



301 Patents; 60 invention patents; Exported to 133 countries

Choice of Millions of Dentists Worldwide

# WOODPECKER

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for more information



**29**  
YEARS  
1989-2018

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2018 1.0 Edition

**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，一件能让外国人尊重，能让中  
国人自豪的事。

吴勋贤 2004.2.19.

## Enterprise profile

### Concentration

**29** years of concentration on Dental Products R&D , **7** product categories,  
**85%** domestic market share, and exported to **133** countries .

### Innovation

**306** employees, **75%** of them are Graduates or above or above,  
**18.6%** are full time R&D team , **301** Intellectual rights , **60** invention patents.

### Scale

**26841** m<sup>2</sup> existing manufacturing and research base, **80000** m<sup>2</sup> base under construction.  
**27** million USD invested to build up full-automatic processing and testing center.



Aerial View of Company



Office Building



Library



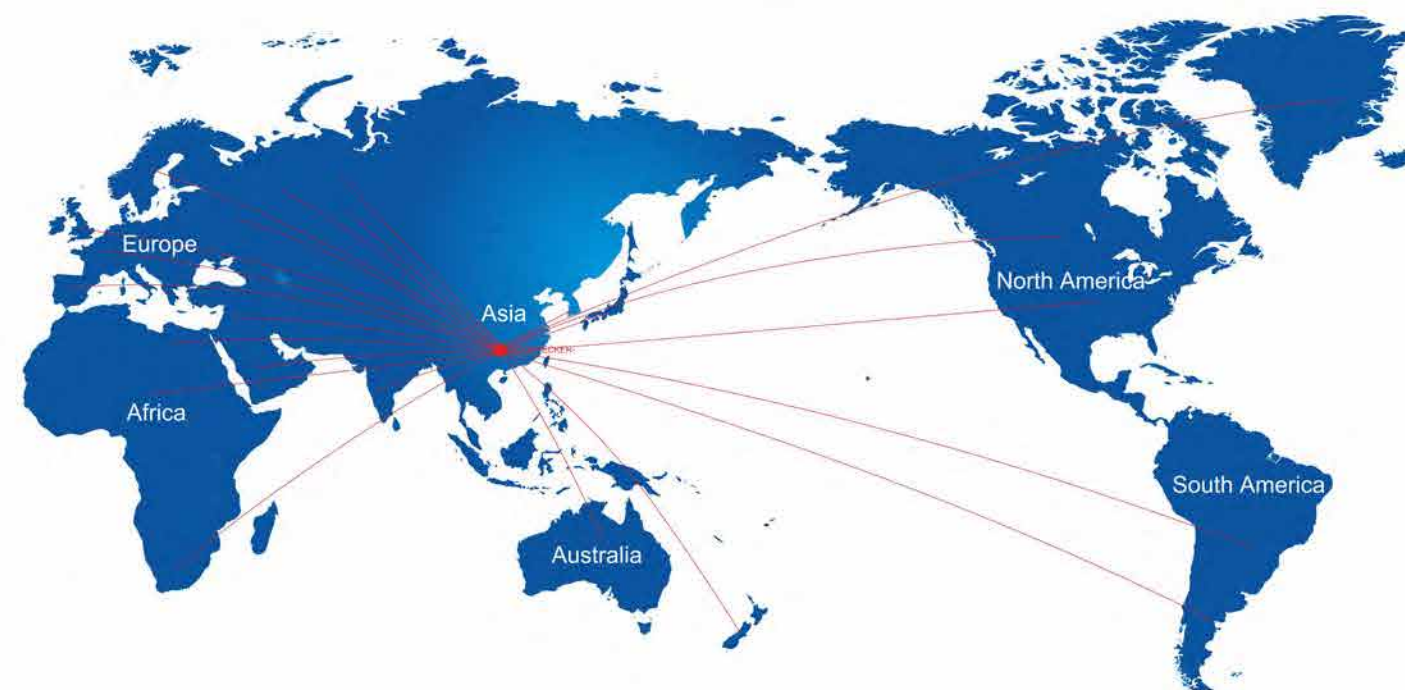
Lecture Hall



Show Room



Woodpecker products have been exported to 133 countries around the world



#### Europe 41 countries

Albania  
Belarus  
Finland  
Ireland  
Bulgaria  
Netherlands  
Estonia  
Belgium  
Montenegro  
Andorra  
Bosnia and Herzegovina  
Croatia  
Austria  
Poland  
Lithuania  
Denmark  
German  
Luxembourg  
Russia  
France  
Romania  
Czech  
Latvia  
Malta  
Macedonia  
Moldova  
Norway  
Portuguese  
Sweden  
Swiss  
Serbia  
Slovak  
Slovenia  
Ukraine  
Spain  
Greece  
Hungary  
Italy  
Britain  
Cyprus  
Monaco

#### Oceania 3 countries

Australia  
New Caledonia  
New Zealand

#### Asia 43 countries

Afghanistan  
Bahrain  
The United Arab Emirates  
North Korea  
Oman  
Philippines  
Azerbaijan  
Georgia  
Pakistan  
South Korea  
Kyrgyzstan  
Cambodia  
Qatar  
Kuwait  
Laos  
Lebanon  
Malaysia  
Bengal  
Myanmar  
Nepal  
Japan  
Saudi Arabia  
Sri Lanka  
Tajikistan  
Thailand  
Turkey  
Singapore  
Syria  
Armenia  
Yemen  
Iraq  
Iran  
Israel  
India

#### America 22 countries

Canada  
Nicaragua  
USA  
Salvador  
Argentina  
Guatemala  
Paraguay  
Venezuela  
Panama  
Uruguay  
Brazil  
Chile  
Bolivia  
Cuba  
Dominican  
Puerto Rico

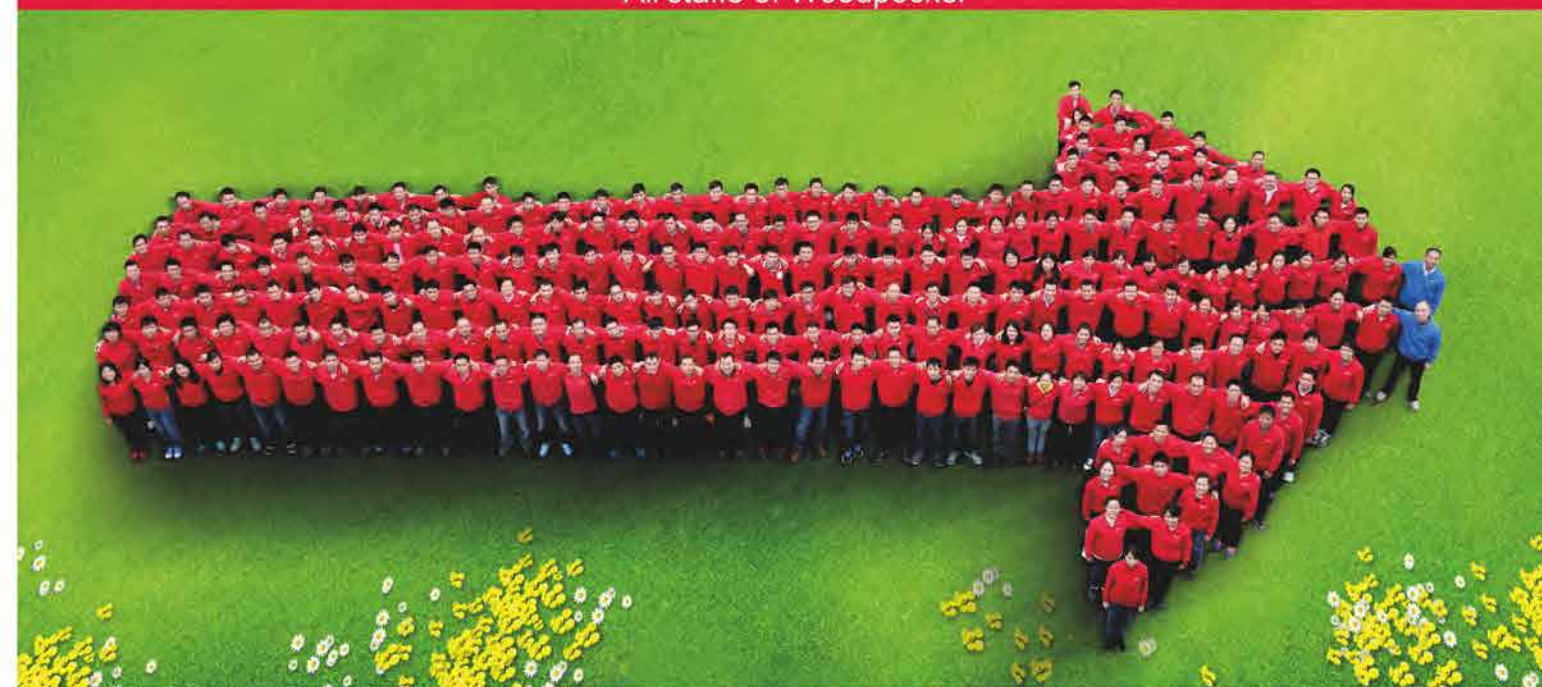
#### Ecuador 2 countries

Ecuador  
Costa Rica  
Colombia  
Honduras  
Paru  
Mexico

#### Africa 24 countries

Algeria  
Libya  
Senegal  
Egypt  
Reunion  
Sudan  
Ghana  
Madagascar  
Botswana  
Zimbabwe  
Morocco  
Burkina Faso  
Cameroon  
Namibia  
Mozambique  
Kenya  
South Africa  
Ethiopia  
Mauritius  
Nigeria  
Niger  
Tunisia  
Zambia  
Somalia

## All staffs of Woodpecker



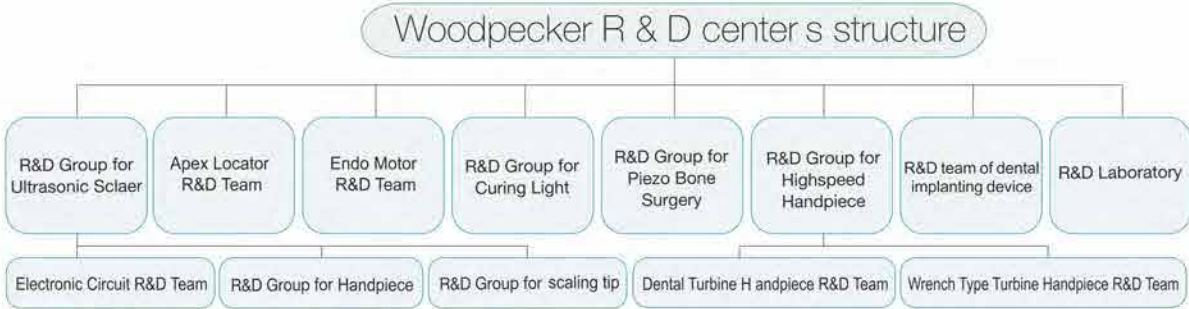


# 29 years' technical innovation

Made in China German quality  
High-quality Durable Innovative

## Experienced R&D team in dental instrument industry

Constituted of 11 teams specializing on each products in Woodpecker. Woodpecker now has 60 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.  
29 years' concentration and innovation in core technology research, and development.



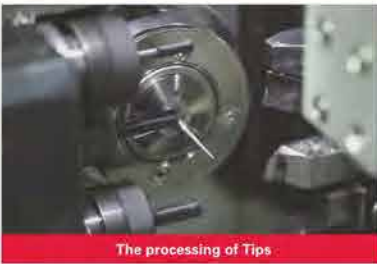
## Advanced processing equipment in dental industry



The processing of core parts in handpiece



The processing of high speed turbine handpiece

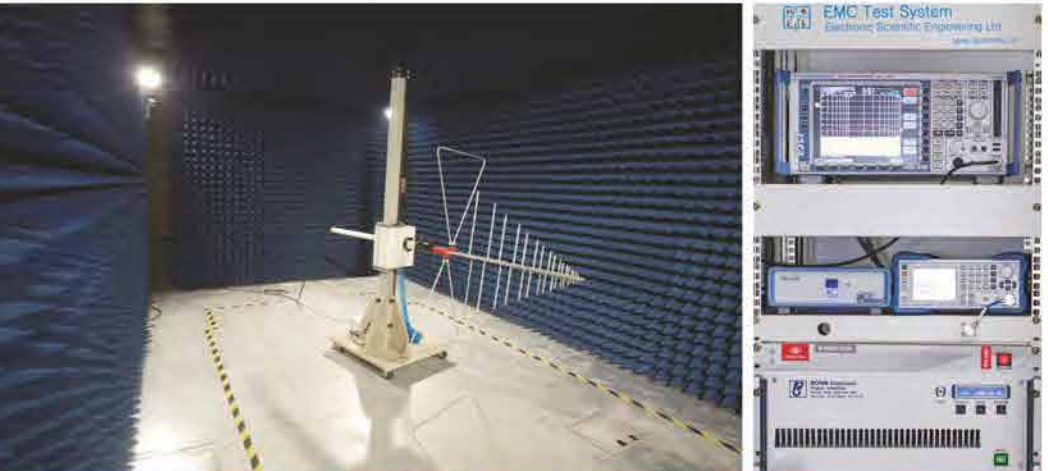
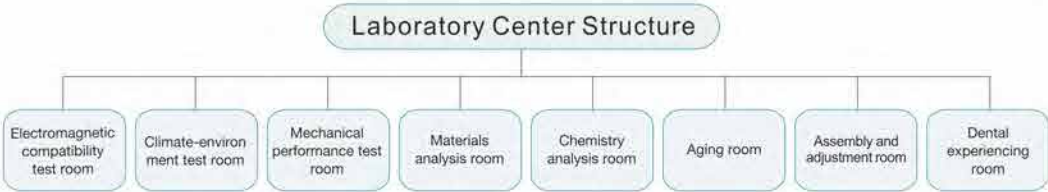


The processing of Tips

- 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.



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 with the demand of EU standard



## 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 company. 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 scalars out of order.
- 1.4 Fake handpieces can't be compatible with ultrasonic scalars, 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 scalars 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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# Implanter

Precise toision    Srtrong and powerful

Woodpecker Implant Motor adopts mute motor imported from Swiss. Advanced FOC controlling technique blends low speed performance with high speed performance. In order to verify the clinical features of flexible response and stable safety, Implant Motor R & D personnel go into the operating room, getting them involved in clinical applications. Under the instruction and assistance of experts from home and abroad, they finally complete the clinical optimization of product. Woodpecker spares no efforts to provide you high quality products.



Rapid and stable response of mute motor

Light motor, more flexible operation

Large-size touching screen, clear display

Strong twist force; accurate limited force

Low speed thread tapping; safer constant speed



# WORLDWIDE LAUNCHING — *PT3*

PIEZOELECTRIC CERAMICS PAINLESS PERIODONTAL TREATMENT DEVICE

18 invention patents      116 national patents

29 years of research on ultrasonic scaling





## Treatment effect:



Before treatment



Under treatment



After treatment



One month later

## Smart touching technique system

- Clear control panel
- Ultra-sensitive
- Waterproof design

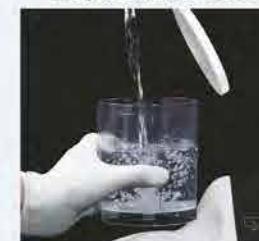
## Detachable LED handpiece

- Surprising efficiency
- Unique assembling technology, long useful life, far ahead far ahead from competitors

## Periodontal treatment tips

- Special design for periodontal treatment, convenient for clinic operation
- Titanium scaling tips, no injury to cementum

Easy to change water



LED handpiece, better visibility



Ultra-sensitive control, waterproof design



Equipped with two professional disinfection kits



## PT 3 main specifications:

Frequency: 28000Hz

Tips hardness: 30HRC

Vibration amplitude: 20~60um

Treatment depth: 14mm

Equipped with: 2 handpieces+10 tips

## CLASSICAL, FOREVER TREND

Elegant Black, Stable Atmosphere,  
Elegant White, Dignified And Refined.  
Tai Chi Astro-Tech China Ancient Color,  
Black And White, Hard And Soft.  
Body Design Have Great Originality, Smooth Lines, Unique Styles.

## COMFORTABLE, THE INEVITABLE TREND

Extremely Simple, Ultimate Bright  
Dual; External & Automatic Water Supply, Clarity & Easy Control.

## TECHNOLOGY, REDEFINE COMFORT

In the new era of Science & Technology,  
We return it by Scientific And Technological Achievements.  
Supra gingival and Sub gingival Scaling,  
Whole Process, Comfortable And Painless.  
Deep cleaning of dental plaque, dental calculus.

## AUTOMATIC WATER SUPPLY SYSTEM

Changing The Water Is More Convenient To Less Redundant Steps.  
Enhance Your Work Efficiency.  
Hydrogen peroxide, Sodium Hypochlorite,  
Chlorhexidine And Other Special Chemicals are available.  
Clear 20ML Scale Line, Convenient Proportioning Liquid.

## SCALING ONLY, NONDESTRUCTIVE QUALITY

Circular Vibration, distract the impact force of the Tip & Tooth.  
360°Hassle Free Scaling, Better Polishing Effect.  
The tip Vibration amplitude is between 20-60um,  
which is equivalent to 1/3 of the diameter of a hair.  
Achievements of many years Painstaking research,  
For the comfort of your escort.



### Save scaling

Tip amplitude is about 20-60  $\mu\text{m}$ , equivalently third of diameter of a single hair.  
Excellent sci-tech outcome assures your save and painless treatment



### Implant maintenance P90

Tip end is wrapped with PEEK material.  
Clean and repair implants





# PT 5

## PAINLESS PERIODONTAL

### Piezoelectric Ceramics Painless Periodontal Treatment Device

## Root canal treatment

Endo scaling  
(E51 E52)



For removing the calcification  
and bad fillings in root canal  
(E3D)



For removing the calcification  
in the coronal third of the root canal  
(P4D)



Looking for root canal orifice  
(E12D)



Diamond-coated, ball head,  
for looking for root canal orifice with security,  
accuracy and efficiency

Root canal retreatment,  
removing foreign body  
(E6 E7 E14 E15)



Special material (E6, E7),  
extremely thin and soft,  
good conductivity to ultrasound



### ENDO SCALING FAST & COMPLETE



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

#### Smart touching technique system

- Clear control panel
- Ultra-sensitive
- Waterproof design

#### Detachable LED handpiece

- Surprising efficiency
- Unique assemble technology, durable  
using life, far ahead of the other similar products

#### Periodontal treatment tips

- Special design for periodontal treatment,  
convenient for clinic operation
- Titanium scaling tips, no injury to cementum



### Main specifications:

Frequency: 28000Hz — 42000Hz

Vibration amplitude: 20~60um

Tips hardness: 30HRC

Treatment depth: 14mm







### Titanium alloy tips

Tip hardness is lower than that of cementum and enamel

Titanium alloy tips hardness: HRC30

Cementum hardness: HRC30 - 40

Enamel hardness: HRC50 - 60

Stainless steel hardness: HRC50



### Elliptical vibration track endows polishing function.

Tip amplitude is about 20-60  $\mu$ m, equivalently third of diameter of a single hair.

Elliptical vibration track disperses the impact force between tip and teeth while realizing 360° scaling and polishing.

Perform scaling and polishing at the same time.



### Distinctive touching system

Clear control panel.

12 grades power setting

Optional dual water supply modes: external water supply & automatic water supply

Ultra-sensitive touching system

Stickers, gloves, and drippings will not affect operation.

### Sealed handpiece with LED ensures clear oral cavity vision

Handpiece can be autoclaved,  
avoiding cross-infection  
Durable life span





E51



120° angle holder: Swishing anterior teeth coordinated with swished file after root canal preparation, used in E mode.

E52



95° angle holder: Swishing posterior teeth coordinated with swished file after root canal preparation, used in E mode.

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 cannal.

E7



Special material

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

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

P90



Implant maintenance

Clean implants and restorations

Make sure water can reach the top of tip.

Power should be no more than level 7, or the peek head may be broken

# SPOILING YOU SO MUCH !





# U600 Ultrasonic Scaler

Intelligent power output Experience painless treatment

29 years innovation

Professional scaler manufacturers

Woodpecker scaler owns 103 national patents 9 national invention patents







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.

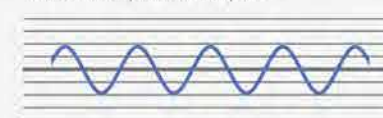
Root canal irrigation is the most widely used clinical support methods. Its purpose is to remove the substance inside root canal, dissolve diseased tissue, remove pathogenic microorganisms, and remove smear layer. Lubricate the root canal internal wall. During root canal preparation process, prevent 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



Small size with powerful functions

Outcomes of decades' study in ultrasonic technology  
Efforts of three generations R&D engineers  
Fine structure harbors powerful technological strength  
Exquisite design highlights beauty of technology  
Manufacture products ahead of the era

U600 Your Solid Choice



- > Standard configuration tips  
P1 P3 P4 E1 E6 G4 G5 G30 P3D P4D
- > High configuration tips (two in each tip below)  
P1 P3 P4 E1 E6 G4 G5 G30 P3D P4D



**E1**   
120° angle holder: Swishing anterior teeth coordinated with swished file after root canal preparation.

**E2**   
95° angle holder: Swishing posterior teeth coordinated with swished file after root canal preparation.

**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.

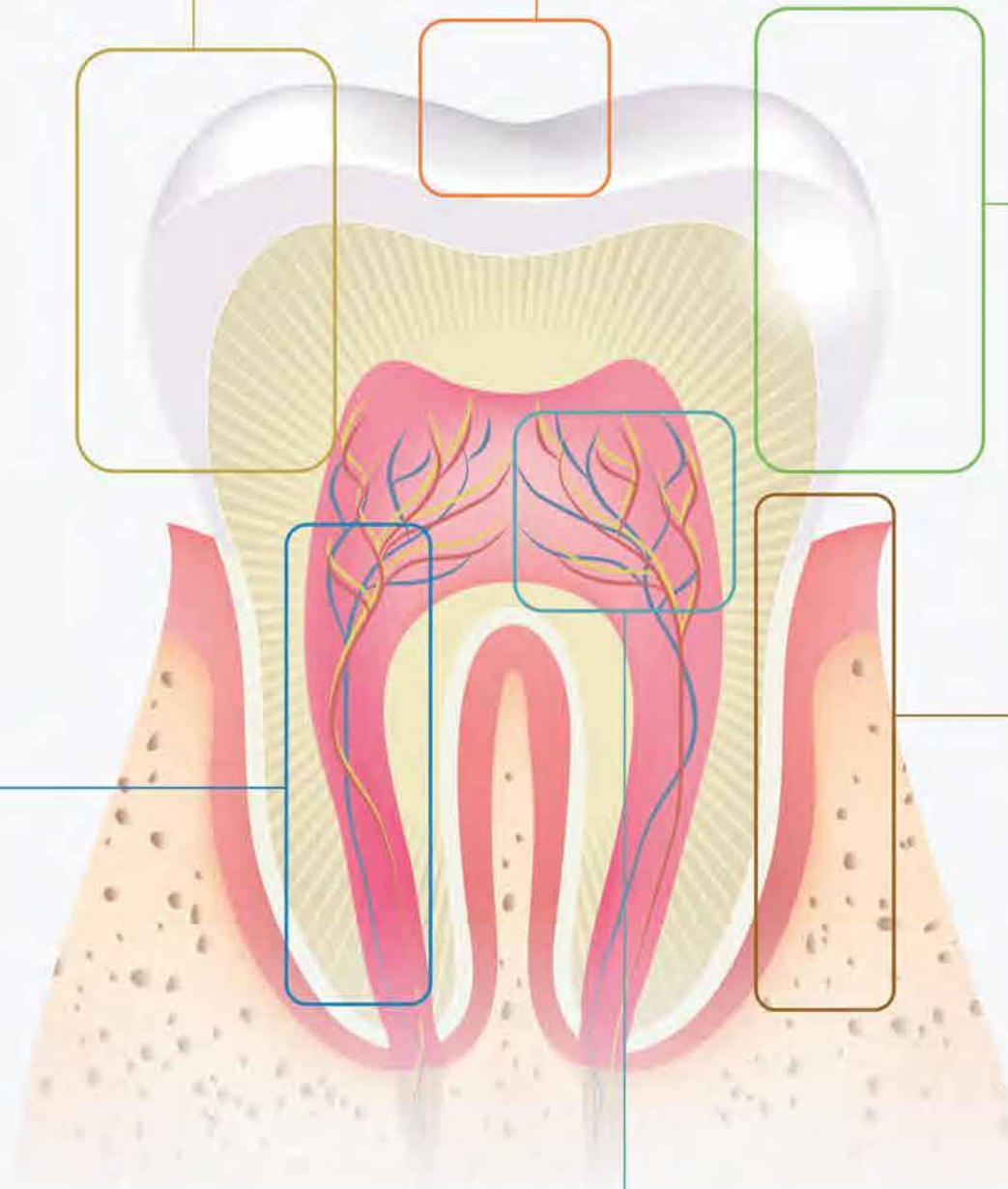
**SB3**   
Diamond-coated(40µm), used with G32. After the distal mesial cavity is completed with G32, used for the cavity inside and outside which is hard to reach the outer area of preparation and polishing.

**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.





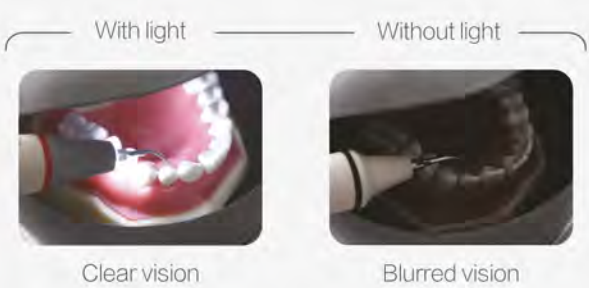


## UDS-E LED

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.

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

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

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

- Scaling
- Perio
- Handpiece  
with LED



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

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

- Scaling
- Perio



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

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

- Scaling
- Perio
- Endo
- Handpiece with LED



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

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

- Scaling
- Perio



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-J2 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.

Scaling

Perio

Handpiece with LED



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-A LED

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

Scaling

Perio

Endo

Handpiece with LED



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-L LED

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  $\pm$  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  $\pm$  3KHz  
Dimensions: 74mmX56mmX38mm



### UDS-N3 LED

Match detachable handpiece HW-5L

### UDS-N3

Match detachable handpiece HW-3H



Woodpecker Built-in Ultrasonic Scaler  
Special design for comprehensive dental chairs



## 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  $\pm$  3KHz  
Dimensions: 74mmX56mmX38mm



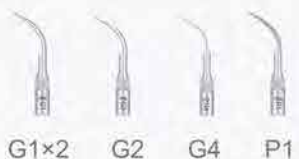
UDS-N2 LED  
Match detachable handpiece HW-5L

UDS-N2  
Match detachable handpiece HW-3H

## 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  $\pm$  3KHz  
Dimensions: 74mmX56mmX38mm



UDS-N1  
Match detachable handpiece HW-1

## Compatibility of tip

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

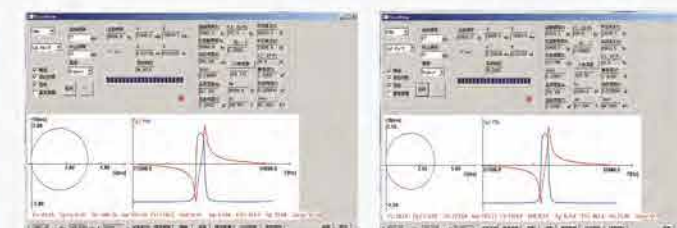


Woodpecker tip can perfectly match E brand scaler

## Compatibility of handpiece

Woodpecker: Resonant frequency

E brand: Resonant frequency



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.





Clinical data matching,  
The accuracy rate has been improved to

**97.71%**

Upgraded chip, real-time response, doubling sensitivity.  
Innovative algorithm, multi-frequency measurement, and anti-interference.



APEX LOCATOR  
**WOODPEX III** Pro  
25 National Patents 8 Invention Patents





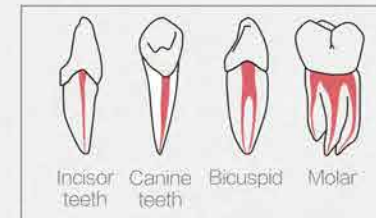
# WOODPEX III Plus

Flexible apex dead point setting

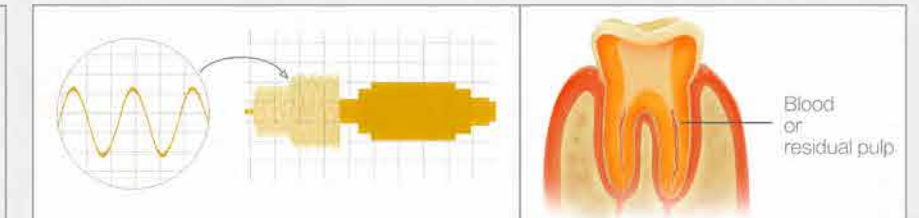
New dead point setting function allows setting as per professional needs

Timely remind operators of measuring distance

For all kinds of teeth



Multi-frequency measurement technology,  
blood or residual pulp in root canal will not affect measuring accuracy.



Stable performance

Optimized accessories efficiently avoid unstable measuring



Optimized LCD screen  
with brighter color

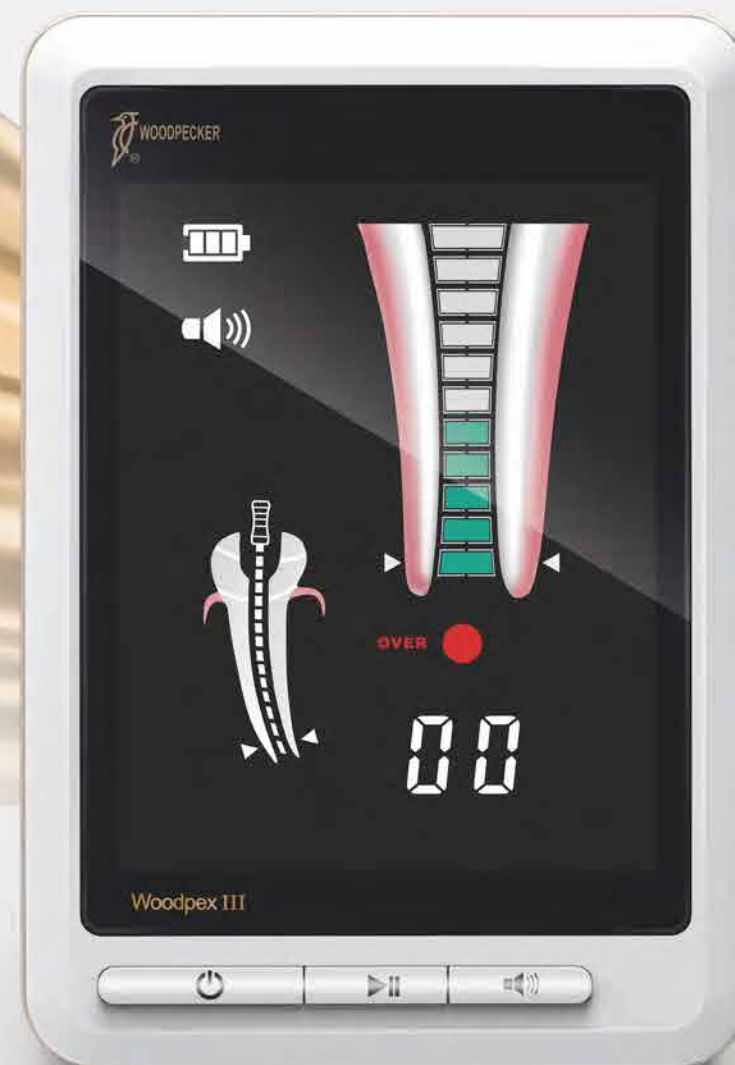
Homogeneous light distribution  
allows better visual perception

Various color areas separately  
display the track of probe in root canal



Luxury gold & Rosy gold

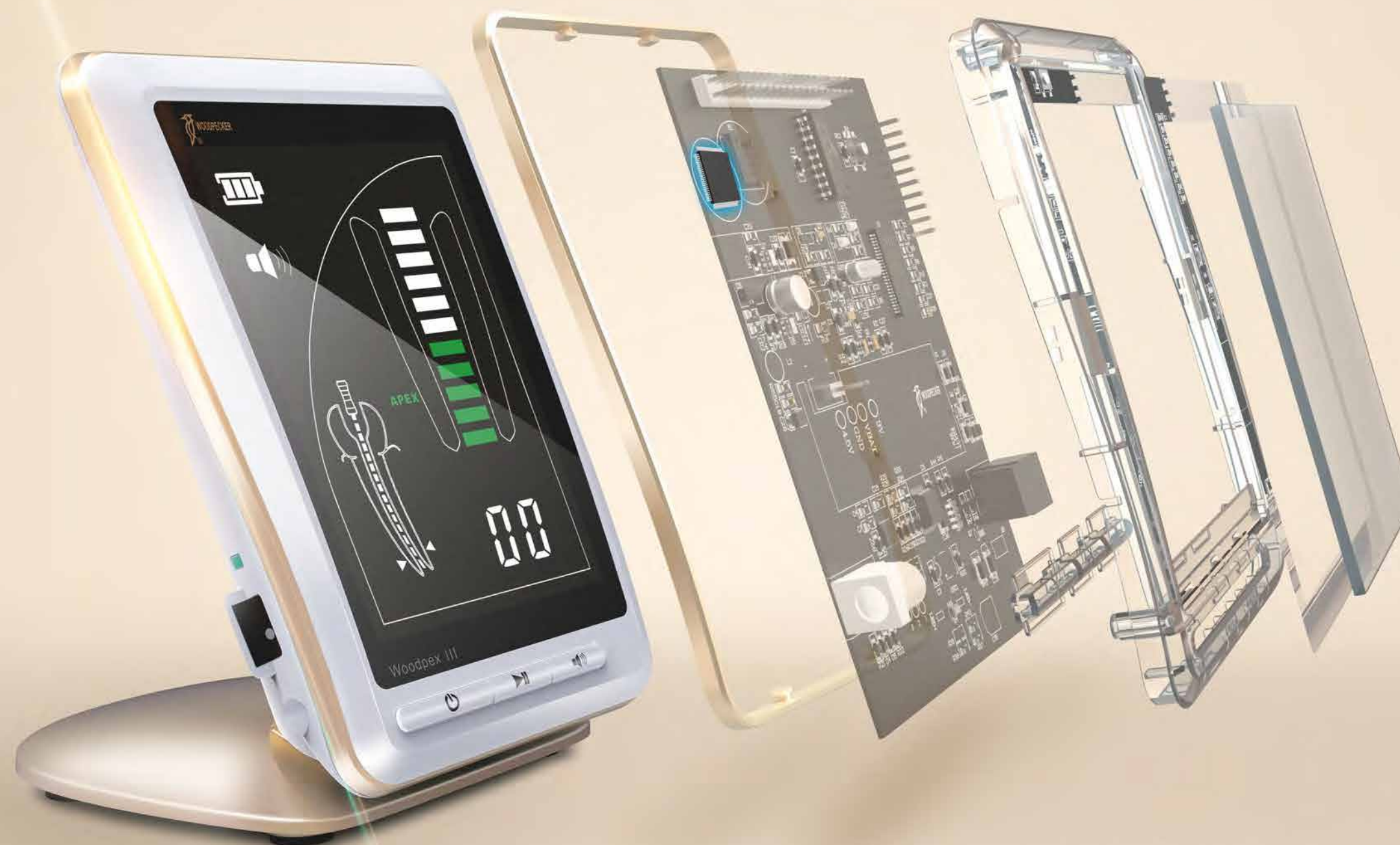
Optional luxury gold and rosy gold appearance.  
Blending excellent structure with fabulous proportion.





# WOODPEX III

- Color LCD screen displays clear image.
- Multi-frequency apical positioning technology avoids some subjective factors from influencing the measuring result.
- Rechargeable lithium battery.
- Adjustable viewing angle



## Defects of traditional measuring methods

### Defects of handling method

The doctor determines whether the device reaches the apical foramen according to the feeling of hand and pain of patient, which is of strong subjectivity and low accuracy. The accuracy is only about 42% within the error range of  $\pm 0.5\text{mm}$ .

### Defects of X-raying method

Three-dimensional structure is projected in two-dimensional plane. For different projection angles, the data is very error-prone; Apical foramen cannot be reflected in the X-ray dental film. And more than 80% of the apical foramens are not in the apex position but at the side.



X-ray dental film shows that this file has not reach foramen. Actually the file has penetrated through the foramen.

Apical opening is at the side. The X-ray projection will cause length error. The longer the distance between apical opening and apex is, the greater the error will be. Thus the file will penetrated through the foramen.

Battery: 3.7V/750mAh  
Power consumption:  $\leq 0.5\text{W}$   
Screen: 4.5"LCD  
Weight: 350g  
Dimension: 84mm x 88mm x 112mm

The product were authorized appearance patent, counterfeit will be sued.  
Patent No.: ZL201130379058.9



# Minipex Apex Locator

COMBINATION OF TECHNIQUE AND ART

QUALITY AND BEAUTY COEXIST

Apex Locator

41



Apex Locator

42



Small size  
High precision



Simplicity and Elegance

- Back-up ring design
- Multi-angle adjustment
- Arbitrary set, measure as wishes
- Lightweight, easy to take
- Outstanding authentic quality



Voice Prompt

- Multi - frequency independent network measuring technique, enlarging the apical narrow area
- Double assurance to accurate measurement
- Alarm rings when the distance between root canal needle and root canal is less than 2 mm
- Providing effective protection to both dentists and patients



Light but Powerful

- A total weight of merely 71g
- Dimension: 70mm × 62mm × 20mm
- With superb technique
- 100% automatic digital calibration
- Light body together with stable performance



Simplified Body Design with High Sensitivity

- Clinical data fitting
- Measurement accuracy up to 97.71%
- Updated chip, real-time response, double sensibility
- Innovative algorithm, intelligent anti - interference







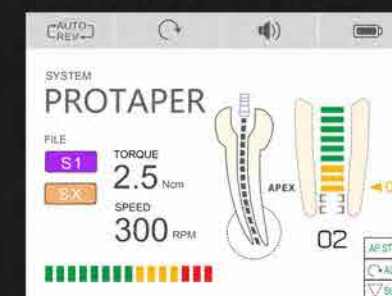


Effectively prevent needle breakage

Reciprocating mode - match all kinds of single file in the market

Continuous mode - three intelligent reversing functions

## INTEGRATED LENGTH DETERMINATION



AP STOP Auto Apical Reverse & Auto Apical Stop  
C-AUTO Auto Start  
V-S-D Auto Apical Slow-down

## WIRELESS CHARGING

Non-contact, reliable

Intelligent charging mode: without adapter



## RECIPROCATING MODE

Accurate angle control



AP STOP Auto Apical Reverse & Auto Apical Stop  
C-AUTO Auto Start  
V-S-D Auto Apical Slow-down

## WIRELESS COMMUNICATION

Cordless handpiece



## LED LIGHT:

Operation Vision is more clear



Three kinds of reversing modes

Torque: 0.6 - 4.0 Ncm

Speed: 200 - 650 RPM

Capable of presetting all the populous file systems in the market



## Endo Smart

### Effectively prevent file breakage

Adopt real-time feedback technology and dynamic torque control, realizing automatic reverse, effectively preventing fracture.



### Intellectual charging mode

Built-in lithium battery in charging base; 2600mAh battery capacity.

The handpiece can also be wirelessly charged even if the power adapter is not connected.

In the case that built-in lithium battery is fully charged but is not connected to the power adapter, the handpiece can also be charged for one time.

### All-angle OLED screen

Without visual angle limit, clear display can be guaranteed even under strong light. Available display of speed, torque, and battery consumption







## Customization

Storage of 9 user-defined modes allows invocation at any time.

Under each mode, continuous motion, reciprocating motion, and reverse motion are for options.

Torque and speed is adjustable



## Maximum compatibility

Wide torque and speed range make it adapt to various file systems such as FKG, XP-endo, and Shaper in the market.

Recommended speed is 800-1000rpm.

Recommended maximum torque setting for Dentsply Protaper Gold is 5N.cm.

## Nimble Contra-angle

Contra-angle can be autoclaved to avoid cross-infection.

Adjustable angle make it available for different teeth positions.

Small and exquisite head provides unobstructed views.

## Imported Motor

15.5: 1

reduction ratio endows strong power and efficient cutting.

Durable planet gear gearbox prolongs service life of device.



ONECURE™

# X-Cure

Wide Spectrum Curing Light

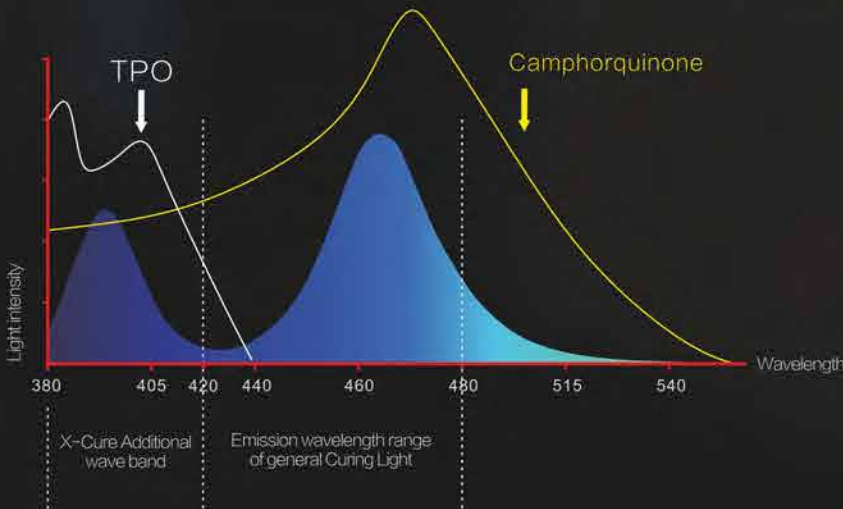
Eleven years of Curing Light technological research and development  
Wide Spectrum LED Curing Light X-Cure emerges at the right moment  
Compared with general LED Curing Light, it is of wider emission wavelength range,  
better curing bleaching resin and transparent resin.



## Wide Spectrum Curing

Emission wavelength range of general Curing Light is 420nm - 480nm  
Emission wavelength range of X-Cure wide spectrum Curing Light is 385nm - 515nm,  
adding a new wave band of 385nm - 420nm.  
The additional wave band can better curing resin materials containing  
new-style photoinitiators such as TPO. For example,  
restoration materials like Tetric N - Ceram Bulk Fill (Ivoclar),  
Amelogen Plus (Ultradent), and ENA Hri (Micerium).  
This new wave band can also reduce the risk of resin falling off and incomplete curing.

## X-Cure Spectral Curve and Resin Spectral Absorptivity



The light-absorbing peak of traditional material (including camphorquinone;  
the yellow line on the figure) is 460nm,  
so the curing can be done by either general Curing Light or Wide Spectrum Curing Light.  
But camphorquinone is of a yellow color.  
It is not suitable to add large amounts of it to bleaching resin or light-colored resins.

The light-absorbing peak of new materials (including TPO;  
the white line in the figure above) is 405nm.  
Compared with general LED Curing Light,  
X-Cure owns additional 385nm - 420nm wave band which is able  
to better curing this kind of new material. TPO is of white color.  
Thus it is suitable for adding to the bleaching resin and light-colored resin.



## 1 Sec. for Curing

X-Cure is allocated with 10W LED, endows up to 2500mw/cm<sup>2</sup> light intensity under High Mode.  
Optical light guide brings maximum 3000 mw/cm<sup>2</sup> light intensity.  
Curing 2mm general resin in 1 second.

## Easy Detection

Under Detection Mode, the LED emits a special beam with a wavelength of 405 nm.  
Illuminated with the special beam (wavelength 405nm), the caries is showed in Red color, while the healthy teeth is showed in Green color, and the dental calculus is showed in yellow color, from which doctors can rapidly check whether the caries is fully removed, bringing better treatment effect.  
Detect with special glasses, the color difference can be more obvious.



## Progressive Mode

Under Progressive Mode, the power of LED gradually increases, giving a longer gel period for resin to reduce the edge discomfort caused by stress contraction of resin.



## Safe Use



Select EU medical certification battery with a sound charge management.  
Light hood can block more than 98% of blue light, reducing Blue-ray injury to eyes.

## Constant light intensity Smaller angle



## OLED display, better visibility

Color display technology  
Clear vision at a glance

It is also advantageous in all-ceramic repair and orthodontic brackets.



Wavelength: 385-515    Light intensity: 1000-3000mw/cm<sup>2</sup>



# CURING LIGHT iLed



Cure 2mm resins in one second

light intensity up to **2300** mw/cm<sup>2</sup>

**1SEC**  
FOR CURING  
Go quicker than ever



## CONSTANT POWER OUTPUT

Born for restoration

## 1 SEC FOR CURING

Go quicker than ever

## 360° ROTATABLE HEAD

Extend the possibility

## ERGONOMICS DESIGN

optimize the hand-grip use

## EXPERT IN LED CURING LIGHT

13 years professional technology, 39 patents, 7 Invention Patents  
Global sales over 600,000 units!

## BASIC DATA:

Power input	AC100v-240v 50hz/60hz
Light intensity	1000mw/cm <sup>2</sup> ~2500mw/cm <sup>2</sup>
Net weight	278g
Dimensions:	25mm×25mm×240mm



EXPERT IN LED CURING LIGHT !



**3 SECONDS  
FOR  
CURING**  
Up to 1800mW/cm  
**HIGH INTENSITY**

14 years professional technology,  
41 patents, 8 Invention Patents  
Global sales over 600,000 units !

## LED.F

- Light meter attached.
- Built-in fan to avoid over-heat.
- OLED screen. All angles visible.
- Especially suitable to solidify agglomerant of orthodontic bracket, veneer and post.

Power input AC100V-240V 50Hz/60Hz  
Light output 1600mW/cm<sup>2</sup>-1800mW/cm<sup>2</sup>  
Net weight 210g  
Dimensions 195mm×40mm×150mm



Main unit  
OLED Screen



Pedestal  
Light intensity indicator and  
light intensity measure point



Industrial design patent No.: CN 200930321058.6



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/cm²-1600mW/cm²  
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/cm²-1600mW/cm²  
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/cm²-1200mW/cm²  
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/cm²-1200mW/cm²  
Net weight 178g  
Dimensions 252mm×Φ25mm



## LED.G (Built-in sealed)

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

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



## LED.Q (Built-in sealed)

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

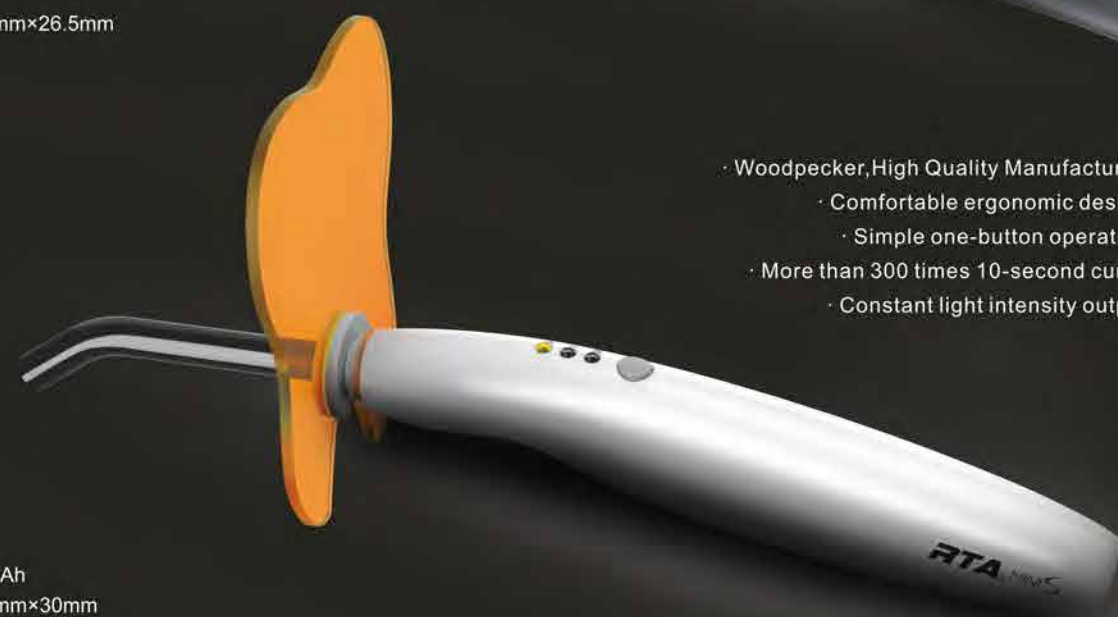
- Sealed, connect to dental unit.
- Time setting: 10s, 20s, 30s.
- Working mode: Full.



## MINI S Curing light

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

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



# LED.H ORTHO



**A TOUCH AND DONE, ALL FOR ORTHO.**



# LED.H | ORTHODONTIC EXPERT

## Rapid orthodontic 3 seconds for curing

Light intensity up to 1800mW/cm<sup>2</sup>, only 3 seconds to solidify the bracket.

## Beveled light guide

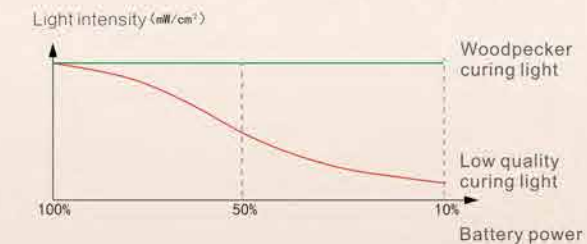
Easy to touch any part of teeth, radiate vertically at any angles, especially suitable for posterior teeth

## Continuous work time

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

## CONSTANT LIGHT INTENSITY

Tests have shown: curing light without constant light intensity will cause incomplete solidification to the bottom of resin when power drop to about 60%.



Constant light output. Solidification effect will not be affected by the consumption of remaining power.

For most curing lights on the market, light intensity obviously decreases with the consumption of remaining power



## 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

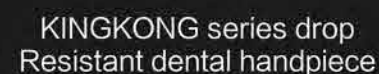


Woodpecker lithium battery with CB certification, more reliable, no explosion

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

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

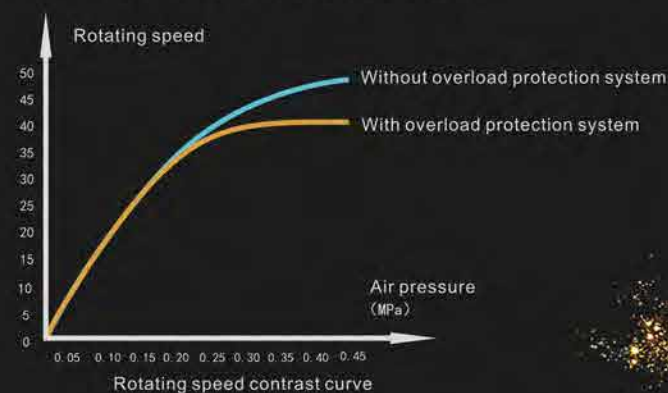




Thanks to the new optimized wind wheel and gas path design

Torque is up to **7.5gf.cm**, which has increased by **62.8%** compared to old type handpiece.

As a result, the cutting efficiency is increased by **94.6%**.



## Feature article of overload protection system

The new overload protection system can protect the handpiece from higher pressure, prolonging handpiece's life span.

Dentists do not need to frequently adjust the air pressure, which is more convenient and efficient.

Pull to red graduation :16N  
Pull to yellow graduation :20N  
Pull to green graduation :24N

### Non-spring structure axial core design

It has larger clamping force (which is up to 35N) compared to traditional spring structure axial core.

**It can grasp the niddle tighter**

It wouldn't be hard to uninstall the burs after intense cutting, making it more convenient to install and uninstall the burs.

## Cutting force raises 94.6%





# HP 33



## Anti-suction Sanitary Head System

Negative pressure tends to cause ingress of foreign substance such as flood and germs while the handpiece stopping rotating. Special wind wheel and head design prevents back suction whilst prevent foreign substance from getting into the core of machine, prolonging the service life of bearing.



## Strong enough clamping force

### Tighter needle grasping

Non-spring structure axial core design  
Stronger clamping force (up to 35N) enables tighter needle grasping  
It wouldn't be hard to remove after intense cutting, making it more convenient to install and uninstall the burs.  
The following figure shows three scales of clamping forces on the measuring tool  
Pull to red graduation: 16N  
Pull to yellow graduation: 20N  
Pull to green graduation: 24N



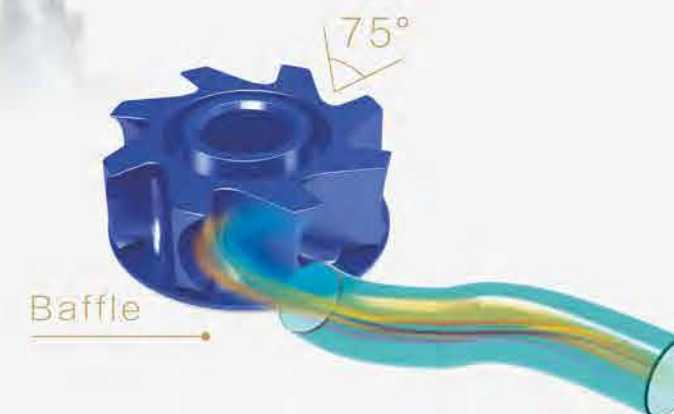
## Imported Germany ceramic bearing

Wear-resistant cage enables longer service life.



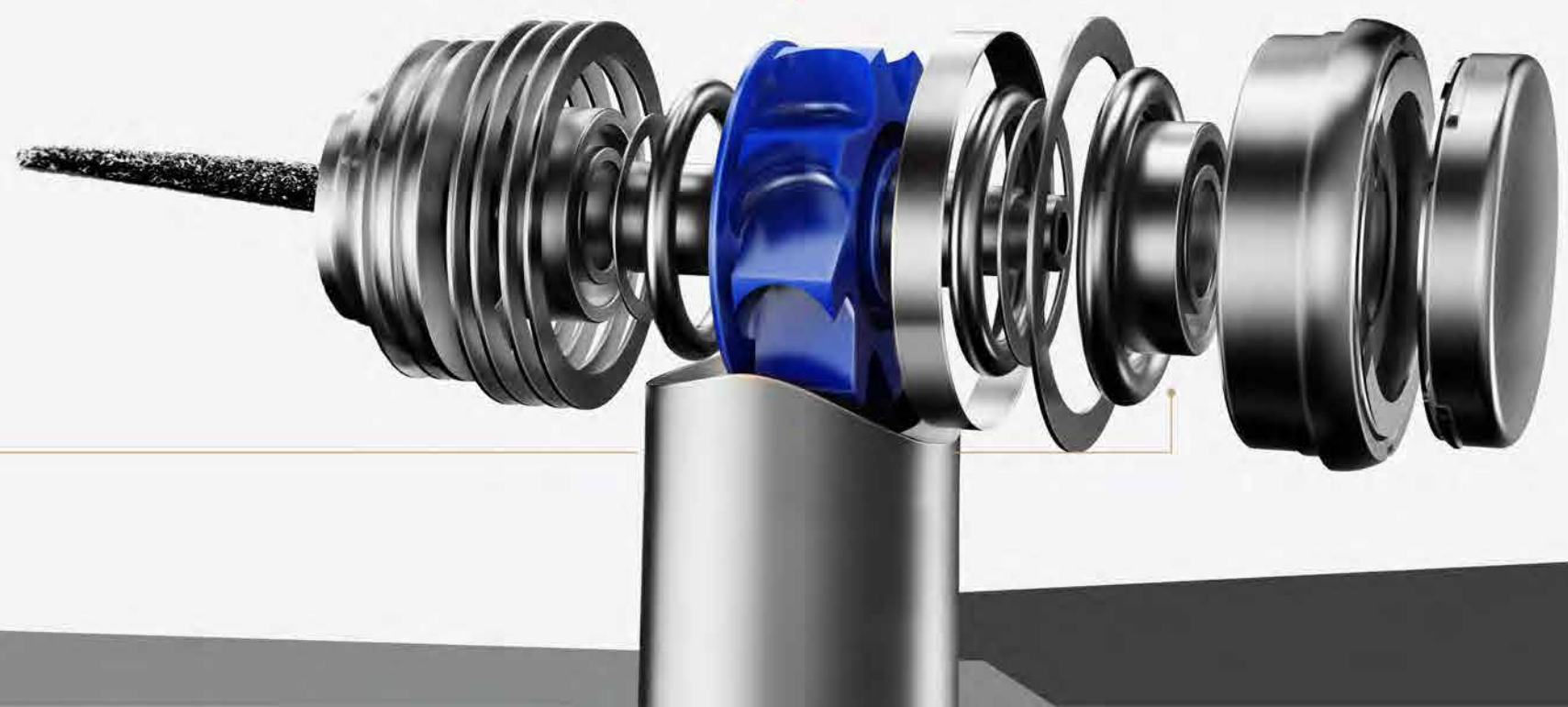
## Three-hole atomization Better cooling effect

Traditional single-hole handpiece cannot completely cool down for the limit of flow and angle. Especially for the deep-hole cutting such as pulp exposing, as the angle is limited, the cutting area cannot be cooled, which will burn the teeth tissue. Three-hole atomization handpiece takes the burr as axis to spray atomized water to the treatment area from various angles, wrapping the burr, reducing the risk of burn the teeth tissue during cutting process.



## High torque handpiece Easy cutting

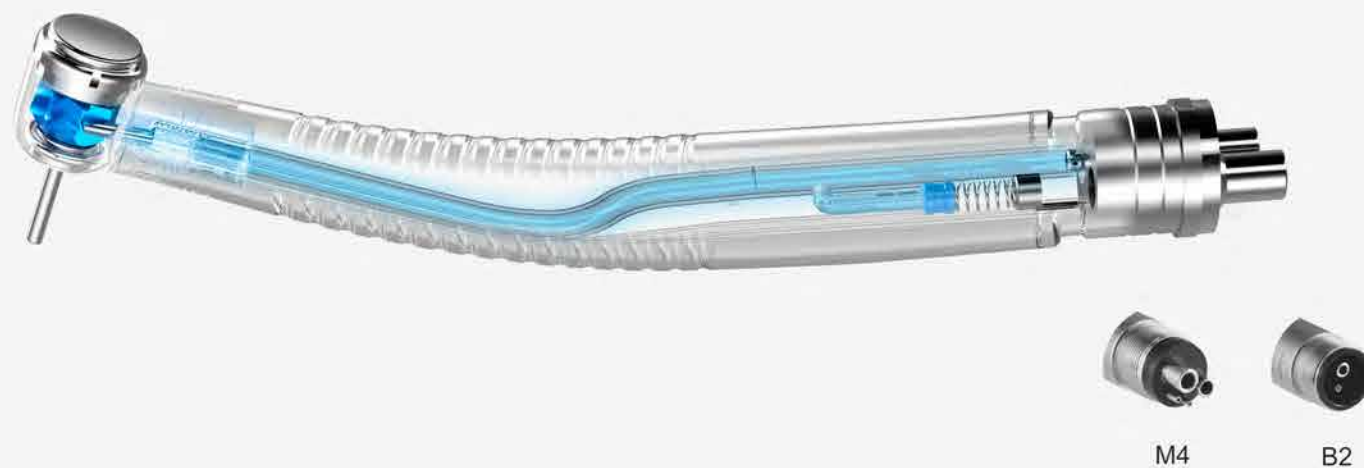
Use fluid analysis software to optimize intake pipe. The cast-in intake pipe inside head adopts circular cone shape pipe as a transition, realizing smaller air-resistance. Wind wheel with baffle endows venting with directionality. 75° wind wheel windward side design helps to efficiently captures the energy of compressed air, bringing higher efficiency.







Model	HP13-M4/B2	HP11-M4/B2	HL11-M4/B2
Type	Big head push type	Standard push type	Standard push type
Characteristics	Anti-suction system Single-hole atomization Strong cutting force	Small head with strong force Single-hole atomization Overload protection Tighter burr grasping	Standard head Single-hole atomization Strong cutting force Overload protection
Air pressure	0.25-0.27MPa	0.18-0.22MPa	0.18-0.22MPa
Water pressure	0.1-0.25MPa	0.1-0.25MPa	0.1-0.25MPa
Rotation speed	0.3-0.35 million rpm	0.36-0.43 million rpm	0.36-0.43 million rpm
Head height	13.4mm	13.1mm	12.0mm
Head diameter	Φ12.0mm	Φ11.2mm	Φ11.2mm
Noise	< 70dB	< 70dB	< 70dB



# Ultrasonurgery

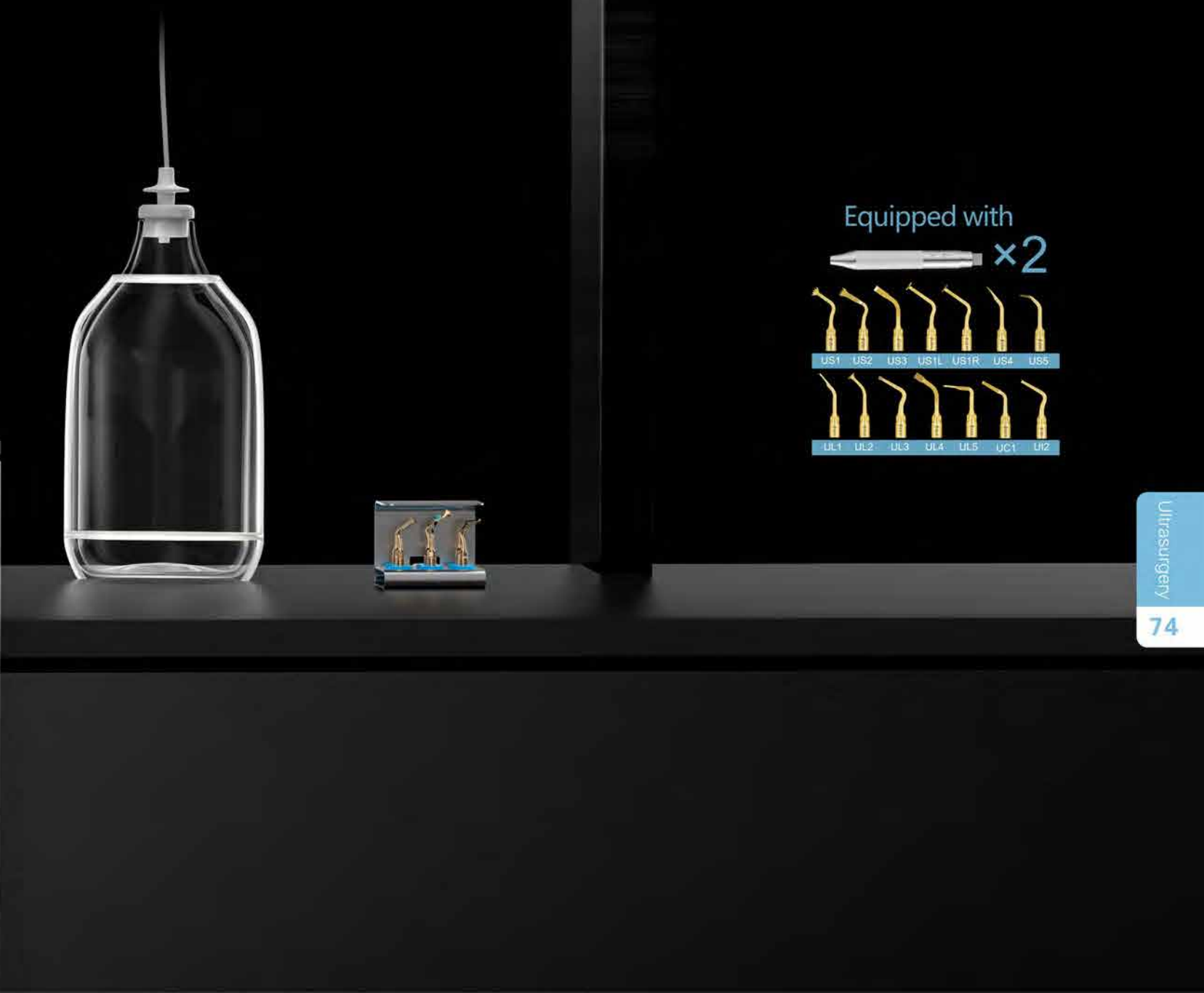
Your professional sugery assistant  
The world's leading expert in bone cutting efficiency





# Ultrasonography

Woodpecker core technology  
Reliable efficient cutting expert



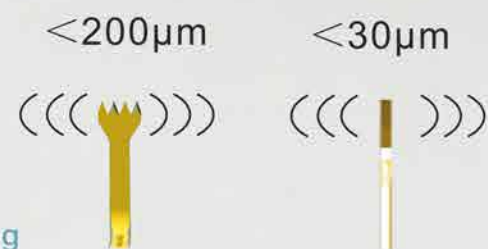
Equipped with  
x2

US1 US2 US3 US1L US1R US4 US5  
UL1 UL2 UL3 UL4 UL5 UC1 UC2





## Excellent Performance



## Minimally invasive cutting

Ultrasonography 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

## Without hurt to soft tissue

Selective cutting will not hurt soft tissue.

Ultrasonography vibrating frequency is 24 - 29.5KHZ which enables effectively cutting and reduces risk of hurting soft tissue.



## Stable and efficient cutting

Handpiece and tip are of the same vibration frequency, endowing stable and efficient cutting.

## 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

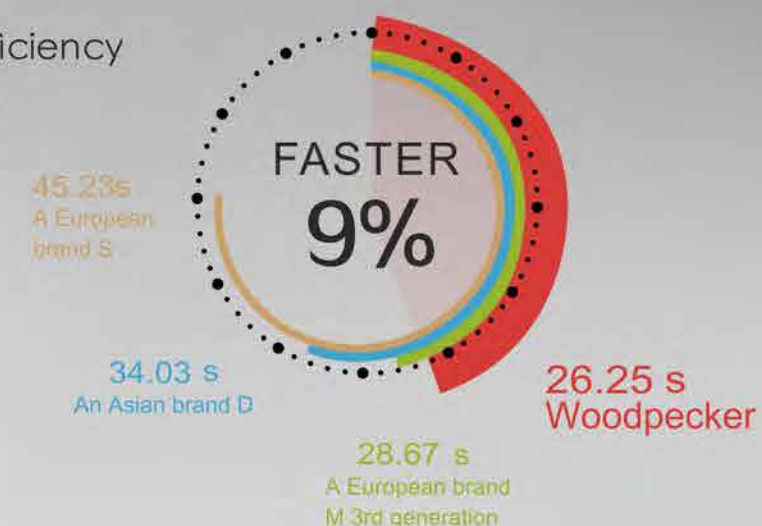
38 patents, 9 invention patents

15 years of R&D, 29 years' Ultrasonic Technology Professor

Exported to 89 countries, including Germany, Switzerland, Italy etc.



Comparison of cutting efficiency with other famous brands



## SAFE

Handpiece and pump line can burden UHT sterilization, to make sure the bacteria-free environment

## 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

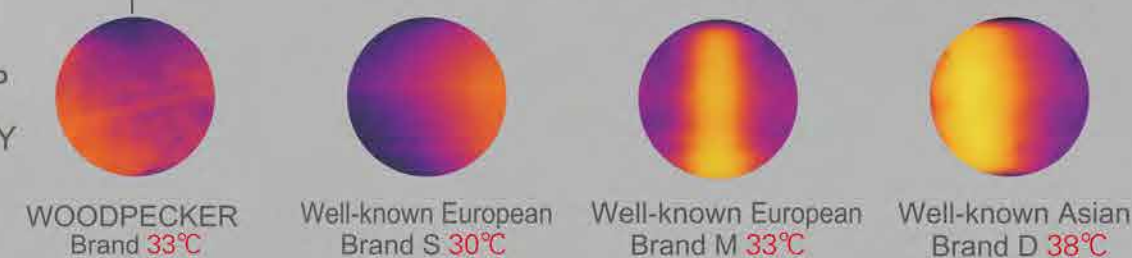


Micrometric cuts, Selective cuts, No harm to soft tissue



HIGHLIGHT LAMP  
CLEAR VISIBILITY

WORKING 10 MIN UNDER FULL POWER  
TEST THE TEMPERATURE OF HANDPIECES

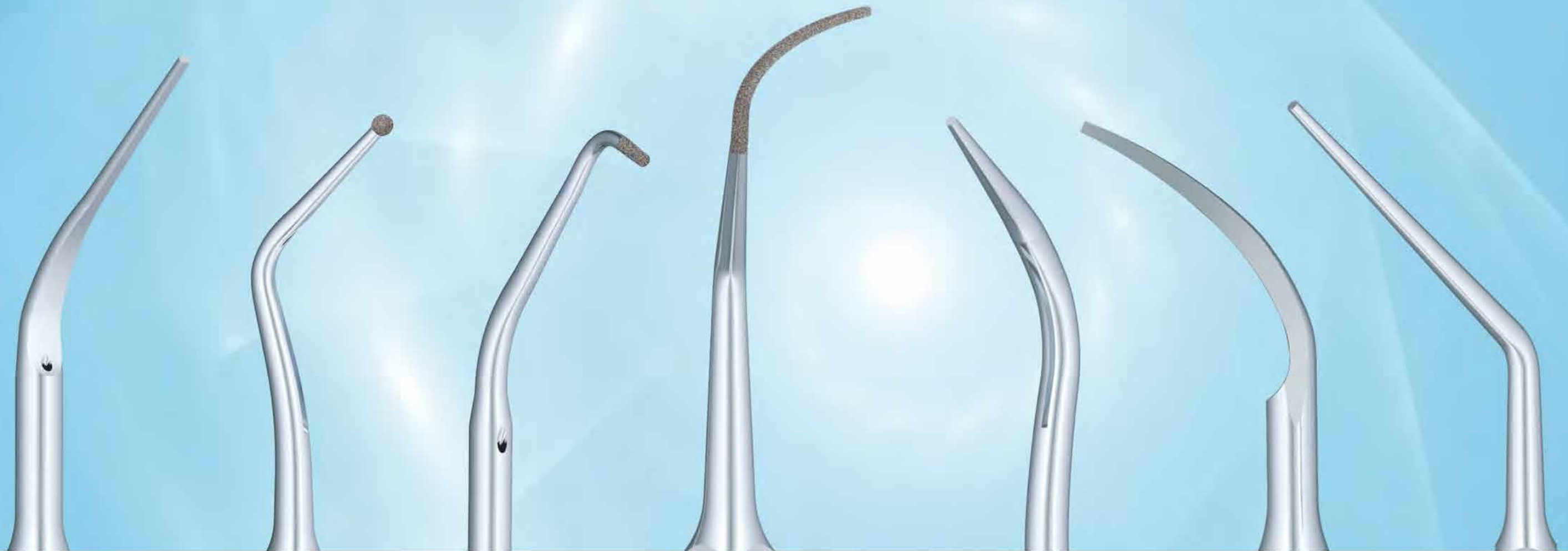


## Technical parameters

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




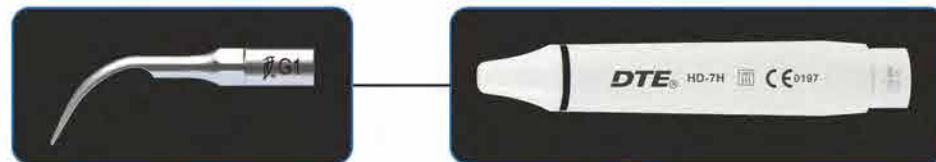
More powerful than you imagine




Please use the correct scaler tip



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

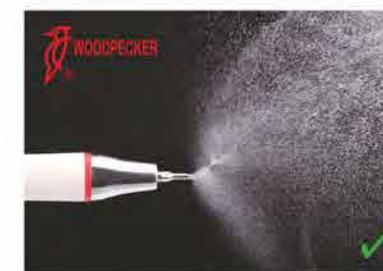


Tips marked with **DTE** connected to handpiece marked with  will lead to the same problem.

 These kinds of damages are not covered under warranty.



The comparison between  
Woodpecker tip and disposable tip made in China



Woodpecker tip spray evenly,  
effective cleaning and cooling



The water spray slanting more than 70% of  
disposable tip, unable to clean the teeth and  
cool the tip

The comparison between Woodpecker tip  
and disposable tip made in China



After 300 cycle sterilized,  
there isn't any rust on  
Woodpecker tip, No crack after  
working 1000 hours



Tips of poor quality start  
to be cracked after  
one-hour working,  
the cracking rate within 10  
hours is 35%.



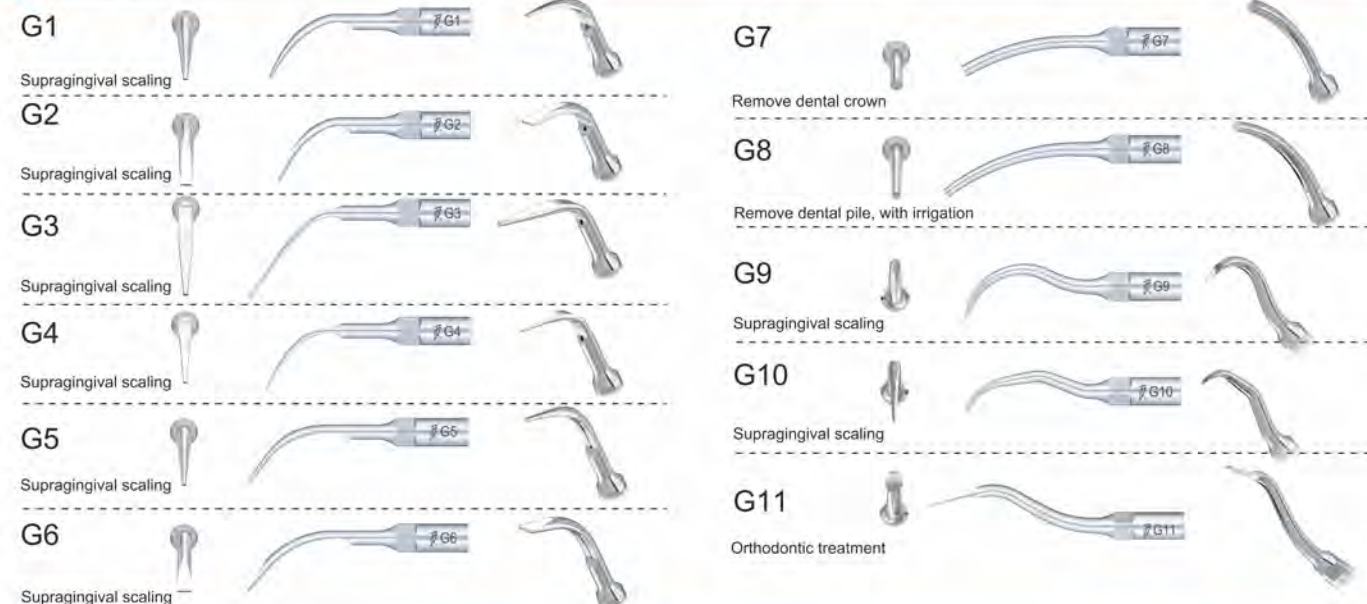
After working 6 minutes,  
Tips of poor quality started to  
crack, after 12 hours,  
all the tips are cracked

If the cracked tip were swallowed by patients, will cause serious medical accidents  
To guarantee the safety of you and your patients, please choose original Woodpecker tip

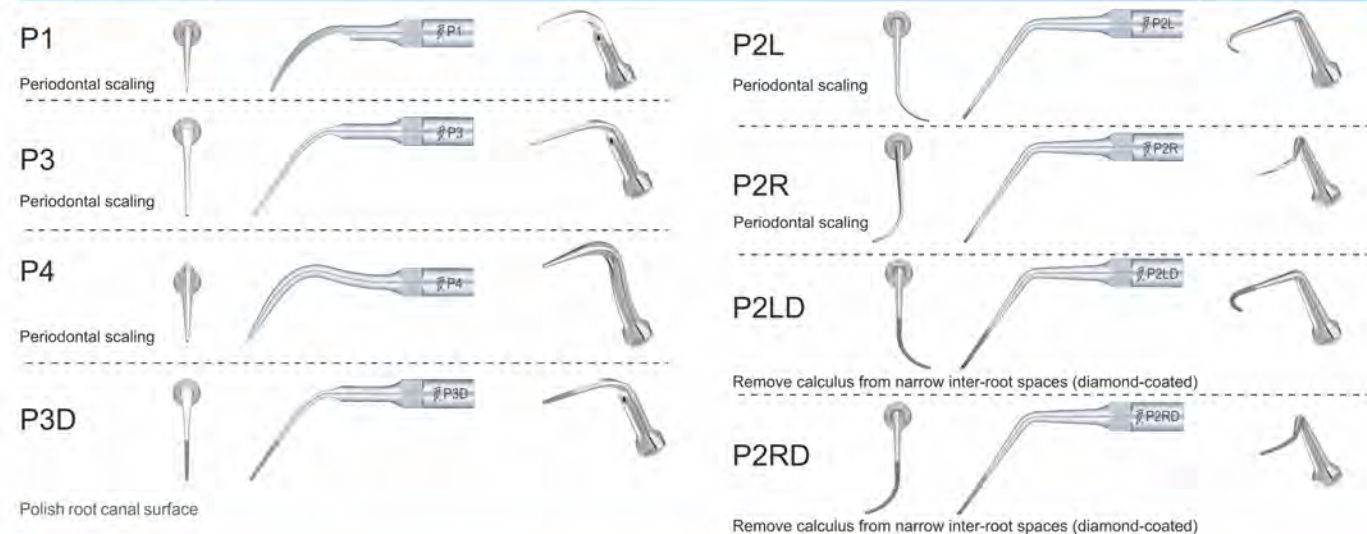
**Please choose authentic Woodpecker tips!**  
**Reject to use disposable tips of poor quality!**



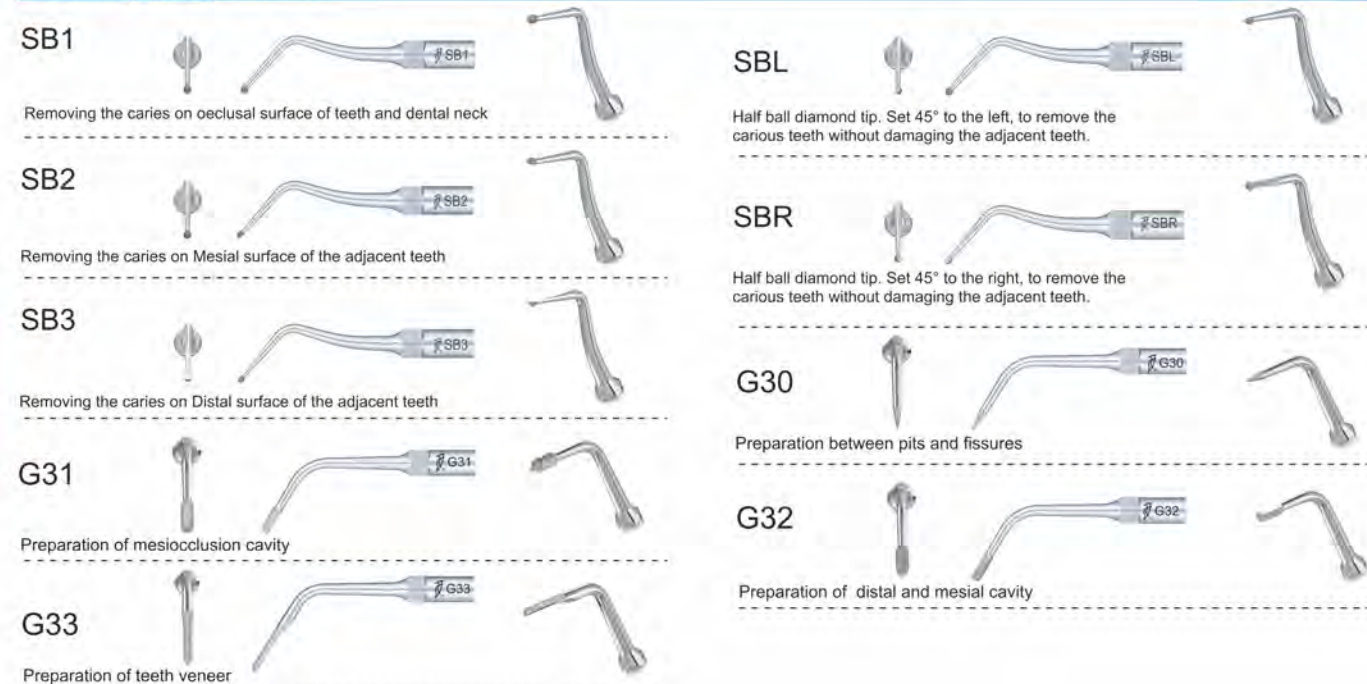
## Scaling



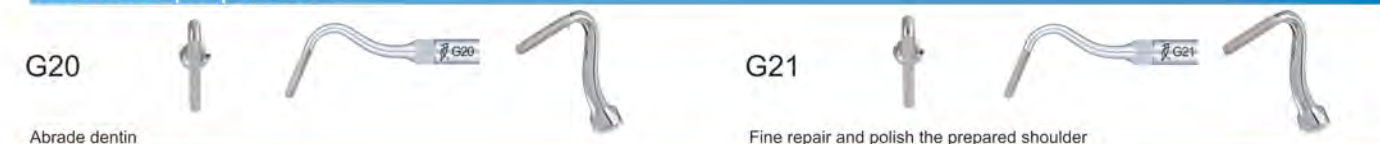
## Periodontics



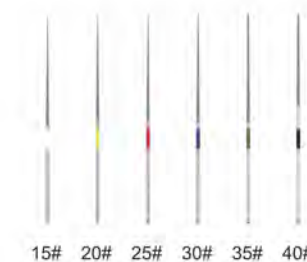
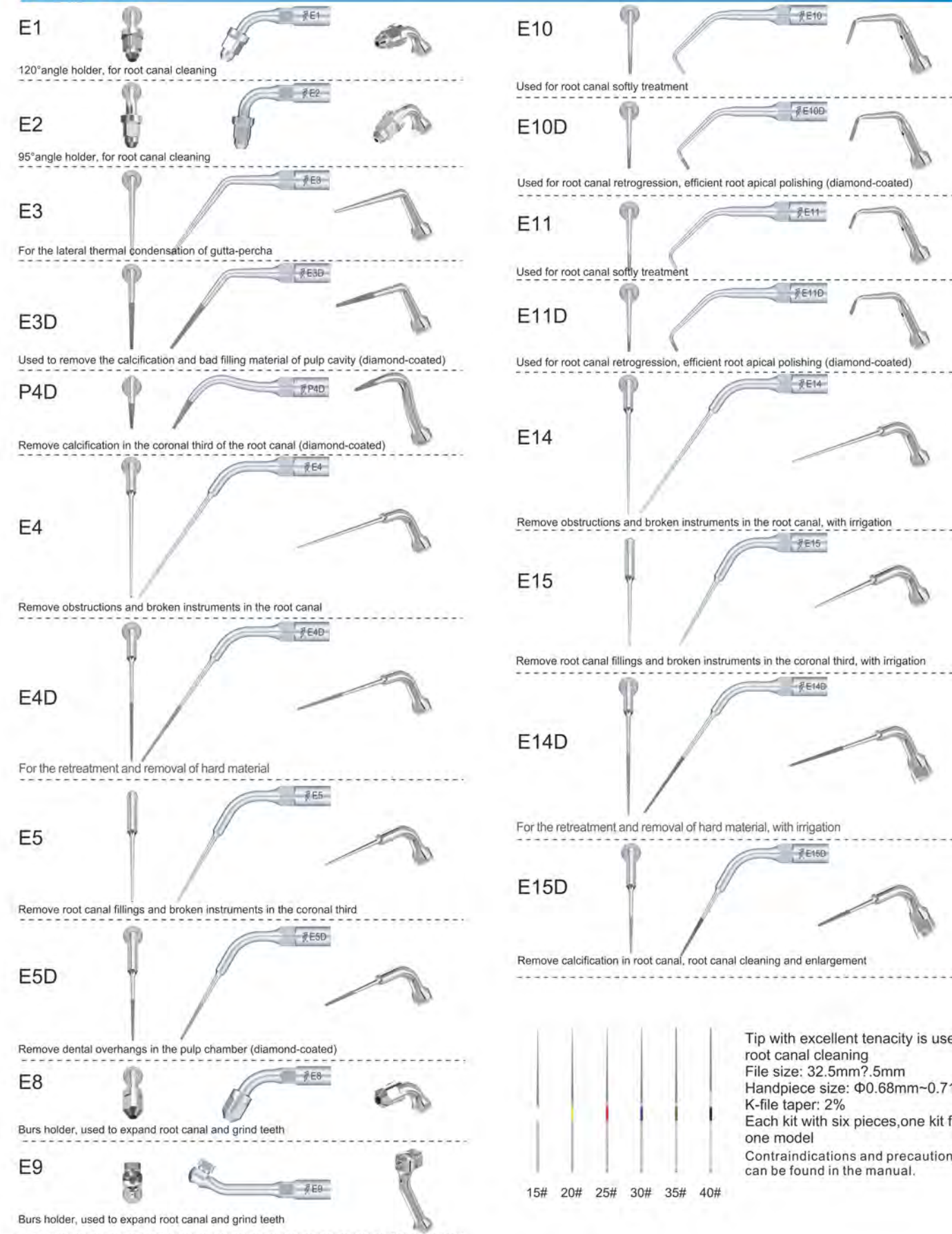
## Cavity preparation



## Shoulder preparation



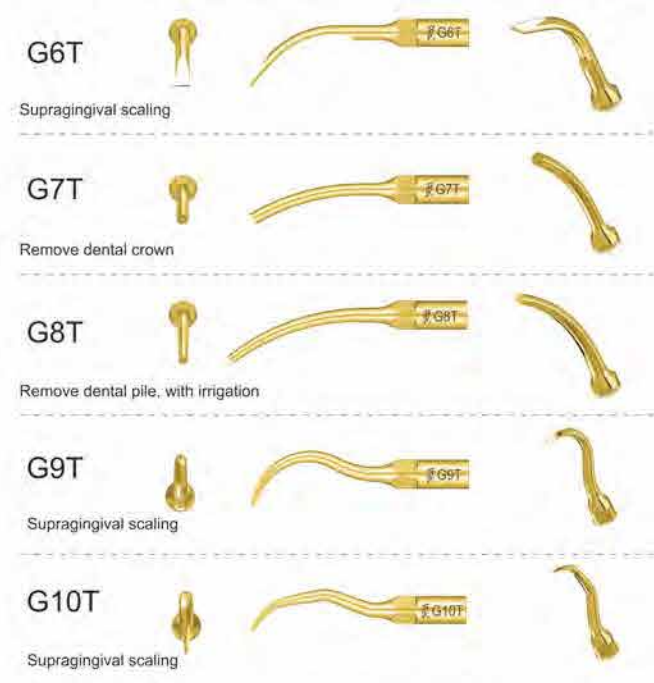
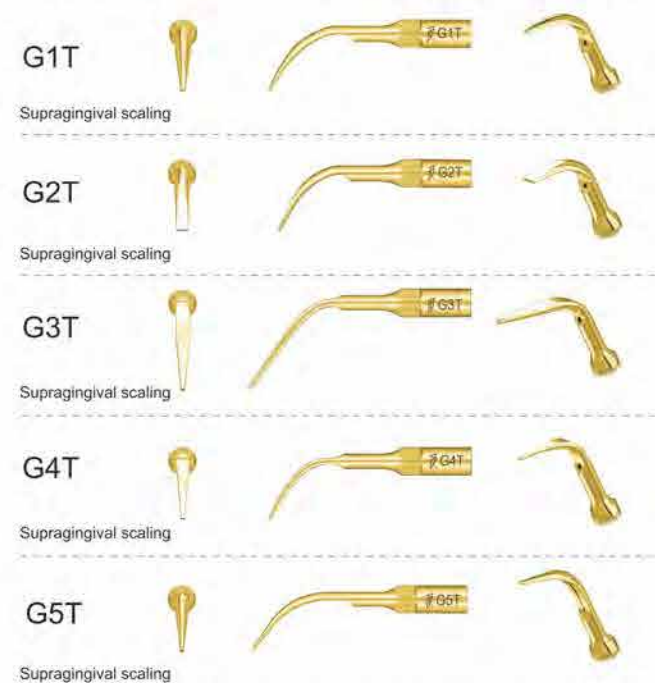
## Endodontics



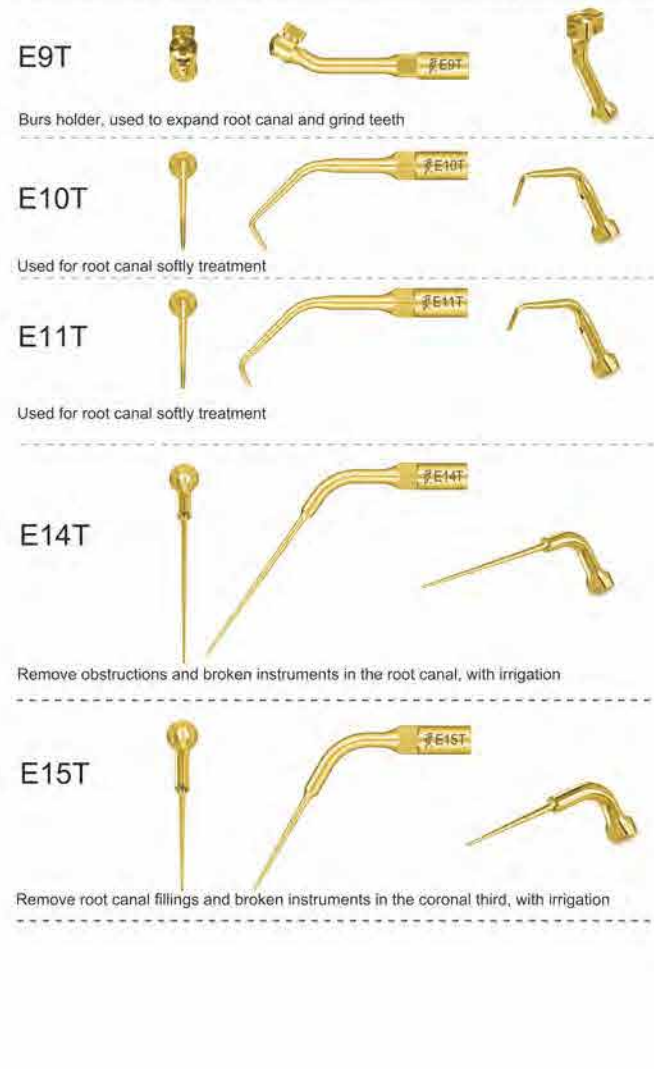
Tip with excellent tenacity is used for root canal cleaning  
 File size: 32.5mm $\times$ 2.5mm  
 Handpiece size:  $\Phi$ 0.68mm~0.71mm  
 K-file taper: 2%  
 Each kit with six pieces, one kit for one model  
 Contraindications and precautions can be found in the manual.



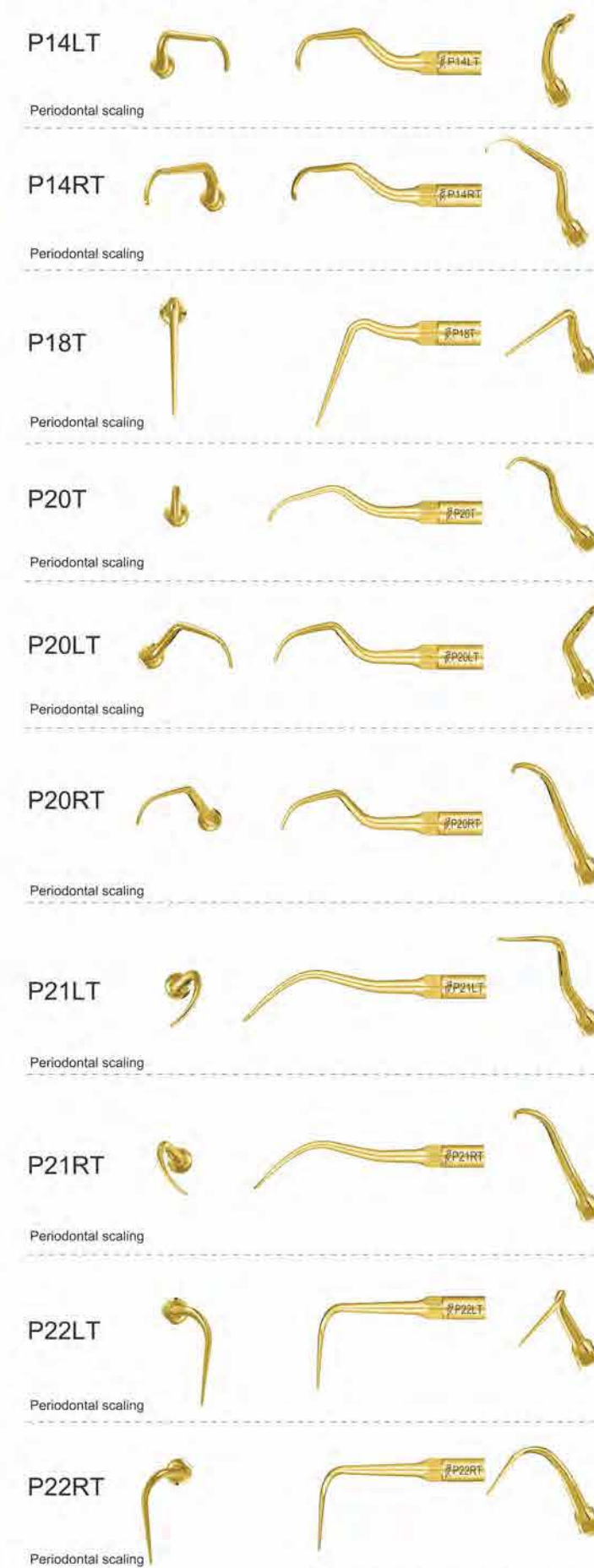
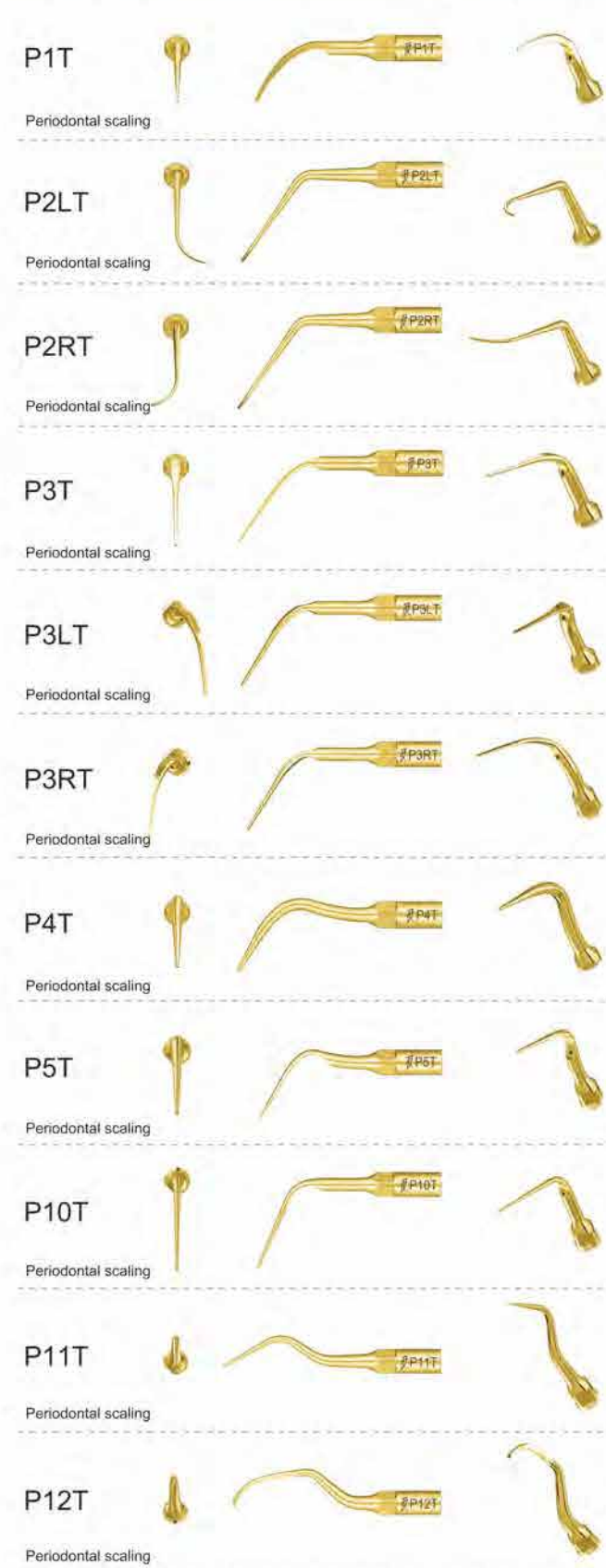
## Scaling



## Endodontics



## Periodontics *New!*





## Scaling (Used for SIRONA)



Supragingival scaling



Supragingival scaling



Supragingival scaling



Supragingival scaling



Supragingival scaling



Supragingival scaling



Remove dental crown



Remove dental pile, with irrigation

## Endodontics (Used for SIRONA)



120° angle holder, for root canal cleaning



95° angle holder, for root canal cleaning



For the lateral thermal condensation of gutta-percha



Used to remove the calcification and bad filling material of pulp cavity (diamond-coated)



Remove calcification in the coronal third of the root canal (diamond-coated)



Remove obstructions and broken instruments in the root canal



Remove root canal fillings and broken instruments in the coronal third



Burs holder, used to expand root canal and grind teeth



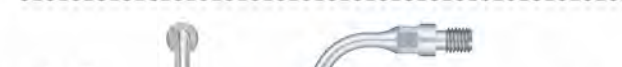
Used for root canal softly treatment



Used for root canal softly treatment



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



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

## Periodontics (Used for SIRONA)



Periodontal scaling



Periodontal scaling



Periodontal scaling



Smoothing restoration overhangs and debride in-depth root (diamond-coated)

## Scaling (Used for KAVO)



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Orthodontic treatment



Supragingival and subgingival scaling



Supragingival and subgingival scaling



Burs holder, used to expand root canal and grind teeth

## Periodontics (Used for KAVO)



Subgingival scaling

## Used for AMDENT



Supragingival scaling



Supragingival scaling



Supragingival scaling



## Bone surgery

US1

Osteotomy

US1L

Osteotomy

US1R

Osteotomy

US2

Osteotomy

US3

Osteotomy of precision in the thin 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 damage exelcymosis

UC3

Used for cutting ligaments, minimally damage exelcymosis

UC2

Used for cutting ligaments, minimally damage exelcymosis

## Implantation

UI1

Used for implant, with tip ball Φ1.6mm

UI2

Used for implant, with tip ball Φ2mm, irrigation from tip point

UI3

Φ2mm implant site preparation tip, irrigation from tip point.

UI4

Φ3mm implant site preparation tip, irrigation from tip point.

UI5

Φ2mm implant site preparation tip, irrigation from tip point.

UI6

Φ3mm 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 Φ1.6mm

UI9

Used for implant, with tip ball Φ2.8mm

## 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



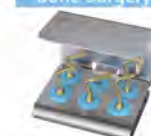
Include: US2/US3  
US4/US5/UC1

Sinus Lifting Kit



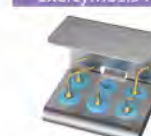
Include: UL1/UL2  
UL3/UL4/UL5

Bone Surgery Kit



Include: US1/US2  
US1L/US1R/US6

Exelcymosis Kit



Include: UC1/UC2  
UC3/UC2/UC3

Reversal Surgical Kit



Include: US4/UP2  
UP4/UP5/UP7

Endodontic Kit



Include: UE1/UE2  
UE3/UE4/UE4

Implantation Kit



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).



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).



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-1

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 ultrasonicsurgery



ULTRASURGERY handpiece: Cable and handpiece can be autoclaved together.

Spare parts for curing light

Old

New

### 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.

Optical fiber

Black and white optional  
Can be autoclaved under high temperature and high pressure

1#Dimensions: Φ8mm- Φ8mm / Φ5mm  
2#Dimensions: Φ8mm

1#Applicable for:  
LED.B, LED.C, LED.D, LED.F  
LED.G, LED.P

2#Applicable for: LED.H

Power supply

Power Input:  
AC100V-240V 50/60Hz

Power Output / Current:  
DC5.0V / 1.0A

Applicable for:  
LED.B, LED.C, LED.D  
LED.F,LED.H

Battery

①:ICR18490A  
Battery Voltage: 3.7V  
Applicable for: LED.C

②:ICR18490B  
Battery Voltage: 3.7V  
Applicable for: LED.D

③:ICR18650A  
Battery Voltage: 3.7V  
Applicable for: LED.F

④:ICR18650B  
Battery Voltage: 3.7V  
Applicable for: LED.H

⑤:ICR18650C  
Battery Voltage: 3.7V  
Applicable for: LED.B

1# 2# 3#

Light hood

Lightmeter

Bathymeter

Bleaching fiber for LED.F

LED lamp  
3W, 5W

Glasses