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Instructions for use

ELEC

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SA102L / SA102R

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Symbols


Warning


Manufacturer



Authorized representative in the European Community


Do not dispose of with domestic waste



Sterilization of 135℃



Humidity limitation
: 10%R.H. ~ 95%R.H.


Consult instruction for use


Keep away from rain


Handle with care


Thermo fisher disinfectable



Atmospheric pressure limitation
: 500hPa~1060hPa



Temperature limit : −40℃ ~ +70℃

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Chapter 1. Outline

Purposes of use	Straight angle handpiece used for removing corroded material, pre-working cavities and crowns, removing fillers, polishing teeth and restoration surfaces.
Operators	This device should be used only by dentists with relevant medical license.
Matters to be considered before use	1) This manual should be understood before use of the device. 2) This device should be used only for the purposes the device is originally designed.

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Chapter 2. Safety Information

Warning

1) The angle or rotary instrument part should not be assembled or disassembled while being operated.

2) The rotary instrument which is bent, damaged, modified or not in accord with ISO standard should not be used. When the damaged one is used, the device can be broken or pop up, which can cause injury to the operator.

3) Rotating speed regulated by the manufacturer should conform. If the handpiece is irregularly operated while being run, the use of the device should immediately be stopped and contact the seller for its repair.

4) The Push Button should not be clicked while the device is being operated. Otherwise, that action can get the rotary instrument to be detached and cause overload of the button.

5) It should be careful that the angle should not be contacted with soft tissue inside the mouth. Its strong torque can cause danger of burns.

6) If standard operation time is exceeded, it can cause danger of burns. The standard operation time of the device (after operation for 2 minutes, stop for 15 minutes) should be followed.

7) If there are injuries inside the mouth, the device should not be used because decayed matters can be into the injured parts and cause embolism.

8) Glass can be damaged and light transmission can be decreased, so sharp tools should not be used to clean the optical parts.

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Chapter 2. Safety Information

Caution

1) This manual should be understood before use of the device.
2) Before use, it should be checked that the rotary instrument is connected to the home correctly and whether the angle is regularly operated through test run.
3) The rotary instrument being operated should not be touched.
4) While the device is being operated, protective gloves should be put on for safety and prevention of injuries
5) It should be careful not to drop the device. Physical shock can cause malfunction of the device.

Notice

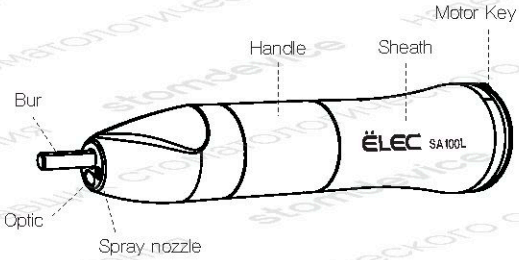
1) In case of failure of the device which is caused by users' negligence, its warranty will be voided.
2) The body of the handpiece represents a mounting part.

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Chapter 3. Description of Product

Components



SA100L(optic)



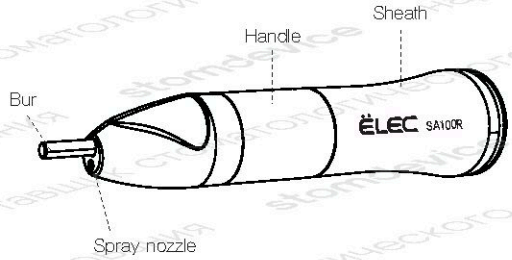
spray adaptor

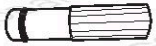
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Chapter 3. Description of Product

Components





spray adaptor

SA100R(non-optic)

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Chapter 3. Description of Product

Specification

Model	SA100L	SA100R
Reduction ratio	1:1	
Chuck Type	Chuck ring	
Size	20(D) x80(L)	
Weight	77g	
Rotating speed of motor	40,000rpm (Max.)	
Fiber Optic	O	X
Water spray	O(Internal)	
Coupling(ISO3964)	Type 3	Type 2
Rotary Instrument(ISO1797)	Type 2	

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Chapter 3. Description of Product

Temperature

● Maximum temperature of handpiece: 48℃

Standard operation time of the device: after operation for a maximum of 2 minutes, stop for a minimum of 15 minutes

Environmental conditions (storage, transfer, operation)

1) Storage conditions	2) Transfer conditions	3) Operation conditions
Temperature: −40℃ ~ +70℃	Temperature: −40℃ ~ +70℃	Temperature: +10℃ ~ +35℃
Humidity: 10 ~ 95%	Humidity: 10 ~ 95%	Humidity: 30 ~ 80%
Air pressure: 500hPa ~ 1060hPa	Air pressure: 500hPa ~ 1060hPa	Air pressure: 700~1060 hPa



Caution ▶ When the device is operated out of designated environmental conditions, it can cause the device to malfunction.

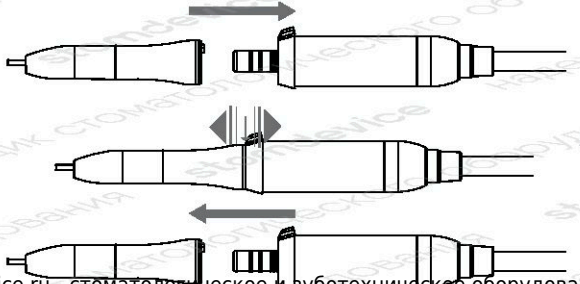
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Chapter 4. How to Use

Connection and disconnection of motor

1) Push the handpiece to the motor horizontally and completely stick it to the motor.
2) Check whether the handpiece is connected to the home of the motor by turning it to the left and right.
3) Pull the handpiece horizontally to disconnect it from the motor.



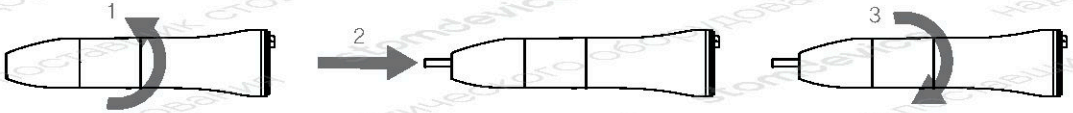
⚠ While the device is being operated, the handpiece should not be disassembled.

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Assemble of rotary instrument

It can be fixed by turning the handle counterclockwise and assembling the rotary instrument and rotating it clockwise. It is possible to disassemble it in reverse order.

1) Turn the fixed handle counterclockwise until it clicks.
2) Insert the rotary instrument into the angle head to the end.
3) Rotate the handle clockwise until it clicks.
4) And you turn the chuck counterclockwise, you can dissemble the rotary instrument.



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Chapter 5. Maintenance

Cleaning

1) Prepare the cloth or a brush wet with isopropyl.
2) Wipe the entire surface of the angle and angle head with cloth or a brush wet with isopropyl alcohol to remove foreign materials.
3) If any foreign objects are found in the angle, repeat the cleaning process.

WARNING

▶ It is not allowed to apply sharp tools to wipe the device and its parts.
Otherwise, it can cause damage to optic, which can be led to decrease brightness of light.

▶ It is prohibited to use strong acid liquid or sterilized solution to wipe or clean the device.

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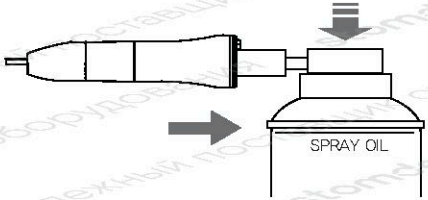
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Chapter 5. Maintenance

Lubrication

1) Lubricate the parts where lubricants can be supplied by using a spray adaptor.

2) Lubrication cycle
- After every cleaning of the inner parts
- Before every sterilization
- After use, 30 minutes after use or at least twice a day



Sterilization

It should be sterilized after the handpiece and rotary instrument, irrigation system are completely disconnected. Recommended parameters for sterilization verified by the manufacture is as follows.

Cycle type	Temperature	Exposure time	Drying time
Pre-Vacuum	135℃ (275℉)	18 minutes	30 minutes
Gravity displacement	135℃ (275℉)	10 minutes	30 minutes

⚠ After the completion of sterilization, it should be checked whether the device is completely dried.

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Chapter 6. Failure

Explanation on failure

When there are some problems, matters shown in the Tab. below should be checked first before you contact the seller. If there is no relevant explanation below or problems are not solved even after the troubleshooting suggested does not solve your issues, there can be failure considered in your device so you should contact the seller.

Condition of failure	Causes of failure	Troubleshooting
No enough power in handpiece	When the rotary instrument is connected to the angle wrong	Unwind the rotary instrument and tighten it correctly.
	When the rotary instrument is bent or modified	Replace the rotary instrument with a new one.
	When the angle has foreign materials on its surface	Clean the angle or replace it with a new one.
	When torque values or rpm values are lower than the settings, caused by the product with a defective angle	Replace the angle with a new one.
	When the rotary instrument is stuck to the angle, so the rotary instrument is not able to turn	Separate the rotary instrument from the angle. Clean the rotary instrument or replace it with a new one.

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Chapter 7. After-Sales Service

After sales service

Manufacturer : MICRO-NX Co., Ltd.
Country of manufacturer : Republic of Korea
Address : 22, Maeye-ro 1-gil, Dong-gu, Daegu, 41059, Republic of Korea
Contact: +82-53-650-1000 (www.micronx.co.kr)

Warranty

Warranty period of the product: 12 months



Caution ▶ In case of failure of the device which is caused by users' negligence, its warranty will be voided.

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Chapter 8. Disposal

Disposal procedure



1) Disposal of handpiece

- When it comes to disposal of electric equipment used, related laws, standards and guidelines of relevant countries should be obeyed.
- When the product is discarded, it should be careful that pollution is not caused.

2) Disposal of packaging

- All kinds of packing materials can be disposed in an environmentally-friendly way or recycled.
- For prevention of waste production and recommendation of re-use of materials, please send the packaging to a company specializing in collecting and recycling used materials.

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MICRO-NX Co., Ltd. branch office

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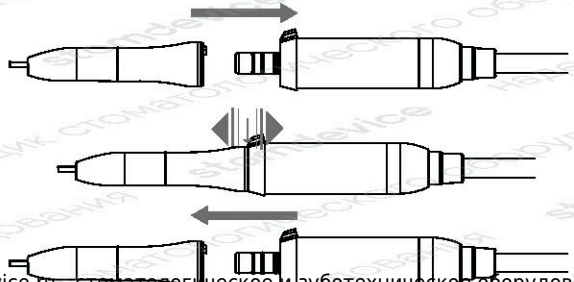
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Chapter 4. How to Use

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