

English

# OWNER'S MANUAL

Dental Tip



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### MANUAL PRESENTATION

**Technical Name:** ULTRASOUND TIP

**Trade Name:** DENTAL TIP

**Models:** TIP ENDO G, TIP ENDO L, TIP PERIO E, TIP PERIO SUB, TIP PERIO SUPRA, TIP REMO C, TIP REMO N, TIP RETRO R3, TIP RETRO R5., TIP RETRO A3

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The performance characteristics provided in this manual are for reference only and should not be considered as guaranteed specifications.

## SUMMARY

<b>01</b>	<b>GENERAL INFORMATION.....</b>	<b>07</b>
1.1.	DEAR CUSTOMER .....	07
1.2.	INDICATIONS FOR USE .....	07
1.3.	CONTRAINDICATIONS.....	07
1.4.	SYMBOLOLOGY .....	07
<b>02</b>	<b>WARNINGS, CAUTIONS AND RECOMMENDATIONS.....</b>	<b>10</b>
<b>03</b>	<b>GENERAL DESCRIPTION.....</b>	<b>13</b>
3.1.	PRODUCT DESCRIPTION.....	13
3.2.	MAIN PRODUCT COMPONENTS.....	13
<b>04</b>	<b>OPERATION.....</b>	<b>16</b>
4.1.	ASSEMBLY.....	16
4.2.	TECHNIQUES AND APPLICATIONS.....	17
<b>05</b>	<b>CLEANING AND STERILIZATION.....</b>	<b>19</b>
<b>06</b>	<b>TECHNICAL SPECIFICATIONS.....</b>	<b>21</b>
6.1.	EQUIPMENT CLASSIFICATION.....	21
6.2.	GENERAL INFORMATION.....	21
6.3.	ENVIRONMENTAL CONDITIONS.....	21

## GENERAL INFORMATION

# 1. GENERAL INFORMATION

## 1.1. DEAR CUSTOMER

This manual provides you with a general presentation of your equipment, describing important details that can guide you in its correct use, as well as in solving small problems that may eventually occur.

This manual must be read in full and kept for future reference.

## 1.2. INDICATIONS FOR USE

The Dental Tip is intended to assist in dental treatments such as removing plaque and residual stains; tartar removal; periodontal treatment; endodontic treatment; micro retro surgery; cavity preparations for restorations; amalgam condensation, inlays and on lays and gutta percha; removal of pins and crowns, among other procedures related to dental treatments.

## 1.3. CONTRAINDICATIONS

None known.

## 1.4. SIMBOLOGY

The following symbols are used both throughout this manual and in the product. Make sure that you fully understand each symbol and follow the accompanying instructions.



Manufacturer



Manufacturing Date



Protect from sunlight



Keep dry



Instructions for use



Sterilizable in a steam sterilizer (autoclave) at specified temperature



Model

**O.P**

Production order

**SN**

Serial number



Mandatory action



General warning



Attention

**REF**


Catalog number




## **WARNINGS, CAUTIONS AND RECOMMENDATIONS**

## 2. WARNINGS, CAUTIONS AND RECOMMENDATIONS

### General warnings

	Read and understand all instructions contained in these instructions for use before installing or operating this equipment.
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	Use only the equipment in perfect condition and protect yourself, patients and others against possible dangers.
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### During transportation

The equipment must be transported and stored, observing the following:

- Handle with care to avoid falls and impacts;
- Protect against sunlight and water;
- Observe the temperature, pressure and relative humidity limits.


### Before using the equipment

- To help ensure proper hygiene and protect against infectious diseases, before using for the first time, the equipment must be cleaned and sterilized according to the instructions contained in this manual.
- Check the condition of the tip before use.
- Use only the original product tool for mounting the tip. In case of damage or defect, do not use the material and contact an Authorized Alliage Service Center.
- Always carry out the assembly in such a way that the tool is positioned until the end of its stroke before screwing the tip.

### While using the equipment

- In the event of a fall or impact causing it to break, be careful when handling them, there may be sharp parts.
- When using the product, the dental tip can reach the normal use temperature of 114.2 ° C. That if you are in contact for more than 1 min there may be a risk of slight superficial burns or irritation.
- If there are obstructions or blockages in the cooling system, the tip can reach a maximum rate of temperature increase of 63% (179.7 ° C). That if you are in contact for more than 1 min there may be a risk of slight superficial burns or irritation.

### Cross contamination prevention

	Adequate cleaning and sterilization measures should be taken to avoid cross-contamination between patients, users and others.
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- For each new patient, perform cleaning and sterilization procedures and according to the instructions contained in this manual.

### After use / Storage

- The material that I had contact with the patient should be cleaned and sterilized with each new patient to prevent the transmission of infectious agents that can cause serious illness.
- Perform cleaning and sterilization according to instructions contained in this manual.
- The product must be stored in its original packaging and kept in a dry place and at room temperature.

### Precautions in case of alteration of the equipment operation

If the material has any abnormality, contact an Alliage Authorized Technical Assistance.

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The manufacturer is NOT responsible:

- The material is used for purposes other than those for which it was designed.
- Damage caused to the material, the operator and / or patient, as a result of incorrect installation or improper use of the material.

## GENERAL DESCRIPTION

## 3.GENERAL DESCRIPTION

### 3.1.PRODUCT DESCRIPTION

The Dental Tip consists of a tip made of tempered stainless steel that must be coupled with a dental ultrasound to perform a periodontal prophylaxis procedure such as tartar removal.

### 3.2.MAIN PRODUCT COMPONENTS



- 01 – Tip Endo L
- 02 – Tip Remo C
- 03 – Tip Remo N
- 04 – Tip Endo G
- 05 – Tip Perio E

- 06 – Tip Perio Sub
- 07 – Tip Perio Supra
- 08 – Tip Retro A3
- 09 – Tip Retro R3
- 10 – Tip Retro R5

## Parts and parts that come with the product



01. Tips fixing key

# 4

## OPERATION

## 4. OPERATION

### 4.1. ASSEMBLY

For the operation of the Dental Tip, screw it with the aid of the fixation key (F) in the handpiece of the dental ultrasound and with a small tightening.



We recommend that after use, do not leave the handpiece with the Tip in the tip holder in order to avoid accidents.





### 4.2.TECHNIQUES AND APPLICATIONS

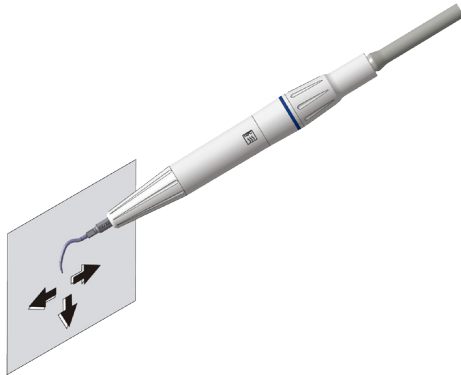
All the tips of the ultrasound have the peculiarity of vibrating in a single plane (vibrations from front to back, and on the tip axis).

The lateral vibrations common to other scalers do not exist, the straight displacement favors a more precise approximation of the tooth and gum.

Enamel and cement are protected from useless shock.

Within this main plane of vibration, the tip of each tip is driven by small vibratory movements.

To obtain the maximum performance of the ultrasound, the operator must consider the vibration settings, specific to each Tip.



The shape and weight of each Tip are determining factors to obtain maximum performance of the ultrasound generator, the operator's attention to these two characteristics, will ensure the maintenance of the best performance of the unit, however, we recommend that the structure of the Tip is not altered (by filing or twisting it), in the same way the aging of a Tip leads to a change of its original characteristic, making it ineffective. Any Tip that has been damaged by use or by accidental impact must be replaced.

# 5

## CLEANING AND STERILIZATION

## 5.CLEANING AND STERILIZATION



For your protection, during the cleaning and sterilization process of the equipment use PPE such as disposable gloves and goggles.

The cleaning and disinfection process must be performed at each patient change.

When starting the process, check for visible dirt, such as blood or saliva.

Thoroughly clean the patient's entire contact area.

For cleaning use a clean, soft cloth moistened with mild soap and then dry with a clean, soft cloth or paper towel.

After cleaning, the material must be sterilized using saturated steam in a dental autoclave.



The material must be sterilized only in an autoclave at 135°C with at least 3 minutes of waiting time and with a pressure of 2.2 bar.

There is no limit on cycles or application time that the equipment and its parts can tolerate during the cleaning and sterilization process, following the instructions in this manual.



Sterilization parameters must always be followed.  
Accessories that are not properly sterilized can cause disease in patients.

# 6

## TECHNICAL SPECIFICATIONS

## 6. TECHNICAL SPECIFICATIONS

### 6.1. EQUIPMENT CLASSIFICATION

#### EQUIPMENT CLASSIFICATION

Framing class according to ANVISA

Class II

### 6.2. GENERAL INFORMATION

Description	Dimensions (mm)
TIP ENDO G	34,2 X 20,5
TIP ENDO L	31,4 X 10,5
TIP PERIO E	36,4 X 12,7
TIP PERIO SUB	37,2 X 11,34
TIP PERIO SUPRA	39,0 X 12,6
TIP REMO C	41,7 X 12,1
TIP REMO N	34,5 X 14,2
TIP RETRO A3	31,9 X 11,5
TIP RETRO R3	37,0 X 09,9
TIP RETRO R5	37,0 X 11,5

### 6.3. ENVIRONMENTAL CONDITIONS

#### ENVIRONMENTAL CONDITIONS OF TRANSPORT AND STORAGE

Transport or storage room temperature range	-29°C to +60°C
Relative humidity range of transport and storage	20% to 90%
Atmospheric pressure range	500 hPa to 1060 hPa (375 mmHg to 795 mmHg)

#### ENVIRONMENTAL CONDITIONS OF INSTALLATION AND OPERATION

Operating ambient temperature range	+10°C to +40°C
Recommended room temperature range	+21°C to +26°C
Operating relative humidity range (not condensed)	30% to 75%
Atmospheric pressure range	700 hPa to 1060 hPa (525 mmHg to 795 mmHg)
Operating altitude	≤ 2000 m





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