

Instructions for use



DENTAL HANDPIECE / IMPLANT ANGLE
BAXXXXXX / XXXXXX / SG200L

Symbols



Manufacturer



Catalogue number



Community European

2195

Notified Body



Serial number



Authorized representative
in the European Community



Follow Instruction for use



sterilizable in a steam sterilizer at
temperature specified (132°C/Pre-Vacuum type)



sterilizable in a steam sterilizer at
temperature specified (121°C/Gravity type)



Thermo fisher disinfectable



Temperature



Humidity



Atmospheric pressure



Caution



Keep away from rain



Do not dispose of
with domestic waste



This way up



Fragile, handle with care

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Chapter 1. Summary


1.1 Purpose of use

This device is an electric dental handpiece to be used connected to a motor for operating drilling, tapping, screwing of dental implants, screwing of the prosthetic parts.

1.2 User

 only a dentists licensed person can use this device.

1.3 Inspection before use

- 1) Be sure to read the instruction manual before use.
- 2) Do not use it for other purposes.
- 3)  Be sure to clean and sterilize this medical tools in the Autoclave before use (See Clause 5 for more detail)

Chapter 2. Precaution for Use

2.1 Warning

- 1) Do not assemble or disassemble the angle or rotary instrument during operation.
- 2) ⚠ Do not use rotary instrument that are bent, damaged, deformed, or do not conform to ISO regulations.
Damaged rotary instrument may be suddenly broken or jolted during rotation, resulting in injury.
- 3) Observe the manufacturer—specified rotational speed. If the operation of the handpiece during operation is not normal, discontinue use immediately and call the dealer for repair.
- 4) Do not press the Push Button during operation. This can cause detachment of the rotary instrument and overload of the button.
- 5) Be careful that the angle does not touch the oral soft tissue. There is a risk of burns due to strong torque.
- 6) ⚠ Exceeding the standard operating time may present a risk of burns. Observe the standard operating time of the product (15 minutes after 2 minutes of operation).
- 7) ⚠ Use is strictly prohibited, as it can cause percolation to enter the wound and cause embolism if there is a wound in the mouth.
- 8) Do not use sharp materials to clean optical parts as they may damage the glass and reduce light transmission.

Chapter 2. Precaution for Use

2.2 Caution

- 1) Be sure to read the user's manual before use.
- 2) ⚠ Before use, make sure that the rotary instrument is correctly connected to the groove, and make sure that the angle works normally by commissioning.
- 3) Do not touch the rotary instrument in operation.
- 4) When using, please wear protective gloves for safety and health.
- 5) ⚠ Be careful not to drop the product. Physical shock can cause equipment failure.
- 6) ⚠ Do not leave the instruments in a place vulnerable to contamination.

2.3 Notice

- 1) In the case of product failure due to consumer error, the product warranty is not available.
- 2) The handpiece body corresponds to the mounting part.

Chapter 2. Precaution for Use

2.5 Side effect

- 1) damage to the pulp

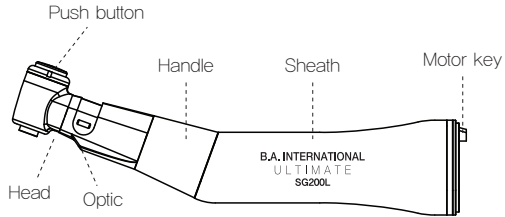
2.6 Contraindication

- 1) The product is prohibited from using in case of injury within the oral cavity as it may cause decay materials to permeate and embolism.

Chapter 3. Product Information

3.1 Product Information

1) Main Body of Handpiece(Contra Angle)



SG200L(optic)

Chapter 3. Product Information

2) Accessory Components of Dental Handpiece



spray nozzle



spray clip



tube clip

Chapter 3. Product Information

3.2 Product Performance

Model	SG200L
Reduction ratio	20:1
Chuck Type	Push button
Size	20(D) x95(L)
Weight	73g
Rotating speed of motor	40,000rpm (Max.)
Rotating speed of handpiece	2,000rpm (Max.)
Fiber Optic	O
Irrigation	O(External)
Coolant volume	≥50ml/min
Coupling(ISO3964)	Type 4
Rotary Instrument(ISO1797)	Type 1

Chapter 3. Product Information

3.3 Temperature Information

- Handpiece maximum temperature: 48°C
- Product standard operating time : Up to 2 minutes at least 14 minutes after operation stop.

3.4 Environmental conditions (storage, transfer, operation)

1) Storage conditions

Temperature: -40°C ~ +70°C

Humidity: 10 ~ 95%

Air pressure: 500hPa ~ 1060hPa

2) Transfer conditions

Temperature: -40°C ~ +70°C

Humidity: 10 ~ 95%

Air pressure: 500hPa ~ 1060hPa

3) Operation conditions

Temperature: +10°C ~ +35°C

Humidity: 30 ~ 80%

Air pressure: 700~1060 hPa



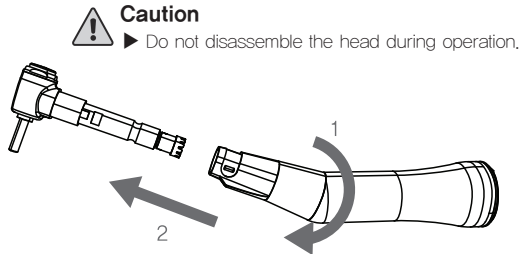
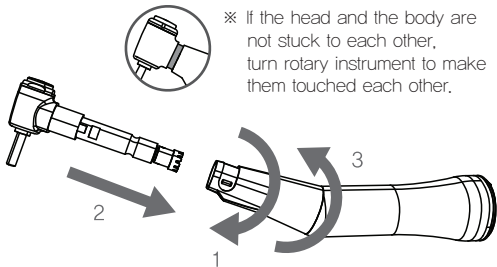
Caution ►

Driving outside the specified environmental factors may result in malfunction.

Chapter 4. How to Use

4.1 Assemble and disassemble

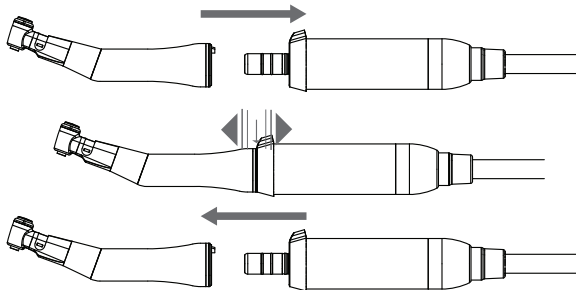
- If the head and body do not come close, turn the rotary instrument and tightly.



Chapter 4. How to Use

4.2 Connection and disconnection of motor

- Slide the handpiece horizontally to the motor and tightly close it.
- Turn the handpiece to the left or right to make sure it is connected to the motor groove.
- Disconnect the motor by pulling the handpiece horizontally.



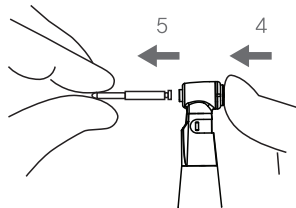
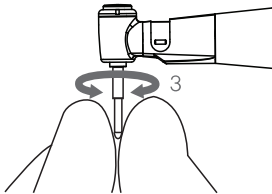
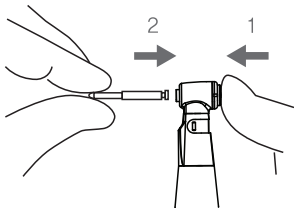
Caution

▶ Do not disassemble the head during operation.

Chapter 4. How to Use

4.3 Rotary instrument assembly

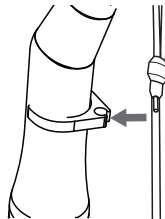
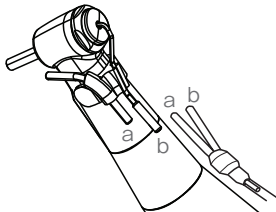
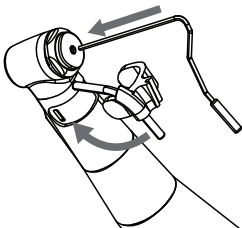
- Push the push button while inserting the rotary instrument.
- Turn the rotary instrument to the left or right to make sure that it is completely tightened.
- While pushing the push button, pull out the rotary instrument.



Chapter 4. How to Use

4.4 Install the water supply tube

- ① Attach the spray nozzle and the spray clip to the head part of the handpiece.
- ② Connect the main water tube to the spray nozzle and spray clip each.
- ③ Fix the main tube to the handpiece using the tube clip.



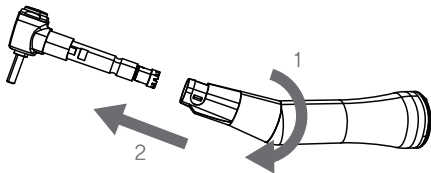
Chapter 5. Maintenance

5.1 Cleaning

- 1) Remove the head that is attached to the handpiece as shown.
- 2) Soak the handpiece in the cleaning solution(cidezyme) for 1 minute.

Thoroughly wipe out with the brush around the surface of device.

- 3) Clean the handpiece for 1 minute with a ultrasonic cleaner containing distilled water.
- 4) Clean the surface and inside with a cloth or brush with 70% isopropyl alcohol for 2 minutes.
- 5) Clean the surface and inside with a cloth or brush with purified water for 2 minutes to remove isopropyl alcohol.
- 5) Wipe water with a clean cloth and let the water dry 2 minutes with an air gun.



WARNING

- ▶ Do not use sharp tools to clean. Damage to the Optic can reduce the brightness of the light.
- ▶ Do not wipe or clean with strong acid solution or sterile solution.

Chapter 5. Maintenance

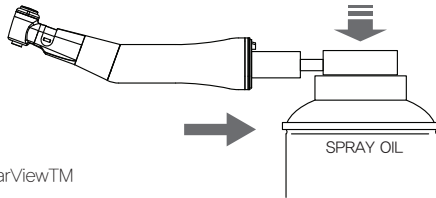
5.2 Lubrication

1) Use a spray adapter to lubricate parts where lubricant can be supplied.

2) Lubrication cycle

- After every internal wash
- Before every sterilization
- 30 minutes after use or at least 2 times a day

※ Please Use one of the lubrications that have been cleared with FDA such as ClearView™ Dental Handpiece Lubricator and Lubricant (510k K070297), DO-ALL Dental Handpiece Lubricant (510k K073353), Dental Handpiece and Accessories, Dental Handpiece Cleaner and Lubricant (510k K113674),and PANA SPRAY Plus (510k K131014).



Chapter 5. Maintenance

5.3 Sterilization

Be sure to separate the handpiece, rotary instrument and water supply system.

The following Table 5.2.1 sterilization parameters are recommended by the manufacturer.

Table 5.3.1 Sterilization parameters

Cycle type	Temperature	Exposure time	Drying time
Pre–Vacuum	132°C (269.6°F)	4 minutes	30 minutes
Gravity displacement	121°C (249.8°F)	30 minutes	30 minutes

After sterilization, make sure the product is completely dry.

Chapter 5. Maintenance

5.4 Processing Instructions

Manufacturer: Micro–NX Co., Ltd. Method: See chapter 5.1,5.2 Symbol: See 2page Device: See chapter 3.1	
Warnings	<ul style="list-style-type: none">– Do not wash and sterilize in any way other than the user manual.– See Chapter 2
Limitations on Processing	If used beyond a cycle or life span, there may be performance degradation.

Chapter 5. Maintenance

Instruction	
Initial treatment at the point of use	See Chapter 1.3
Preparation before cleaning	Remove the rotary instrument that is attached to the handpiece
Cleaning: Automated	N/A
Cleaning: Manual	See Chapter 5.1
Maintenance, Inspection and Testing	See Chapter 5.2, Check that the machine rotates normally when operating the product. (If the motor speed connected to the handpiece is 40,000 rpm, the handpiece speed is 2,000 rpm.)
Packaging	Avoid contamination.
Sterilization	See Chapter 5.3
Storage	See Chapter 3.4
Additional Information	See Chapter 2
Manufacturer Contact	See Chapter 7.1

Chapter 6. Out of service

6.1 Description of breakdown

If you encounter any problems, please check the following before consulting the store.

Even if there is no such thing or action is taken and the problem is not solved, contact the store because the product is in doubt.

Fault Condition	Causes of failure	Countermeasures
No enough handpiece power	The rotary instrument is connected incorrectly to the angle.	Loosen the rotary instrument and fasten correctly.
	The rotary instrument is bent or deformed.	Replace with a new rotary instrument.
	If there is foreign substance in the angle.	Clean or replace an angle.
	If the torque or rpm value is less than the set value due to angle product failure.	Change to a new angle.
	When the rotary instrument does not rotate in close contact with the angle.	Remove the rotary instrument from the angle. Clean or replace the rotary instrument.

Chapter 7. After Service

7.1 A/S information

Manufacturer: MICRO-NX Co., Ltd.

Country of manufacturer: Republic of Korea

Address: 22, Maeyeo-ro 1-gil, Dong-gu, Daegu, 41059, Republic of Korea

Contact: +82-53-650-1000 (www.micronx.co.kr)

7.2 Guarantee

Warranty period of the product: 12 months



Caution ► In the case of malfunction caused by consumer negligence, the product cannot be guaranteed.

Chapter 8. Disposal

8.1 Instructions for disposal procedure

8.1.1 Disposal of handpiece



- Follow local laws, standards and guidelines for disposal of used electrical equipment.
- Do not allow parts to be contaminated during disposal.

8.1.2 Processing of packaging materials

- All packaging materials are environmentally friendly for disposal or recycling
- Please send the old packing materials to the recycling collection companies for
- the prevention of waste and recycling of raw materials.



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