PROIMPLANT

ENG Instructions for use

Rx Only
Set REF 1700389-001

<table>
<thead>
<tr>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600730-001</td>
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</tr>
<tr>
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<tr>
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<td>1 x</td>
</tr>
<tr>
<td>1600632-001</td>
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<tr>
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</tr>
<tr>
<td>1503393-001</td>
<td>1 x</td>
</tr>
<tr>
<td>1500984-010</td>
<td>10 x</td>
</tr>
<tr>
<td>1500984-010</td>
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</tr>
</tbody>
</table>

Set REF 1700395-001

<table>
<thead>
<tr>
<th>REF</th>
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Options

<table>
<thead>
<tr>
<th>REF</th>
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</tr>
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<tbody>
<tr>
<td>1600652-001</td>
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</tr>
<tr>
<td>1600752-001</td>
<td>1 x</td>
</tr>
<tr>
<td>1600606-001</td>
<td>1 x</td>
</tr>
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<td>1303393-001</td>
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</tr>
<tr>
<td>1303711-010</td>
<td>10 x</td>
</tr>
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<td>10 x</td>
</tr>
<tr>
<td>1500984-010</td>
<td>10 x</td>
</tr>
</tbody>
</table>
## Summary

### Starting display

![BienAlí PROIMPLANT](image)

### Available values

<table>
<thead>
<tr>
<th>IMPLANT PRG</th>
<th>Steps</th>
<th>Ratio</th>
<th>Speed in rpm</th>
<th>Torque in Ncm</th>
<th>Irrigation in ml/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implant PRG1</td>
<td>Round bur 1</td>
<td>128:1</td>
<td>100 - 40'000 rpm with a CA 1 : 1</td>
<td>0.48 - 4.8 Ncm with a CA 1 : 1</td>
<td>30 ml/min 20%</td>
</tr>
<tr>
<td>Implant PRG2</td>
<td>Round bur 2</td>
<td>64:1</td>
<td>Depends on the CA</td>
<td>Depends on the CA</td>
<td>60 ml/min 40%</td>
</tr>
<tr>
<td>Implant PRG3</td>
<td>Drill 1</td>
<td>30:1</td>
<td></td>
<td></td>
<td>90 ml/min 60%</td>
</tr>
<tr>
<td>Implant PRG4</td>
<td>Drill 2</td>
<td>27:1</td>
<td></td>
<td></td>
<td>120 ml/min 80%</td>
</tr>
<tr>
<td>Implant PRG5</td>
<td>Drill 3</td>
<td>20:1</td>
<td></td>
<td></td>
<td>150 ml/min 100%</td>
</tr>
<tr>
<td>Implant PRG6</td>
<td>Drill 4</td>
<td>16:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implant PRG7</td>
<td>Tapping</td>
<td>10:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implant PRG8</td>
<td>Tap unscrewing</td>
<td>1:1</td>
<td></td>
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<td></td>
<td>Implant screwing</td>
<td>1:2</td>
<td></td>
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<td></td>
<td>Unscrewing</td>
<td>1:5</td>
<td></td>
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</tr>
<tr>
<td>Terms of guarantee</td>
<td>16</td>
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</tbody>
</table>
1 Meaning of symbols

CE Marking with number of the notified body.

Rx Only
Caution: Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare practitioner.

Protective earth (ground).

Main switch
ON - The instrument is energized.
OFF - The instrument is de-energized.

Fuse Ø 5 x 20 mm.

Alternating current.

Device of type B.

CAUTION ! Dangerous voltage.

Element sensitive to electrostatic discharges.

CAUTION! Refer to the accompanying documents.

Danger of pinching. Do not put your fingers in rotating parts.

Variability in steps.

Symbol for «Water-cooling».

Symbol for «peristaltic pump».

Recyclable materials.

Recyclable electrical and electronic material.

Sterilisable up to the specified temperature.

Operating mode intermittent.

Manufacturer.

Sterilise with Ethylene Oxide
2 Description

Identification
Electronically controlled tabletop device for dentistry allowing operation of an MX CHIROPRO micromotor with variable speed control by a pedal.
A peristaltic pump conveys the physiological liquid via a disposable irrigation line without being contaminated.
The device’s LCD display indicates the stage of implant fitting, the instrument’s ratio, the bur speed, torque value and irrigation flow setting.

Intended use
The system is to be used by dentists and surgeons in dental offices and hospitals. The system is designed to control a dental micromotor which can drive a dental hand-piece fitted with appropriate tools to cut hard and soft tissues in the mouth and to screw dental implants.
The system is intended for use in dentistry for implantology work.
Any use other than that for which this product is intended is unauthorised and may be dangerous.
The medical device meets all the current legal requirements.

Environment
The device is not designed for use in an explosive atmosphere (anaesthetic gas).

<table>
<thead>
<tr>
<th>Working</th>
<th>Temperature:</th>
<th>+10°C (50°F) to +25°C (77°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Relative humidity:</td>
<td>30% to 80%, including condensation</td>
</tr>
<tr>
<td></td>
<td>Atmospheric pressure:</td>
<td>700 hPa to 1060 hPa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport and storage</th>
<th>Environmental conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>-25°C (-13°F) to +70°C (158°F)</td>
</tr>
<tr>
<td>Relative humidity:</td>
<td>10% to 100%, including condensation</td>
</tr>
<tr>
<td>Atmospheric pressure:</td>
<td>500 hPa to 1060 hPa</td>
</tr>
</tbody>
</table>

Environmental protection and information for disposal of the instrument
The disposal and/or recycling of materials must be performed in accordance with the legislation in force.

This device and its accessories must be recycled.
Electrical and electronic equipment may contain dangerous substances which constitute health and environmental hazards. The user must return the device to its dealer or establish direct contact with an approved body for treatment and recovery of this type of equipment (European Directive 2002/96/EC).
3 Set supplied

**Set REF 1700389-001**
- 1x PROIPLANT control
- 1x Micromotor MX CHIROPRO
- 1x Cable for MX CHIROPRO micromotor
- 1x Contra-angle handpiece CA 20:1 (without light)
- 1x Pack of 10 disposable sterile lines
- 1x 10 attachments collars for fastening the sterile irrigation line to a cable
- 1x Bracket for fluid bottle
- 1x Pedal 3 buttons
- 1x Cable system 3P, US / Asia, length 2,00 m
- 1x Instruction

**Set REF 1700395-001**
- 1x PROIPLANT control
- 1x Micromotor MX CHIROPRO
- 1x Cable for MX CHIROPRO micromotor
- 1x Pack of 10 disposable sterile lines
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- 1x Pedal 3 buttons
- 1x Cable system 3P, US / Asia, length 2,00 m
- 1x Instruction

4 Options

Contra-angle handpiece CA 20:1 (without light)
Micromotor MX CHIROPRO
Cable for MX CHIROPRO micromotor
Pack of 10 disposable sterile lines
10 attachments collars for fastening the sterile irrigation line to a cable
Pedal 3 buttons
Cable system 3P, Switzerland, length 2,00 m
Cable system 3P, Europe, length 2,50 m
Cable system 3P, US / Asia, length 2,00 m
10 fuse T4.0A L 250 VAC
5 Technical Description: Technical data

Voltage
100 – 240 VAC
50 – 60 Hz

Fuses
2 fuses T4.0A L 250 VAC, breaking capacity 40A

Power demand
300 VA

Classification
Class IIa in accordance with European Directive 93/42/EEC concerning medical devices.

Electric insulation class
Class I, per IEC 60601-1 (apparatus protected against electric shocks).

Degree of protection
IP 40 (protection against insertion of objects larger than 1 mm).

Dimensions L x W x H
309 x 220 x 123 mm. Height with bracket 506 mm

Weight
Housing 2.7 kg Pedal 830 g
Cable 105 g Bracket 115 g

Memory
Implantology mode: Storage in memory of 8 implant fitting sequences of 10 steps each.

Interface Languages
French, German, English, Italian, Spanish, Portuguese, Japanese and Russian.

List of errors & Troubleshooting
Page 15

Bracket
Stainless steel

Intended for use with: see instruction
Micromotor MX CHIROPRO REF 2100161
Cable for MX CHIROPRO micromotor REF 2100163
Contra-angle CA 20:1, without light REF 2100209

Pedal
REF 1600631-001
Dimensions (LxWxH) 250 x 205 x 54 mm
with handle: 250 x 205 x 144 mm
The pedal is waterproof (IP X8 in accordance with CEI 529).

Cables
Length of cables:
Pedal cable 2.90 m
Motor cable 2.00 m

WARNING
To prevent any risk of electric shock, this device must be connected only to a power supply network provided with protective earth.
The system is not adapted to be used in the presence of inflammable gases (e.g. anaesthetic gas).
Do not attempt to open the apparatus when it’s connected to the electric mains. Beware of electrical shocks.

Applied parts (per IEC 60601-1)
Micromotor MX CHIROPRO REF 1600752-001
CA 20:1 REF 1600632-001
Irrigation lines REF 1500984-010

Operating mode:
Intermittent
ON: 5 min.
OFF: 40 min.

Peristaltic pump
Pump delivery: From 30 to 150 ml/min. (5 levels).
Hose for pump: External Ø 5.60 mm,
internal Ø 2.40 mm
Wall thickness 1.60 mm.

⚠️ The use of the system with other handpieces, motors or cables has not been validated/certified
5 Technical Description: Electromagnetic compatibility

Electro-medical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the present document. PROIMPLANT complies with the EMC requirements according to IEC 60601-1-2. Radio transmitting equipment, cellular phones, etc. shall not be used in the close proximity of the device since they could influence the performance of the device. Particular precaution is required when using strong emission sources such as High Frequency surgical and similar equipment so that the HF cables are not routed on or near the device. If in doubt, please contact a qualified technician or Bien-Air Dental. PROIMPLANT should not be used adjacent or stacked with other equipment. If adjacent or stacked use is necessary, PROIMPLANT should be monitored to verify normal operation in the configuration in which it will be used.

**WARNING!**

The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by Bien-Air Dental as replacements parts for internal components, may result in increased emissions or decreased immunity of PROIMPLANT. Dental professionals need to be aware of potential electromagnetic interference between electronic dental devices and active implantable medical devices, and should always inquire about any devices implanted in the patient.

### Guidance and manufacturer's declaration - electromagnetic emissions

PROIMPLANT is intended for use in the electromagnetic environment specified below. The customer or the user of PROIMPLANT should ensure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions test</th>
<th>Compliance</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions</td>
<td></td>
<td>PROIMPLANT uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF emissions</td>
<td>Class B</td>
<td>PROIMPLANT 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 purposes.</td>
</tr>
<tr>
<td>Harmonic emissions</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations/flicker emissions</td>
<td>Conform</td>
<td></td>
</tr>
</tbody>
</table>

### Guidance and manufacturer's declaration - electromagnetic immunity

PROIMPLANT is intended for use in the electromagnetic environment specified below. The customer or the user of PROIMPLANT should ensure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD)</td>
<td>±6 kV contact</td>
<td>±6 kV contact</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>IEC 61000-4-2</td>
<td>±8 kV air</td>
<td>±8 kV air</td>
<td></td>
</tr>
<tr>
<td>Electrical fast transient/burst</td>
<td>±2 kV for power supply lines</td>
<td>±2 kV for power supply lines</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>IEC 61000-4-4</td>
<td>No input/output lines</td>
<td>No input/output lines</td>
<td></td>
</tr>
<tr>
<td>Surge</td>
<td>±0.5 kV line to line</td>
<td>±0.5 kV line to line</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>IEC 61000-4-5</td>
<td>±1 kV line to line</td>
<td>±1 kV line to line</td>
<td></td>
</tr>
<tr>
<td></td>
<td>±0.5 kV line to earth</td>
<td>±0.5 kV line to earth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>±1 kV line to earth</td>
<td>±1 kV line to earth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>±2 kV line to earth</td>
<td>±2 kV line to earth</td>
<td></td>
</tr>
<tr>
<td>Voltage dips, short interruptions and variations of tension</td>
<td>&lt;5% $U_t$ (95% dip in $U_t$) for 0.5 cycle</td>
<td>&lt;5% $U_t$ (95% dip in $U_t$) for 0.5 cycle</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of PROIMPLANT requires continued operation during power mains interruptions, it is recommended that PROIMPLANT be powered from an uninterruptible power supply or a battery.</td>
</tr>
<tr>
<td>IEC 61000-4-11</td>
<td>40% $U_t$ (60% dip in $U_t$) for 5 cycles</td>
<td>40% $U_t$ (60% dip in $U_t$) for 5 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>70% $U_t$ (30% dip in $U_t$) for 25 cycles</td>
<td>70% $U_t$ (30% dip in $U_t$) for 25 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;5% $U_t$ (95% dip in $U_t$) for 5 sec</td>
<td>&lt;5% $U_t$ (95% dip in $U_t$) for 5 sec</td>
<td></td>
</tr>
<tr>
<td>Power frequency magnetic field</td>
<td>3 A/m</td>
<td>3 A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial hospital environment.</td>
</tr>
</tbody>
</table>

NOTE $U_t$ is the a.c. mains voltage prior to application of the test level.
5 Technical Description: Electromagnetic compatibility

Guidance and manufacturer’s declaration - electromagnetic immunity

PROIMPLANT is intended for use in the electromagnetic environment specified below. The customer or the user of PROIMPLANT should ensure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity test</th>
<th>IEC 60601 test level</th>
<th>Compliance level</th>
<th>Electromagnetic environment - guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>3 Vrms 150 kHz to 80 MHz</td>
<td>3 V</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of PROIMPLANT, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</td>
</tr>
</tbody>
</table>
| Radiated RF   | 3 V/m 80 MHz to 2.5 GHz | 3 V/m       | Recommended separation distance \( d = 1.2\sqrt{P} \) where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and \( d \) is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: ![Symbol]

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 and people.

Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the PROIMPLANT

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

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter W</th>
<th>Separation distance according to frequency of transmitter m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 kHz to 80 MHz</td>
</tr>
<tr>
<td>0.01</td>
<td>0.12</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \( d \) in metres (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 800 MHz, the separation distance for 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 and people.
Installation

A. PROMPLANT may be positioned on a table, on a trolley or another surface, but in no case on the floor.

Power plug  is the device for disconnection in case of problems, and it must be easily accessible at all times.

B. The fuse box may be opened with a screwdriver.

100 - 240 Vac = fuse T-4.0 A L 250 VAC REF 1301560-010

C. The apparatus is powered by your line voltage (100/115/230 Vac). Connect the power cable to the plug fig. 1.

D. Connect the pedal cable to the output provided on the rear panel, guiding the connector and plug by means of the index pin on the connector fig. 2.

⚠️ Do not raise the pedal using the connection cable.

E. Connect the MX CHIROPRO micromotor cable to the motor output, guiding the connector and plug by means of the index pin and red dot on the connector fig. 3.

F. Align and attach the bracket to the housing provided on the console’s rear and suspend the flask or bottle fig. 4.

G. Check the packaging integrity, as well as the expiration date of the irrigation line.

Only lines supplied by Bien-Air Dental ensure trouble-free operation. These lines are sterile and for single use. Re-use may result in microbiological contamination of the patient.
6 Installation

H. Remove the single-use sterile irrigation line from its pouch.

Fitting on the spray tube
I. Connect the flexible hose of the irrigation line to the spray tube of the handpiece or contra-angle fig. 7.

Installation on the peristaltic pump
J. Install the plastic cassette in the peristaltic pump. Check that the cassette is clipped correctly. Close the pump lid, fig. 8. If there is resistance to closing, open the lid again and check the correct positioning of the cassette.

⚠ Warning!
Do not run the pump while the lid is open.

Danger of pinching!
K. Perforate the cap of the physiological liquid flask with the pointed end of the irrigation line after removing the protective cap.

L. Attach the irrigation line on the motor cable using the attachment collars REF 1303711-010 fig. 9.

Stopping procedure
The device can be safely stopped using the main switch 6.
7 Description of keys and elements

1. **DEVICE SCREEN**
   - Name of program
   - Instrument transmission ratio
   - Torque setting
   - Selection cursor
   - Adjusting irrigation
   - Only in SETUP mode
   - Activation/deactivation of the stage
   - Reversal of motor rotation symbol
   - Motor overheating
   - Speed adjustment
   - Irrigation stopped

2. **COMMAND TO REVERSE THE ROTATION OF THE MX CHIROPRO MICROMOTOR**

3. **“SETUP” MENU CALL-UP KEY**

4. **PARAMETERS BACKUP KEY**

5. **RETURN KEY**

6. **COMMANDS DEVICE**
   - Down key
   - Up key
   - Left key (→)
   - Right key (←)
   - Confirmation/selection key
   - In implantology mode: next stage

7. **PERISTALTIC PUMP LID**

8. **MX CHIROPRO MICROMOTOR CONNECTOR**

9. **IRRIGATION ON/OFF CONTROL BUTTON ON PEDAL**

10. **“PROGRAM” BUTTON ON PEDAL**
    - In implantology mode:
      - Short press: next stage
      - Long press: previous stage

11. **BUTTON TO REVERSE THE ROTATION OF THE MX CHIROPRO MICROMOTOR ON PEDAL**

12. **VARIABLE SPEED DRIVE ON PEDAL**

13. **PEDAL CONNECTOR**

14. **MAINS CONNECTOR (100/115/230 VAC)**

15. **FUSE HOLDER**

16. **MAIN SWITCH ON THE DEVICE**

17. **LABEL**

18. **BRACKET SUPPORT**

19. **MX CHIROPRO MICROMOTOR**
8 Operation

Description of functions

The "reverse" function can be chosen directly in all the programs. Upon selection, a beep and the "reversal of motor rotation" icon indicate reverse rotation.

Stores the settings of a program: press the key until a beep is emitted, and the values that are flashing will be stored in memory directly.

Return function. With "ESC", you can leave the current screen. In “Implantology” mode, can also be used to return to the previous stage.

If the name of the program flashes when exiting, the changes will not be taken into consideration. The changes must always be confirmed with "SAVE", otherwise they will be lost.
8 Operation

Start-up

1. System loading.......

2. LANGUAGE
   *English* ✔
   *Français*
   *Deutsch*
   *Italiano*
   *Español*
   *Português*
   *Russian*
   *Japanese*

Select with ▲ ▼ and confirm with OK.

3. IMPLANT. PRG
   - Implant PRG1
   - Implant PRG2
   - **Implant PRG3**
   - Implant PRG4
   - Implant PRG5
   - Implant PRG6
   - Implant PRG7
   - Implant PRG8

Select with ▲ ▼ Confirmation with OK.

4. <Name of selected program>
   Please check the pre-programmed values before inserting implant.

OK: continue
ESC: back

5. INFORMATION
   Key functions:
   ▲ move cursor UP
   ▼ move cursor DOWN
   ◀ decr./disable
   ▶ incr./enable

OK: continue

6. MAIN MENU
   Implantology

Select with ▲ ▼ Confirmation with OK

with OK: go directly to pre-setting with no possibility of deactivating the stages
or with SETUP, possibility of deactivating the stages with ✔

The 8 implantology programs contain default values that represent common settings used during implant procedures.

This storing in memory takes place only at the first connection of the device and is subsequently maintained. These parameters can then be modified in SETUP.

Pre-settings

<table>
<thead>
<tr>
<th>SETUP</th>
<th>Language</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English</td>
<td>128:1</td>
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<tr>
<td></td>
<td>Français</td>
<td>64:1</td>
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<tr>
<td></td>
<td>Deutsch</td>
<td>30:1</td>
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<tr>
<td></td>
<td>Italiano</td>
<td>27:1</td>
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<td></td>
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<td>Português</td>
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<td>Russian</td>
<td>10:1</td>
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<tr>
<td></td>
<td>Japanese</td>
<td>1:1</td>
</tr>
</tbody>
</table>

Select the language wanted ▲ ▼ and confirm with OK.

<table>
<thead>
<tr>
<th>SETUP</th>
<th>Implant. PRG</th>
<th>Implant PRG1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Implant PRG4</td>
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<td>Implant PRG5</td>
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<td>Implant PRG7</td>
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<tr>
<td></td>
<td></td>
<td>Implant PRG8</td>
</tr>
</tbody>
</table>

Select the system wanted ▲ ▼ and confirm with OK.
ESC: change
8 Operation

Pre-settings

Language
Implant. PRG
Ratio
Light
Footpedal
Torque units
Contrast
Editor
System info
Restore defaults

- Light OFF
- Light ON

ON or OFF with ▼ ▲ then OK.
Display under light ON:
Level: adjustment with ▼ ▲.
Time delay: setting with ▼ ▲.
save with SAVE, continue with OK.
ESC: back

- Implantology (Ncm)

Adjustable with ▼ ▲, save with SAVE, continue with OK.
ESC: back

Language
Implant. PRG
Ratio
Light
Footpedal
Torque units
Contrast
Editor
System info
Restore defaults

- Implantology

ON/OFF or progressive with ▼ ▲.
save with SAVE, continue with OK.
ESC: back

- Contrast

Adjustable with ▼ ▲.
save with SAVE, continue with OK.
ESC: back

- System info:
software version, serial number
and electronics of the device.

- Restore system:
Can be used to reinitialise factory settings.

Language
Implant. system
Ratio
Light
Footpedal
Torque units
Contrast
Editor
System info
Restore defaults

- Implantology (Ncm)

Used to rename or customise the name of the system, tool or treatment.
Select with ▼ ▲ then OK, choose the letters on the keypad by moving the cursor using ▼ ▲, ▼ ▲ then OK, save the new name with SAVE, ESC: back

Language
Implant. PRG
Ratio
Light
Footpedal
Torque units
Contrast
Editor
System info
Restore defaults

- System names

- Tool names

- Implant PRG1
- Implant PRG2
- Implant PRG3
- Implant PRG4
- Implant PRG5
- Implant PRG6
- Implant PRG7
- Implant PRG8

- ROUND BUR 1
- ROUND BUR 2
- DRILL 1
- DRILL 2
- DRILL 3
- DRILL 4
- TAPPING
- TAP UNSCREWING
- IMPLANT SCREWING
- UNSCREWING
# 8 Operation

## Description of functions

### MAIN MENU

**Selection wanted**

- **.Selection cursor**

- **Adjusting irrigation**

- **Transmission ratio**

- **Torque setting**

- **Speed in rpm**

- **Irrigation in ml/min**

**OK**: next step

**ESC**: previous step

### Implantology

- **ROUND BUR 1**
- **ROUND BUR 2**
- **DRILL 1**
- **DRILL 2**
- **DRILL 3**
- **DRILL 4**
- **TAPPING**
- **TAP UNSCREwing**
- **IMPLANT SCREWING**
- **UNSCREWING**

### Steps

Each of these stages can be activated or deactivated from the SETUP menu. See also info on the last page.

**OK**: next step

**ESC**: previous step

### Transmission ratio

<table>
<thead>
<tr>
<th>Ratio</th>
<th>Torque setting</th>
<th>Speed in rpm</th>
<th>Irrigation in ml/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>28.0 Ncm</td>
<td>1'000 rpm</td>
<td>0.48 - 4.8 Ncm</td>
</tr>
<tr>
<td>1:2</td>
<td></td>
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<tr>
<td>1:5</td>
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</tr>
</tbody>
</table>

### Transmission ratio

- **128:1**
- **64:1**
- **30:1**
- **27:1**
- **20:1**
- **16:1**
- **10:1**
- **1:1**
- **1:2**

### Transmission ratio

- **100 - 40'000 rpm**
- **Depends on the CA selected**

### Transmission ratio

- **30 m/min 20%**
- **60 m/min 40%**
- **90 m/min 60%**
- **120 m/min 80%**
- **150 m/min 100%**
## 9 List of errors & Troubleshooting

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause of error</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release the pedal</td>
<td>The pedal is pressed when starting the device. The motor is blocked for more than 2 sec.</td>
<td>Safety</td>
</tr>
<tr>
<td>⚠️ ⚠️</td>
<td>The motor control card limits the power supplied to the motor to prevent motor overheating.</td>
<td>Safety</td>
</tr>
</tbody>
</table>

### Equipment initialisation error

The following error may occur at start-up of PROIMPLANT

| INIT ERROR 1 | The memory is corrupt! Please contact Bien-Air Dental SA. | The memory data check failed. | Press the ESC key to try to restore the memory. Contact Bien-Air Dental SA. |

### Device operating error

The following errors may occur during operation of the device

#### 1. Loss of pedal connection

| ERROR 1 | The pedal is not connected! Please check the connection. ESC: exit | The pedal is not connected correctly. | Check pedal connection. Contact Bien-Air Dental SA. |

#### 2. Peristaltic pump overheating

| ERROR 2 | Irrigation pump overheating! Please wait for it to cool. ESC: exit | Peristaltic pump motor overheating | Wait until the system cools. Contact Bien-Air Dental SA. |

#### 3. Peristaltic pump general error

| ERROR 3 | Irrigation pump fault! Please contact Bien-Air Dental SA. ESC: exit | Peristaltic pump electrical fault. | Contact Bien-Air Dental SA. |

#### 4. Loss of motor connection

| ERROR 4 | The motor is not connected! Please check the connection. ESC: exit | Loss of motor phase fault. The motor is not connected correctly. | Check motor connection. Contact Bien-Air Dental SA. |

#### 5. Motor cable fault

| ERROR 5 | Motor cable fault! Please change cable. ESC: exit | Motor power fault. The motor cable may be defective. | Check motor cable. Contact Bien-Air Dental SA. |

#### 6. Motor control overheating

| ERROR 6 | System overheating! Please wait for it to cool. ESC: exit | Overheating of motor control card (electrical control of motor). | Wait until the system cools. Contact Bien-Air Dental SA. |

#### 7. System electrical fault

10 Default values

Implantology:
Default values page 33
The table shows the default operating values for 8 different implantology sequences.

11 Maintenance

Only use original Bien-Air Dental maintenance products and parts or those recommended by Bien-Air Dental. Using other products or parts may cause operational failure and/or void the guarantee.

Servicing
Never disassemble the device. For any modification and repair, we recommend that you contact your regular supplier or Bien-Air Dental directly. Bien-Air Dental asks the user to have its dynamic instruments checked or inspected at least once a year.

Information
The technical specifications, illustrations and dimensions contained in these instructions are given only as a guide. They may not be the subject of any claim. The manufacturer reserves the right to make technical improvements to its equipment, without amending these instructions. For all additional information, please contact Bien-Air Dental SA at the address indicated on the back cover.

12 Generalities and guarantee

General information
The device must be used by a qualified professional in compliance with the current legal provisions concerning workplace safety, health and accident prevention measures, and these working instructions. In accordance with such requirements, the operators:
• must only use devices that are in perfect working order; in the event of irregular functioning, excessive vibration, abnormal heating or other signs that may indicate malfunction of the device, the work must be stopped immediately; in this case, contact a repair centre that is approved by Bien-Air Dental;
• must ensure that the device is used only for the purpose for which it is intended, must protect themselves, their patients and third parties from any danger, and must avoid contamination through the use of the product.

Terms of guarantee
Bien-Air Dental grants the user a guarantee covering all functional defects, material or production faults.

The device is covered by this guarantee for 24 months from the date of invoicing.

In case of justified claim, Bien-Air Dental or its authorised representative will fulfil the company’s obligations under this guarantee by repairing or replacing the product free of charge.

Cleaning-disinfection
• Disinfect the surfaces of the console and pedal with a clean cloth soaked in a suitable product.
• Do not exert any pressure on the screen.
• Do not immerse in disinfectant solution.
• Not designed for an ultrasonic bath.
• Use a new sterile irrigation line for each patient.
• AAMI TIR 12:2004 - Disinfection level: intermediate.

Important
For maintenance:
- MX CHIROPRO micromotor REF 2100161
- Cable for micromotor MX CHIROPRO REF 2100163
- Contra-angle CA 20:1 REF 2100209

Any other claims, of whatever nature, in particular in the form of a claim for damages and interest, are excluded.
Bien-Air Dental shall not be held responsible for damage or injury and the consequences thereof, resulting from:
• excessive wear and tear
• improper use
• non-observance of the instructions for installation, operation and maintenance
• unusual chemical, electrical or electrolytic influences
• poor connections, whether of the air, water or electricity supply.

The guarantee does not cover flexible “fibre optic” type light conductors, or any parts made of synthetic materials.

The guarantee shall become null and void if the damage and its consequences are due to improper manipulation of the product, or modifications to the product carried out by persons not authorised by Bien-Air Dental. Claims under the terms of the guarantee will be considered only on presentation, together with the product, of the invoice or the consignment note, on which the date of purchase, the product reference and the Serial No. should be clearly indicated.
### Implantology: default values

The table shows the default operating values for 8 different implantology sequences. These default values represent common settings used during implant procedures.

<table>
<thead>
<tr>
<th>Implant PRG1 / PRG8</th>
<th>Implant PRG2</th>
<th>Implant PRG3</th>
<th>Implant PRG4</th>
<th>Implant PRG5</th>
<th>Implant PRG6</th>
<th>Implant PRG7</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROUND BUR 1</td>
<td>ROUND BUR</td>
<td>ROUND BUR</td>
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<td>ROUND BUR</td>
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33