

Assembly & Removal

This handpiece should only be used on dental delivery systems that provide filtered and regulated air and water. Filtration of 25 microns is recommended.





Non-Swivel Handpiece (Fig.1) Connection: M4= 4 hole, B2 = 2 hole

- 1. Insert the non-swivel handpiece into the tubing 2. Firmly screw the tubing nut of the handpiece tubing by hand in a clockwise
- 3. Unscrew the tubing nut of the handpiece tubing by hand in a counterclockwise for
- removal

Swivel Handpiece Ez-Swivel QD Coupling (Fig.2) Connection: M4= 4 hole, B2 = 2 hole

- 1. Ensure QD coupling is firmly attached to the handpiece tubing 2. Align QD coupling into handpiece and push together by
- pulling back the security ring 3. Ensure handpiece is firmly attached to coupling (Note: the
- security ring must return to original position)
- 4. Remove QD coupling by pulling back the security ring

Ez-Swivel PD Coupling (Fig. 2.1) Connection: M4= 4

1. Ensure PD coupling is firmly attached to the handpiece

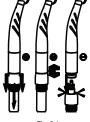
- tubing 2. Align PD coupling into handpiece and push together
- Ensure handpiece is firmly attached to coupling
 Pull the retention sleeve of the PD coupling back and
- remove the turbine handpiece by pulling in an axial direction

Other Approved Manufacturer's Couplings (Fig. 2.2) Connection: Refer to original manufacturer's instruction for use. (Do NOT use unapproved couplings)

1. Attach the turbine handpiece to the Kavo®, NSK®, W&H®

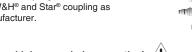
- and Star® coupling as described by the coupling manufacturer 2. Check that the connection to the coupling is secure.

 3. Remove the Kavo®, NSK®, W&H® and Star® coupling as
- described by the coupling manufacturer.



Kavo NSK⁶ W&H^c

Star® Fig. 2.2





Do not assemble/remove during operation!



Water & Air Adjustment

Coolant Water: Adjust the water volume at the delivery unit to obtain a satisfactory spray mist.

Air Pressure: The operating pressure Must be 2.62 bar to 2.90 bar, and recommendation is 2.76 bar. It is highly recommended that the operating pressure initially be set using a handpiece pressure gauge due to the pressure loss caused by the handpiece tubing material and length.

Warning: Do not exceed 3.52 bar operating pressure as this will shorten turbine life and may cause additional damage to the handpiece.

Handpiece Operation Use standard length concentric diamond and carbide burs with 1.59mm nominal diameter

friction grip shanks designed for high speed handpieces. Use only burs with hardened tempered steel shanks. Before use, verify concentric rotation by operating handpiece outside the or alcavity in a safe place.

Warning: Do not use burs that produce excessive noise or do not run concentrically. Do not use burs that are modified, eccentrically designed, or have bent or 'soft' (nonheat treated) shanks.

Friction Grip Bur Specifications For application details and operating data of the different rotary instruments please refer

to the information provided by the manufacturer. The push button autochuck turbines have the following bur requirements: Use only instruments whose shanks comply with the requirements of ISO 1797-1.



- Shank diameter of 1.59—1.60mm
- Overall length up to max. 25mmOverall length up to max. 21mm (mini)
- Working diameter up to max. 2.1mm (ISO 021)

Instruments that differ from the specified data must not be used.

Bur Insertion (Fig.4)

- 1. Insert bur into autochuck until resistance is felt.
- 2. Depress the autochuck end cap button and continue to feed-in the bur until it clicks and stops.
- Release the autochuck end cap button. (Always pull on the bur after it has been installed to confirm that it is seated properly).
- 4. Never depress the autochuck end cap when the bur is rotating

Use only faultless burs and diamonds.

These must be clean to prevent dirt from being transferred into the chuck.

Bur Removal (Fig.5)

- 1. Grasp handpiece firmly so your thumb touches the end cap of the autochuck and push until a slight 'click' is noticed.
- 2. Pull bur straight out.

External Cleaning

3. Release end cap.



Never depress the autochuck end cap button or rest the end cap against any part of the oral cavity during operation. Depressing the end cap while a bur is rotating can activate the chuck mechanism and result in the end cap button with excessive heat and / or loss of bur retention.

Clean debris from the external surface by using isopropyl alcohol

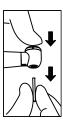
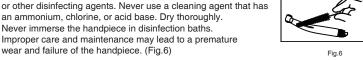


Fig.4





Operating conditions for high-tempearture washer-disinfectors

*When using a high-temperature washer-disinfector to clean the handpiece, strictly adhere to the conditions specified below.

High-temperature cleaning conditions

wear and failure of the handpiece. (Fig.6)

Unit Name	Mode	Detergent (concentration)	Neutralizer* (concentration)	Rinse (concentration)
Miele G7881	Vario TD	neodisher Mediclean (0.3-0.5%)	neodisher Z (0.1 - 0.2%)	neodisher mieclear (0.02-0.04%)

* After cleaning there may be streaks or white spots on the instrument. Use a neutralizer only if there are streaks or white spots.

Operating Precautions

- Always use a handpiece holder when washing the handpiece, making sure to rinse the inside of the handpiece thoroughly.
- If any medical agent remains inside the handpiece, it may corrode or clog the air or water pipe, resulting in a malfunction of the handpiece.
- For details on handling medical agents or adjusting their concentration, refer to the user manual for the washing device.
- After washing is complete, check to see if the handpiece, including its inside, is completely dry. If any water remains inside the handpiece, expel it with an air gun or another such tool. Failure to do so could result in the remaining water coming out during use and cause poor lubrication or sterilization.
- Always lubricate the handpiece after washing.
 - 0 Inappropriate cleaning methods and solutions will damage the handpiece
- Do not clean the handpiece using strong acidic or alkaline solutions that could 0 cause the metal to corrode.
- Do not leave a handpiece inside the high-temperature washer-disinfector. 0

Lubrication

Chuck System Lubrication (Fig.7)

- 1. Fit the spray nozzle onto the spray can 2. Grip the handpiece firmly
- 3. Press the tip of the spray nozzle firmly into the chuck system 4. Spray about 1 second
- 5. Push the button three times



Handpiece Lubrication (Turbine)

- After internal cleaning
- Prior Sterilization
- The Handpiece must be cleaned and sterilized between patient uses.

Purging

Connect handpiece to tubing and run handpiece for 20-30 seconds to purge remaining lubricant.

Automatic Handpiece Lubrication

After cleaning the handpiece simply connect the handpiece to the correct adaptor and activate the Lubrication System according to the manufacturer's system instructions.

Manual Lubrication (Fig.8)

After cleaning the handpiece apply lubricant **BEFORE** sterilization

- Use only a high quality lubricant such as Beyes Lube.
- 2. Ensure the correct application nozzle is connected to the plastic valve at the top of the spray can.
- 3. Firmly insert the application nozzle into the rear
- of the handpiece 4. Spray for 2-3 seconds
- 5. Wipe any excess lubricant from the handpiece.



Fig.8

Packing



Place the handpiece in a sterilization pouch.

Sterilization

Sterilization of instruments by applying a fractionated pre-vacuum steam sterilization process (according to EN285/EN 13060/EN ISO 17665) under consideration of the respective country requirements.

Recommended sterilization temperature: 135°C(±2°C), holding time: 5 min. Minimum drying time after sterilization: 8 minutes. Flash sterilization is not allowed on lumen instruments!

Limited Warranty

Beyes Dental Canada hereby warrants against defect in material and workmanship that for a period of 6 months from the date of purchase, this product will perform satisfactorily under normal use and service. No warranty claim can be inferred here, as wear may occur earlier or later than indicated above depending on use, frequency of sterilization and frequency of maintenance. Beyes shall under no circumstances be liable for incidental or consequential damages or damage due to improper use or maintenance. This Warranty is subject to the following conditions

Beyes will, without charge repair or replace (at Beyes sole discretion) any defective part/s covered in this warranty. If the conditions are met, the defective item must be returned to an authorized Beyes service center or distributor. Accompanied by the original invoice or packing list. This warranty is in lieu of all other warranties, expressed or implied .

Federal law restricts this device to sale by or on the order of a dentist, physician, or any other practitionel licensed by the law of the states in which he or she practices to use or order the use of this device.

- This device is not field repairable
- * All brands are holders of their respective trademarks.

Beves Dental Canada Inc.

23-595 Middlefield Rd Scarborough, ON M1V3S2 anada Tel: 1-416-281-1888 Email: info@beyes.ca Web: www.beyes.ca

