



Choice of Millions of Dentists Worldwide

270 patents worldwide; Exported to 137 countries

# WOODPECKER

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for more information



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2021 1.0 Edition

Since **1989**

**CATALOGUE**

**GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD.**



**National high-tech enterprise**  
**Choice of millions of dentists worldwide**

Owner & CEO  
Wu Xunxian



我是一个中国人，我会用我的一生  
做好一件事，一件能让外国尊重，能让中  
国人自豪的事。  
吴勋贤 2004.2.19

### Enterprise profile

#### Concentration

Since **1989**, Woodpecker has been concentrating on the R&D of dental products.  
**15** product categories, exported to **137** countries.

#### Innovation

**512** employees, **80%** are undergraduates, **90** R&D engineers.  
**249** national patents, **19** invention patents, **2** international patents.

#### Scale

**85225** m<sup>2</sup> existing manufacturing and research base;  
**130576** m<sup>2</sup> international dental industry base. **222** million RMB invested to  
build up full-automatic processing and testing center.



Aerial View of Company



Office Building



Library



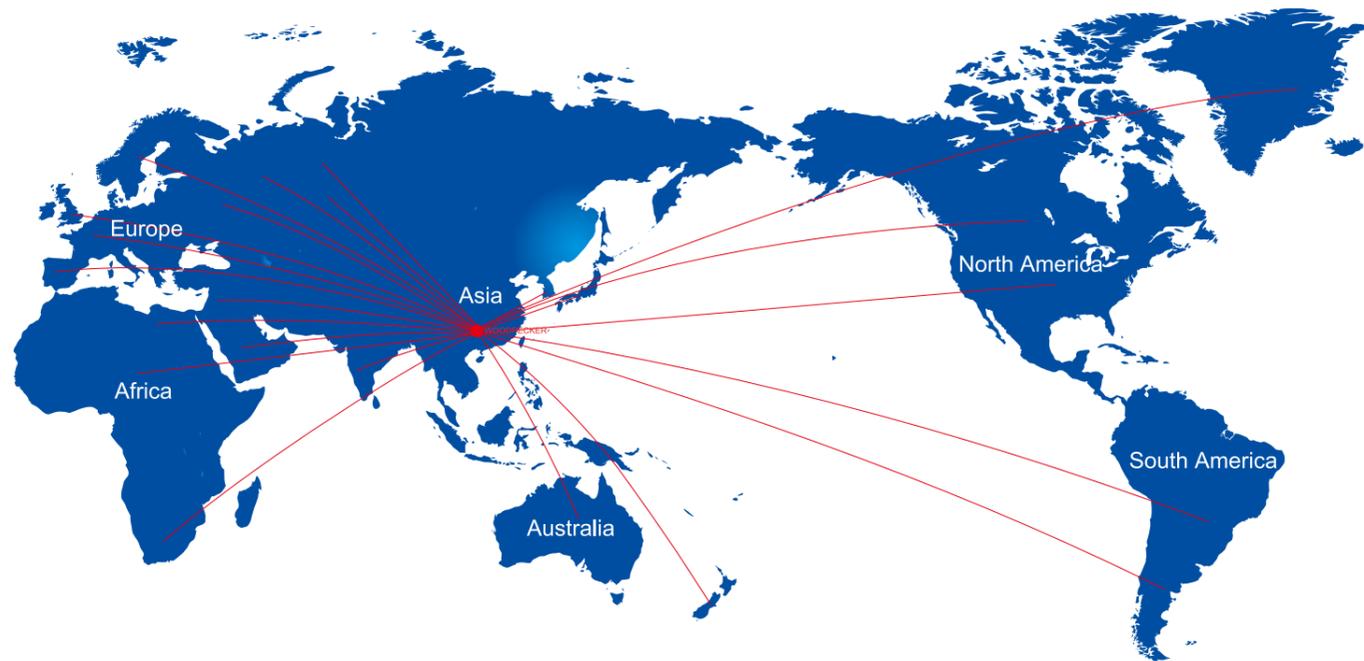
Lecture Hall



Show Room



Woodpecker products have been exported to 137 countries around the world



## 32 years' technical innovation

Made in China German quality

High-quality Durable Innovative

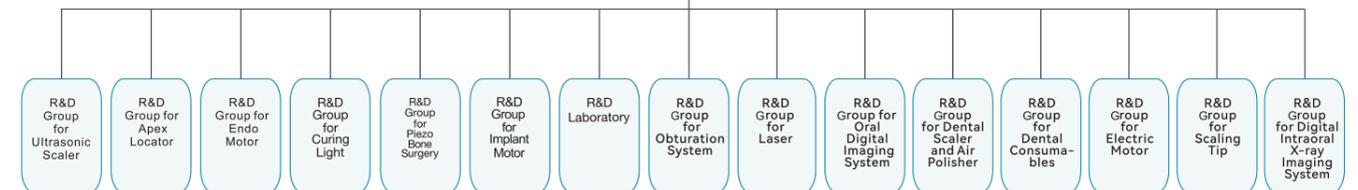
### Experienced R&D team in dental instrument industry

Constituted of 16 teams specializing on each products in Woodpecker. Woodpecker now has 91 professional engineers focusing on researching and development of new technique in dental industry. and our target is to satisfy our customers by producing innovative and safe products.

Professional R&D team for each product.

32 years' concentration and innovation in core technology research and development.

### Woodpecker R & D center's structure



### Advanced processing equipment in dental industry



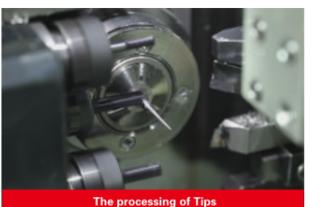
Image size measuring instrument



The processing of core parts in handpiece



The processing of high speed turbine handpiece



The processing of Tips

### All staffs of Woodpecker

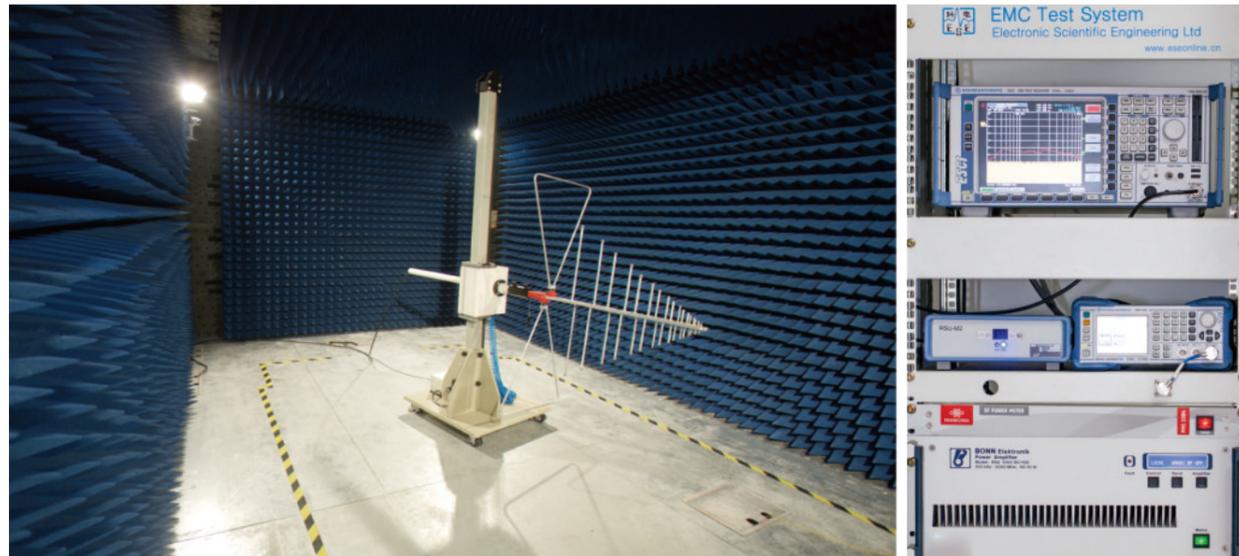
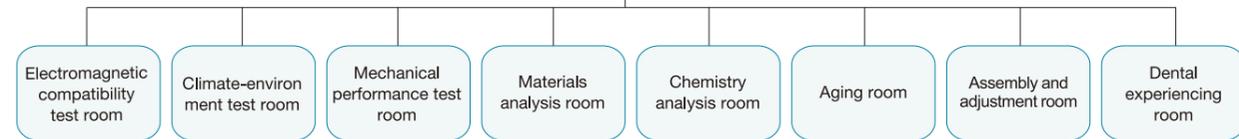


- Invest 21.3 million USD to the construction of CNC Center which occupies an area of 2300 m<sup>2</sup>. Automatic processing equipment is imported from Japan.
- The production of every core part is supported by equipment which costs more than a million yuan.

# Leading laboratory in dental industry

Occupy an area of 1280 m<sup>2</sup>.  
 Imported professional equipment from Germany, U.S.A, and Japan costs 5.7 million USD.

## Laboratory Center Structure



**EMC Tester system** The only EMC Test System in Chinese dental industry which costs 0.76 million USD



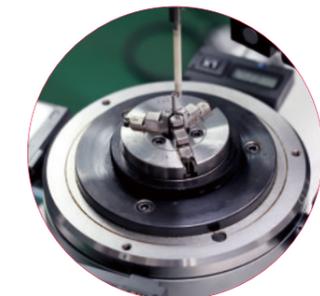
**Mechanical Environmental Laboratory** Simulate various extremely mechanical environments to ensure the quality of products.



**Climate Environmental Laboratory**  
 Simulate various extreme climate environments to ensure the quality of products.



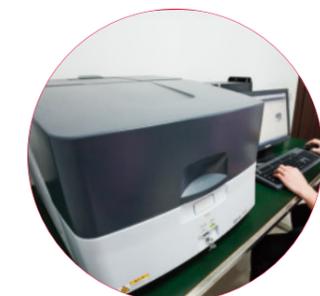
**Direct reading spectrometer**  
 Imported from Germany, to detect components of elements, improving quality of raw material



**Roundness measuring instrument**  
 Imported from Japan, high degree of accuracy(0.01um)



**Roughness detector**  
 Imported from Japan, to test the roughness of metal surface



**Energy dispersive X-ray fluorescence spectrometer**  
 To detect the harmful materials, according to the demand of EU standard



**Profile gauge**  
 Imported from Japan  
 For 3D measurement of precision parts



**Ultra Depth of Field 3D Microscopy System**  
 Imported from Japan, Super high magnification  
 For product analysis

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## How to check Authenticity



\*The new anti-forgery query system is only applicable to products produced since 11st, September, 2014.

## Harm of fake products

WOODPECKER and DTE are two brands of Guilin Woodpecker Medical Instrument Co., Ltd. Recently, there are many fake ultrasonic scaler handpieces, tips and curing lights are produced and sold into the market, which does harm to users' interest. On this issue, Woodpecker will crack down fake products and provide safe and secure medical instrument products.

### 1. Harm of fake ultrasonic scaler handpieces.

- 1.1 Fake handpieces with poor-designed inner structure can lead to frequent power leakage, which may cause medical accidents.
- 1.2 Material used on fake handpieces don't pass biocompatible test, which can easily lead to irritability and poisoning.
- 1.3 Fake handpieces have quality problems of overheating, non-vibration and cracking, which cause ultrasonic scalers out of order.
- 1.4 Fake handpieces can't be compatible with ultrasonic scalers, thus leading to circuit burn out.

### 2. Harm of fake scaler tips.

- 2.1 Fake tips are low in toughness, poor in resistance and easy to crack, thus easily cause medical accident.
- 2.2 Fake tips' screw threads are roughly processed, which can cause handpiece's screw loosening and cracking.
- 2.3 Material used on fake tips is inferior and easily rusting, which can cause infection of patient.
- 2.4 Fake tips have problem of poor water-spraying, bad screw-thread fit and water leaking, which leads ultrasonic scalers work wrongly.

### 3. Harm of fake curing light.

- 3.1 Fake curing light's batteries can cause self-ignite, even explosion with poor-quality material and no complete charging management
- 3.2 Light intensity of fake curing light is not constant, when battery level goes down under 60%, it would lead to incomplete solidification of resin, causing secondary dental caries.

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New Arrivals

Air Polishing System

Ultrasonic Scaler

Apex Locator

Endo Motor

Obturation System

Curing light

Laser

Tips

Piezo Bone Surgery

Electric motor

Dental Implant Unit

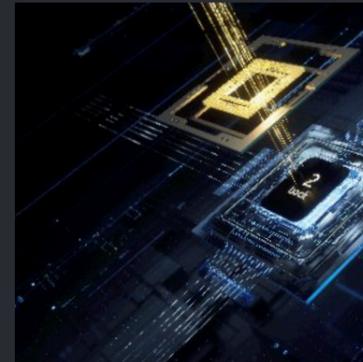
# i-Scan

Wireless Image Plate Scanner



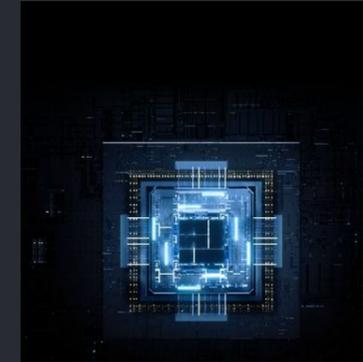
## Powerful processing capability

8-core CPU (containing 4 Arm Cortex-A53s, 1 Arm Cortex-M4F, 1 GPU, 1 VPU, and 1 FPU) developed with 14nm LPC FinFET advanced process technology, and FPGA used as a coprocessor, bring a smoother image processing experience thanks to more powerful processing capability.



## Powerful algorithm

One-click ultra-clear algorithm  
Multi-level structure image algorithm framework enhances the details of super-resolution images.



## Ultra-high performance

8-core CPU developed with 14nm advanced LPC FinFET process technology  
FPGA used as a coprocessor  
Over 100 million data acquired per dental film  
Bring a smoother image processing experience



## Super screen

7-inch 800\*1280 ultra-high resolution capacitive touch screen  
Realize the analysis of images with clear details on the i-Scan and computer, ensuring the reliable diagnosis basis for dentists.

## Powerful software

One-click installation, easy operation and all-round function  
Professional and accurate image processing and intelligent image optimization  
Support for multiple languages



## Flexible and compact

Covering only 0.13 m<sup>2</sup>, the powerful, full-featured and compactly-designed i-Scan can be set up in dental clinics efficiently, easy for direct use beside the chair.



## Ultra-thin and flexible plate

Imported ultra-thin imaging plate can be reused more than 1000 times. The imaging plate is only 0.4mm in thickness, softer than conventional films. A total of 4 size (0-3) intraoral imaging plates can be used on i-Scan, allowing the photographing of various tooth positions.



## Scan and see

One-click starting, scanning and imaging viewing  
Chairside mode eliminates the restraint of computer or internet  
Capacitive touch screen enables accurate and sensitive image processing and data management



# K-Po

Woodpecker brings you a comfortable treatment experience, farewell to the traditional polishing mode.

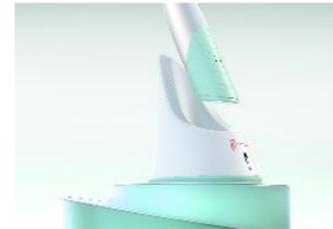
- Wireless handpiece
- Dual-control design
- Cost-effective
- Large-capacity lithium battery



Disposable prophy angle prevents cross-infection  
Detachable and autoclavable outer sheath offers effective protection for motor handpiece



Dual control design enables easy operation  
Wireless charging



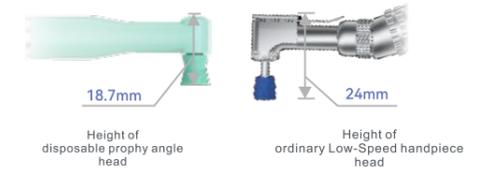
**Handpiece Control**  
Button control, Stable speed  
6 gears optional:  
500rpm 1000rpm 1500rpm  
2000rpm 3000rpm 4000rpm

**Foot pedal Control**  
Non-gear shift control mode  
Speed range: 0 - 4000rpm  
The speed will increase according to the depth of the pedal depressed

750mAh large capacity lithium battery  
5h continuous working  
A full charge can be used for at least 60 treatments

Noiseless high-quality motor

Small head brings greater comfort



Slim handpiece with anti-slip design



18mm diameter  
Fish scale soft rubber design guarantees non-slip grip.

- ① Prophy Angle Cup - Soft**  
Used for polishing tooth surface, preventing staining, perfecting and repairing tooth enamel
- ② Prophy Angle Cup - Hard**  
Used for polishing and cleaning teeth surface, bringing comfortable experience without harm to teeth, effectively removing biofilm and pigment
- ③ Prophy Angle Cone**  
Used for gingival nipple massage and adjacent surface polishing
- ④ Prophy Angle Brush - Flat**  
Used to remove common stains on the tooth surface
- ⑤ Prophy Angle Brush - Sharp**  
Used to remove common stains on adjacent surfaces of teeth

# Ai-Pex



## THE MAIN TECHNICAL SPECIFICATIONS

Working time: 5h20min

Charging time: 3h

Battery: 3.7V/2000mAh

Input: ~100V-240V 50Hz/60Hz 0.4A

Consumption power: ≤0.5W

Screen: 3.8-inch LCD screen

File clip×4 (Coated with biological silica gel)

Lip hook×5 (Made of medical-grade stainless steel)

Apex locator probe×2

Pulp vitality probe×2

**CONSTANT CURRENT ENABLES  
MORE ACCURATE MEASUREMENT**

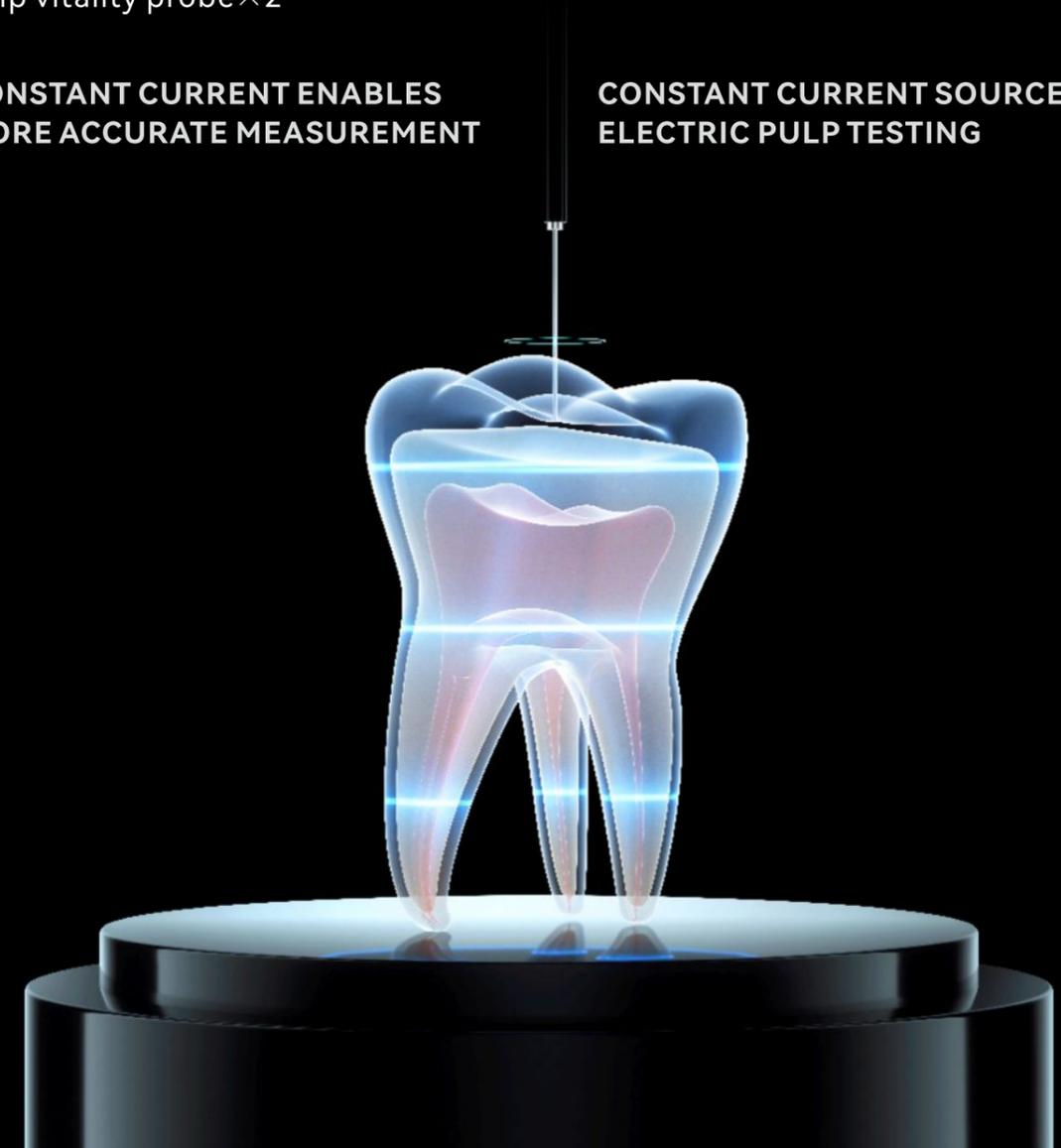
## OPERATION CONDITION

Environment temperature: +5°C~+40°C

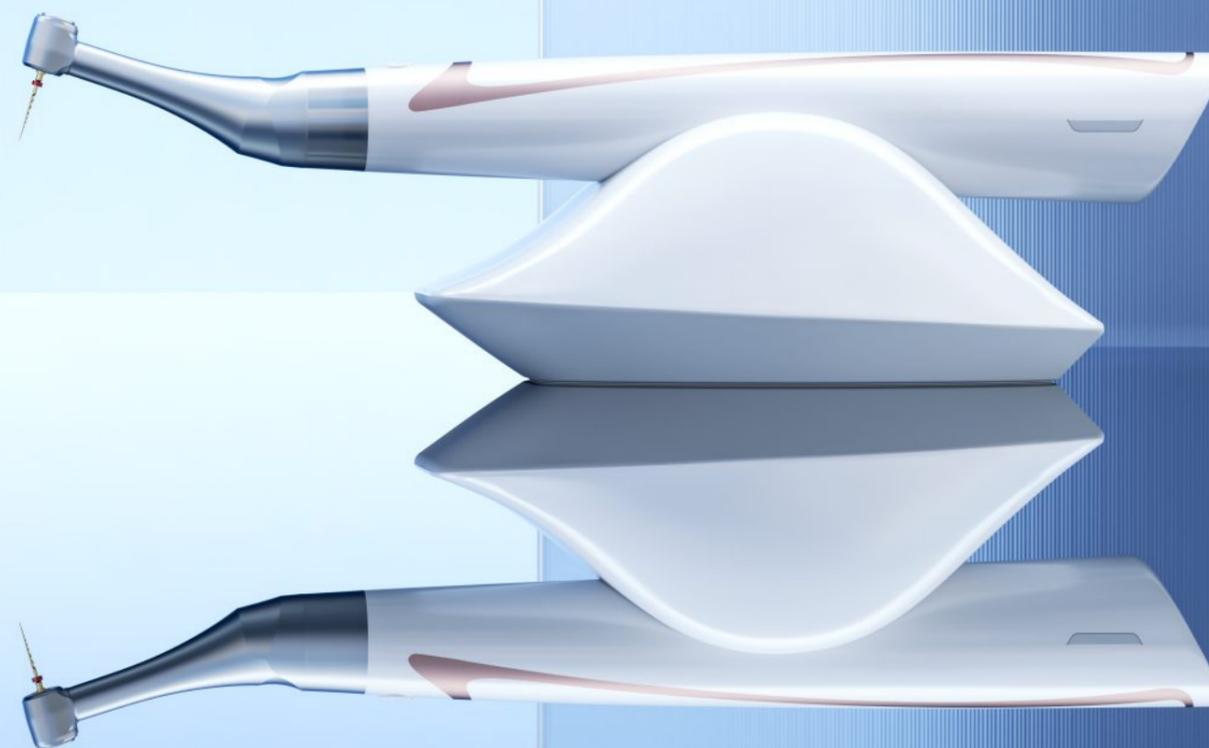
Relative humidity: 30%~75%

Atmosphere pressure: 70kPa~106kPa

**CONSTANT CURRENT SOURCE  
ELECTRIC PULP TESTING**



# Smart A



## *i-Sensor*

Clearer & More durable



Type	i-Sensor H1	i-Sensor H2
<b>Mechanical Size</b>	25.0*36.8*4.4	30.4*41.9*4.4
<b>Detector Technology</b>	APS CMOS	APS CMOS
<b>Scintillator</b>	CsI	CsI
<b>Pixel Matrix</b>	1000*1500	1300*1800
<b>Theoretical Resolution</b>	25lp/mm	25lp/mm
<b>True Resolution</b>	20lp/mm	20lp/mm
<b>Active Area</b>	20*30	36*36
<b>AD Conversion(bit)</b>	16	16
<b>Data Interface</b>	USB 2.0	USB 2.0
<b>Protection</b>	IP68	IP68

# Ai-Motor

Woodpecker Brushless Endo Motor  
 REDSIGNED FOR EXPERTS

Dr. Yoshi Terauchi

Customized  
 reciprocating angle

Integrated  
 apex locator mode  
 delivers  
 safety protection

High performance  
 brushless motor

Safe ledge bypassing

Mini  
 contra-angle

Stable operation  
 enables efficient  
 preparation



*Yoshi Terauchi*

# Endo 1

Ultrasonic Endo Activator

Autoclavable  
 handpiece head

Detachable handpiece head

Can be autoclaved under high  
 temperature of 134°C and high  
 pressure of 0.22Mpa

Prevent cross infection  
 and enable safer treatment



**E93 (Anti-breakage)**

Unique root breakpoint  
 design enables safer  
 separation of devices



**E96 (Bendable)**

Can be pre-bent slightly  
 according to the root canal  
 shape



**E98 (High-power)**

The super ultrasonic  
 conduction effect of  
 Ni-Ti makes the irrigation  
 effect stronger

# PT-A<sup>TM</sup>

## Dental Scaler and Air Polisher

35 National Patents 5 Invention Patents

Air polishing+ Ultrasonic periodontal treatment +

Endodontic treatment + Implant maintenance

Efficient and comfortable plaque removal



### Plaque Control

Small-caliber nozzle, more concentrated air polishing, and more efficient plaque removal  
High concentricity of water and air path achieves a good coating of powder by water and reduces the flying of powder.



### Three-section Air polishing Handpiece, easier for cleaning

Lightweight handpiece  
Longer service life



**SUPER PRO**  
65µm erythritol supragingival powder

Used for removal of biofilm, pigment and soft dirt on the adult supragingival, providing more comfortable treatment coupled with efficient scaling.



**FAST**  
65µm sodium bicarbonate supragingival powder

Used for rapid removal of stubborn pigment, soft dirt and biofilm on the adult gingival



**GENTLE MINI**  
25µm glycine subgingival powder

25µm glycine is gentle and non-invasive to the soft tissue in the periodontal pocket, and to the gingival, upper jaw as well as dental tissue surface, can be used for maintenance of pediatric teeth, women's teeth, orthodontics, restorations, periodontal and implants.



# Modern scaling solutions Realize both supragingival and subgingival scaling



Small-caliber nozzle,  
more concentrated air  
polishing



Anti-blocking system  
reduces blocking



Air polishing + Perio + Endo +  
Implant maintenance



Large screen smart touch control



Small-caliber nozzle



Automatic identification of scaling mode



Multi-function foot pedal



# PT3 main specifications:

Frequency: 28000Hz	Tips hardness: 30HRC
Vibration amplitude: 20~60um	Treatment depth: 14mm

## PAINLESS PERIODONTAL TREATMENT DEVICE

### Treatment effect:



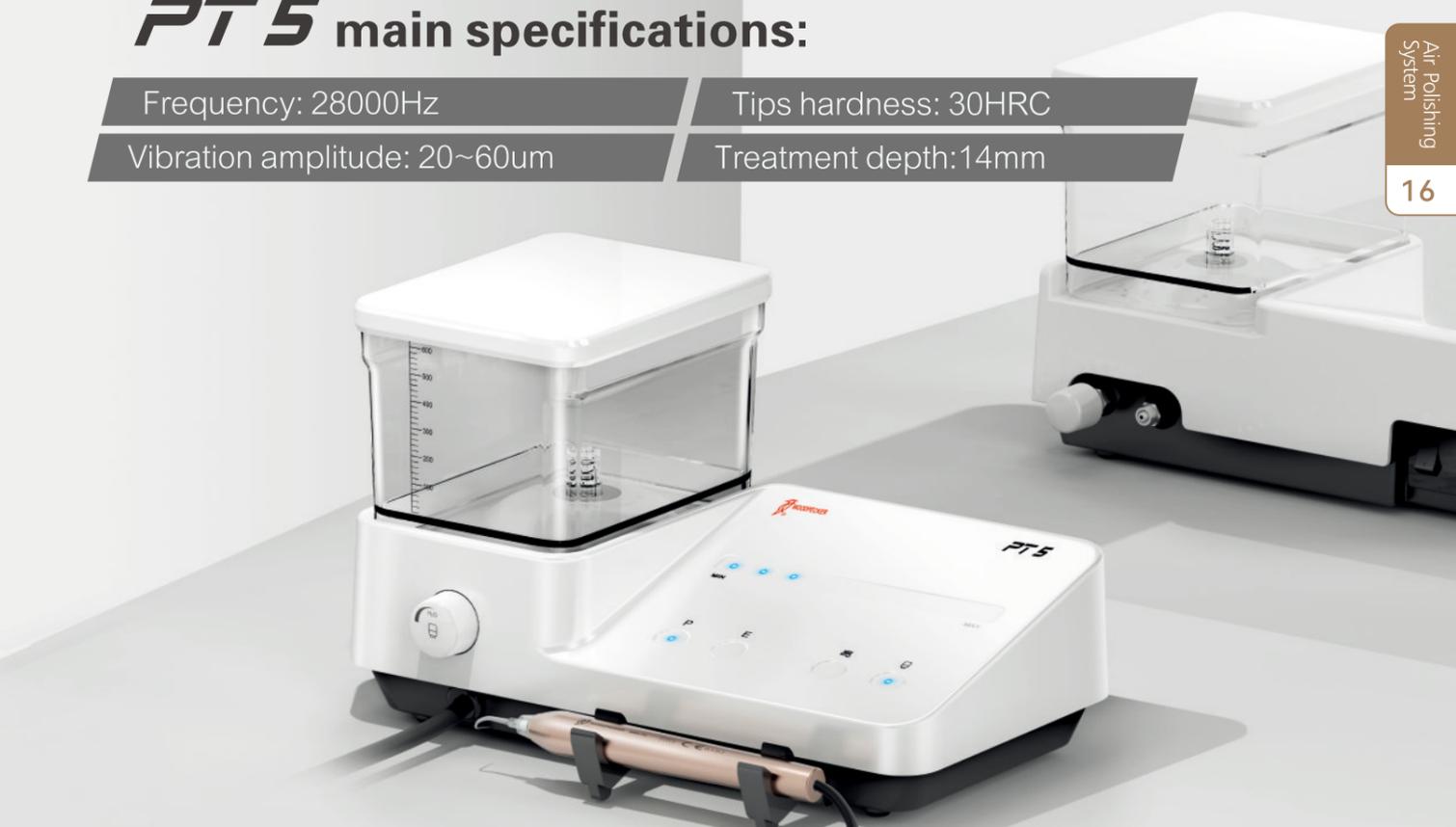
### Implant maintenance P90

Implant cleaning and maintenance



# PT5 main specifications:

Frequency: 28000Hz	Tips hardness: 30HRC
Vibration amplitude: 20~60um	Treatment depth: 14mm



## Root canal treatment



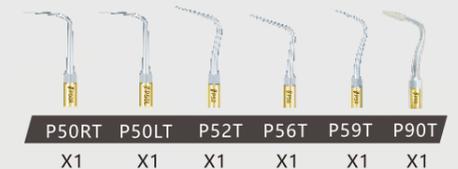
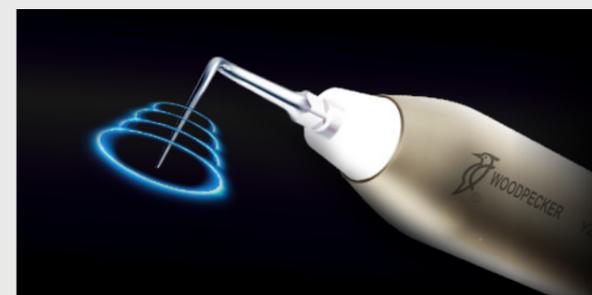
### ENDO SCALING FAST & COMPLETE



After scaling, there is no smear layer on root canal surface, only a few amount of debris left.

<p>Endo scaling (E51 E52)</p>	<p>For removing the calcification and bad fillings in root canal (E3D)</p>	<p>For removing the calcification in the coronal third of the root canal (P4D)</p>	<p>Looking for root canal orifice (E12D)</p> <p>Diamond-coated, ball head, for looking for root canal orifice with security, accuracy and efficiency</p>	<p>Root canal retreatment, removing foreign body (E6 E7 E14 E15)</p> <p>Special material (E6, E7), extremely thin and soft, good conductivity to ultrasound</p>
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Elliptical vibration track endows polishing function.



Woodpecker reserves the rights to change the tips configuration without further notice.

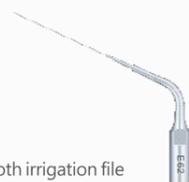
## E60

One-piece irrigation K-file



## E62

One-piece smooth irrigation file



## E3

Using ultrasonic melt to press gutta-percha for lateral pressure, used in E mode without water.



## E3D

Diamond-coated(40µm) instrument for removing calcification and bad filling material in root canal, used in E mode.



## E6

Special material

Thin and flexible, used for removing foreign body in deep canal.



## E7

Special material

Thin and flexible, used for removing foreign body in 1/3 canal.



## P4D

Diamond coated(40µm), used to remove the calcification in the coronal third of the root canal and used in E mode.



## P50L

Used for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: labial proximal surface of upper front teeth, lingual proximal surface of upper front teeth, buccal interproximal in B quadrant, and lingual interproximal in C quadrant



## P50R

Used for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: labial proximal surface of upper front teeth, lingual proximal surface of upper front teeth, lingual interproxima in B quadrant



## P52

Used for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: lingual and lip side of front teeth and lower front teeth, buccal side in A quadrant and maxillofacial side in B quadrant



## P53L

Used for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: labial proximal surface of upper front teeth, lingual proximal surface of upper front teeth, buccal interproximal in B quadrant, and lingual interproximal in C quadrant



## P53R

Used for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: labial proximal surface of upper front teeth, lingual proximal surface of upper front teeth, lingual interproximal in B quadrant



## P56

Use for removing big calculus, no hurt to gum when scaling in the gingival margin  
Applicable areas: lingual and lip side of front teeth and lower front teeth, buccal side in A quadrant and maxillofacial side in B quadrant



## P59

Use for subgingival scaling, periodontal pocket probing and root planing  
Applicable areas: lingual and lip side of front teeth and lower front teeth, buccal side in A quadrant and maxillofacial side in B quadrant



## P95

Implant cleaning and maintenance  
During operation, ensure that water reaches tip end, and the power level should be lower than level 7, or the tip is easy to break.



# SPOILING YOU SO MUCH !



# U600 Ultrasonic Scaler

Intelligent power output Experience painless treatment



Supragingival scaling Subgingival scaling Endodontic irrigation



## Endodontic irrigation



After ultrasonic irrigation, there is no smear layer on surface but a few amount of dentin debris in the root canal.

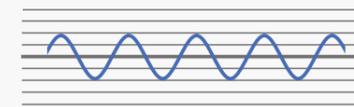
Root canal irrigation is the most widely used clinical support methods. Its purpose is to remove the substance inside root canal, dissolve diseased tissue, remove pathogenic microorganisms, and remove smear layer. Lubricate the root canal internal wall. During root canal preparation process, prevent the infectious substance from being pushed to the deep part or out of the apical foramen, reducing the risk of instrument fracture in root canal.

Compared with the traditional syringe irrigation, ultrasonic irrigation can better remove bacteria, dentin debris, and smear layer in root canal. And it can well clean special structures such as the lateral branch canal and root canal narrow area. Currently, ultrasonic irrigation is widely used in endodontic therapy in order to receive a better root canal preparation effect.

## Sine wave drive

Avoid pain caused by power surge; ensuring comfortable treatment.

U600 Mild power output



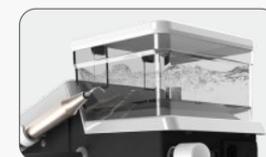
## Intelligent touching system

Clear control panel  
Ultra-sensitive  
Waterproof design



## Automatic water supply system

Easy to change water, eliminating redundant steps  
Hydrogen peroxide, sodium hypochlorite, and chlorhexidine is available  
Clear 50ml scale mark makes it convenient for formulating liquid



## Detachable handpiece with light

Detachable handpiece with light  
Detachable handpiece with light enables better visibility and adopts new sealing technique, bringing patients comfortable scaling.

U600 Ultrasonic Scaler is equipped with various shapes of tips, including slender tip which is specially used to perform subgingival scaling. Operators can choose tip according to the size and position of dental calculus. While tip starts to vibrating, the water spraying system should spray water to tip to form water spray at the same time.

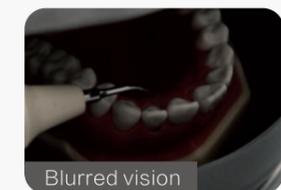
On the one hand, it can cool the tip. On the other hand, it will help form cavitation effect, that is, subtle vacuum bubble quickly collapses and produces energy to scour the calculus, plaque and the broken tartar and blood.

## High-quality handpiece

Aluminum shell can be autoclaved, causing no cracking or deformation  
Advanced handpiece sealing technique enables long durability  
User-friendly design brings better holding feeling



Clear vision  
U600 LED with light



Blurred vision  
Without light

### > Standard configuration tips

G4 G12 P1 P3  
P8 E62 E60

### > High configuration tips (two in each tip below)

G4 G12 P1 P3  
P8 E62 E60

Woodpecker reserves the rights to change the tips configuration without further notice.

### E60

One-piece irrigation K-file



### E62

One-piece smooth irrigation file



### E3

Using ultrasonic melt to press gutta-percha for lateral pressure, used in E mode without water.



### E6

SPECIAL MATERIAL

Thin and flexible, used for removing foreign body in deep canal.



### E7

SPECIAL MATERIAL

Thin and flexible, used for removing foreign body in 1/3 canal.



### E3D

Diamond-coated(40µm) instrument for removing calcification and bad filling material in root canal.



### P4D

Diamond coated(40µm), used for removing the calcification in the coronal third of the root canal and used in E mode.



### G4

The Universal gingival tip for removing Supragingival calculus and plaque .



### G5

Used for supragingival scaling with smooth vibration and low noise



### G6

Used for removing supragingival calculus and plaque chunks, can use directly tip in small power, with a smooth vibration and low noise characteristics.



### G30

Diamond-coated(40µm) ,used for preparation between pits and fissures.



### G31

Diamond-coated(40µm), used for preparation of mesiooclusion cavity and does not damage adjacent teeth.



### G32

Diamond-coated(40µm), used for preparation of distal mesial cavity and does not damage adjacent teeth.



### G33

Diamond-coated(40µm),used for preparation to dental veneer.



### SB2

Diamond-coated(40µm), used with G31. After the mesiooclusion cavity is completed with G31 , used for the cavity inside and outside which is hard to reach the outer area of preparation and polishing.



### SB3

Diamond-coated(40µm), used with G32. After the distal mesial cavity is completed with G32 , used for the cavity inside and outside which is hard to reach the outer area of preparation and polishing.



### P1

The universal subgingival tip for periodontal pocket within 4mm and adjacent surface scaling.



### P3

Diamond-coated(40µm), used with G32. After the distal mesial cavity is completed with G32 , used for the cavity inside and outside which hard to reach the outer area of preparation and polishing.



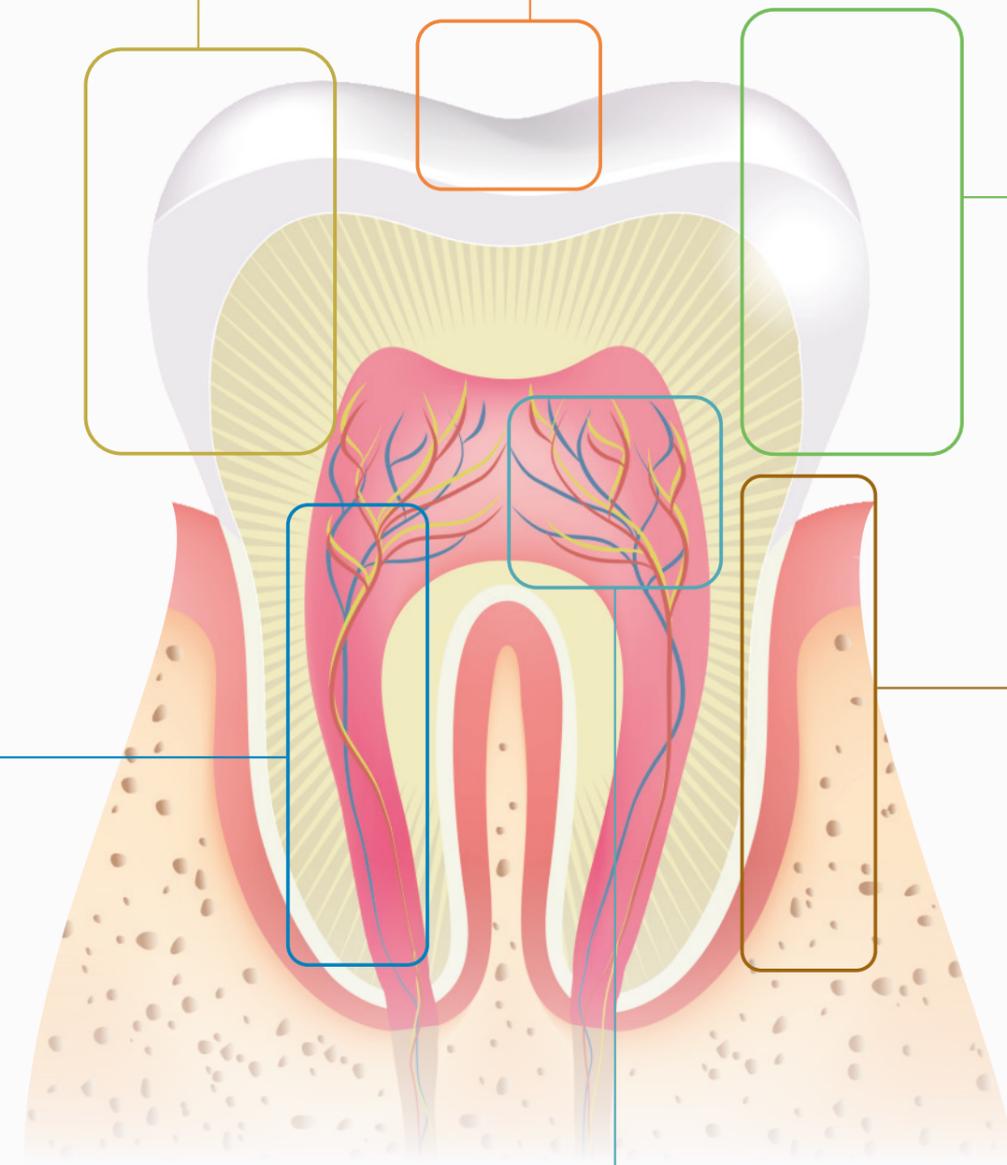
### P4

Efficient removal of subgingival calculus within 2mm



### P3D

Diamond-coated(40µm), used for expanding furcation and root surface polishing in flap surgery .



## UDS-E LED

- Scaling
- Perio
- Endo
- Handpiece with LED
- Auto-water supply

Use of anti-rot material in internal water system enables use of clinical solutions such as hydrogen peroxide, sodium hypochlorite, and chlorhexidine, improving the effect of periodontal treatment and endodontic irrigation dramatically. Detachable handpiece enables better visibility and adopts new sealing technique, bringing patients comfortable scaling. Automatic degenerative feedback and constant power output brings rather comfortable scaling.

Voltage input: ~220V 50HZ  
 Main unit weight: 1.17kg  
 Main unit input: ~24V 50HZ 1.3A  
 Transformer weight: 1.0kg  
 Output power: 38VA  
 Frequency: 28kHz ± 3KHz  
 Dimensions: 234mmX193mmX109mm



### Endodontic irrigation



## UDS-K LED

- Scaling
- Perio
- Handpiece with LED

Detachable handpiece with light enables better visibility. Microcomputer control, automatic frequency tracking, Automatic degenerative feedback and constant power output brings rather comfortable scaling.

Voltage input: ~220V 50HZ  
 Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
 Main unit input: ~24V 50HZ 1.3A  
 Main unit weight: 0.75kg  
 Output power: 38UA  
 Transformer weight: 1.0kg  
 Frequency: 28kHz ± 3KHz  
 Dimensions: 170mmX111mmX65mm



## UDS-J

- Scaling
- Perio

Sealed handpiece. Automatic degenerative feedback and constant power output brings rather comfortable scaling.

Voltage input: ~220V 50HZ  
 Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
 Main unit input: ~24V 50HZ 1.3A  
 Main unit weight: 0.80kg  
 Output power: 38VA  
 Transformer weight: 1.0kg  
 Frequency: 30kHz ± 3KHz  
 Dimensions: 205mmX135mmX74mm

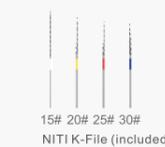


## UDS-P LED

- Scaling
- Perio
- Endo
- Handpiece with LED

Detachable handpiece with light enables better visibility. Automatic degenerative feedback and constant power output brings rather comfortable scaling.

Voltage input: ~220V 50HZ  
 Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
 Main unit input: ~24V 50HZ 1.3A  
 Main unit weight: 0.68kg  
 Output power: 38VA  
 Transformer weight: 1.0kg  
 Frequency: 28kHz ± 3KHz  
 Dimensions: 178mmX145mmX89mm



### UDS-B

- Scaling
- Perio



Sealed handpiece  
Automatic degenerative feedback and constant power output brings rather comfortable scaling.  
Voltage input: ~220V 50HZ  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Main unit input: ~24V 50HZ 1.3A  
Main unit weight: 0.62kg  
Output power: 38VA  
Transformer weight: 1.0kg  
Frequency: 30kHz ± 3KHz  
Dimensions: 192mmX128mmX78mm

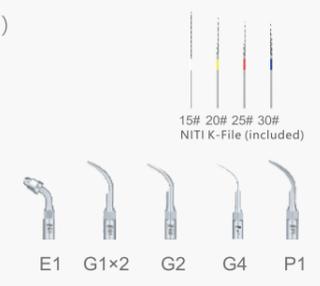


### UDS-L LED

- Scaling
- Perio
- Endo
- Handpiece with LED
- Auto-water supply



Automatic water supply system brings more convenient operation. (Optional)  
Detachable handpiece with light enables better visibility. Automatic degenerative feedback and constant power output brings more comfortable scaling.  
Voltage input: ~220V 50HZ  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Main unit input: ~24V 50HZ 1.3A  
Main unit weight: 0.73kg  
Output power: 38VA  
Transformer weight: 1.0kg  
Frequency: 28kHz ± 3KHz  
Dimensions: 190mmX125mmX60mm



### UDS-J2 LED

- Scaling
- Perio
- Handpiece with LED



Sealed handpiece with light enables better visibility.  
The handpiece sleeve can be autoclaved, avoiding cross-infection.  
Three optional colors of handpiece sleeve: green, blue, and purple.  
Build-in power supply.  
Automatic degenerative feedback and constant power output brings rather comfortable scaling.  
Voltage input: ~220V 50HZ  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Output power: 38VA  
Transformer weight: 1.7kg  
Frequency: 28kHz ± 3KHz  
Dimensions: 190mmX125mmX60mm



### UDS-N3 LED

Special design for comprehensive dental chairs  
Detachable handpiece with light  
Integrate scaling, Endo, and Perio function into a whole.  
Microcomputer control and automatic frequency tracking  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Main unit input: ~24V 50HZ  
Main unit weight: 0.2kg  
Output power: 38VA  
Frequency: 28kHz ± 3KHz  
Dimensions: 74mmX56mmX38mm



### UDS-N3 LED

Match detachable handpiece HW-5L

### UDS-N3

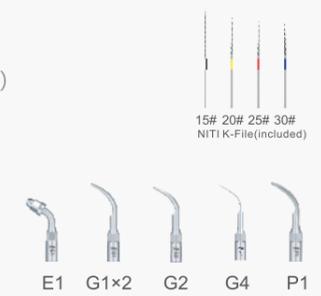
Match detachable handpiece HW - 3H

### UDS-A LED

- Scaling
- Perio
- Endo
- Handpiece with LED



Detachable handpiece with light enables better visibility.  
Automatic degenerative feedback and constant power output brings rather comfortable scaling.  
Voltage input: ~220V 50HZ  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Main unit input: ~24V 50HZ 1.3A  
Main unit weight: 0.64kg  
Output power: 38VA  
Transformer weight: 1.0kg  
Frequency: 28kHz ± 3KHz  
Dimensions: 196mmX134mmX80mm



### UDS-N1

Sealed handpiece;  
Microcomputer control and automatic frequency tracking  
Automatic degenerative feedback and constant power output brings rather comfortable scaling.  
Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
Main unit input: ~24V 50HZ  
Main unit weight: 0.2kg  
Output power: 38VA  
Frequency: 28kHz ± 3KHz  
Dimensions: 74mmX56mmX38mm



### UDS-N1

Match detachable handpiece HW - 1

# U6

## New Era for Scaling

Expert in comfortable scaling

Comfortable Scaling  
 Integrate supragingival scaling, subgingival scaling, and endodontic treatment into a whole  
 Microcomputer control and automatic frequency tracking enable more stable performance  
 Intelligent degenerative system enhances professional operation  
 Smart touching system makes it easier to operate



Main unit input: ~24v 50hz  
 Water pressure: 0.01MPa-0.5MPa  
 Frequency: 28KHZ+ 3KHZ  
 Main unit weight: 650g  
 Dimensions: 197mmx174mmx74mm



G4 X2 P1 X1 P3 X1 P8 X1 E62 X2

Woodpecker reserves the rights to change the tips configuration without further notice.

## UDS-N2 LED

Detachable handpiece with light  
 Microcomputer control and automatic frequency tracking  
 Automatic degenerative feedback and constant power output brings rather comfortable scaling.  
 Water pressure: 0.1bar~5bar(0.01MPa~0.5MPa)  
 Main unit input: ~24V 50HZ  
 Main unit weight: 0.2kg  
 Output power: 38VA  
 Frequency: 28kHz ± 3KHz  
 Dimensions: 74mmX56mmX38mm



G1x2 G2 G4 P1

### UDS-N2 LED

Match detachable handpiece HW-5L

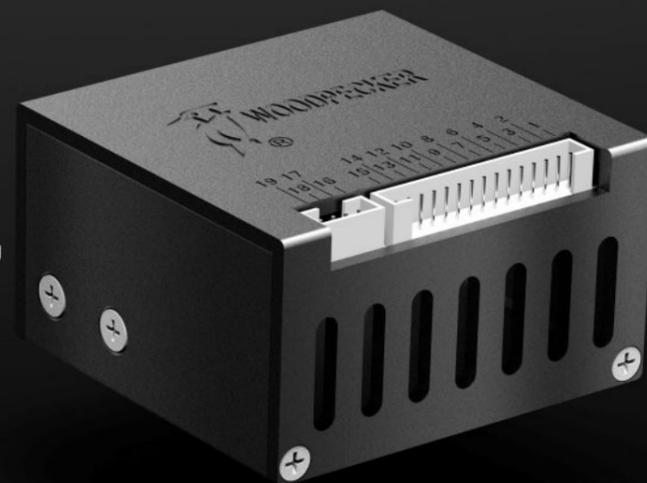
### UDS-N2

Match detachable handpiece HW - 3H

## N6 Comfortable Teeth Scaling

Supragingival & Subgingival scaling  
 Optional Endo function  
 Detachable metal handpiece prevents crack  
 Microcomputer control, automatic frequency tracking  
 30% smaller than the volume of N2, occupying less space of tray in dental chair

Main unit input: ~24V50HZ  
 Main unit weight: 0.13kg  
 Output power: 38VA  
 Frequency: 28KHZ±3KHZ  
 Dimensions: 59mm × 57mm × 33mm

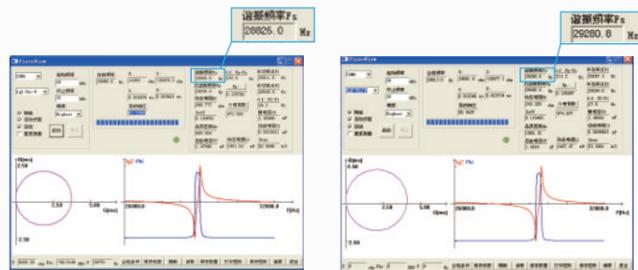


G4 G5 G12 P3 P8 E62 x2 Optional Endo function



### Compatibility of tip

The working frequency range of Swiss E brand: < 32000Hz



Woodpecker tip can perfectly match E brand scaler

### Compatibility of handpiece

Woodpecker: Resonant frequency 29.263KHz E brand: Resonant frequency 29.263KHz

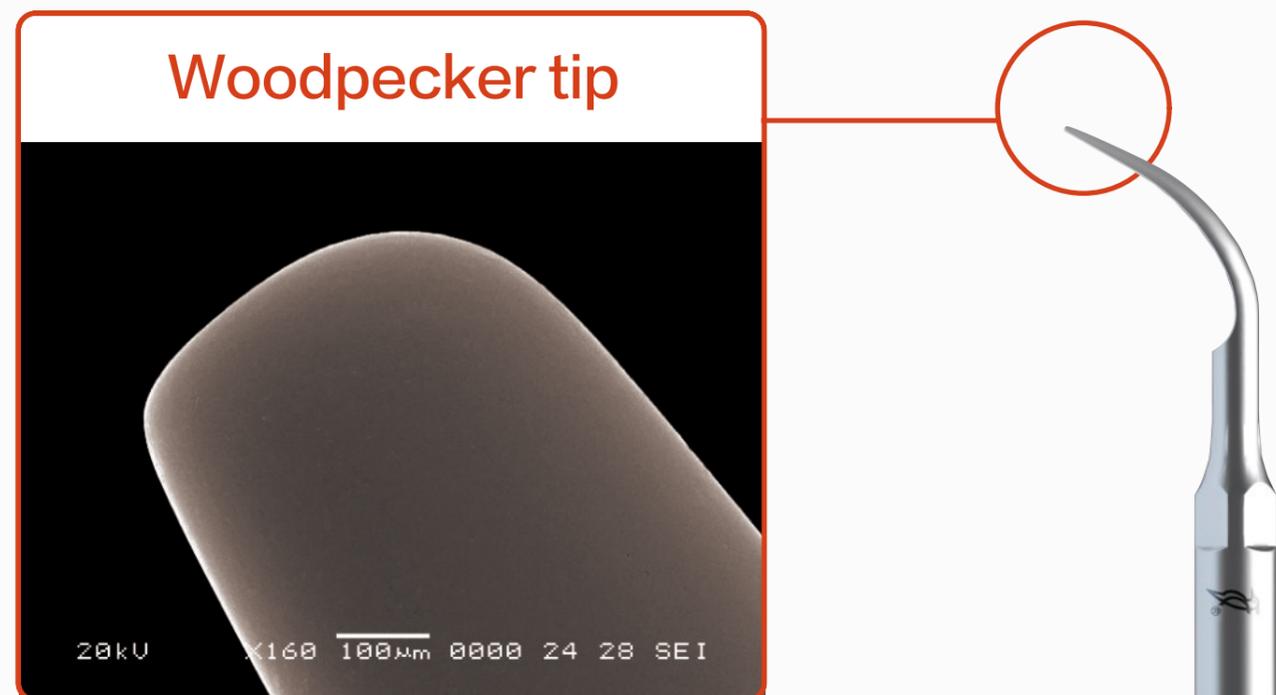


Technical data of Woodpecker handpiece is the same as that of E brand. Handpiece of both brands can be exchanged.

### Smooth tip does no harm to teeth.

Select high-quality medical material which is durable and wear-resistant.  
Adopt advanced laser drilling technology and experience 35 strict production processes as well as 5 inspections.

The picture shows the image of tips after a 160 times magnification.



## APEX LOCATOR WOODPEX V

17 National Patents 5 Invention Patents



### Apex locating and preparation Two-in-one

Be able to connect compatible Endo Motor to realize real-time data transmission. Simultaneously realize apex locating and root canal preparation.



Endo Smart +

New Generation More than accurate

# Woodpex V

More stable, stronger anti-interference ability

25 National Patents 8 Invention Patents



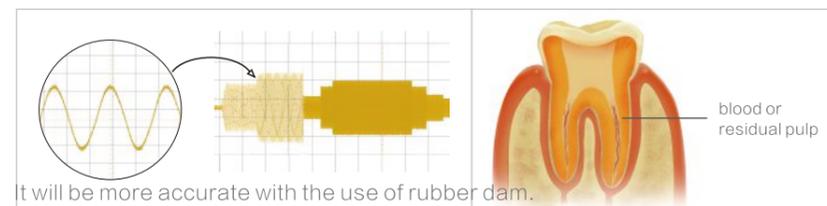
More than accurate



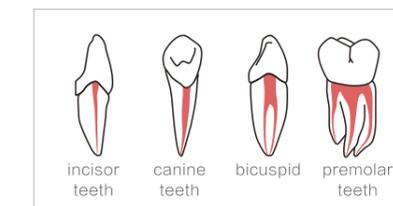
Newly upgraded algorithm makes it more stable and enables stronger anti-interference ability.



Multi-frequency apical position technology guarantees accurate measuring even there is blood or residual pulp in the root canal.



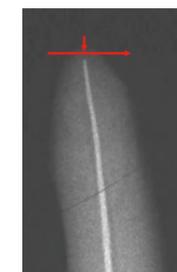
Measurement results will not be affected by the tooth type.



## The defect of traditional measurement method

### Disadvantage of handing method

Based on hand feeling and patient's pain, dentists decide whether the measuring tool reaches apical foramen, with high subjectivity and low accuracy. Foreign literature suggest that providing the range of error  $\pm 0.5$  mm, accuracy of handing method is only 42%.



X ray film shows under-filling

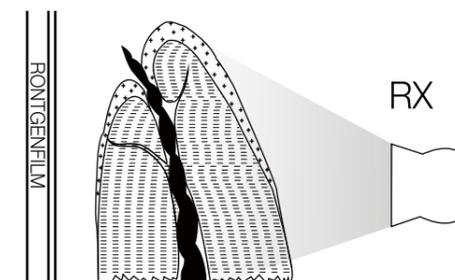


Actually it is over-filling

### Disadvantage of X ray film

3D structure shooting at 2D plana, because of different angles, easily getting wrong data.

Apical foramen can't be shown in the X ray film, for over 80% apical foramens are in the side edge instead of apex.



The apical foramen is in the side edge, X ray shooting cause error length, the greater error, more serious over-filling

# 1<sup>st</sup> Brushless ENDO MOTOR

## Ai-Motor

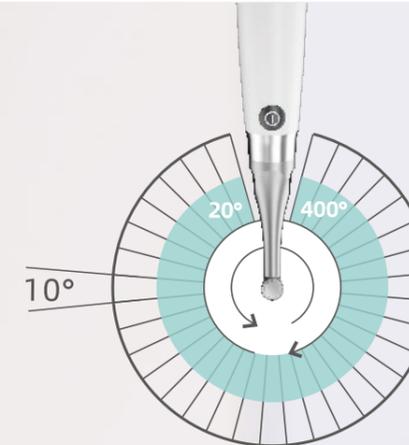
*Super mini head & Slim neck*  
*Stronger power*  
*Precise rotation*  
*Lower noise*  
*Balanced Weight*



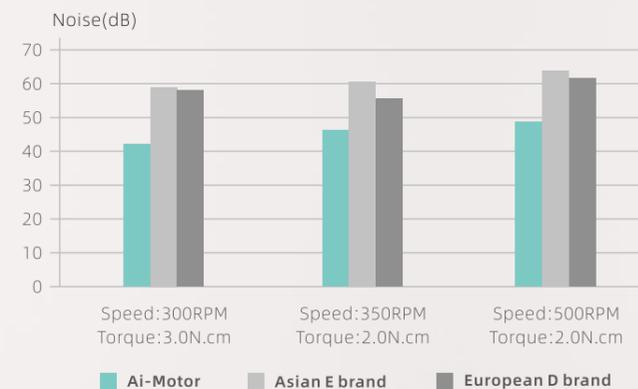
Speed range : 100-1200 RPM  
 Torque range : 0.4-5.0N.cm  
 Reciprocating angle adjustment range : 20°-400°

### High performance brushless motor

Adjustable reciprocating angle  
 (10°interval; adjustment range: 20°- 400°);  
 Accurate rotating angle reduces risk of instrument fracture and enables higher preparing efficiency.

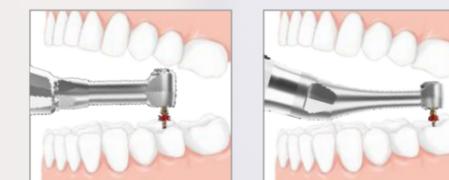


Smooth rotation and lower noise make treatment more endurable for patients.



### Super Mini Contra-angle

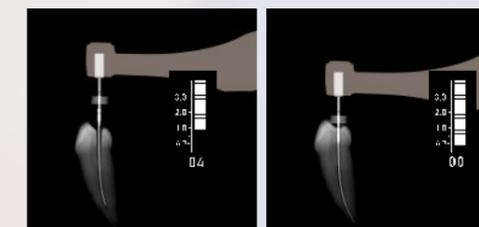
Super mini head, with a diameter of 8mm and a height of 9.7mm, brings clear vision during operation.



Normal contra angle head & neck | Woodpecker contra angle Super Mini head & slim neck

### Built-in Apex locator

Integrated length determination makes endodontic treatment safer and more efficient. Realize real-time display of file location in canal. Automatically stops or reversely rotates as soon as the file reaches the apical stop, so as to prevent perforation. Auto Start and Auto Stop functions respectively enable motor to automatically start while the file gets in canal and stop when it is out.



Service life of motor:  
**Brushless Endo Motor = Brush Endo Motor x10**

**>30**

Built-in over 30 mainstream file system

Front center-of-gravity

**6:1**

6:1 Contra-angle



2000mAh Lithium battery

**360°**

360° rotatable contra-angle



2000mAh Lithium battery

# Endo Radar PLUS

New generation desk-type Brushless Endo Motor  
Bring you a new experience in root canal treatment



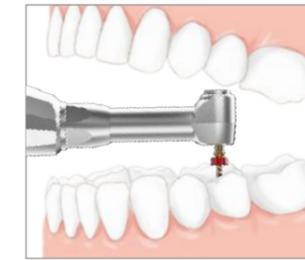
Speed range : 100-1200 RPM  
Torque range : 0.4-5.0N.cm  
Reciprocating angle  
adjustment range : 20°-400°

## 6:1 Super mini contra-angle

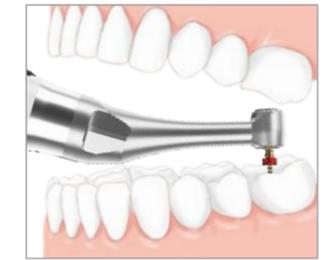
Outcome of craftsmanship



Super mini contra-angle allows clearer operation field



Normal Contra angle head & neck



Woodpecker Contra angle  
Super Mini head & Slim neck



## Full touch button design, HD LCD display

Touchable intelligent panel is smooth and easy to clean.

The panel can be illuminated, thus the buttons are easy to identify. Clear display offers simple and clear information feedback.

## Wireless connection

Use wireless signal to control the handpiece, realizing flexible operation without restraint of tail cord. Light and small handpiece makes holding comfortable.

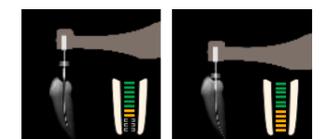
## Wireless charging Long time of endurance

Adopt wireless charging design for handpiece. Put the handpiece on the main unit for charging. Built-in 2000mAh large capacity rechargeable lithium battery, One charge for longtime operation.



## Built-in Apex locator

Integrated length determination makes endodontic treatment safer and more efficient. Realize real-time display of file location in canal. Automatically stops or reversely rotates as soon as the file reaches the apical stop, so as to prevent perforation. Auto Start and Auto Stop functions respectively enable motor to automatically start while the file gets in canal and stop when it is out.



# 1<sup>st</sup> Brushless ENDO MOTOR

## MotoPex

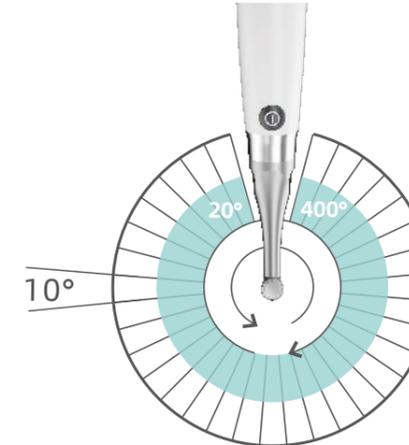
Super mini head & Slim neck  
Stronger power  
Precise rotation  
Lower noise  
Balanced Weight



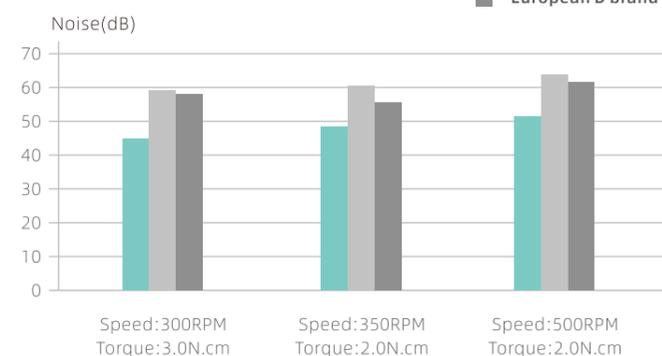
Speed range : 100-1200 RPM  
Torque range : 0.4-5.0N.cm  
Reciprocating angle  
adjustment range : 20°-400°

### High performance brushless motor

Adjustable reciprocating angle  
(10° interval; adjustment range: 20°- 400°);  
Accurate rotating angle reduces risk of instrument  
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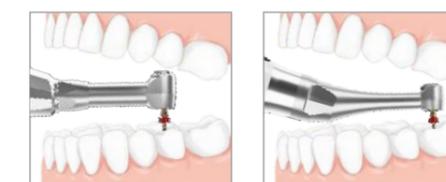


Smooth rotation and lower noise make  
treatment more endurable for patients.



### Super Mini Contra-angle

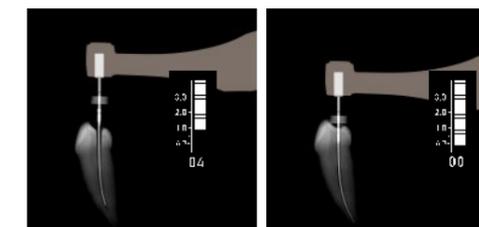
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Normal contra angle head & neck      Woodpecker contra angle Super Mini head & Slim neck

### Built-in Apex locator

Integrated length determination makes endodontic treatment safer and more efficient. Realize real-time display of file location in canal. Automatically stops or reversely rotates as soon as the file reaches the apical stop, so as to prevent perforation. Auto Start and Auto Stop functions respectively enable motor to automatically start while the file gets in canal and stop when it is out.



Service life of motor:  
Brushless Endo Motor = Brush Endo Motor × 10

>30

Built-in over 30  
mainstream file system

Front center-of-gravity

6:1

6:1 Contra-angle



2000mAh Lithium battery

360°

360° rotatable contra-angle

# ENDOMATIC

Cordless Endo Motor with  
combined length determination

## Maximum compatibility

Wide torque and speed range make it  
compatible with various file systems.

Speed range : 100-1000 RPM

Torque range : 0.4-5.0 N.cm



## Integrated length determination

## All-angle OLED screen

## Adjustable Contra-angle



Speed range : 100-1000 RPM  
Torque range : 0.4-5.0N.cm

# Endo Smart +

New generation **Brushless Endo Motor**  
Bring you a new experience in root canal treatment



- Apical Action Reverse** Auto Apical Reverse/Stop
- Auto Start ON** Auto Start
- Auto Stop OFF** Auto Stop
- Apical Slow Down ON** Auto Apical Slow Down

Speed range : 100-1000 RPM  
Torque range : 0.4-5.0N.cm  
Reciprocating angle  
adjustment range : 20°-400°

**6:1**  
**Super mini contra-angle**  
**Combined length determination mode**

# Fi-P

**0.2 second** heating time

High-performance conversion system ensures the efficient cutting



**0.35mm** bendable tip

Thinner tips can penetrate deep into the narrow root canal, providing you a better treatment effect.



**High precision** temperature control  
Constant temperature prevents scalding



**4 working** temperatures

150°C, 180°C, 200°C, 230°C can match gutta-percha of different brands on the market.



Type diameter Taper

WP3504	0.35mm	0.04
WP4004	0.40mm	0.04
WP4504	0.45mm	0.04
WP5004	0.50mm	0.04
WP5506	0.55mm	0.06
WP5508	0.55mm	0.08
WP5510	0.55mm	0.10
WP6012	0.60mm	0.12
WP5508L	0.55mm	0.08

**4 hours** of endurance

Large capacity battery & special heating system enable 1500 operations with a full charging.



# Fi-G

**Quick heating within 15 seconds** reduces time for waiting and increases your working efficiency.

**Prevent gutta-percha leakage**  
**360 rotatable needle**

Optimized structure, 360° uniform rotation, effectively avoiding gutta-percha leakage.

**0.5mm** injection needle

Easy to reach the apical 3mm of canal brings better filling.



**Pushing ram with anti-return structure**

Mechanical-locking structure, effectively preventing the pushing ram from returning and avoiding the generation of cavities and bubbles.



Type Size Length

20G 22mm	20G	22mm
20G 24mm	20G	24mm
20G 28mm	20G	28mm

Type Size Length

23G 24mm	23G	24mm
23G 28mm	23G	28mm
25G 24mm	25G	24mm

# Fi-G Fi-P

Fi-G enables the shortest heating and melting time within 15s

Fi-G:Time for 0°C-230°C (S)

Woodpecker	Korean B brand	Chinese C brand	Chinese D brand
15	24	51	56



# O-STAR

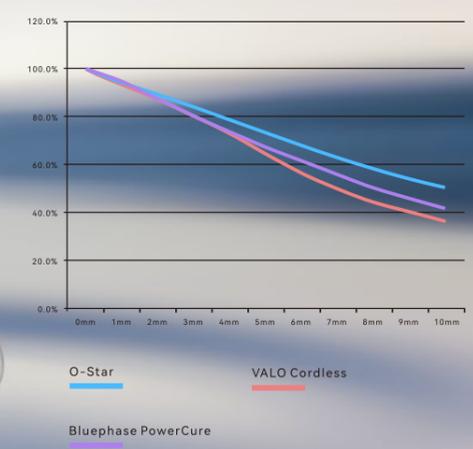
7 Modes in total

Unprecedented Curing Light incorporating various strengths

Charging base with built-in light meter



### Less light loss



## 7 MODES TO FULLY MEET A VARIETY OF CLINICAL NEEDS

**Normal Mode**

Constant light intensity: 1000-1200mw/cm²  
Suitable for most treatment scenarios, such as fillings, restorations, etc.  
Time setting: 5s, 10s, 15s, 20s

**High Mode**

Constant light intensity: 1800-2000 mw/cm²  
Suitable for quick curing, ensuring enough curing depth  
Time setting: 3s, 5s

**Turbo Mode**

Time setting: 1s, 3s  
2700-3000mw/cm²  
Ultra-high light intensity enables 1 sec curing of 2mm resin.

**Ortho Mode**

Time setting: 3s\*5, 3s\*10  
2700-3000mw/cm²  
High light intensity with strong penetrability, especially suitable for orthodontic bracket bonding

**Soft Mode**

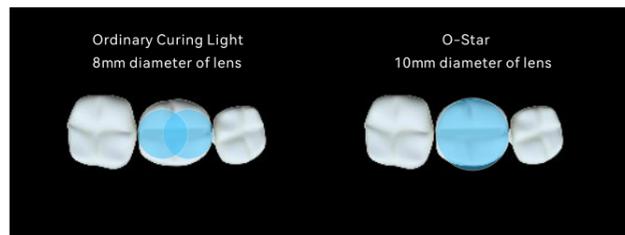
Light intensity is gradually increased from 0 to 1200mw/cm²  
Time setting: 5s, 10s, 15s, 20s  
Effectively reduce the shrinkage rate of resin;  
Lower the risk of microleakage

**Pulse Mode**

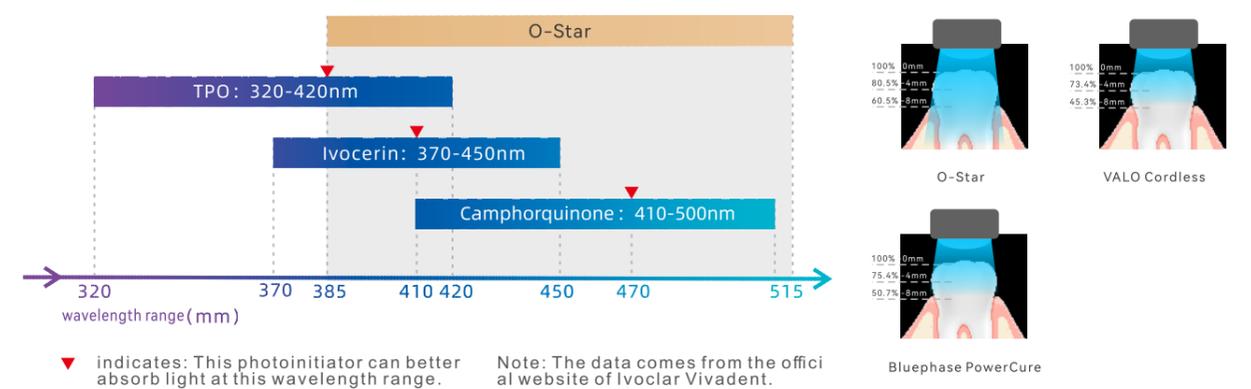
The LED will stop for 0.4s at an interval of 0.6s curing.  
When working in a cycle of treatment, it can effectively reduce heat generation, efficiently dissipate heat and ensure the comfort of diagnosis and treatment.  
Time setting: 5s, 10s, 15s, 20s

**Check Mode**

This mode outputs a single purple light. When special glasses are worn, the caries are obviously orange-red.  
Application: Detection of caries, calculus and cracked tooth



Wide Spectrum Curing Light can cure all resin materials on the market.



### Uniform beam, Strong penetrability

Curing distance (cm)	Light source	Light spot length (cm)	Light spot width (cm)	Light spot area (mm²)	Light spot area ratio	Light angle
5	VALO	41	41	1681		17.38°
	Woodpecker	38	38	1444	-14.1%	15.80°
	VAFU	50	50	2500	48.7%	21.75°
	Ivoclar Vivadent	87	87	5941.665	253.5%	37.95°

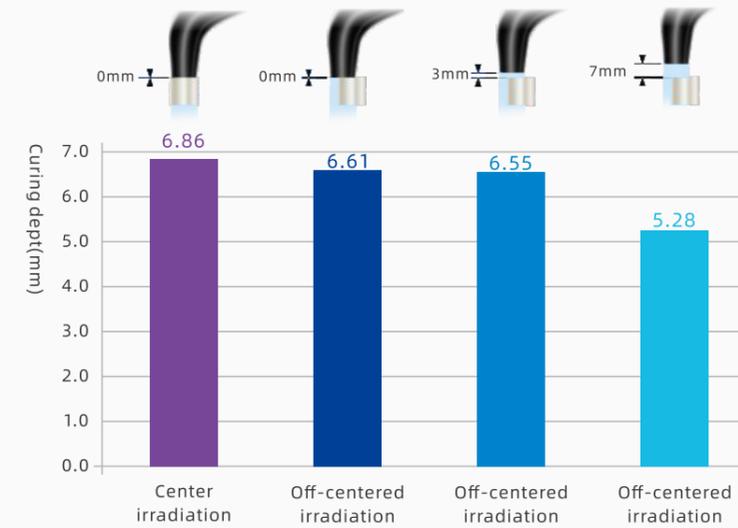
# Curing Expert

## X-Cure



## Off-centered irradiation can also achieve good curing depth

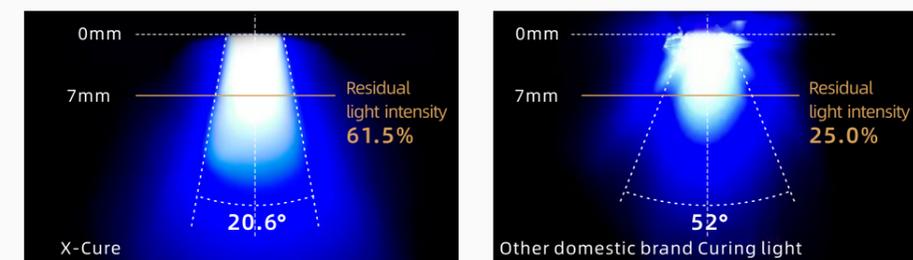
In the case of off-centered illumination, X-Cure also has excellent curing ability. Its curing depth can reach 5.28 mm even in the case of a center offset irradiation where is 7 mm away from the resin.



The resin used for the test was: 3M Filtek™ Bulk Fill Posterior Restorative, Shade A3  
Curing time: 20 seconds

Note: The above test is an in vitro resin test.

## Irradiation of X-Cure



Uniform light output, strong light penetration and a light emission angle of only 20.6°. The light emission angle of other brand Curing Light device is 52°. Light output of X-Cure is more focused and ensures a good deep curing. At 7mm away from the light source, the light intensity can reach 61.5%, but that of other domestic brands Curing Light device is only 25.0%.

Model	0mm	1mm	2mm	3mm	4mm	5mm	6mm	7mm
X-Cure	100.0%	95.7%	89.7%	82.9%	77.8%	71.8%	67.5%	61.5%

# iled<sub>plus</sub>

Wide spectrum High light intensity Focused light

## 1SEC FOR CURING

Bring you fresh experience

CONSTANT POWER OUTPUT

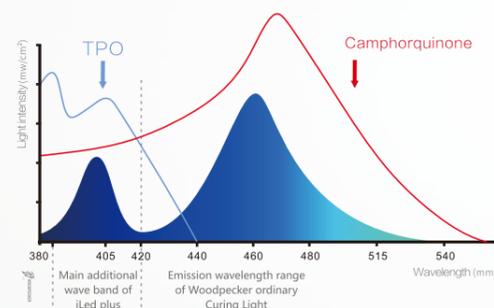
FLUID DESIGN

360° CURING

1 SEC. FOR CURING

Upgraded focused light output  
Upgraded light intensity  
Upgraded wide spectrum

iLed plus Spectral Curve and Resin Spectral Absorptivity



# B-cure

Broad-spectrum LED Curing Light

More human-friendly design

3 seconds for curing

Ortho mode



## 3 SECONDS FOR CURING

Up to 1800mW/cm<sup>2</sup>  
HIGH INTENSITY

Wide Spectrun Curing Light

# LED.F<sub>PLUS</sub>

Updated with  
wide-spectrum LED  
(385-515nm)

Characteristic

Constant light intensity



## LED.B

- Wireless.
- Time setting: 5s, 10s, 15s, 20s.
- Large capacity battery. A full charge can be used for more than 500 times continuously under 10s working time mode.
- Low standby power consumption with seventy days' standby time.
- Constant light intensity. The solidification effect is not affected by the consumption of remaining power.

Light intensity updated 5 seconds for curing



Industrial design patent No.: CN 200730092316.9

Power input AC100V-240V 50Hz/60Hz  
 Light output 1000mW/cm<sup>2</sup>-1600mW/cm<sup>2</sup>  
 Net weight 145g  
 Dimensions 260mm×31mm×31mm

## LED.D

- Wireless. The battery can be replaced.
- Three working modes: Full, Ramping, Pulse.
- Time setting: 5s, 10s, 15s, 20s, 25s, 30s, 35s, 40s.
- A full charge can be used for over 400 times. (10s/time)
- Constant light intensity, the solidification effect is not affected by the consumption of remaining power.
- With wire or wireless. It can run directly on commercial power supply whilst the battery runs out.

Light intensity updated 5 seconds for curing



Industrial design patent No.: CN 200930300230.X

Power input AC100V-240V 50Hz/60Hz  
 Light output 850mW/cm<sup>2</sup>-1600mW/cm<sup>2</sup>  
 Net weight 143g  
 Dimensions 264mm×32mm×37mm

## LED.C

- Wireless. The battery can be replaced.
- Three working modes: Full, Ramping, Pulse.
- Time setting: 5s, 10s, 15s, 20s.
- Large capacity battery. A full charge can be used for more than 400 times continuously under 10s working time mode.
- Low standby power consumption with forty days' standby time.
- Constant light intensity. The solidification effect is not affected by the consumption of remaining power.



Industrial design patent No.: CN 200830300501.7

Power input AC100V-240V 50Hz/60Hz  
 Light output 1000mW/cm<sup>2</sup>-1200mW/cm<sup>2</sup>  
 Net weight 120g  
 Dimensions 263mm×Φ23mm

## LED.H

- Metal shell, five colours optional.
- Wireless. The battery can be replaced.
- Three working modes: Full, Ramping, Pulse.
- Time setting: 3s, 5s, 10s, 15s, 20s, 25s, 30s, 35s, 40s.
- Large capacity battery. A full charge can be used for more than 500 times continuously under 10s working time mode.
- Low standby power consumption with seventy days' standby time.
- Constant light intensity. The solidification effect is not affected by the consumption of remaining power.



Industrial design patent No.: CN 201130176281.3

Power input AC100V-240V 50Hz/60Hz  
 Light output 1000mW/cm<sup>2</sup>-1200mW/cm<sup>2</sup>  
 Net weight 178g  
 Dimensions 252mm×Φ25mm

## LED.G (Built-in sealed)

- Sealed, connect to the dental unit.
- 10 seconds working time.
- Three working modes: Full, Ramping, Pulse.



Curing light

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Power input AC24V 50Hz/60Hz  
 Light output 1000mW/cm<sup>2</sup>-1200mW/cm<sup>2</sup>  
 Net weight 135g  
 Dimensions 260mm×26mm×25mm

## LED.Q (Built-in sealed)

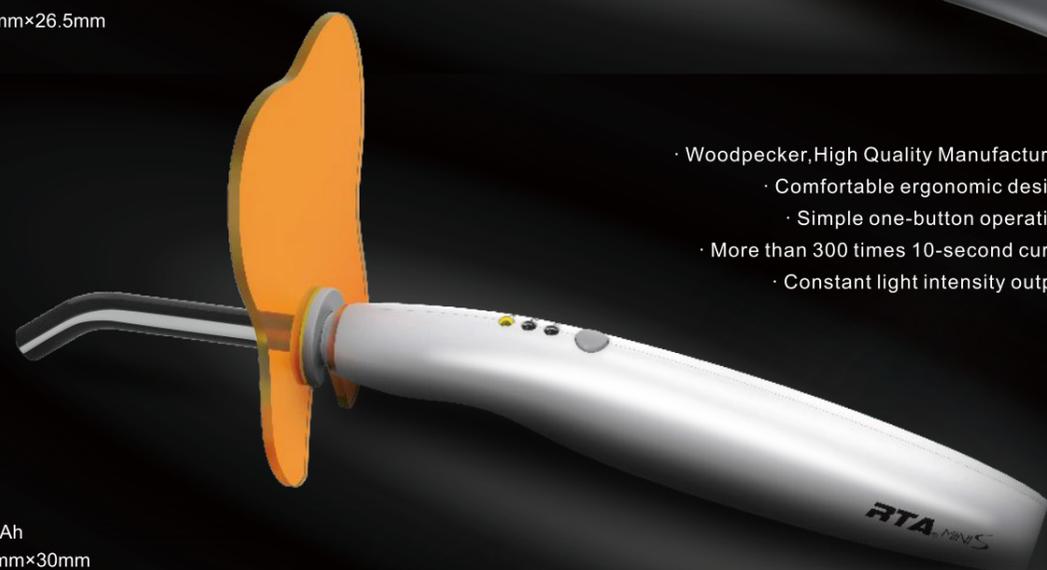
- Sealed, connect to dental unit.
- Time setting: 10s, 20s, 30s.
- Working mode: Full.



Power input ~24V 50Hz/60Hz 0.4A Max  
 Light intensity 1000mW/cm<sup>2</sup>-1200mW/cm<sup>2</sup>  
 Net weight 127g  
 Dimensions 248mm×26mm×26.5mm

## MINI S Curing light

- Woodpecker, High Quality Manufactured.
- Comfortable ergonomic design.
- Simple one-button operation.
- More than 300 times 10-second cures.
- Constant light intensity output.



Battery 3.7V/1400mAh  
 Dimensions 230mm×26mm×30mm  
 Power Input ~100V-240V 50Hz/60Hz  
 Power Output 4.2V 1A

# LED.H ORTHO

## A TOUCH AND DONE, ALL FOR ORTHO.

**Rapid orthodontic 3 seconds for curing**  
 Intensity light 1,800mW/cm<sup>2</sup>, only 3 seconds to solidify the bracket.

**Beveled light guide**  
 Easy to touch any part of teeth, Can radiate vertically at any angles, especially suitable for posterior teeth

**Continuous work time**  
 Full metal body for intelligent cooling system, preventing overheating after long-time work.

### LIGHT HOOD



Woodpecker light hood is made of selected quality materials, rejecting Blue-ray injury.  
 Studies prove that Blue-ray will cause macular degeneration to retina and eyes.

### OPTICAL FIBER

Can be autoclaved under 135°C high temperature and 0.22Mpa high pressure, Effectively avoiding cross infection.



### BATTERY



Woodpecker lithium battery with CB certification, more reliable, no explosion

Batteries on the market without sound charge management, easily cause explosion under high temperature, unguaranteed quality.

Batteries produced by unknown manufacturer will easily cause safety accidents. Please visit Woodpecker official website (www.gwoodpecker.com), click on video and watch Battery High Temperature Test.

Curing light

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# LX 16 Plus

## Innovative Three Wavelengths Blue Semiconductor Laser Therapy Device

- Wavelengths & optical power:
  - 450 ± 20 nm : Pmax=3W
  - 650 ± 20 nm : Pmax=200mW
  - 976 ± 20 nm : Pmax=5W
- Laser system:
  - 450 nm: Class IV;
  - 976 nm: Class IV;
  - 650 nm: Class II  
(according to IEC 60825-1)
- Emission modes:
  - CW (continuous wave), chopped 1 Hz to 20 kHz
- Aiming beam:
  - 650 ± 20 nm / Pmax<5mW
- Battery:
  - 11.1V 2600mAh x2 (57.7Wh)

### Wide scope of application

Can be used for the fields of dental soft tissue surgery, endodontic sterilization, periodontal sterilization, peri-implantitis, low intensity laser therapy, oral ulcer, and teeth whitening.

Remarkable treatment effect:  
There is basically no bleeding during operation, maximally minimizing the postoperative swelling, reducing pain of patients, and accelerating the recovery.

# LX 16

## A New Generation Of High Power Dental Diode Lasers

- Wavelengths & optical power:
  - 976 ± 20 nm : Pmax=5W
  - 650 ± 20 nm : Pmax=200mW
- Laser system:
  - 976 nm: Class IV;
  - 650 nm: Class II  
(according to IEC 60825-1)
- Emission modes:
  - CW (continuous wave), chopped 1 Hz to 20 kHz
- Aiming beam:
  - 650 ± 20 nm / Pmax<5mW
- Battery:
  - 11.1V 2600mAh x2 (57.7Wh)



### All accessories available



# Implanter

## Swiss Motor

5.5Ncm motor torque can guarantee 80Ncm torque output

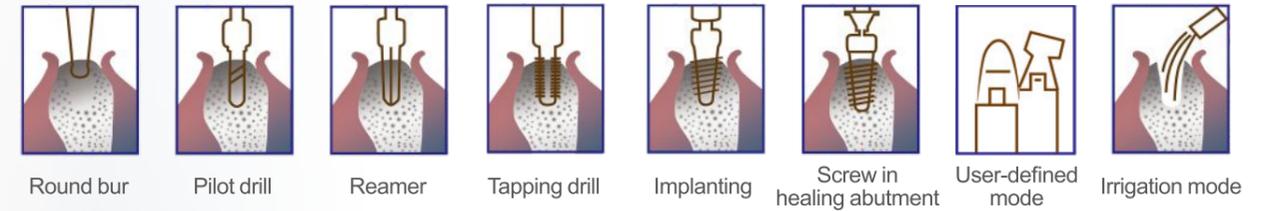
## Germany bearing (Optional)

The swing amplitude of contra-angle is less than 0.02mm.



## Simulated implanting procedures

Preset parameter of each procedure eliminates extra setting during operation.



## Better Holding Feeling

Ergonomic design of contra-angle balances with the weight of motor, guaranteeing better holding.



## Smart touching system

7 inches LCD screen  
 Ultrasensitive touch control  
 Match contra-angles of different gear ratio  
 16:1 20:1 27:1 1:1 1:2 1:3 1:5



Speed range  
300-40,000rpm



Torque range (20:1)  
5N.cm-80N.cm



Maximum water volume  
110ml/min



Motor size  
φ 23.4mm\*L91mm



Motor weight  
140g



# MT2

Woodpecker  
Dental Electric Motor

Refined trimming  
Faster tooth preparation  
More powerful crown-splitting

**Imported German bearing**  
Low vibration enables  
more precise tooth preparation

Imported German bearing  
Stable and precise cutting  
Guarantee stable speed and torque output



**High performance brushless motor**  
with greater torque and lower noise

Lower noise and faster tooth preparation.  
Low abrasion, low heat generation and longer service life.



**Four-hole water spray**

Concentrated water output, better cooling effect.  
Stable output effectively reduces aerosol,  
ensuring safer treatment environment.



**One button control**

More convenient and easier operation



**Minimally invasive repairing**  
precise teeth preparation

Compared with turbine handpiece, it has larger  
clamping force and can grasp the bur tighter.  
Effectively improve the precision  
of trimming and tooth preparation.

# SURGIC TOUCH

Comparison of cutting efficiency with other famous brands



## Clinical application

Minimally invasive tooth extraction, Intralift, Sinus Lift, Alveoloplasty, apical cyst extraction, Crown Extension, Crest splitting, etc.

## Multi-function Foot Pedal

Equip device with multi-function foot pedal, which makes it easy to control water flow, working mode, and power, simplifying operation procedures and realizing efficient operation.



## 7-inch Touching Screen

Abandoning the previous button operation settings, innovatively adopting 7-inch screen. While clearly displaying information, operate directly by tapping the screen.

WOODPECKER

# 3RD

GENERATION OF ULTRASURGERY

### Without hurt to soft tissue

Selective cutting will not hurt soft tissue. Ultrasurgery vibrating frequency is 24 - 29.5KHZ which enables effectively cutting and reduces risk of hurting soft tissue.

### Minimally invasive cutting

Minimally invasive selective cutting  
Without hurt to soft tissue

### Detail Matters

Handpiece tail cord and pump tube can be autoclaved to avoid bacterial infection. High power LED driving technology brings clear operation vision.

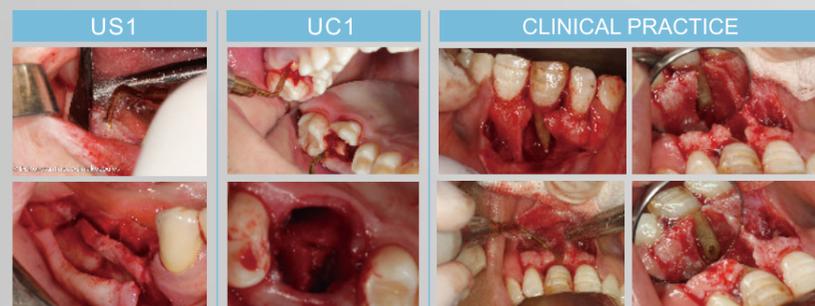
# US-II LED

Woodpecker core technology, reliable cutting efficiency professor

## NEWLY DEVELOPED HANDPIECE

Developed internal structure: handpiece and tip are more compatible, with steady output

Developed packaging technology: more stable after UHT sterilization, with constant quality



### Technical parameters

Power input	100 - 240V~ 50Hz/60Hz 600mA (max)
Frequency	24kHz~36kHz
Power output	5W~35W
Main unit weight	3.1kg
Dimensions	330mm×254mm×167mm

Equipped with **x2**



# UltraSurgery

## Excellent Performance

<200μm



<30μm



## Minimally invasive cutting

Ultrasonurgery tip vibration accuracy is of micrometer level. During operation, gripping requires only a small force, and there is no cutting trajectory limit.

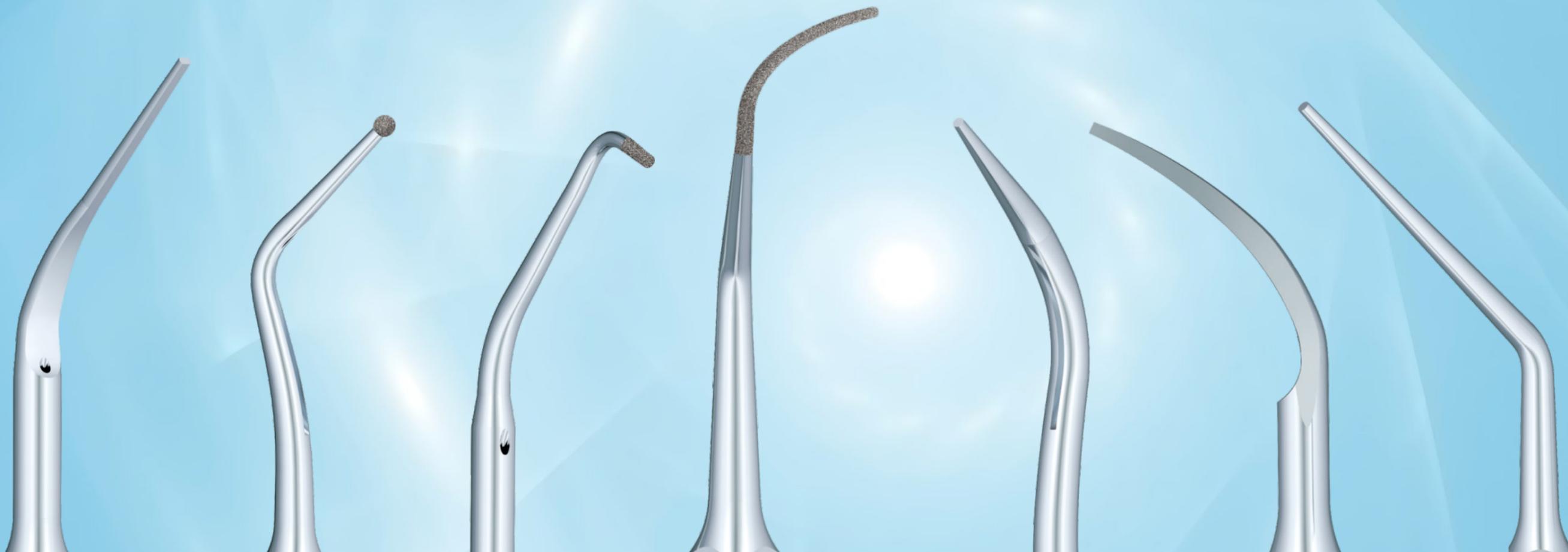
Radial amplitude : 20-200μm    Transverse amplitude : < 30μm



Equipped with **x2**



More powerful than you imagine



Please use the correct scaler tip

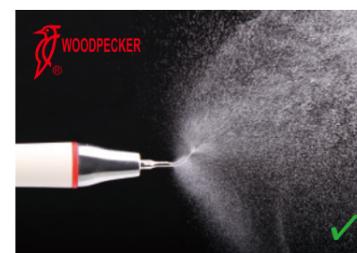


Tips marked with  connected to handpiece marked with **DTE** will lead to serious problem.



Tips marked with **DTE** connected to handpiece marked with  will lead to the same problem.

 These kinds of damages are not covered under warranty.



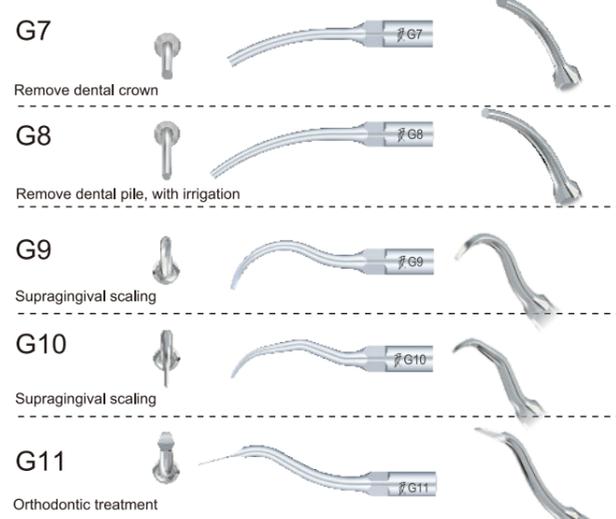
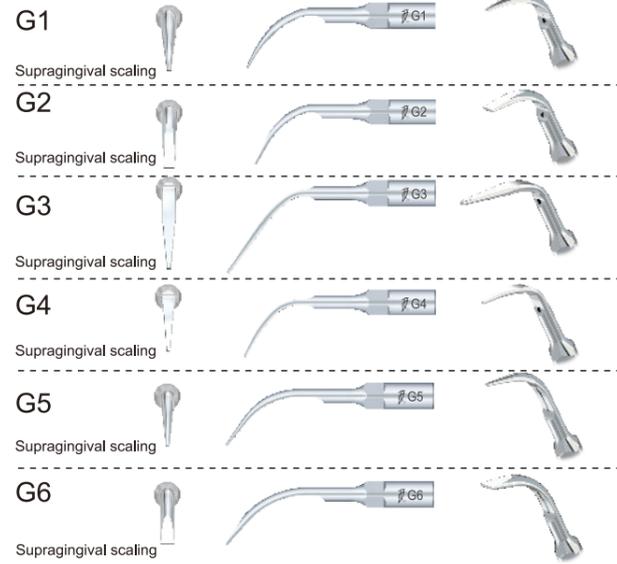
**Please choose authentic Woodpecker tips!  
Reject to use disposable tips of poor quality!**

Woodpecker tip sprays evenly, effective cleaning and cooling

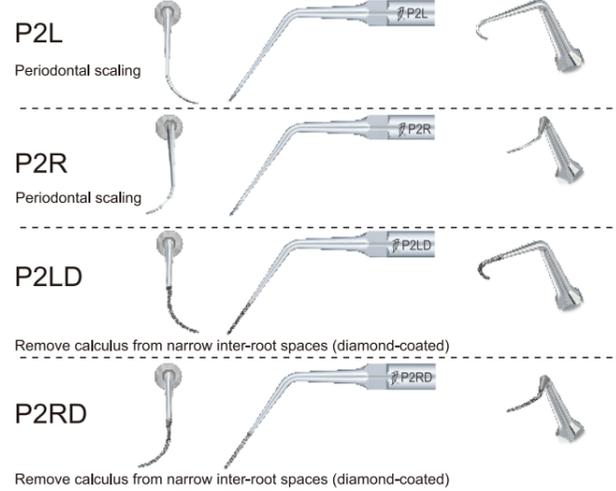
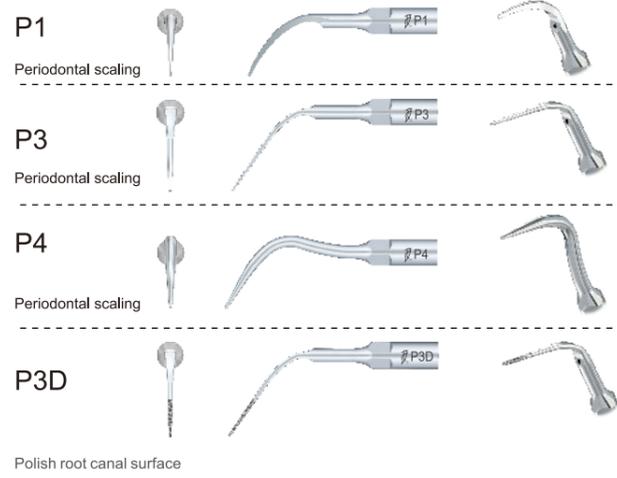
The cracked tip is easy to be swallowed by patients, which will cause serious medical accident. For the safety of you and your patients, please choose authentic Woodpecker tips.

After 300 cycles of sterilization, there isn't any rust on Woodpecker tips. There is also no crack after working for 1000 hours.

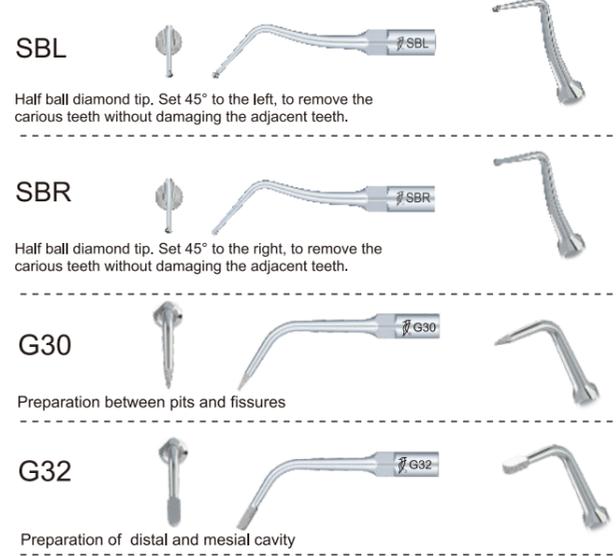
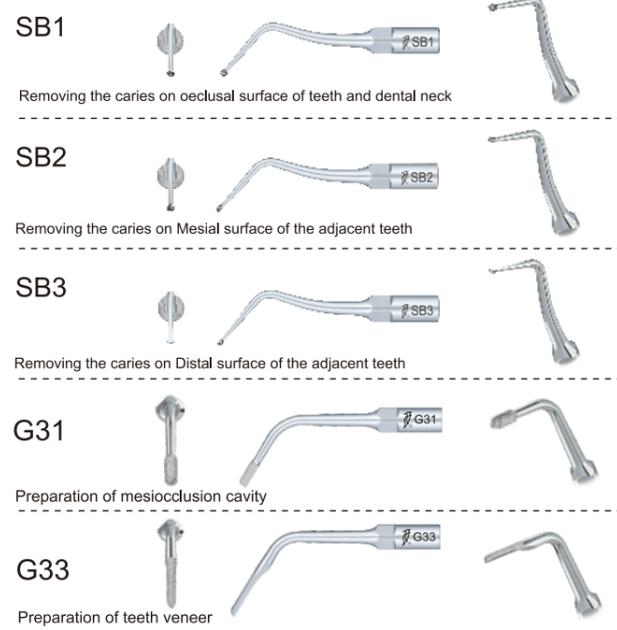
## Scaling



## Periodontics



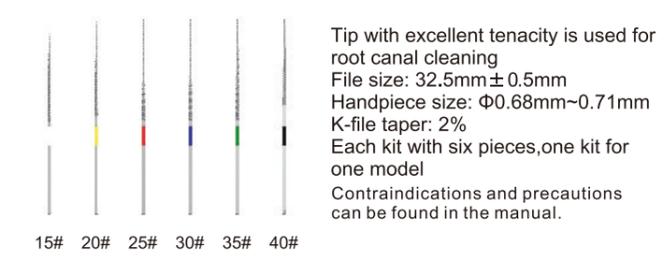
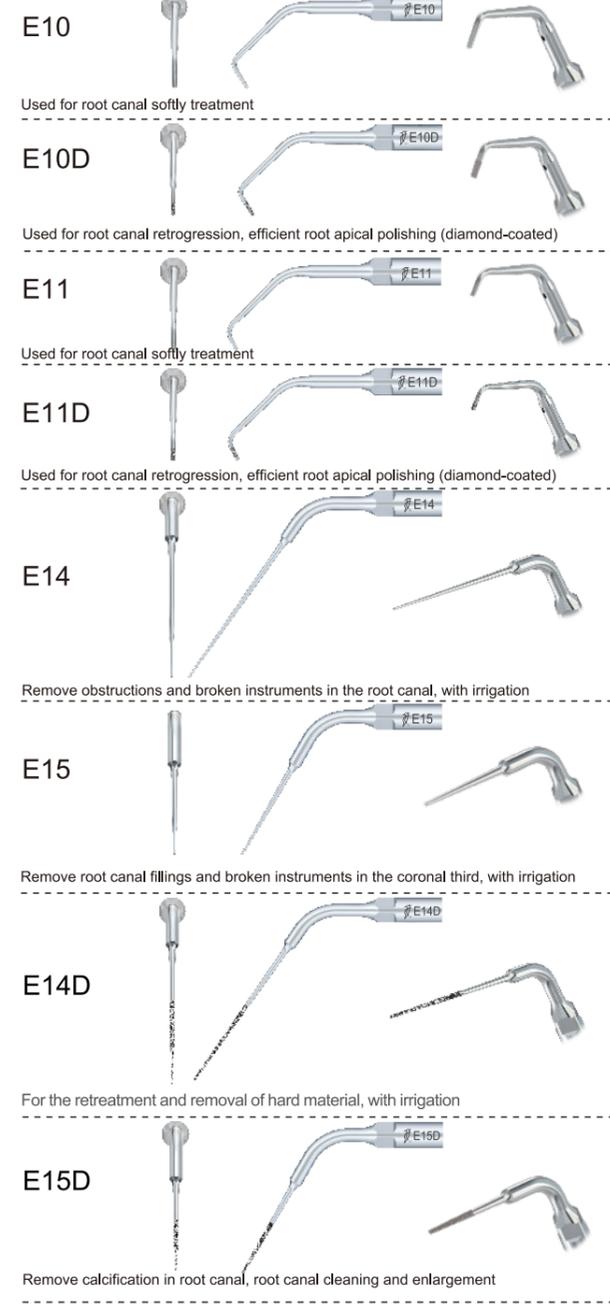
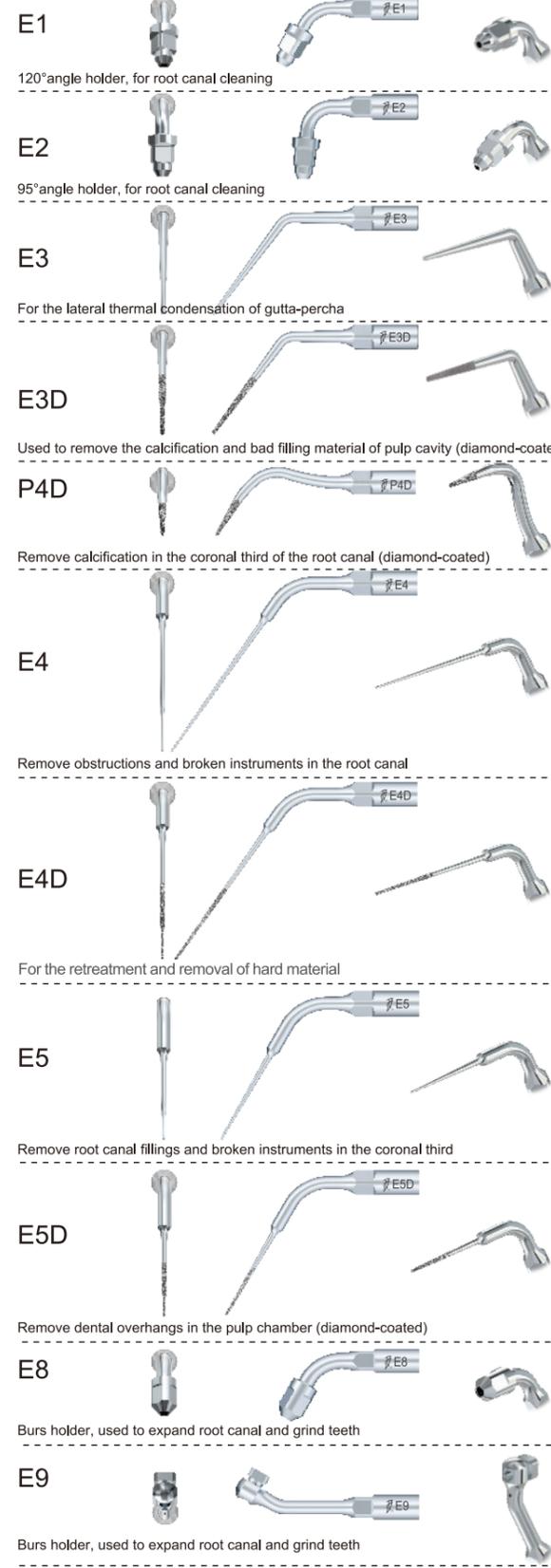
## Cavity preparation



## Shoulder preparation



## Endodontics



## Scaling

**G1T**     
Supragingival scaling

**G2T**     
Supragingival scaling

**G3T**     
Supragingival scaling

**G4T**     
Supragingival scaling

**G5T**     
Supragingival scaling

**G6T**     
Supragingival scaling

**G7T**     
Remove dental crown

**G8T**     
Remove dental pile, with irrigation

**G9T**     
Supragingival scaling

**G10T**     
Supragingival scaling

## Endodontics

**E1T**     
120° angle holder, for root canal cleaning

**E2T**     
95° angle holder, for root canal cleaning

**E3T**     
For the lateral thermal condensation of gutta-percha

**E4T**     
Remove obstructions and broken instruments in the root canal

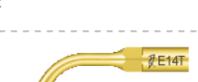
**E5T**     
Remove root canal fillings and broken instruments in the coronal third

**E8T**     
Burs holder, used to expand root canal and grind teeth

**E9T**     
Burs holder, used to expand root canal and grind teeth

**E10T**     
Used for root canal softly treatment

**E11T**     
Used for root canal softly treatment

**E14T**     
Remove obstructions and broken instruments in the root canal, with irrigation

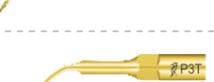
**E15T**     
Remove root canal fillings and broken instruments in the coronal third, with irrigation

## Periodontics *New!*

**P1T**     
Periodontal scaling

**P2LT**     
Periodontal scaling

**P2RT**     
Periodontal scaling

**P3T**     
Periodontal scaling

**P3LT**     
Periodontal scaling

**P3RT**     
Periodontal scaling

**P4T**     
Periodontal scaling

**P5T**     
Periodontal scaling

**P10T**     
Periodontal scaling

**P11T**     
Periodontal scaling

**P12T**     
Periodontal scaling

**P14LT**     
Periodontal scaling

**P14RT**     
Periodontal scaling

**P18T**     
Periodontal scaling

**P20T**     
Periodontal scaling

**P20LT**     
Periodontal scaling

**P20RT**     
Periodontal scaling

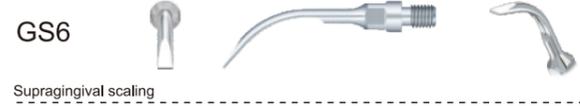
**P21LT**     
Periodontal scaling

**P21RT**     
Periodontal scaling

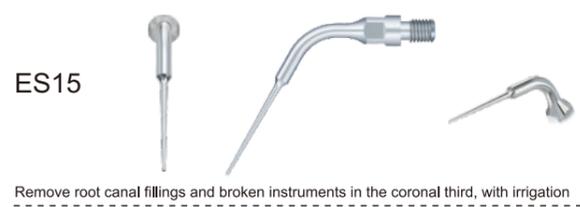
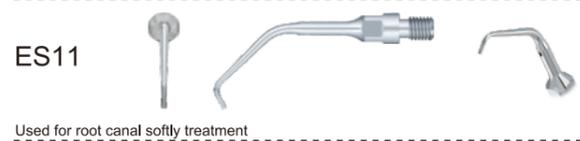
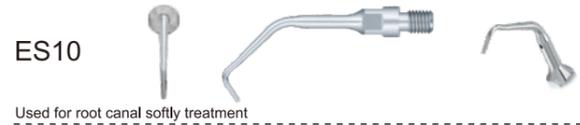
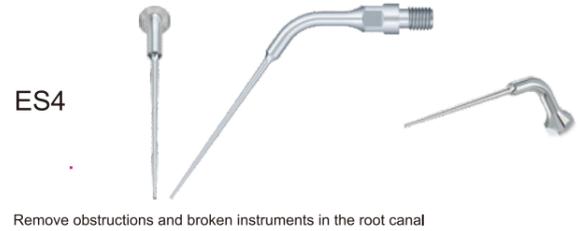
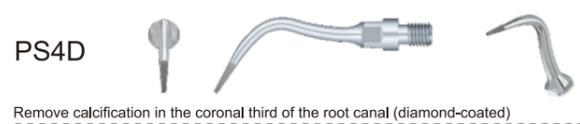
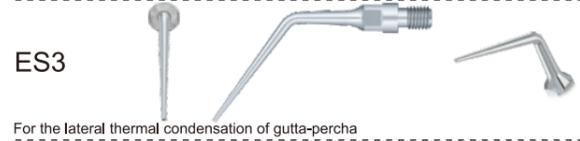
**P22LT**     
Periodontal scaling

**P22RT**     
Periodontal scaling

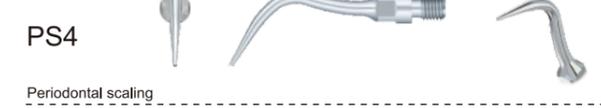
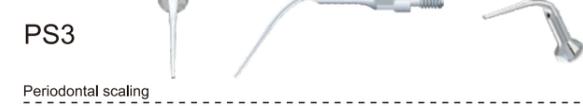
Scaling (Used for SIRONA)



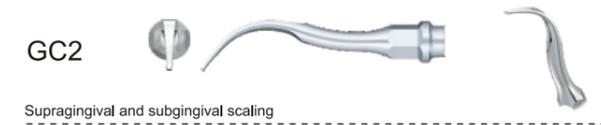
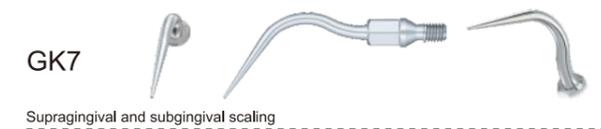
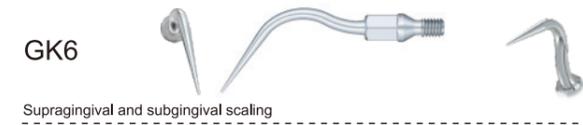
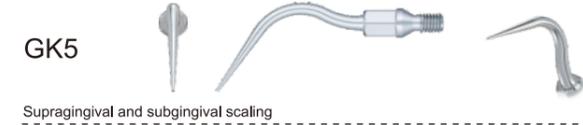
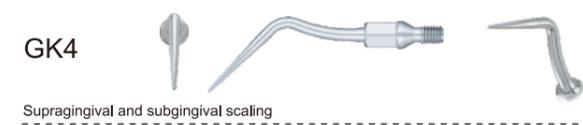
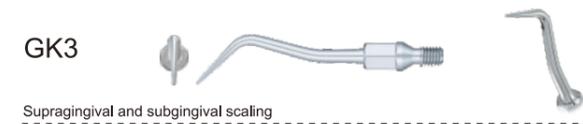
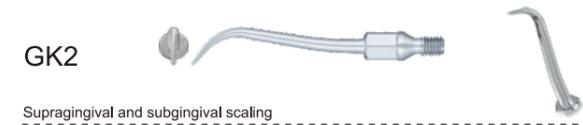
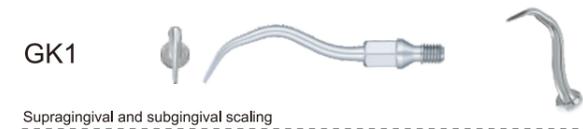
Endodontics (Used for SIRONA)



Periodontics (Used for SIRONA)



Scaling (Used for KAVO)



Periodontics (Used for KAVO)



Used for AMDENT



## Bone surgery

US1

Osteotomy



US1L

Osteotomy



US1R

Osteotomy



US2

Osteotomy



US3

Osteotome of precision in the thirt regions



US4

Bone remodeling and bone chip harvesting



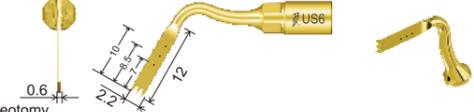
US5

Bone remodeling and bone chip harvesting



US6

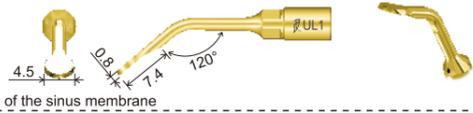
Precise osteotomy



## Sinus lifting

UL1

120° Peeling of the sinus membrane



UL2

Peeling of the sinus membrane



UL3

Non-traumatic bone cutting on thin bone region (diamond-coated)



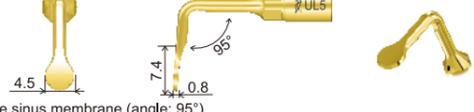
UL4

Micrometric osteotomy near the soft tissue (diamond-coated) \*The size of diamond grit is 100µm.



UL5

Peeling of the sinus membrane (angle: 95°)



## Endodontic

UE1

Apical root debridement (diamond-coated) \*The size of diamond grit is 40µm.



UE2

Soft apical root debridement



UE3

Apical root debridement (diamond-coated) \*The size of diamond grit is 40µm.



UE4

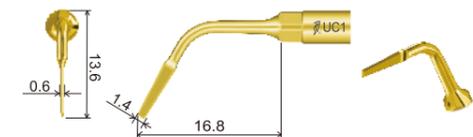
Soft apical root debridement



## Exelcymosis

UC1

Used for cutting ligaments, minimally damnification exelcymosis



UC2

Used for cutting ligaments, minimally damnification exelcymosis



UC3

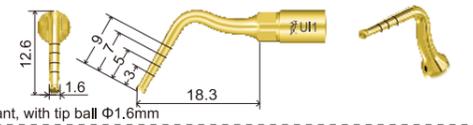
Used for cutting ligaments, minimally damnification exelcymosis



## Implantation

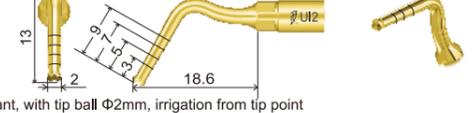
UI1

Used for implant, with tip ball  $\Phi$ 1.6mm



UI2

Used for implant, with tip ball  $\Phi$ 2mm, irrigation from tip point



UI3

$\Phi$ 2mm implant site preparation tip, irrigation from tip point.



UI4

$\Phi$ 3mm implant site preparation tip, irrigation from tip point.



UI5

$\Phi$ 2mm implant site preparation tip, irrigation from tip point.



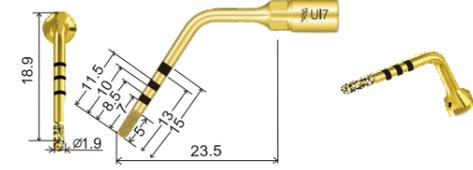
UI6

$\Phi$ 3mm implant site preparation tip, irrigation from tip point.



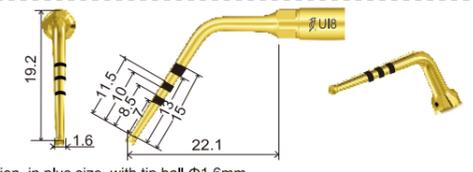
UI7

Finalize the implant site and bone preparation (diamond-coated)



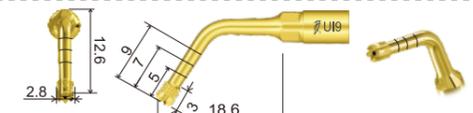
UI8

For implantation, in plus size, with tip ball  $\Phi$ 1.6mm



UI9

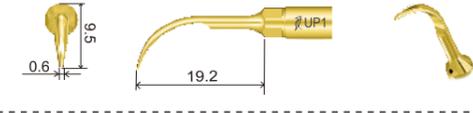
Used for implant, with tip ball  $\Phi$ 2.8mm



## Periodontal surgery

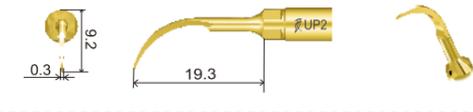
UP1

Root scaling



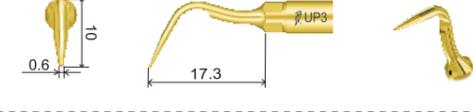
UP2

Root scaling



UP3

Root scaling



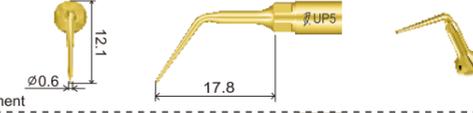
UP4

Root surface debridement and root planning (diamond-coated) \*The size of diamond grit is 40µm.



UP5

Perio treatment



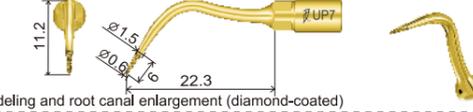
UP6

Bone remodeling, root planing in perio operation \*The size of diamond grit is 40µm.



UP7

Bone remodeling and root canal enlargement (diamond-coated) \*The size of diamond grit is 40µm.



## Ultrasurgery Tip Kit

Basic Kit	Sinus Lifting Kit	Bone Surgery Kit	Exelcymosis Kit	Periodontal Surgery Kit	Endodontic Kit	Implantation Kit
Include: US2/US3 US4/US5/UC1	Include: UL1/UL2 UL3/UL4/UL5	Include: US1/US2 US1L/US1R/US6	Include: UC1/UC2 UC3/UP2/UP3	Include: US4/UP2 UP4/UP5/UP7	Include: UE1/UE2 UE3/UE4/US4	Include: UI1/UI2 UI7/UI8/UI9

## Handpiece for Ultrasonic scaler

### HW-6L

· USED FOR: WOODPECKER scalers with detachable handpiece, with light.



Weight	44g
Dimensions	101mm×Φ18mm

### HW-6

· USED FOR: WOODPECKER scalers with detachable handpiece, without light.



Weight	52g
Dimensions	111mm×Φ17.5mm

### HW-5L

· USED FOR: WOODPECKER scalers with detachable handpiece, with light, broader view, autoclavable.  
Plastic head and metal head are optional.



Weight	51.5g
Dimensions	105mm×Φ18.9mm



Weight	45g
Dimensions	105mm×Φ18.9mm

### HW-3H

· USED FOR: WOODPECKER scalers with detachable handpiece, without light, autoclavable.  
· Two colours optional (white/ blue).



Weight	47g
Dimensions	117mm×Φ18mm



Weight	47g
Dimensions	117mm×Φ18mm

### HW-1C

· USED FOR: UDS-J2/UDS-N4, handpiece sleeve is autoclavable.  
· Three colours optional to the handpiece sleeve (green / yellow / amethyst).



· Three colors for option



Weight	135g (+cable)
Dimensions	137mm×Φ20.4mm

### HW-1L

· USED FOR: USD-J2 LED, handpiece sleeve is autoclavable.  
· Three colours optional to the handpiece sleeve (green/ blue/ amethyst).



· Three colors for option



Weight	156g (+cable)
Dimensions	140mm×Φ20mm

### HW-1

USED FOR: UDS-J/UDS-B/UDS-N1.



Weight	116g (+cable)
Dimensions	113mm×Φ18mm

## Spare parts for ultrasonic scaler

### AT-3

#### Auto water supply system

- Instead of infusion bottle, it can be placed at any flat surfaces to fit the working environment.
- Made of high-quality material, it is safe and durable.
- Pneumatic water control ensures consistency in water pressure.
- Compatible with scalers of any brands.
- User friendly, small in space occupation.



**Autoclavable set**  
Handpiece×1  
Torque wrench×1  
Endo wrench×1  
(6 tips optional)



**Detachable cable**  
With different connectors,  
available for handpiece  
HW-3H, HW-5L respectively



**TW-1L Torque wrench**  
← Hold the tips.



**TW-1 Torque wrench**  
← Can not hold  
the tips.



**TW-2L Torque wrench**  
Hold the tips.



**TS-1L Torque wrench**  
For Sirona scaler tips.



**TW-5L Torque wrench**  
For Woodpecker and EMS  
scaler tips  
**TS-5L Torque wrench**  
For Sirona scaler tips  
**TK-5L Torque wrench**  
For Kavo scaler tips



**TW-3 Wrench**



**TW-E1 Endo wrench**  
Used for changing the  
ultrasonic U-file and  
screwing / unscrewing  
the endo chuck

**TW-A wrench**  
For replacement of dental  
burs and burs holder



**Diaphragm pump**



**1# Tip holder**



**2# Tip holder**



**Foot switch (round)**



**Quick connector**



**File stand**



**Peristaltic pump**



**Foot switch (square)**



**LED lamp**

## Spare parts for dental turbine handpiece



## Spare parts for apex locator



## Spare parts for ultrasurgery



ULTRASURGERY handpiece: Cable and handpiece can be autoclaved together.

## Spare parts for curing light



### Beveled Optical Fiber

- Easy to touch any part of teeth.
- Can radiate vertically at any angles.
- Solve the problem of weak light intensity when radiate vertically with old optical fiber.
- The light intensity is 40% higher than old optical fiber on certain spot when radiate vertically.

