

OPERATION GUIDE SPRINT



R_x only



Attention: Carefully read this manual before operating the Olsen's equipment!

Olsen
Equipment made to last

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1 - Introduction

The purpose of this guide is to present instructions for operating the dental equipment of the Sprint line. The images are merely illustrative and do not represent the configuration of models or the availability of items and accessories.

The *User Manual Dental Line* is supplementary to this guide and should be read before operating the equipment. It is provided in digital format (PDF) along with the order confirmation for your equipment. The user manual presented the descriptive and technical information, installation instructions, maintenance, cleaning, precautions of use and regulatory guidelines.

Standard Information - Indications for Use:

Infinity Pro, Logic, Quality, Sprint are intended for use in general dental applications by providing the dental practitioner a user interface to control operation of the dental chair and attached dental devices. The system delivers air, water, electricity, and vacuum to allow the dental practitioner an intuitive control center for all common and normal patient treatment procedures performed by the dentist / dental assistant.

2 - Package Contents

The Sprint line equipment is available in a reinforced cardboard packaging. Check the contents of the package below.



Standard Items:

- 1 Dental Chair Sprint
- 1 Delivery Unit Sprint
- 1 Operating Light
- 1 Packing Support

Optional Items:

- Junction Box
- Cart System
- Dental Cart Unit K10
- Monitor Holder

Note: the availability of items in the packages may change according to the customer's request.

3 - Sprint Line

3.1 - Standard Configuration

3.1.1 - Dental Chair

- Articulated Headrest
- Joystick and Commands on the Chair Base
- 3 Programmable Work Positions
- Automatic Zero Position on the Chair Base
- Fixed Right Armrest
- Integrated Junction Box

3.1.2 - Operating Light

- LED Operating Light
- On/Off on the Chair Base
- Side Handles
- Multifaceted Mirror with Polycarbonate Protection

3.1.3 - Delivery System

- Coupling for High-speed Handpiece
- Coupling for Low-speed Handpiece without Cooling
- 3-Way Syringe
- Stainless Steel Tray
- Instruments Water Tank with Solids Filter



3.1.4 - Water Unit

- Swivel at 90°
- Porcelain Spittoon Bowl
- Manual water control
- Venturi Saliva Ejector

3.2 - Optional Items

Ambidextrous System
Remote Foot Pedal
Multi-articulated Headrest
Swivel Right Armrest
Anti-stress System
Automatic Vapor Drain
Cart System
Additional Coupling for High-speed Handpiece
Coupling for Handpiece with Cooling System
Midwest Coupling
Optical Fiber Coupling
Flex Arm with Pneumatic Lock
X-Ray Viewer
Straight Arm with Vertical Adjustment
Articulated Arm with Mechanical Lock

Flex Arm with Pneumatic Valve
Monitor Holder
Concept Plus LED Operating Light 8.000 to 30.000 Lux
Premium LED Operating Light 8.000 to 30.000 Lux
Assistant Module
Bowl Flush Vortex Control and Cup Filler with Timer
3-Way Syringe on the Water Unit or Assistant Module
Venturi Saliva Ejector
High Power Vortex Saliva Ejector
Vacuum Pump Adaptor Set
Translucent Spittoon Bowl
Junction Box

Note: optional items are defined on the customer's order.

4 - Parts Identification



- A - Delivery System
- B - Electric Panel
- C - Commands and Pedal
- D - Working Table
- E - Assistant Module
- F - Operating Light
- G - Dental Chair
- H - Water Unit

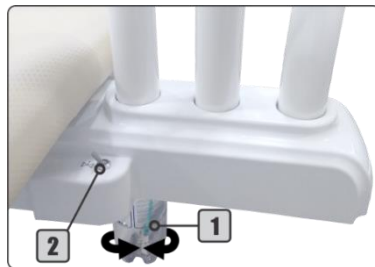
5 - Equipment Operating and Description

5.1 - Before Turning On the Equipment

- 1° - Check that the equipment is properly installed in accordance with the instructions in *chapter 6* of the *User Manual Dental Line*;
- 2° - Turn On the compressor that supplies the equipment;
- 3° - Open the water supply register of the equipment;
- 4° - Turn On the equipment's power circuit breaker.

5.2 - Turning On the Equipment

- 1° - Turn On the On/Off switch (3), its LED indicator will light;
- 2° - Activate the "Seat Up" command on the chair base (section 5.3) until the seat reaches its maximum height limit;
- 3° - Close the pressure valve (2);
- 4° - Remove the water tank (1) and make sure it filled with water. If necessary, fill it with drinkable water up to the limit indicated in the tank and reattach it again. If you wish to place prophylactic products (low concentration);
- 5° - Open the pressure valve (2) and check if the water tank (1) is well attached and free of leaks.
- 6° - Before starting the use of equipment, verify the operation of all instruments and commands available and perform the cleaning and sterilization of the instruments (chapter 7 of the User Manual Dental Line - Cleaning and Disinfection)



5.2.1 - Delivery System

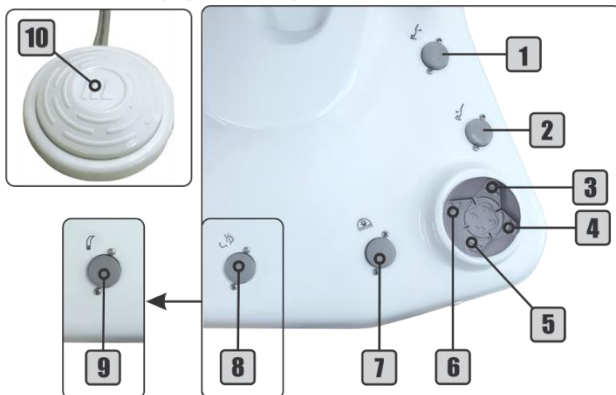
- 1 - Water Tank
- 2 - Pressure Valve

5.2.2 - Electric Panel

- 3 - On/Off Switch with LED Indicator
- 4 - Fuse Holder

5.3 - Base and Progressive Pedal Controls (Operation)

- 1 - Zero Position
- 2 - Work Position
- 3 - Backrest Up (↗)
- 4 - Seat Down (↓)
- 5 - Backrest Down (↙)
- 6 - Seat Up (↑)
- 7 - Operating Light Control
- 8 - Bowl Flush Water Control
- 9 - Vortex Saliva Ejector
- 10 - Progressive/Activation Pedal



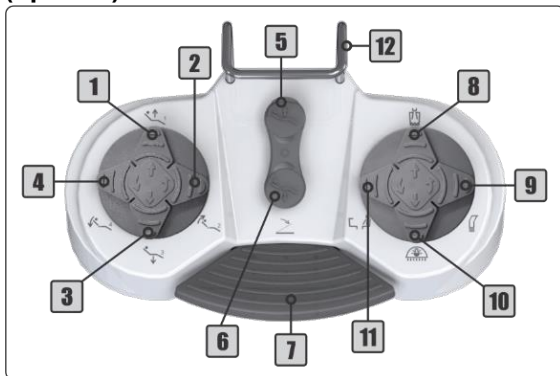
To activate each command simply press the respective button or in the case of the movements of the chair, press the joystick at the points indicated in the side image (3 to 6).

In case of the equipment has the high-power Vortex Saliva Ejector, the spittoon bowl flush command (8) will be placed on the water unit, and the command for Vortex ejector (9) will be available on the chair base.

To activate the handpieces: press the progressive/activation pedal (10).

5.3.1 - Remote Foot Pedal Commands (Optional)

- 1 - Seat Up (↑)/Position 1
- 2 - Backrest Up (↖)/Position 2
- 3 - Seat Down (↓)/Position 3
- 4 - Backrest Down (↙)
- 5 - Work Position
- 6 - Zero Position
- 7 - Propulsion/Activation Pedal
- 8 - Cup Filler
- 9 - On/Off Vortex Saliva Ejector
- 10 - On/Off Operating Light
- 11 - Spittoon Bowl Flush
- 12 - Metal Handle

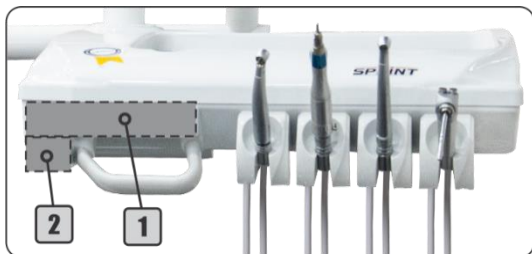


5.4 - Working Table

- 1 - Instruments Control Top Panel
- 2 - Instruments Control Lower Panel



The layout of the controls and panels may vary according to customer order and available handpieces.



Controls Available in the Control Panels (1 and 2):

- 3 - Pneumatic Brake Valve*
- 4 - Optical Fiber Water Control
- 5 - Optical Fiber On/Off



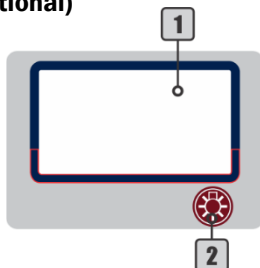
* The Pneumatic Brake Valve is optional and is part of Flex Arm.



Some functions indicated on control panel may not be available according to the equipment configuration.

5.4.1 - X-ray Viewer (Optional)

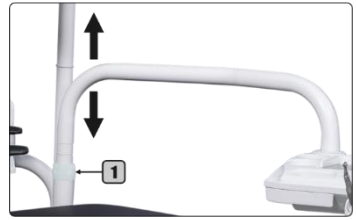
- 1 - X-ray Viewer
- 2 - On/Off X-ray Viewer



5.4.2 - Straight Arm Adjustment

Straight arm allows 5 manual height adjustment levels.

To lower/raise the arm: holding the arm in the part closest to the equipment column, pull it firmly upward to disengage it. Adjust the lock (1) to the desired height and then push the arm down until it locks into place.



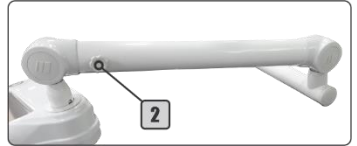
5.4.3 - Articulated Arm

Features 2 articulations between the delivery unit and the working table and mechanical lock system.

To lower/raise the arm: Release the lock by the handle (2), adjust the arm to desired height and then lock it again.



Do not move the working table without loosening the adjustment handle. This may damage the articulating arm locking system.



5.4.4 - Flex Arm (Optional)

Features 2 articulations (3) and pneumatic lock that are disabled by activating the pneumatic valve (4), allowing the working table movement.



Do not move the table upright without disabling the pneumatic brake. This may damage the flex arm locking system.



5.5 - Water Unit

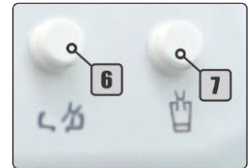
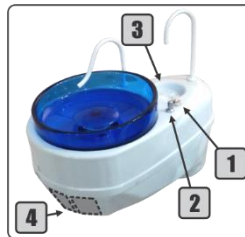
- 1- Cup Filler Control
- 2- Spittoon Bowl Control
- 3- Cup Filler
- 4- Area for Instruments
- 5- Needle Valve
- 6- Spittoon Bowl Control with Timer
- 7- Cup Filler Control with Timer

To control the flow of water from the cup filler and the spittoon bowl, the water unit has a needle valve (5).

When the water unit is equipped with timed controls for spittoon bowl (6) and cup filler (7), these commands are available on the side of the water unit.



The availability of commands and instruments in the water unit and assistant module may vary according to the customer's order and available handpieces.



5.5.1 Assistant Module (Optional)

When the equipment has an assistant module (10), the instruments of the water unit are transferred to the assistant module, facilitating access for the operator, through the extension arm.

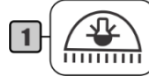


5.6 - Operating Light

5.6.1 - Evolution Plus

To turn On/Off the operating light: press the operating light control (1) on the chair base (section 5.3).

To change the light intensity: hold the operating light control button pressed for more than 2 seconds. Release the button when the operating light has the desired intensity.

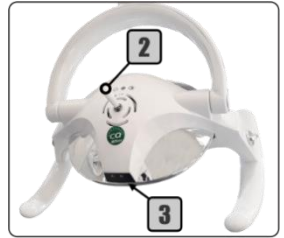


5.6.2 - Concept Plus (Optional)

To activate the operating light: press the operating light command (1) on the chair base (section 5.3) to enable sensor (3) and control lever (2).

To turn On/Off the operating light: pass the hand in front of the sensor (3) approximately 5 cm away or turn to left or right the control lever (2).

To change the light intensity: hold your hand in front of the sensor (3) or hold the control lever (2) to the left or to the right until the operating light shows the desired intensity.



5.6.3 - Premium LED (Optional)

To activate the operating light: press the operating light command (1) on the chair base (section 5.3) to enable sensor (5) and control knob (4).

To turn On/Off the operating light: pass the hand in front of the sensor (5) approximately 5 cm away or press the control knob (4).

To change the light intensity: hold your hand in front of the sensor (5) or turn the control knob (4) until the operating light shows the desired intensity.



5.7 - Dental Chair

To move backrest and seat, press the joystick at the points indicated (1 to 4) in the image beside or see section 5.3.

1 - Seat Up (↑)

2 - Backrest Up (↖)

3 - Seat Down (↓)

4 - Backrest Down (↙)



5.7.1 - Work Position



To save a work position:

- 1° - Press the Zero Position button;
- 2° - Adjust the backrest to the desired position;
- 3° - Adjust the seat to the desired position;
- 4° - Press the Work Position button for 5 seconds. The equipment will emit 2 long beeps;
- 5° - Press command 1 (*Seat Up*) while the equipment beeps; The equipment will emit 2 short beeps to confirm the procedure;

Note: the time to record the working position is only 2 seconds between *steps* 4 and 5, then when you hear the first long beep (*step* 4), quickly press one of the available commands (1 to 3) to record the working position. If none of the available commands are pressed during this time, the equipment will emit 3 short beeps, canceling the operation.

6° - Press the Zero Position button.

Repeat the previous steps by replacing the command 1 by the command 2 (*Backrest Up*) to record the working position 2 or by the command 3 (*Seat Down*) to save the working position 3.

To perform a working position:

- 1° - Press the Work Position button; The equipment will emit a short beep;
- 2° - Press the command for the desired saved working position (1 to 3); The equipment beeps twice confirming the operation.

The dental chair moves the backrest and seat simultaneously to the previously saved position and lights the operating light at the last intensity used.

Note: after pressing the Work Position button, the time for position selection is 4 seconds. If no key is pressed within this time, the equipment cancels the operation.

5.7.2 - Zero Position



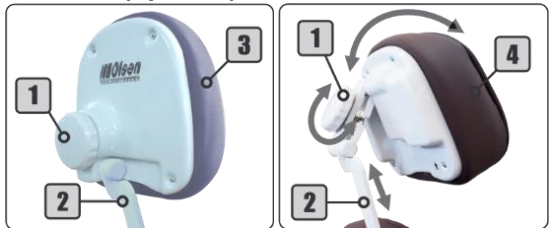
Press the Zero Position button, on the chair base, to automatically adjust the seat to the lowest position and backrest in the highest position simultaneously, to facilitate patient entry and exit.

5.7.3 - Articulated and Multi-articulated Headrest (Optional)

To adjust the headrest: turn the knob (1) counterclockwise, adjust the articulated headrest (3) or the multi-articulated headrest - optional (4) in the desired position.

Turn the knob (1) clockwise to lock the headrest in the set position.

To adjust the height of the headrest: move the bar (2) until you reach the position. The headrest bar allows adjustment with up to 17 cm from the backrest.



5.7.4 - Swivel Armrest (Optional)

To move the swivel armrest: press the trigger (1) and push the armrest down.



6 - Instruments Operation

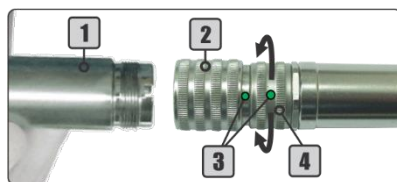
6.1 - Pneumatic Handpiece Couplings

Before starting the operation connect the handpiece (1) to the coupling by attaching it to the coupling ring (2), ensuring that it is properly connected and that there is no leakage of air or water.

To activate the rotation: press the propulsion/activation pedal (5). The higher the pressure applied to the pedal, the more speed in the handpiece until reaching the pressure limits of the equipment.

To adjust the spray: turn the adjusting ring (4) until the desired volume of water. To adjust the maximum flow of water, bring the spray adjustment indicators (3) closer to each other. To decrease the flow of water, rotate the ring so it distances one indicator from the other. The completely opposite points indicate the minimum water regulation for the spray.

Note: spray adjustment is not available for coupling without refrigeration.



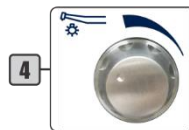
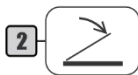
6.2 - Optical Fiber Handpiece (Optional)

Before starting the operation connect the optical fiber handpiece to the coupling by attaching it to the coupling ring (1), ensuring that it is properly connected and there is no leakage of air or water.

To activate the rotation: press the propulsion/activation pedal (2). The higher the pressure applied to the pedal, the more speed in the handpiece until reaching the pressure limits of the equipment.

To turn the coupling's light On/Off: use the On/Off key (3) on the left side of the working table (section 5.4).

To adjust the spray: use the optical fiber water control knob (4) on the instruments' control panel.



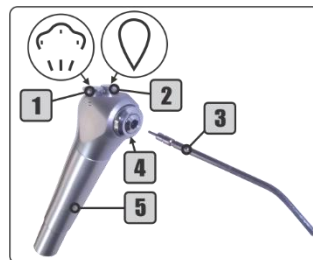
6.3 - 3-Way Syringe

Before beginning the use of the 3-way syringe (5), connect the syringe tip (3) by pressing the locking ring (4) into the correct fit.

To emit air jet: press the air button (1).

To emit water jet: press the water button (2).

To emit spray jet: press simultaneously the air and water buttons (1 and 2).



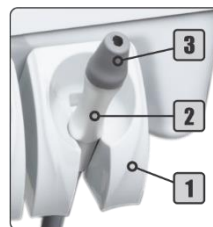
6.4 - Venturi Saliva Ejector

Before starting the operation with the Venturi saliva ejector (2), insert the cannula into the $\varnothing 6,3$ or $9,5$ mm adapter (3).

To activate the suction: remove the ejector (2) from the holder (1).

To deactivate the suction: place the ejector in its holder (1).

The cannula adapter (3) is removable for cleaning.

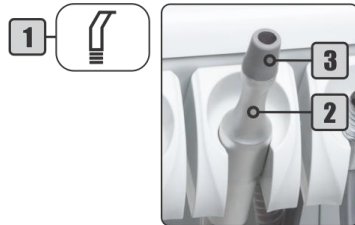


6.5 - High Power Saliva Ejector Vortex (Optional)

Before starting the operation with the Vortex saliva ejector (2), insert the cannula into the Ø 6,3, 9,5 or 11 mm adapter (3).

To enable/disable suction: use the On/Off Vortex saliva ejector button (1) on the chair base or remote foot pedal.

The cannula adapter (3) is removable for cleaning.



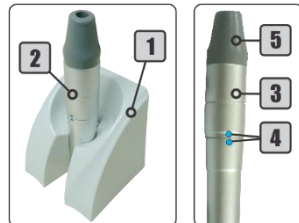
6.6 - Vacuum Pump Adaptor (Optional)

Before starting the operation with the Vacuum Pump saliva ejector (2), insert the cannula into the Ø 6,3, 9,5 or 11 mm adapter (5).

To activate suction: remove the vacuum pump suction (2) from its holder (1).

To adjust suction flow: to decrease the suction flow, turn the adaptor's body (3) away from the indicators (4). The more distant, the smaller the suction. For the maximum suction flow, align the indicators (4).

To deactivate the suction: place the vacuum pump in its holder (1).
The cannula adapter (5) is removable for cleaning.



6.7 - Anti-Stress System (Optional)

To activate/deactivate the Anti-Stress system: press the "On/Off" key (5).

To enable the automatic massage system: press the "AUT" key (3). The system will start executing 14 types of massage combinations, alternating one combination every minute.

To toggle massage combinations: use the "AJUSTES" keys (8) while performing automatic massage to advance or repeat the desired massage combination.

To adjust the massage time: press the "TEMPO" key (6) and then use the "AJUSTES" key (8) to adjust the duration of the massage (from 5 to 45 minutes).

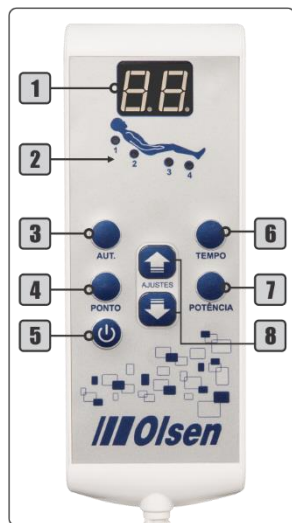
To adjust the vibration power: press the "POTÊNCIA" key (7) and then use the "AJUSTES" key (8) to adjust up to 10 levels of vibration intensity for the massager's motors.

To enable/disable massagers: use the "PONTO" key (4) to define which massagers should work during the massage. Use the "AJUSTES" key (8) just after the "PONTO" key (4) to customize the running massages. The LED's (2) indicated the motor that will be active.

To restore factory settings: press the "AUT" key (3) twice quickly.



20 seconds after the last command executed, the display (1) will show the initials AU, but without affecting the programming in progress.



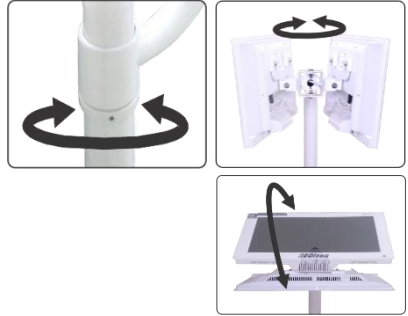
6.8 - Monitor Holder (Optional)

The support features a rotation on the axis, tilt adjustment and lateral rotation for the monitor.

The monitor is not part of the monitor holder.

Do not use on the Monitor Holder:

- 1 - Equipment powered with more than 24 Volts.
- 2 - Equipment with weight more than 1 kg.

























































6.9 - Cart System (Optional)

See the *User Manual Dental Line*.

7 - Symbology




The symbology complies with IEC 60601-1 and IEC 60878.

	Patient Chair Up (Dental)		Patient Chair Down (Dental)		Zero Position
	Backrest Up		Backrest Back		Work Position
	Bowl Flush		Cup Filler		Multifunction Syringe (Air-Water)
	Dental Air Motor		Turbine		Turbine with Illumination
	Saliva Ejector		Suction Handpiece		Suction Handpiece with Hand Control Valve
	Variability, for Rotating Movement		Dental Operating Light		Lighting
	Pneumatic Brake		Hand Control Valve		Foot Switch
	Spray-cooling		"OFF" (Power)		"ON" (Part of the Equipment)
	Stop		"ON" (Power)		"OFF" (Part of the Equipment)
	Emergency Stop		"ON"/"OFF"		Write Data into Store (Selection)
	Manufacturer		Caution		Warning, Electricity
	General Warning Sign		Level		Sterilizable Up to the Temperature Specified
	Operating Instructions		General Prohibition Sign		Refer to the Instruction Manual
	General Mandatory Action Sign		Stepping Prohibited		

	Type B Applied Part		Serial Number		Protective Earth (Ground)
	Earth (Ground)		Keep Away from Heat		Humidity Limitation
	Fragile, Handle with Care		Temperature Limitation		Keep Dry
	Heaping Up		This Side Up		Alternating Current
	Non-Sterile	 Authorized Representative in the European Community			

8 - Olsen Accredited Technical Assistance Network

To access the Olsen certified technical assistance network for installation and maintenance, contact us by e-mail export3@olsen.odo.br or by phone +55 48 2106 6000.

-  **The installation and maintenance of the equipment and its accessories must only be carried out by Olsen technicians.**
-  **Use Olsen genuine parts only. The use of non-genuine parts, accessories or components may compromise the proper functioning of the equipment.**
-  **Do not make adaptations, modifications or changes to the equipment, its components or accessories.**

9 - Warranty Terms

The warranty period is of 12 months starting from the equipment's installation date since the installation be made during the 90 days after the purchasing date and under the terms of this certificate.

- 1** - The maximum storage period must be 3 months from the purchasing date. In the case of this period is exceeded, the warranty period will start counting even if the product is kept in storage.
- 2** - Upholstered parts are under warranty for 6 months.
- 3** - Operating light mirror, fuses, wires, and transformers are not covered by this warranty.
- 4** - The warranty is limited to the repair or replacement of defected parts and does not cover defects originated by:
 - a) Non-observance of the use and maintenance instructions;
 - b) Falls, crashes and inadequate storage;
 - c) Effects caused by the agents of nature;
 - d) Damage caused to the upholstered parts, due to improper use of chemical products, exposure to inadequate weather conditions, contact with fabrics, leather, disposable gloves, paints, pigmented detergents, cutting or piercing objects;
 - e) Damage to painted parts and plastic covers caused by improper use of chemical products or by contact with disposable gloves and cutting or piercing objects;
 - f) Connection with the wrong voltage power supply.
- 5** - This warranty will cease when:
 - a) The warranty period expires;
 - b) The user makes any changes to the product or uses inappropriate accessories;
 - c) For adulterations in the Warranty Certificate, purchase, installation or service document;
 - d) Installation and technical service is done by an unauthorized technician;
 - e) The equipment is stored for more than 6 months after the invoice issuing date;
 - f) For the use of spare parts other than Olsen originals.
- 6** - The repairing or replacement of parts under the warranty period will not extend its original expiring date.
- 7** - The expenses resulted from the equipment's installation, scheduled maintenance, travel and accommodation costs of the service staff involved in the calls for service for the equipment's installation or repair will run under the owner's responsibility and in accordance with the distributor's norms.
- 8** - The customer, after checking the installation, must keep the purchasing invoice and the equipment's serial number until the warranty period ends, as in the case of service needed, the serial number, the invoice number, and purchasing or installation date will be required.
- 9** - On all calls for service during the warranty period, the equipment's serial number and a copy of the purchasing or installation invoice must be shown. In the case of this information is not presented, the service will not be done under warranty.

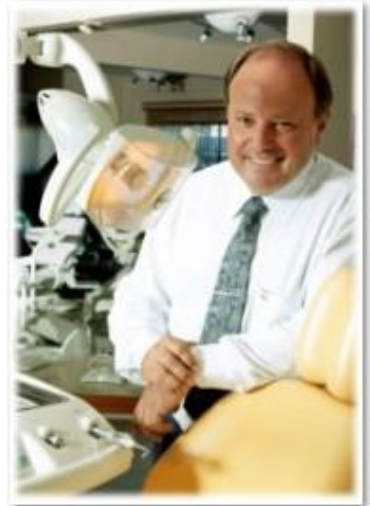
10 - Message from the President

**Olsen and its clients:
A successful relationship.**

I have linked my name to the factory and to the Dental and Medical equipment that are currently produced and trade in more than 100 countries having in mind the responsibilities and long-term response to this initiative.

Our products are modern, innovative, durable and low maintenance costs. These characteristics have been achieved thanks to our competent and dedicated team, which makes me very proud for many reasons, as they are always giving the best of their creative capacity to our clients.

Our company will always be open to all those who prefer Olsen products, for any necessary information and technical assistance, but especially for comments regarding the relationship with customers. We expect this connection always brings you satisfaction, resulting in more and more benefits to all of us.



Cesar Olsen

www.olsen.odo.br

+55 48 2106 6000
export3@olsen.odo.br

Olsen

Equipment made to last

Ministry of Health 1028130009

Technician in Charge Eng. Cleber da Costa - CREA SC: S1 116283-5

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Olsen S.A - Medical & Dental Industry

Av. Ivo Lucchi, 68, PO. Box 59, Distrito Industrial, Jardim Eldorado -
Palhoça/ SC, Brasil, Zip Code 88133-510 - Phone: +55 (48) 2106-6000

