stomdevice

Instructions for use



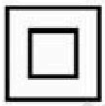
CE 0120

Implant Surgical Engine
ISE-270

MicroNX

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Symbols

REF	Catalogue number
SN	Serial number
	Manufacturer
EC REP	Authorized representative in the European Community
	Date of manufactured
	Class Ⅱ Equipment
	B type applied part
⎓	Direct current
	Keep dry
	Caution
	Consult Instruction for use
	Do not dispose of with domestic waste

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Contents

Chapter 1. Introduction ---- 3

Chapter 2. Safety ---- 4

Chapter 3. Product Description ---- 6

Chapter 4. Installation ---- 11

Chapter 5. Operation ---- 14

Chapter 6. Maintenance ---- 22

Chapter 7. Trouble Shootings ---- 24

Chapter 8. Accessories and Service ---- 26

Chapter 9. Electromagnetic Compatibility ---- 28

Chapter 10. Disposal ---- 31

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

1. Introduction

1.1 Operation of Principle

As an engine to operate and control handpiece used for dental implant surgery, this device is composed of main body, BLDC motor and foot switch.

With external power supply being provided, this device operates the main body through switching AC power to DC power and it performs dental implant surgery with handpiece being connected for rotation power generated through turning BLDC motor.

Main body of implant can control torque, rotation speed, water injection rate and direction of rotation and can operate BLDC motor using foot switch.

1.2 Intended Use (Purpose of Use)

This equipment is a drive unit for use in dental surgery, implantology and maxillo-facial surgery for treatment of dental hard tissue.

1.3 Intended Operator

This device can by used by only a licensed dentist.

1.4 Indications

1) When a patient does not have a tooth or gum due to cavity, gum disease, accident or tumor
2) When a patient does not want to delete a tooth to protect contiguous natural teeth
3) When a patient rejects denture treatment
4) When a patient wants to change partial or whole denture to fixed prosthetic appliance
5) When a patient wants to change whole denture to combination of fixed prosthetic appliance and partial denture
6) When a patient needs help of implant from denture's lower part to maintain whole denture and enhance its function

1.5 Check before Use

1) Read the instruction manual before use.
2) Ensure that the product is used only by experts.
3) Ensure that the product is used only as intended.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

2. Safety

2.1 Danger

1) When cause of abnormality is not detected or abnormality is not easily solved, contact the head office immediately.
2) When the display is wrongly shown, make inquiries to the head office. It is at risk for accident.
3) Do not bring any patient into contact with signal input section or signal output section and other connections.

2.2 Warning

1) Do not disassemble or make alterations to the product. Once the product is disassembled, you cannot get after-sale service from the company.
2) Do not inject oil into BLDC motor. It causes bearing breakdown and heat.
3) Do not clean the product using a solvent such as thinner, benzene, etc.
4) Use accessories and consumables provided with the product in accordance with specifications required by the company. When specifications other than required ones are used, it is at risk for accident.
5) When power cord, plug or socket is broken or damaged, do not use the product but make inquiries to the company. It is at risk for (electric) shock and fire.
6) Hold the plug to unplug the power cord and do not hold the plug with a wet hand. Also, do not use the product when the power plug is loose. It is at risk for electric shock and fire.
7) Do not locate near heating instruments or put a candle or a light around the product. It is at risk for fire.
8) Watch carefully whether the elderly and the infirm, the disabled or children are close to where the product is located and do not leave children alone.
9) Be careful not to drop foreign substances such as water and saline solution on implant engine controller and foot switch. When the product does not work normally or foreign substances are in the product, do not operate the product but make inquiries to the company.
10) Use the product only with intended use written in this manual and do not use in any way which is not recommended by the manufacturer. The company is not liable for accident resulting from not observing the instruction manual.
11) Exterior equipment to connect to signal input section, signal output section and other connections should comply with relevant IEC standards.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

2. Safety

2.3 Caution

1) When any abnormality such as vibration, heat and strange sound is detected before or during use, stop using the product immediately and examine it.
2) Ensure that the power supply is put into a socket with earth connection.
3) Ensure that speed which is recommended by the manufacturer is maintained on tools used for implant surgery. It is at risk for accident when it exceeds the permitted speed.

2.4 Notice

1) This product is manufactured to be used for implant surgery. Ensure that the product is use in accordance with the intended use and correct procedure.
2) With priority to patient's safety, use the product with good care.
3) Read the instruction and thoroughly understand functions of each component before use.
4) Implant engine controller and foot switch are not autoclavable. When main body is contaminated by pollutant, turn the power off, clean the product with clean and wet cloth and remove moisture with dry cloth.
5) Check whether input voltage corresponds with actual voltage after connecting the power supply.
6) Dispose irrigation tube as medical wastes after use.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

3. Product Description

3.1 Description of System, Components and Functions



※ handpiece – Sold separately

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

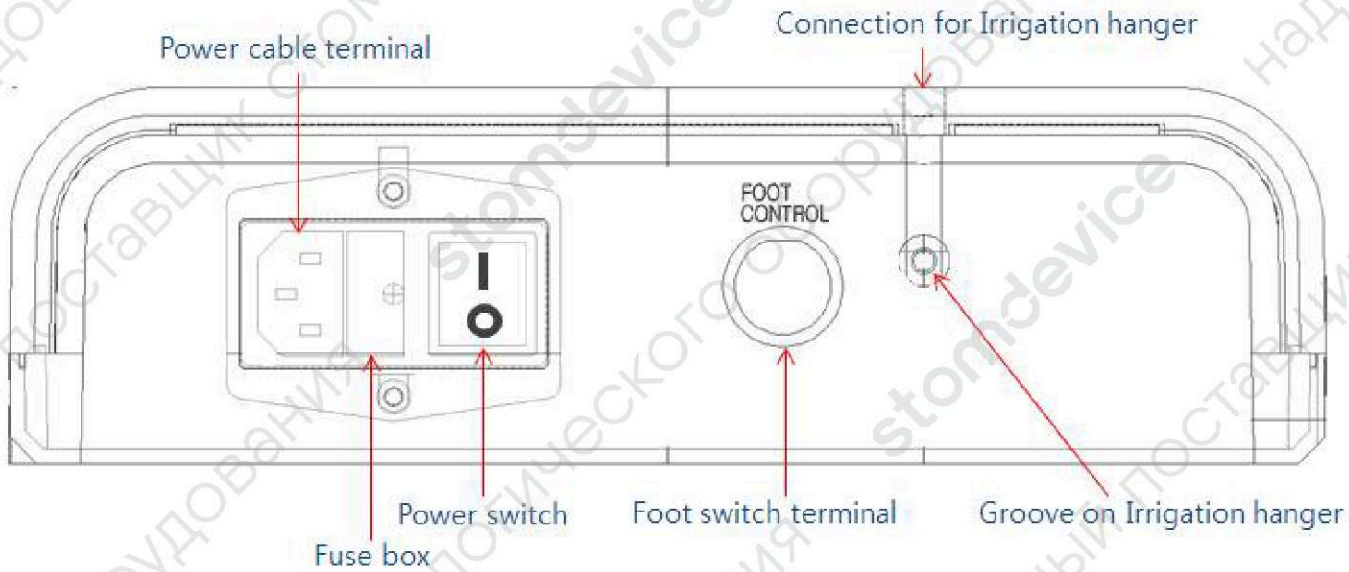
3. Product Description

3.1.1 Main Controller

1) Front



2) Rear



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

3. Product Description

3.1.2 Foot switch (FS-V1)



3.1.3 Motor





https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

3. Product Description

3.2 Product Performance

1) Main Controller

Power Supply voltage	220V
Frequency	60HZ
Power Consumption	150VA
Max. Coolant flow rate	130 ml/min
Fuse	2 × 250 × T2.0AH
Dimension	300×230×135 ㎜ [Width×Length×Height]

2) Motor (ISM-B70L)

Max. Speed	40,000 rpm
Max. Torque	7 Ncm
Max. Current	6 A
Dimension	∅24 × L100 ㎜
Optic	White LED
Weight	165g
Coupling	ISO 3964

3) Foot Switch (FS-V1)

Speed control	Variable
Control Functions	Program control / Coolant control / Forward/Reverse
Class of protection	IPX1

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

3. Product Description

3.4 Environmental Conditions (Storage, Relocation, Operation)

1) Storage conditions

Temperature : -10°C ~ +50°C
Humidity : 10 ~ 85%
Air pressure : 500hPa ~ 1060hPa

2) Relocation conditions

Temperature : -10°C ~ +50°C
Humidity : 10 ~ 85%
Air pressure : 500hPa ~ 1060hPa

3) Operation conditions

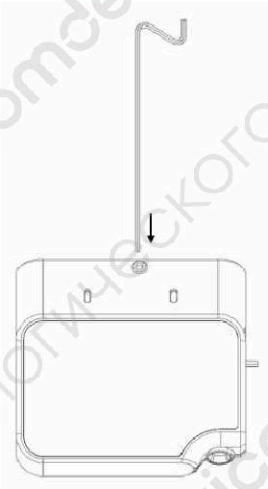
Temperature : +10°C ~ +35°C
Humidity : 30 ~ 85%
Air pressure : 700~1060 hPa

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

4. Installation

4.1 Installation of hanger and Foot switch hanger

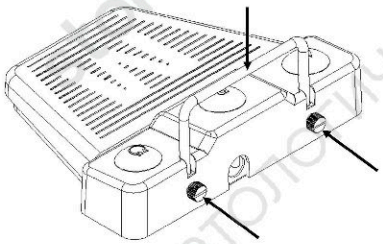
4.1.1 Installation of hanger



① Insert Irrigation Hanger into Hanger hole.

② Fix by connecting Hanger bolt.

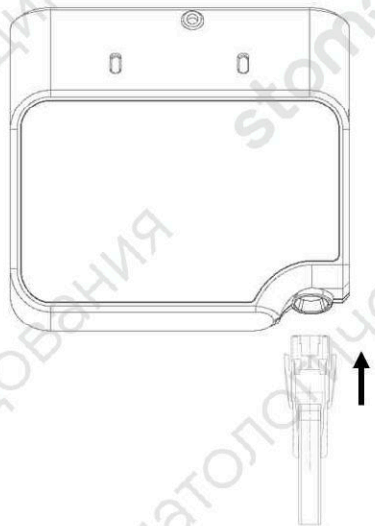
4.1.2 Installation of Foot switch hanger



① Insert Foot switch hanger into Hanger hole.

② Fix by connecting Hanger bolt.

4.4 Connection of Motor



① Fit the motor connector into groove.

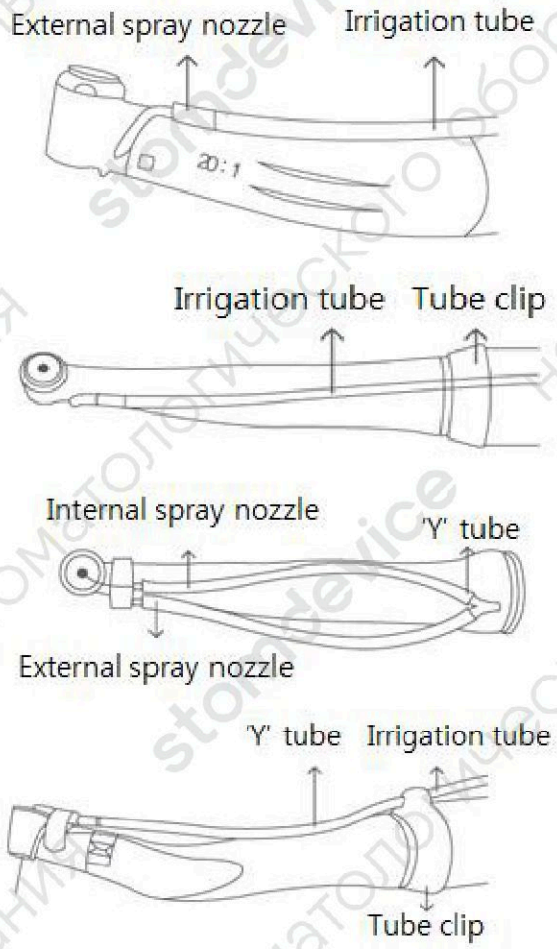
② Connect the motor connector CAP.

⚠ Be careful to fit into the connector upon connection.

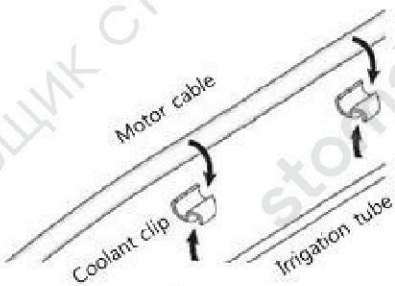
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

4. Installation

4.2 Installation of irrigation tube



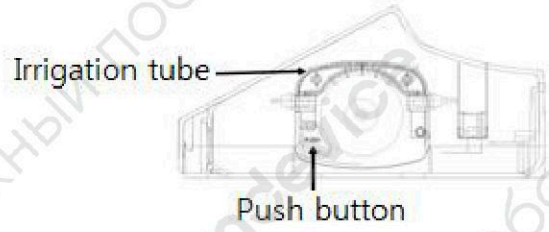
① Attach the irrigation tube to the straight or contra-angle handpiece.



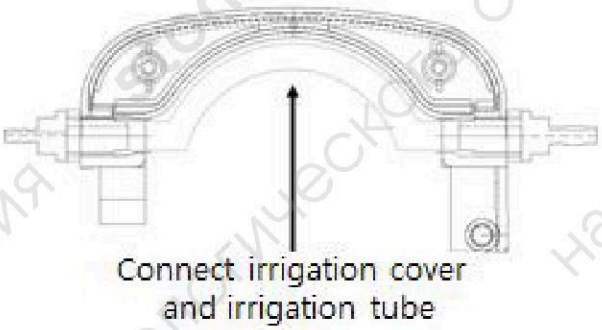
② Attach the motor cable and irrigation tube in regular intervals using the coolant clip.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

4. Installation

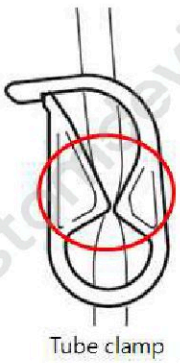


③ Open Irrigation cover by pressing Push button.



④ Put Irrigation tube in the groove.

⑤ Close Irrigation cover.

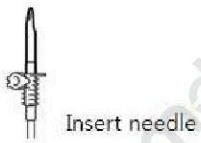


⑥ Close the tube clamp.

⑦ Open the tube clamp before start-up.

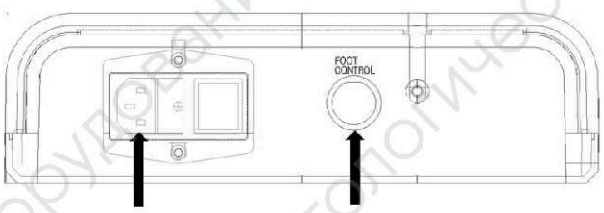


⑧ Stick the insert needle into the coolant container.



⑨ Hook-in the coolant container on the bottle holder.

4.3 Connection of power cord and foot switch



① Connect power cable to power cable termianl.

② Connect Foot switch connector to Foot switch terminal

⚠ Be careful to fit into the groove upon connection.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.1 General use

1) Turn on the Power switch of implant engine controller.



① Connect the engine to the power cable.

② Turn the engine on at the power switch.

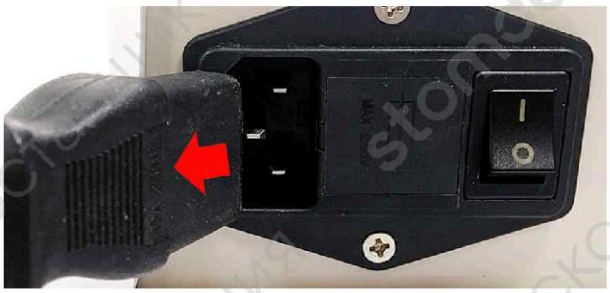
2) Programs are selected in turn by pressing Foot switch or P button of implant engine controller.

3) Check the displayed torque, rotation speed, water injection rate, gear and direction of rotation.

4) It starts rotating upon pressing Foot switch. It rotates at low speed with light press on Foot switch and rotates at full speed with hard press. When water injection status is preset, Pump starts rotating as well.

5) When load reaches the maximum value of preset torque during use, motor stops rotating.

6) It stops rotating upon releasing Foot switch.



① Connect the engine to the power cable

② Turn the engine on at the power switch.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.2 Program Mode

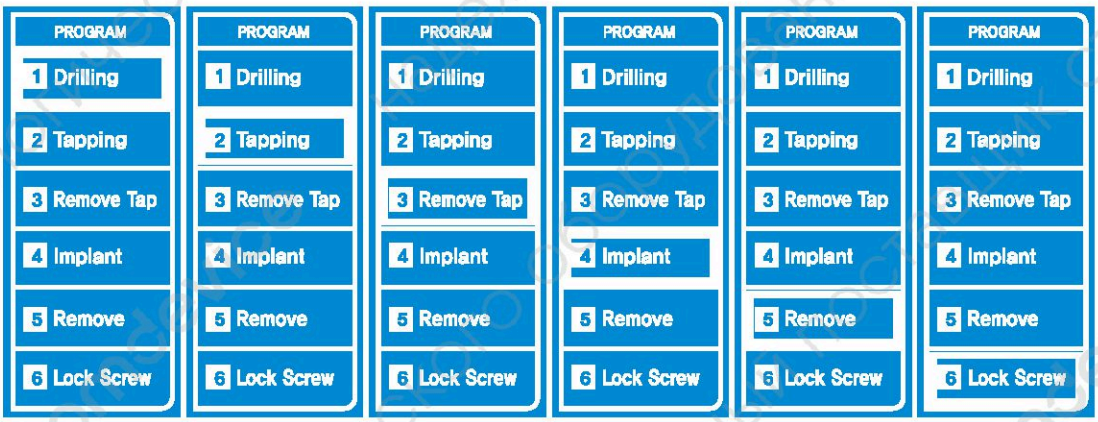
5.2.1 Selecting a program



Program Button

A user selects a program necessary for surgery with this button. Program cycles through numbers 1 to 6 when pressing the program button each time. It changes in order of Drilling→Tapping→Remove Tap→Implant→Remove→Lock screw.

A white border highlights the selected program.



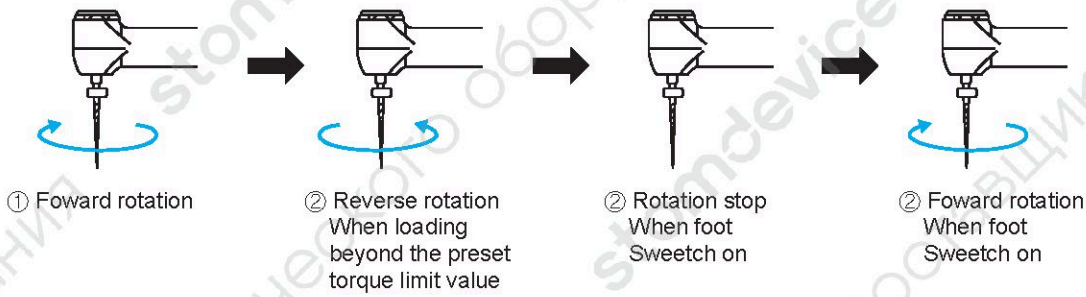
5.2.2 Thread cutting function



Program Button



Activating the thread cutting function is only possible with the Tapping program.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

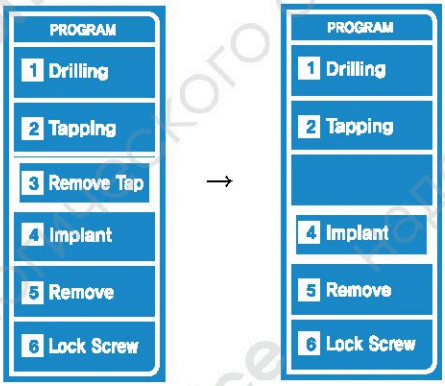
5.2.3 Deleting a program



Program Button

This function deletes an unnecessary and unused programs.

Selects an unused program and Deletes pressing this button more than 2 seconds.



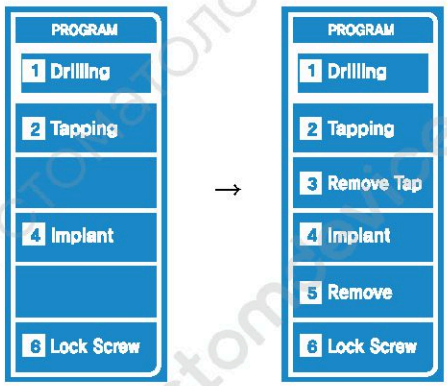
5.2.4 Restoring programs



Rotation Button

This function restores the deleted programs.

Restores all deleted programs pressing this button more than 2 seconds.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.3 Memory function

5.3.1 Memory button



Memory Button

It loads memory address where detailed figures (Gear ratio, Torque, Speed, For/Rev, Coolant) of each function in program are saved. Memory address cycles through numbers 1 to 9 upon pressing Memory button each time.



The memory number(1-9) currently selected is being displayed.

Memory 1	···	Memory 9
① Drilling set value	···	① Drilling set value
② Tapping set value	···	② Tapping set value
③ Remove tap set value	···	③ Remove tap set value
④ Implant set value	···	④ Implant set value
⑤ Remove set value	···	⑤ Remove set value
⑥ Lock screw set value	···	⑥ Lock screw set value

※ Initial setting (Factory settings) : Memory

Program	Gear ratio	Torque [Ncm]	Speed [rpm]	Motor direction	Coolant level
Drilling	20:1	55	1,500	Forward	4
Tapping	20:1	40	50	Forward	3
Remove tap	20:1	40	50	Reverse	3
Implant	20:1	40	50	Forward	3
Remove	20:1	55	50	Reverse	0
Lock screw	20:1	10	50	Forward	0

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.3.3 Saving data



Memory Button

It saves detailed figures in memory which are currently set (Gear ratio, Torque, Speed, For/Rev, Coolant) for each function in program.

Press and hold the memory button for 2sec to start saving data. A beep will sound and 'No.' will continuously flash.

Press the Memory button again to select the memory address where data is to be saved. Press the Memory button for 2sec once more to save the data. 'No.' will stop flashing and 2 beeps will sound again when saving is completed.



The memory number (1~9) currently selected is being displayed.

'No.' flashes continuously until data is saved.

5.4 Setting direction of motor rotation



Rotation Button

The initial setting is Forward direction and Reverse is selected upon pressing the button

The letter and arrow are turned on upon selecting Reverse with beat note.



① The letter and arrow are turned on upon selecting Forward.

② he letter and arrow flickers during the motor operation.



③ he same goes for selecting Reverse with beat note.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.4 Gear ratio change



Rear ratio Button

It selects gear ratio in accordance with that on handpiece.
Gear ratio alters upon pressing Gear ratio button each time.



Grear Ratio : ① 1:1
② 1:2
③ 16:1
④ 20:1
⑤ 27:1
⑥ 32:1

It alters in turn from number ① to ⑥ upon pressing the button each time.

5.5 Optic LED On/Off



Optic LED Button

Press Optic/Non optic button to operate LED within the motor ISM-B70L which is designed for Optic.



① For the LED on, the LED symbol is displayed.
② during the motor operation, LED is on.
③ the motor is stop and then LED is off after 3 seconds
④ For the LED off, it is not displayed.

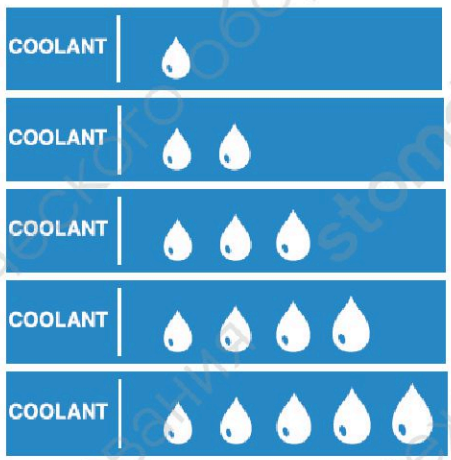
5.6 Controlling water injection rate



Coolant Button

Water injection rate alters in turn by five levels upon pressing Coolant button.

30[$ml/\min$]
60[$ml/\min$]
90[$ml/\min$]
110[$ml/\min$]
130[$ml/\min$]



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.7 Change in torque value

Torque Up/Down Button

Torque section on the display flickers upon pressing torque button.
Torque is controlled using the button for adjusting set value.
Torque setting mode is released upon pressing Torque button again or another button on other function or when the motor operates.

Gear ratio	Torque(Ncm)	Gear ratio	Torque(Ncm)
1:1	-	1:2	-
16:1	5~60	20:1	5~70
27:1	5~80	32:1	5~80



Change the torque value of motor, 5 N·cm increase.

5.8 Change in speed

Speed Up/Down Button

Speed section on the display flickers upon pressing Speed button.
Speed is controlled using the button for adjusting set value.
Speed setting mode is released upon pressing Speed button again or another button on other function or when the motor operates.

Gear ratio	Speed(rpm)	Gear ratio	Speed(rpm)
1:1	200~40,000	1:2	400~80,000
16:1	12~2,500	20:1	10~2,000
27:1	7~1481	32:1	6~1250



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

5. Operation

5.10 Auto Calibration

Speed Up/Down Button

It is performed when the error of motor's rotation speed is higher than the set speed during operation of implant engine.

Motor operates with beat note upon simultaneously pressing both buttons and the number on the speed increases from 0 to 40,000 RPM on the display and then motor stops, which means completion of calibration.

Check the set speed and actual speed by restarting the implant engine.



Auto Calibration is performed upon simultaneously pressing both buttons longer than 2 seconds.

5.11 Operation of implant engine



Implant engine operates upon completion of all settings.

When motor operates by pressing Foot switch, the letter 'R' on display and the surrounding border flickers in turn.



The torque and speed indicate the current figures and a beep sounds when altered torque value reaches 90% of set value.

Motor stops when it reaches 100% of set value.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

6. Maintenance

6.1 Manual cleaning

1) Separate the motor and Foot Switch connected in the Control Unit.
2) Prepare a cloth (preferably cotton) or soft brush moistened with isopropyl alcohol.
3) Clean foreign substance on the entire surface and in the gaps with cloth or brush soaked in isopropyl alcohol for at least 3 minutes.
4) Repeat the cleaning process if foreign substance is found.



• Clean the product before and after use.

6.2 Inspection

1) Inspect whether there is any foreign substance visible to the naked eye.
2) Check the operating condition.
3) Repeat the cleaning process if foreign substance is found.
4) Repeat the above procedure for every single use.

6.3 Sterilization

Sterilization by moist heat in accordance with ISO 17665-1, 2 in a steam sterilizer (Autoclave).

1) Gravity displacement type sterilizer
   - At least 30 minutes at 121℃
   - Drying time: 30 minutes.
2) Air-removal steam sterilization(pre-vacuum)
   - At least 4 minutes at 132℃
   - Drying time: 30 minutes.

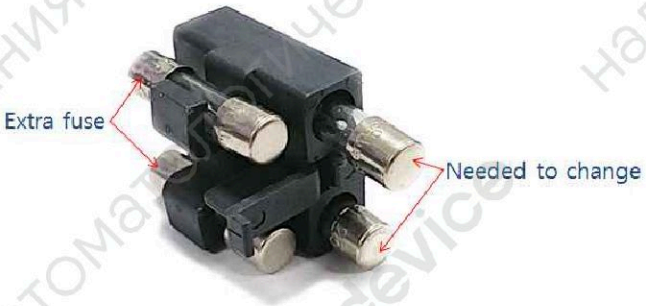
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

6. Maintenance

6.4 Change fuse



① Remove the fuse box with a flat screwdriver.



② Replace the fuses by the new ones.



③ Put the fuse box.

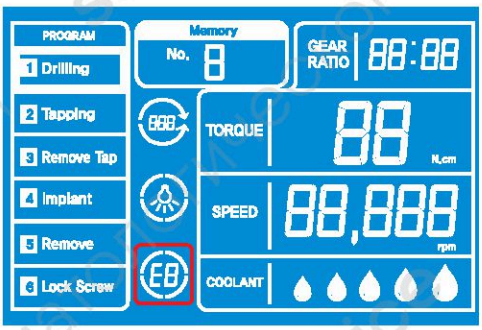
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

7. Troubleshooting

7.1 Description of Error Message

7.1.1 Error display screen

Upon occurrence of error, a warning call is made and then the number subject to the error flickers on error display part of the screen.

LCD DISPLAY SCREEN	OCCURRENCE OF ERROR
	Error number flickers and the surrounding border also flickers in turn, excluding the letters of 'Error.'

7.1.2 Error list

Error code	Status	Cause of error	Remedy
E1	Error on motor sensor	Defective motor hall sensor, poor connection	Asking for repair
E2	Motor error	Defective motor and poor connection	Reconnecting and checking the motor Asking for repair
E3	Overload error	Overload on motor	Restart after turning off the power then leave unit on standby
E4	Error on cooler temperature (Heat sink temperature error)	Cooler being overheated, breakdown of temperature sensor	Restart after turning off the power then leave unit on standby
E5	Transformer error	Defective transformer, overheating	Asking for repair
E6	Error on circuit and voltage	Defective circuit	Asking for repair
E7	Error on pedal connection	Poor pedal connection	Reconnecting and checking the pedal Asking for repair

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

7. Troubleshooting

7.2 Breakdown Description

Error	Cause of error	Remedy
Display screen does not appear upon turning on the power on.	Inaccurate connection of power cord	Checking plug connection
	Breakdown of power cord	Asking for repair
	Breakdown of fuse	Replacing fuse
Motor does not operate upon stepping on the foot switch.	Inaccurate connection of power cord	Checking the connection
	Breakdown of foot switch	Asking for repair

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

8. A / S

8.1 Accessories



Motor for Engine (ISM-B70L)



Foot Switch (FS-V1)



Motor Connection Cable



Foot Switch Cable



Power Cable



Irrigation Hanger



Foot Switch Hanger



Irrigation tube



Y-tube



Hanger Bolt



Stand

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

8. A / S

8.2 Information on After-Sale Service

- Manufacturer : MICRO-NX Co., Ltd.
- Made in : Republic of Korea
- Adress : 22, Maeyeo-ro 1-gil, Dong-gu, Daegu, 41059 Republic of Korea
- Contact : +82 53 650 1000
  micronx@micronx.co.kr

8.3 Warranty

- Warranty period of the product
- Life of components and replacement cycle
  - Implant engine controller, motor : 1 year
  - Damage due to customer's mistake, misuse of the product and normal abrasion of motor bearing are not included.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

9. Electromagnetic Compatibility

9.1 Electromagnetic Emission

The product is suitable for use in an specific electromagnetic environment. The customer and/or the user of the product should assure that it is used in an electromagnetic environment as described below.

Emission Test	Compliance	Electromagnetic Environment Guidance
RF-emission CISPR 11	Group 1	The product use RF energy only for its internal function. Therefore, its RF emissions are very low and not likely to cause any interference in nearby electronic equipment.
RF-emission CISPR 11	Class A	The product is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purpose.
Harmonic emissions IEC 6100-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	complies	

9.2 Electromagnetic Immunity

The product is suitable for use in a specific electromagnetic environment. The customer and/or the user of the product should assure that it is used in an electromagnetic environment as described below.

Immunity Test	IEC 60601-Level	Compliance Level	Electromagnetic Environment Guidance
Electrostatic discharge(ESD) IEC61000-4-2	± 6kV contact ± 8kV air	± 6kV contact ± 8kV air	Floor should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %
Electrical fast transient/bursts IEC61000-4-4	± 2kV for power supply lines ± 1kV for input/output lines	± 2kV for power supply lines ± 1kV for input/output lines	Mains power quality should be that of a typical commercial and/or hospital environment
Surge IEC61000-4-5	± 1kV differential mode ± 2kV common mode	± 1kV differential mode ± 2kV common mode	Mains power quality should be that of a typical commercial and/or hospital environment

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

9. Electromagnetic Compatibility

Immunity Test	IEC 60601-Level	Compliance Level	Electromagnetic Environment Guidance
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% DIP IN U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% DIP IN U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	Mains power quality should be that of a typical commercial and/or hospital environment. If the user of the product requires continued operation during power mains interruptions, it is recommended that the product be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3V/m 80 MHz to 2.5 GHz	3 Vrms 3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the product, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ for 80 MHz to 800 MHz $d = 2.3\sqrt{P}$ for 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in Watt (W) according to the transmitter manufacturer and d is the re-commended separation distance in meters (m) Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a], should be less than the compliance level[b] in each frequency range Interference may occur in the vicinity of equipment marked with the symbol described lateral. 

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

9. Electromagnetic Compatibility

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies. **Note 2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, people and animals.
[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered, if the measured field strength in the location in which the product is used exceeds the applicable RF compliance level above, the product should be observed, additional measures may be necessary, such as reorienting or relocating the product. [b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

9.3 Recommended Separation Distances between portable and mobile HF-communications equipment and the product

The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product – according on output power and frequency of the communications equipment – as recommended in the following table.

Rated maximum output power of transmitter in watts (W)	**Separation distance according to the frequency of transmitter in meter (m)**		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	**80 MHz to 800 MHz $d = 1.2\sqrt{P}$**	**800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$**
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. **Note 1:** At 80 MHz and 800MHz, the higher frequency range applies. **Note 2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, people and animals.			

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

10. Disposal

10.1 Disposal guideline

10.1.1 Disposal of Main controller and foot switch and motor



- ► Follow your country specific laws, directives, standards and guidelines for the disposal of used electrical devices.
- ► Ensure that the parts are not contaminated on disposal.

10.1.2 Disposal of the packaging material

► All packaging materials have been selected according to environmentally compatible and disposal aspects and can be recycled. Please send old packaging materials to the relevant collection and reprocessing system. This way, you will contribute to the recycling of raw materials and the avoidance of waste.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice



CE 0120 The EU directive 93/42/EEC was applied in the design and production of this medical device.

MICRO-NX Co., Ltd.

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

Tel: 82 53 650 1000 Fax: 82 53 650 1001

Web: www.micronx.co.kr

MICRO-NX Co., Ltd. branch office

EC REP

Karl-Marx-Str. 6 16540 Hohen Neuendorf Germany

Tel: 49 (0)3303 5412323 Fax; 49 (0)3303 5412324

NX-USM-210 2016. 05. 03 (0)

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ