

# Ultrasonic Scaler Tips

## User Manual

### 1. Product name

Ultrasonic Scaler Tips



### 2. Product model

Material	Model	Thread specification	Function
30Cr13	G3、G4、G5、G6、G8、G9	M3-6H	For supragingival scaling
	P3、P33、P1		For periodontal treatment
	E1、E2、E3、E4、E5、E8、E9、E14、E15		For root canal washing
	S-G1、S-G2、S-G3、S-G4、S-G5、S-G6	M3*0.6-6H	For supragingival scaling
	S-P1		For periodontal treatment
1Cr17Ni2	G1、G2、G12、G13	M3-6H	For supragingival scaling
	P2L、P2R、P4、P5、P7、P13L、P13R、P15		For periodontal treatment
	IM2、IM3、IM4L、IM4R		For implant maintenance
TC4	P10、P11、P12、P12L、P12R、P16、P17、P18	M3-6H	For periodontal treatment
	IM1		For implant maintenance

### 3. Material, Structure and Composition

The Ultrasonic Scaler Tips are made of stainless steel or TC4 titanium alloy. Connected with the handpiece by using M3-6H thread or M3\*0.6-6H thread.

The Ultrasonic Scaler Tips consists of working part and rod. Driven by ultrasonic scaler.

### 4. Intended use

The Ultrasonic Scaler Tips connected with the ultrasonic scaler for use in dental applications. It is mainly used for the treatment of periodontal defects. In addition, the device is used in the area of prophylaxis, peri-implantitis treatment as well as dental hygiene.

#### 4.1 Intended patient population

Adults patients with periodontal disease.

#### 4.2 Intended users

Dentist.

### 5. Performance

## 5.1 Hardness

Material	Hardness
TC4 titanium alloy	HRC33 ~ 39
Stainless steel	HRC38 ~ 51(except IM2, IM3, IM4L, IM4R)
	HRC18 ~ 25( IM2, IM3, IM4L, IM4R)

## 5.2 Supply of liquid

The amount of liquid delivered to the operating area of the products shall be at minimum of 10 mL/min and all shall not exceed 100 mL/min at the pressure in the range of 0.01 MPa ~ 0.5 MPa if product works in a water environment. If product works in an anhydrous environment, there is no supply of liquid.

## 6. Contraindications

- 1) Patients with cardiac pacemakers.
- 2) Patients with gingival malignant tumor
- 3) Patients with active angina pectoris, myocardial infarction within six months, and uncontrolled hypertension and heart failure
- 4) Patients with local oral inflammation in the acute phase (except acute necrotizing gingivitis)
- 5) Patients with bleeding diseases
- 6) Patients with acute infectious diseases
- 7) Pregnant

## 7. Safety precautions

### 7.1 Installation

The thread specification is M3\*0.6 of the product that model prefix has an S- (such as S-G1, S-G2, etc., the visual performance is that the rod of product has only two milling surfaces).It is suitable for ultrasonic scaler of SATELEC, DTE, NSK.

The thread specification is M3 of the product that model prefix without an S- (such as G1, G2, etc., the visual performance is that the rod of product has four milling surfaces).It is suitable for ultrasonic scaler of VRN, Woodpecker, Mectron and EMS.

Product will not be screwed on the handpiece with different thread specifications. Forcibly screw will damage the thread of handpiece and product.

7.2 It must be tightened when the product is installed on the hand of handpiece. Only use the torque wrench to turn product clockwise until hear the click. When using product that works in a water environment, there must be supply of liquid to the needle tip, otherwise, please replace a new one and the original product shall be discarded. The supply of liquid shall be turned off when the product is used in an anhydrous environment. Before use, test whether the product vibration is normal at a low gear and the water outlet is biased, and then select a suitable

gear for work.

7.3 Product must be reprocessed before first use and after each treatment to prevent cross infection. See Article 9 for the specific reprocessing methods.

7.4 If the product is damaged (such as rust, crack or needle tip deformation) or worn 2mm (within the warning line), please replace a new one in time. If the products of IM1, IM2, IM3, IM4L, IM4R are worn to the extent that the metal parts are exposed, please replace a new one in time and the original products shall be scrapped.

7.5 Do not bend or polish the products.

7.6 It is recommended to use a rubber shield to protect when cleaning teeth.

7.7 Operators must undergo relevant professional training.

7.8 There is no supply of liquid for E3、E4、E5、E8、E9.

7.9 Product shall not be in contact with strong acid, alkali and corrosive chemicals. It can be used normally according to the instructions and can be reprocessed for 250 cycles without corrosion.

## 8. Working, storage and transport environment

8.1 Working environment:

Relative humidity:  $\leq 80\%$ , atmospheric pressure: 70kPa ~ 106kPa, temperature:  $5^{\circ}\text{C} \sim 40^{\circ}\text{C}$ .


8.2 Storage and transport environment:

Relative humidity:  $10\% \sim 93\%$ , atmospheric pressure: 70kPa ~ 106kPa, temperature:  $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$ .

Product shall be stored in clean, dry and ventilated conditions.

## 9. Reprocessing

Please refer to the Reprocessing Instructions of Ultrasonic Scaler Tips for detail.

 Product must be reprocessed before first use and after each treatment to prevent cross infection.

## 10. Warranty

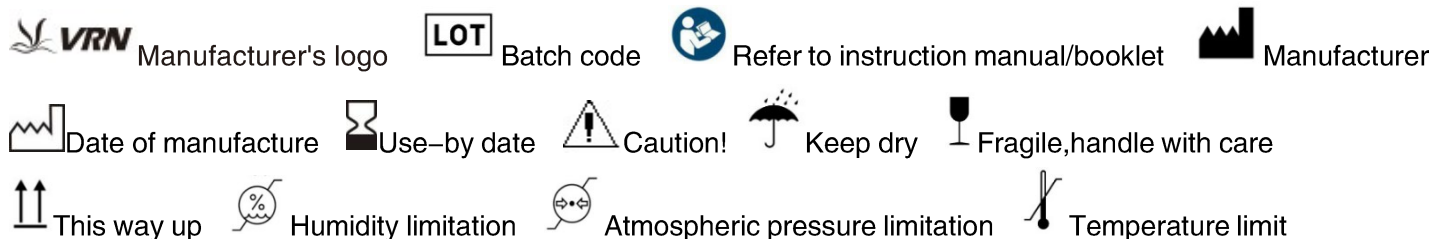
Damages due to non-adherence to the operating instructions or wear out of parts are excluded from warranty.

## 11. Service

11.1 Should you product need servicing and repairs, please contact us or dealer.


11.2 We decline responsibility for the safety of the device and declare the warranty null and void if service or repair is carried out by an unauthorized third party or if non-genuine spare parts are used.


## 12. Symbols



 <sub>0123</sub>CE marking

 Medical device

 Unique device identifier

 Do not roll

 Authorised Representative in the European Community

### 13. Product disposal

13.1 Product must not be discarded in domestic household waste.

13.2 If you wish to definitively dispose of the product, please comply with regulations which apply in your country.

### 14. Manufacturer information



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Instruction Version:

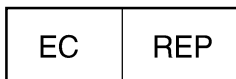
Rev.07/2018-C5

Date of compilation: 2022.12.13

Date of manufacture: see product label

Period of use: 5 years

Document No: DAP050000017



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