

DTE®



301 Patents; 60 invention patents; Exported to 133 countries

Choice of Millions of Dentists Worldwide



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2018 1.0 Edition

DTE

Far Ahead in Ultrasonic Scaler Production and Sales Globally
Leading of LED Curing Light Export Volume in China

29
YEARS
1989-2018

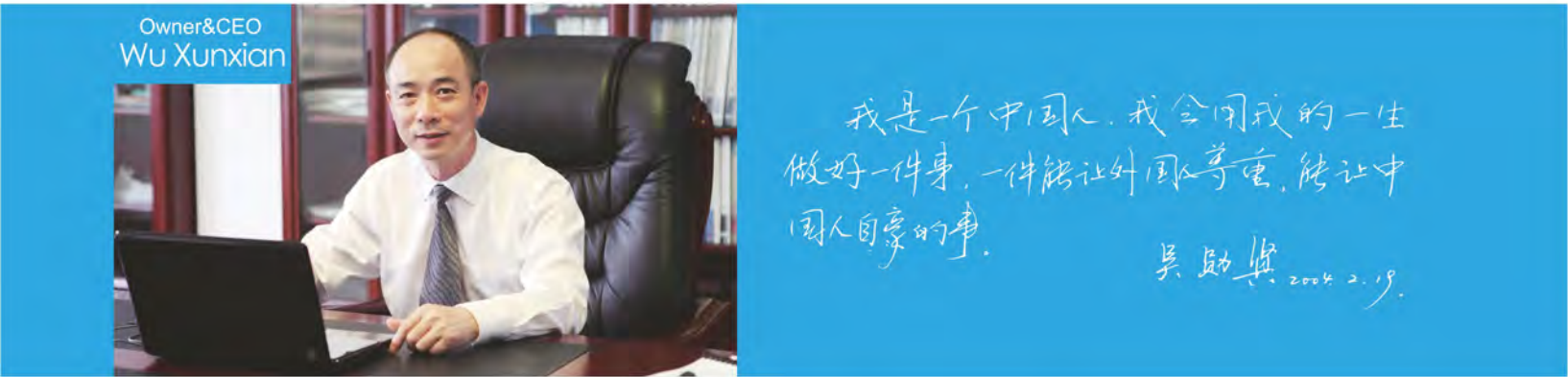
CATALOGUE

GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD.

DTE

National high-tech enterprise

Choice of millions of dentists worldwide



Introduction of Woodpecker Company

Concentration

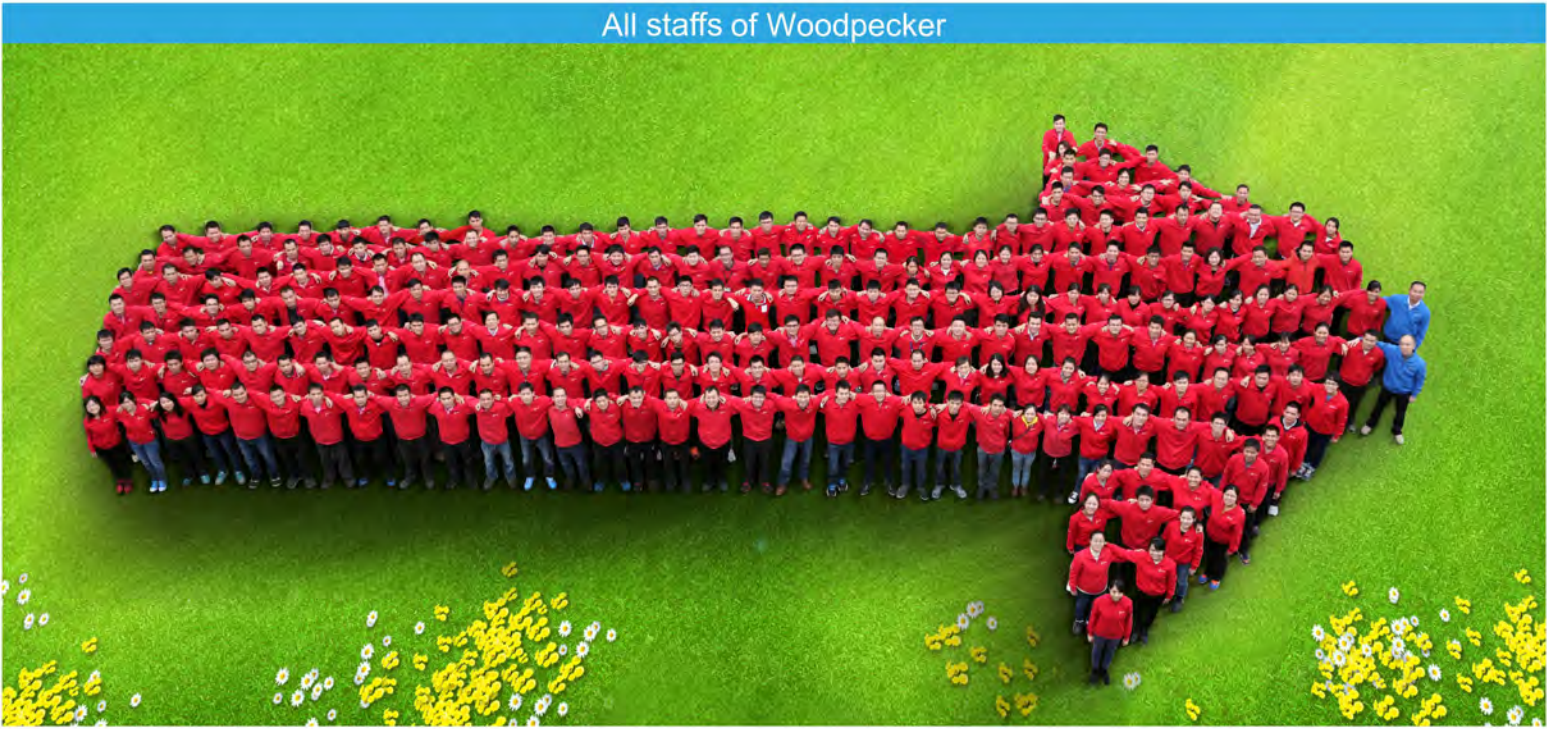
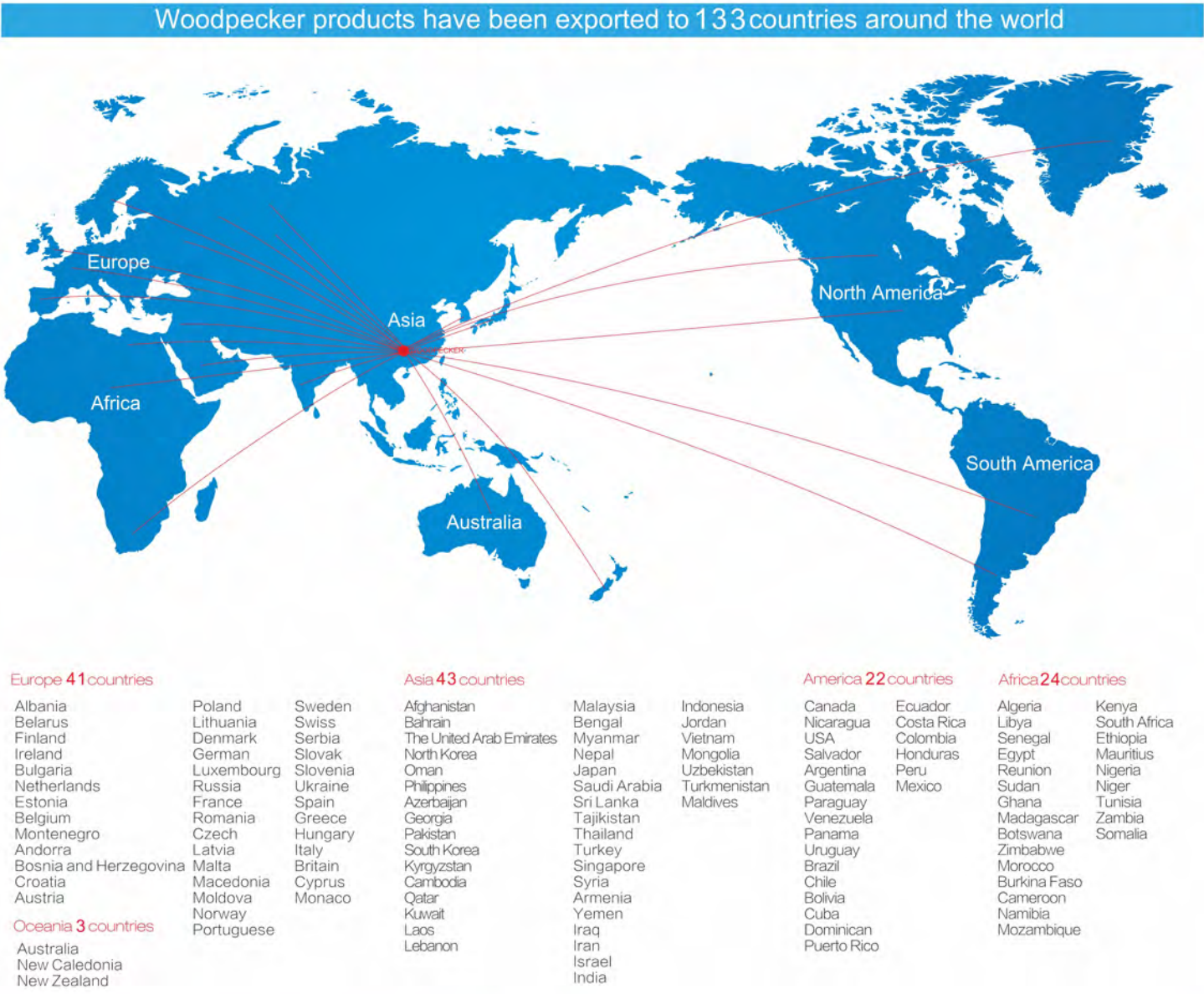
29 years of concentration on Dental Products R&D , 7 product categories, 85% domestic market share, and exported to 133 countries .

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 m² existing manufacturing and research base, 80000 m² base under construction. 27 million USD invested to build up full-automatic processing and testing center.



29 years' technical innovation

y
High – quality Durable Innovative

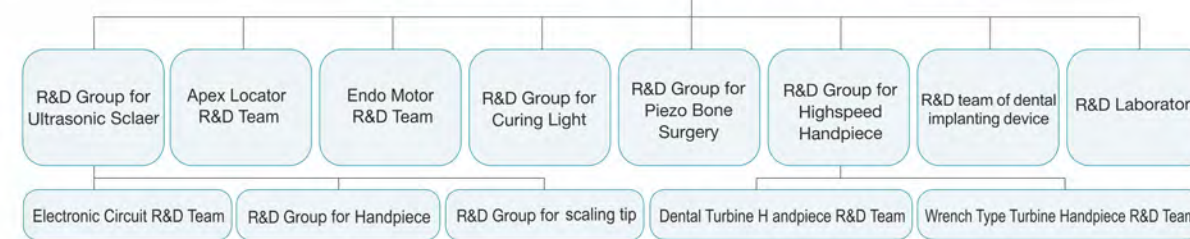
Experienced R&D team in dental instrument industry

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.

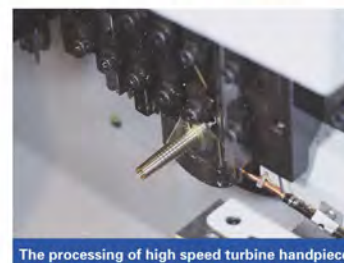
Woodpecker R & D center s structure



Advanced processing equipment in dental industry



The processing of core parts in handpiece



The processing of high speed turbine handpiece



The processing of Tips

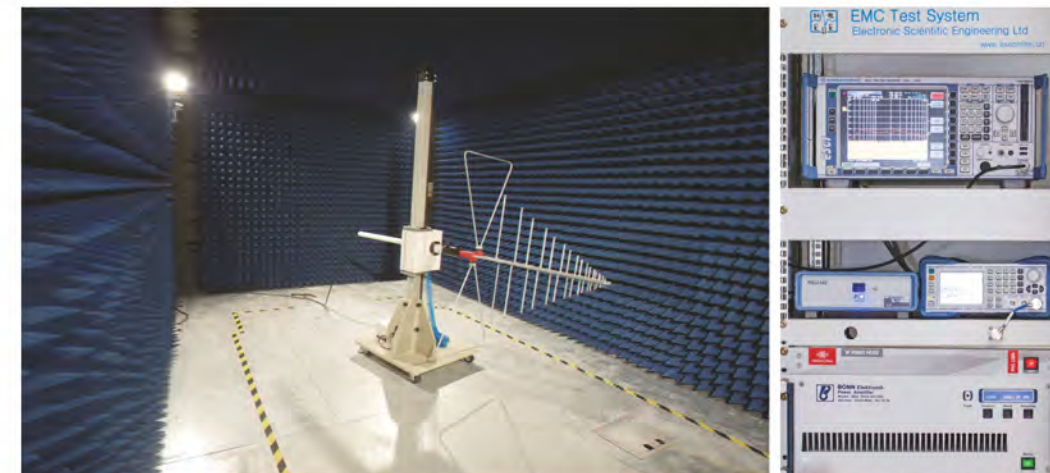
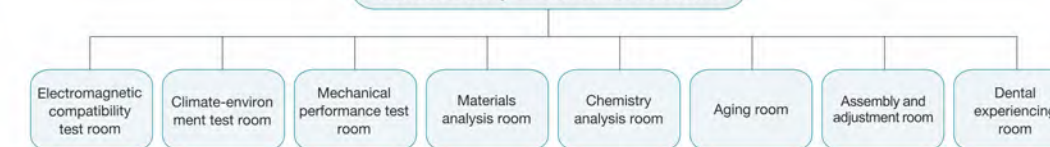
- Invest 21.3 million USD to the construction of CNC Center which occupies an area of 2300 m². Automatic processing equipment is imported from Japan.
- The production of every core part is supported by equipment which costs more than a million yuan.

Leading laboratory in dental industry

Occupy an area of 1280 m².

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.



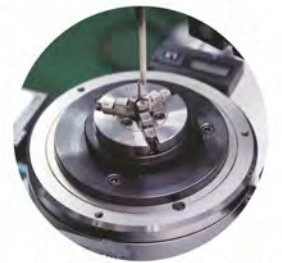
Mechanical Environmental Laboratory Simulate various extremely mechanical environments to ensure the quality of products.



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 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 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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WORLDWIDE LAUNCHING — *PT 3*

PIEZOELECTRIC CERAMICS PAINLESS PERIODONTAL TREATMENT DEVICE

18 invention patents 116 national patents

29 years of research on ultrasonic scaling



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

Easy to change water
Hydrogen peroxide, sodium hypochlorite,
and chlorhexidine is usable
Clear 20ml scale mark makes it convenient for matching 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 20-60µm,
which is equivalent to 1/3 of the diameter of a hair.
Achievements of many years Painstaking research,
For the comfort of your escort.

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 designEquipped with two professional
disinfection kits**Treatment effect:****Before treatment****Under treatment****After treatment****One month later****PT 3 main specifications:**

Frequency: 28000Hz

Tips hardness: 30HRC

Vibration amplitude: 20~60µm

Treatment depth: 14mm

Equipped with: 2 handpieces+10 tips

Save scaling

Tip amplitude is about 20–60 μm, 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

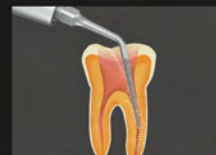
Piezoelectric Ceramics Painless Periodontal Treatment Device

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)

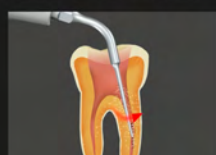


Looking for root canal orifice
(E12D)



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



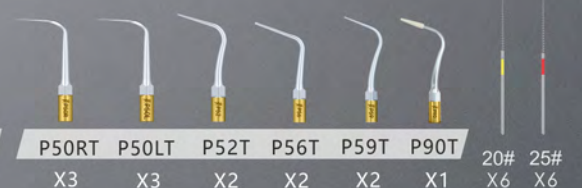
Main specifications:

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 μ 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 !



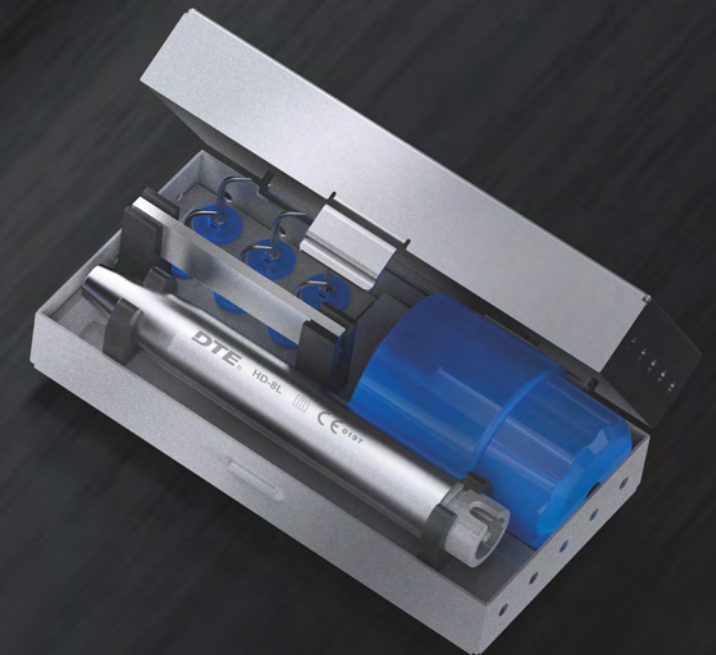
D600 Ultrasonic Scaler

Intelligent power output Experience painless treatment

29 years innovation

Professional scaler manufacturers

Woodpecker scaler owns **103** national patents **9** national invention patents

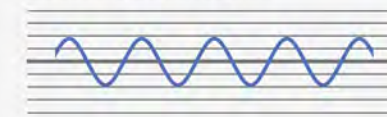




Sine wave drive

Avoid pain caused by power surge;
ensuring comfortable treatment.

D600 Mild power output



Intelligent touching system

Clear control panel
Ultra-sensitive
Waterproof design



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



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.

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.

D600 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.

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

D600 Your Solid Choice



- > Standard configuration tips
- PD1 PD3 PD4 ED62 ED6 GD4 GD5 GD30 PD3D PD4D
- > High configuration tips (two in each tip below)
- PD1 PD3 PD4 ED62 ED6 GD4 GD5 GD30 PD3D PD4D



D7-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: 241mmX193mmX97mm



Expert in endodontic irrigation



D5-LED

Detachable handpiece with light enables better visibility.
Handpiece 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



Voltage input: ~220V 50Hz
Main unit input: ~24V 50Hz 1.3A
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.65kg
Transformer weight: 1kg
Dimensions: 188mm × 159mm × 81mm



D3-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
Main unit input: ~24V 50Hz 1.3A
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.66kg
Transformer weight: 1kg
Dimensions: 198mm × 134mm × 80mm



D2-LED

Built-in power supply; automatic frequency tracking system enables stable performance
Microcomputer control; easy and high efficiency operation
Silicone sleeve of handpiece can be autoclaved to avoid cross-infection

- Scaling
- Perio
- Handpiece with LED



Voltage input: ~220V 50Hz
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 1.56kg
Dimensions: 227mm × 158mm × 75mm



D1

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

- Scaling
- Perio



Voltage input: ~220V 50Hz
Main unit input: ~24V 50Hz 1.3A
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.62kg
Transformer weight: 1 kg
Dimensions: 203mm × 138mm × 94mm



D6-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.

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



Voltage input: 220 – 240V~ 50Hz/60Hz 150mA
Main unit input: 24V~ 50Hz/60Hz 1.3A
Output power: 5V~ 50Hz/60Hz 200mA
Frequency: 3W~20W
Water pressure: 28kHz ± 3kHz
Main unit weight: 0.1bar~5bar (0.01MPa~0.5MPa)
Transformer weight: 1kg
Dimensions: 193.5mm x 133mm x 75.8mm



V3 LED

Detachable handpiece with light
Integrate scaling, Endo, and Perio function into a whole.
Microcomputer control and automatic frequency tracking
Automatic degenerative feedback and constant power output brings more comfortable scaling.

Main unit input: ~24V 50Hz
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.2kg
Dimensions: 74mm x 56mm x 38mm



V3 Match detachable handpiece HD – 7H
V3 LED Match detachable handpiece HD – 7L

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

V2 LED

Detachable handpiece with light
Microcomputer control and automatic frequency tracking
Automatic degenerative feedback and constant power output brings more comfortable scaling.

Main unit input: ~24V 50Hz
Output power: 38VA
Frequency: 28kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.2kg
Dimensions: 74mm × 56mm × 38mm



V2 Match detachable handpiece HD - 7H
V2 LED Match detachable handpiece HD - 7L

V1

Sealed handpiece;
Microcomputer control and automatic frequency tracking
Automatic degenerative feedback and constant power output brings rather comfortable scaling.

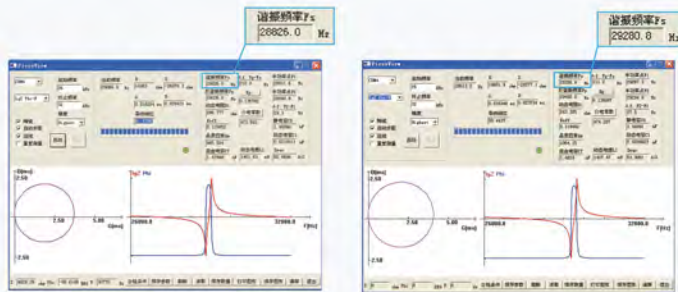
Main unit input: ~24V 50Hz
Output power: 38VA
Frequency: 30kHz ± 3kHz
Water pressure: 0.1bar~5bar (0.01MPa~0.5MPa)
Main unit weight: 0.2kg
Dimensions: 74mm × 56mm × 38mm



V1 Match detachable handpiece HD - 7L

Compatibility of tip

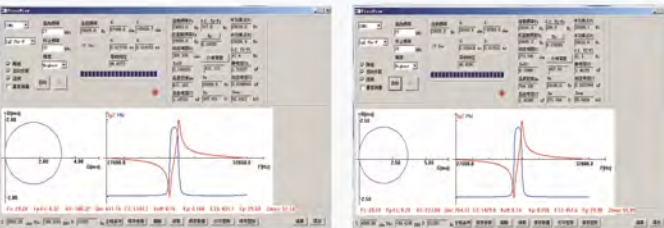
The working frequency range of Swiss E brand: < 32000Hz



Woodpecker tip can perfectly match E brand scaler

Compatibility of handpiece

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

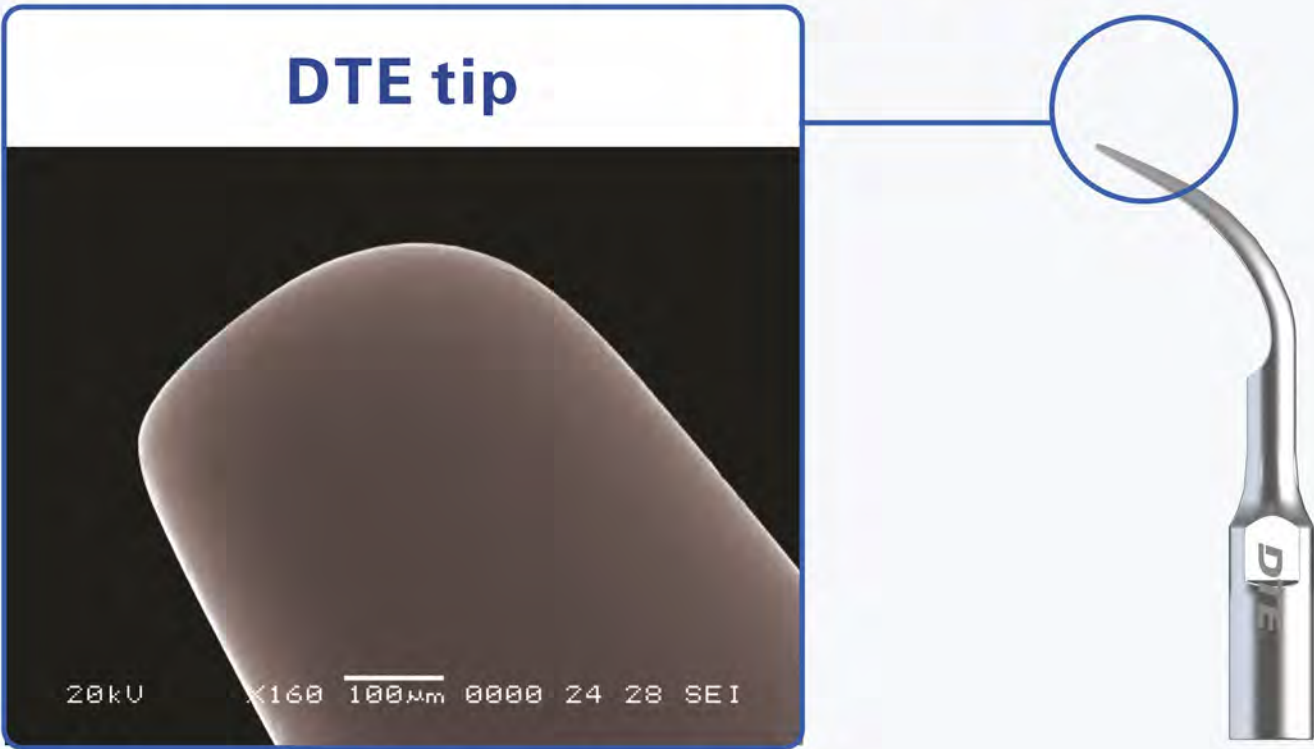


Technical data of Woodpecker handpiece is the same as that of E brand.
Handpiece of both brands can be exchanged.

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

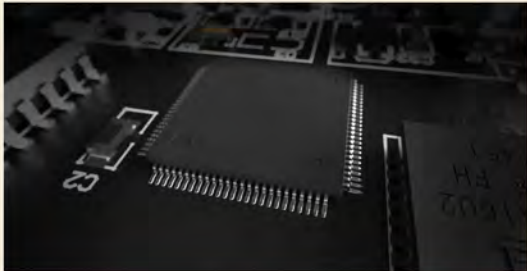
DPEX III GOLDEN STANDARD

25 National Patents 8 Invention Patents

Clinical data matching,
The accuracy rate has been improved to

97.71%

Upgraded chip, real-time response, the sensitivity has been improved double
Innovative algorithm, multi-frequency measurement, and anti-interference.



THE ACCURACY CONTRAST AMONG
DTE, AMERICAN BRAND D AND
JAPANESE BRAND S

Method: Prepare 97 teeth of pulpitis and apical paradentitis, total 175 root canals. After finishing the initial root canal preparation, use the Apex Locators of DTE, American brand D and Japanese brand S respectively to measure the length of root canals, and combine the X-Ray film to test, finally compare the accuracy of the three types of Apex Locators.

Group	QTY of tested root canal	QTY of accurate results	Accuracy Rate
DTE	175	171	97.71%
American brand D	175	171	97.71%
Japanese brand S	175	171	97.71%

Cited Reference: Gu Yuan Ping
In vivo accuracy of three electronic root canal length measurement devices: Dentaport ZX, Woodpex III and ProPex II

DPEX III

- LCD screen, the trajectory of the file can be clearly shown with different colors.
- Multi-frequency apical positioning technology, avoiding the influence of subjective factors for measurement results.
- Measurement results will not be affected by tooth type, root canal internal environment.
- Rechargeable lithium battery.
- Adjustable viewing angle.

DPEX I

- Clear Image.
- Multi-frequency apical positioning technology, avoiding the influence of subjective factors for measurement results.
- Adjustable viewing angle.



Battery	3.7V/750mAh
Power consumption	≤0.5W
Screen	4.5"LCD
Main unit weight	385g
Dimensions	138mm×77mm×107mm

Industrial design patent No.:CN 201130378913.4

Battery	3 piecesAAA alkaline batteries
Power consumption	≤0.3W
Screen	4.9"LCD
Main unit weight	395g
Dimensions	105mm×142mm×40mm

Industrial design patent No.:CN 201130378728.5

Minipex Apex Locator

COMBINATION OF TECHNIQUE AND ART

QUALITY AND BEAUTY COEXIST

Apex Locator

33



Apex Locator

34



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

Apex Locator

35



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



Apex Locator

36

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



Endo Radar

Power of technology

Endo Motor

37



Endo Motor

38



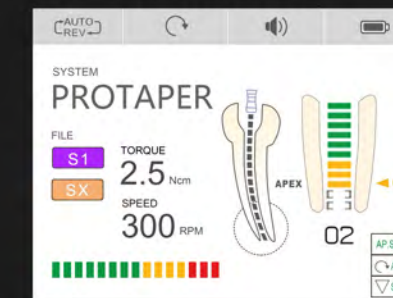
Endo Radar

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
 AUTO Auto Start
 BLD Auto Apical Slow-down

WIRELESS CHARGING

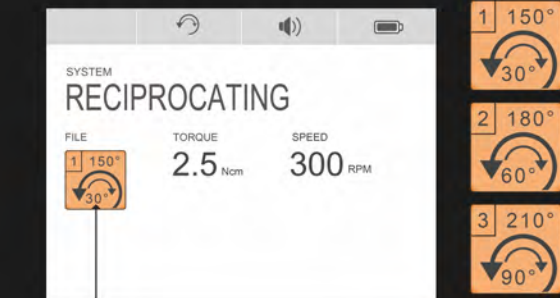
Non-contact, reliable

Intelligent charging mode: without adapter



RECIPROCATING MODE

Accurate angle control



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

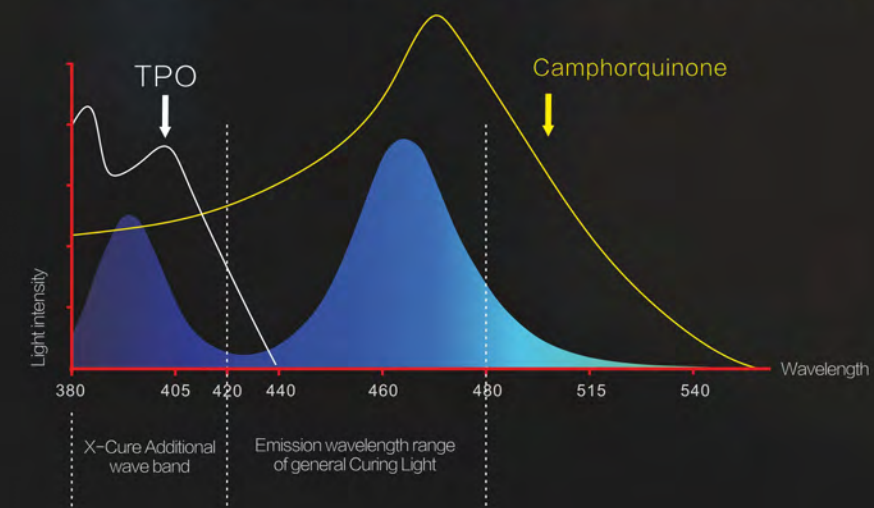
Wide Spectrum Curing Light

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/cm² light intensity under High Mode.
Optical light guide brings maximum 3000 mw/cm² 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/cm²

CURING LIGHT

iLed

Cure 2mm resins in one second

light intensity up to **2300 mw/cm²**

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 ² ~2300mw/cm ²
Net weight	278g
Dimensions:	25mm×25mm×240mm

3 SECONDS FOR CURING

Up to 1600mW/cm²
HIGH INTENSITY

LUX E

- Especially suitable to solidify agglomerant of orthodontic bracket, veneer and post.
- Wireless. The battery can be replaced.
- Three working modes: Low, Middle, High.
- Constant light intensity. The solidification effect is not affected by the consumption of remaning power.
- 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 70 days' standby time.



Industrial design patent No.:CN 200930321063.7

Power input	AC100V to 240V 50Hz/60Hz
Light output	800mW/cm ² -1600mW/cm ²
Net weight	141g
Dimensions	260mmX40mmX50mm

LUX V

- Large capacity battery. A full charge can be used for more than 300 times continuously under 10s working time mode.
- Low standby power consumption with twenty days' standby time.
- Constant light intensity. The solidification effect is not affected by the consumption of remaining power.
- Power indicator.
- Suitable for both right or left hand operation.



Industrial design patent No.:CN 201130028451.3

Power input	AC100V to 240V 50Hz/60Hz
Light output	1000mW/cm ² -1200mW/cm ²
Net weight	85g
Dimensions	263mmX31mmX23.5mm

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.

NEW



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



Curing light
51

Curing light
52

EXPERT IN LED CURING LIGHT !
14 years professional technology,
41 patents,8Invention Patents
Global sales over 600,000 units !

LUX VI

- Ergonomic design, small and convenient
- Special light hood and holder design, high-effectively filtering light
- Three working modes: Full, Ramping, Pulse.
- Time setting: 5s, 10s, 15s, 20s
- A full charge can be used for over 300 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.



Optional colors



Industrial design patent No.: CN 201230421494.2

Power input	AC100V to 240V 50Hz/60Hz
Light output	1000mW/cm ² - 1200mW/cm ²
Net weight	100g
Dimensions	234mmX26mmX26mm

LUX I

- 220 degrees head rotation.
- Disposable sleeve: Save autoclaving time.
- Easy-to-change battery.
- Automatic memory. Avoid setting frequently.
- Stable output of light intensity, the solidification effect is not affected by the consumption of remaining power.
- Efficient transfer from electricity into light. A full charge can be used more than 400 times continuously under 10s working time.

Industrial design patent No.: CN 201230045664.1

Power input	AC100V to 240V 50Hz/60Hz
Light output	850mW/cm ² - 1000mW/cm ²
Net weight	230g
Dimensions	79.5mmX79.5mmX261mm



LED.H ORTHO

A TOUCH AND DONE, ALL FOR ORTHO.



A TOUCH AND DONE, ALL FOR ORTHO.

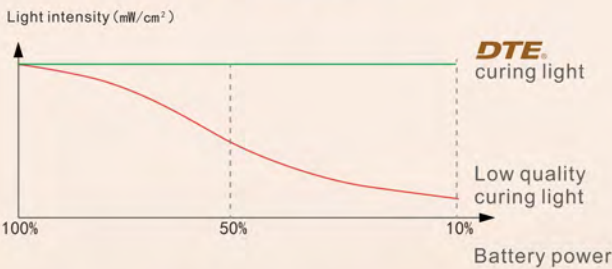
LED.H | ORTHODONTIC EXPERT

Rapid orthodontic 3 seconds for curing
Intensity light 1,800mW/cm², 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.

CONSTANT LIGHT



⚠ 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



DTE 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



DTE lithium battery with CB certification, more reliable, no explosion
Batteries on the market without sound charge management, 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.giwoodpecker.com), click on video and watch Battery High Temperature Test.



KINGKONG series drop
Resistant dental handpiece

MORE POWERFUL AND MORE EFFICIENT

Thanks to the new optimized wind wheel and gas path design

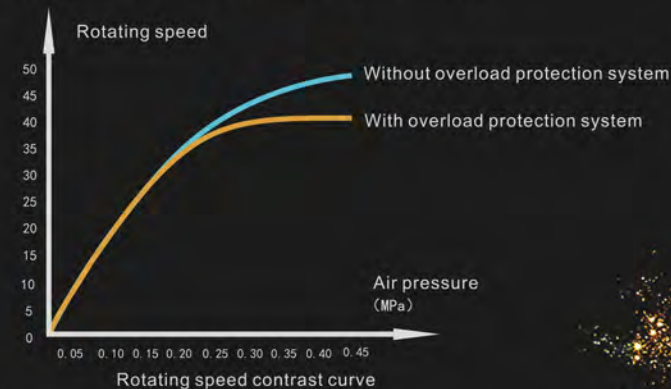
Torque is up to **7.5gf.cm**, which has increased by **62.8%** compared to old type handpiece.

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

OVERLOAD PROTECTION SYSTEM



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.

AXIAL CORE WITH BIGGER CLAMPING FORCE



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

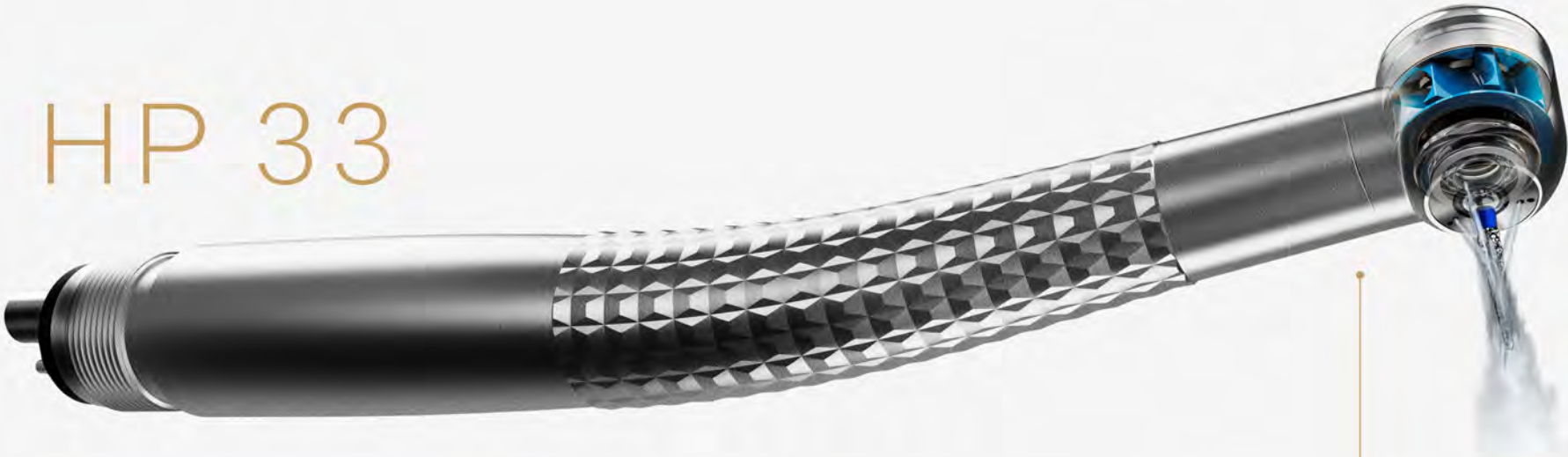
It wouldn't be hard to uninstall the burs after intense cutting,
making it more convenient to install and uninstall the burs.

THE CHAMPION AMONG EXCELLENCES

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



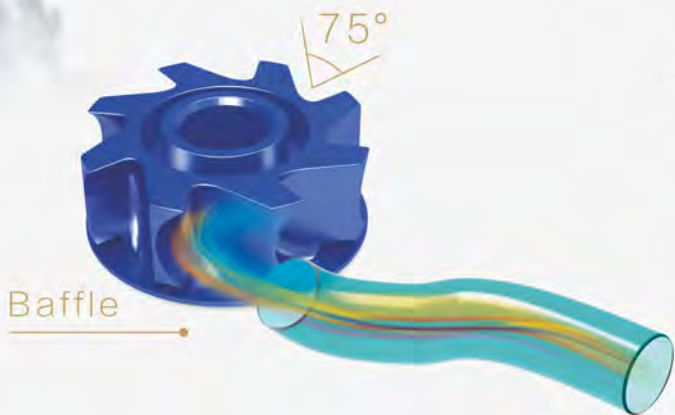
Imported Germany ceramic bearing

Wear-resistant cage enables longer service life.



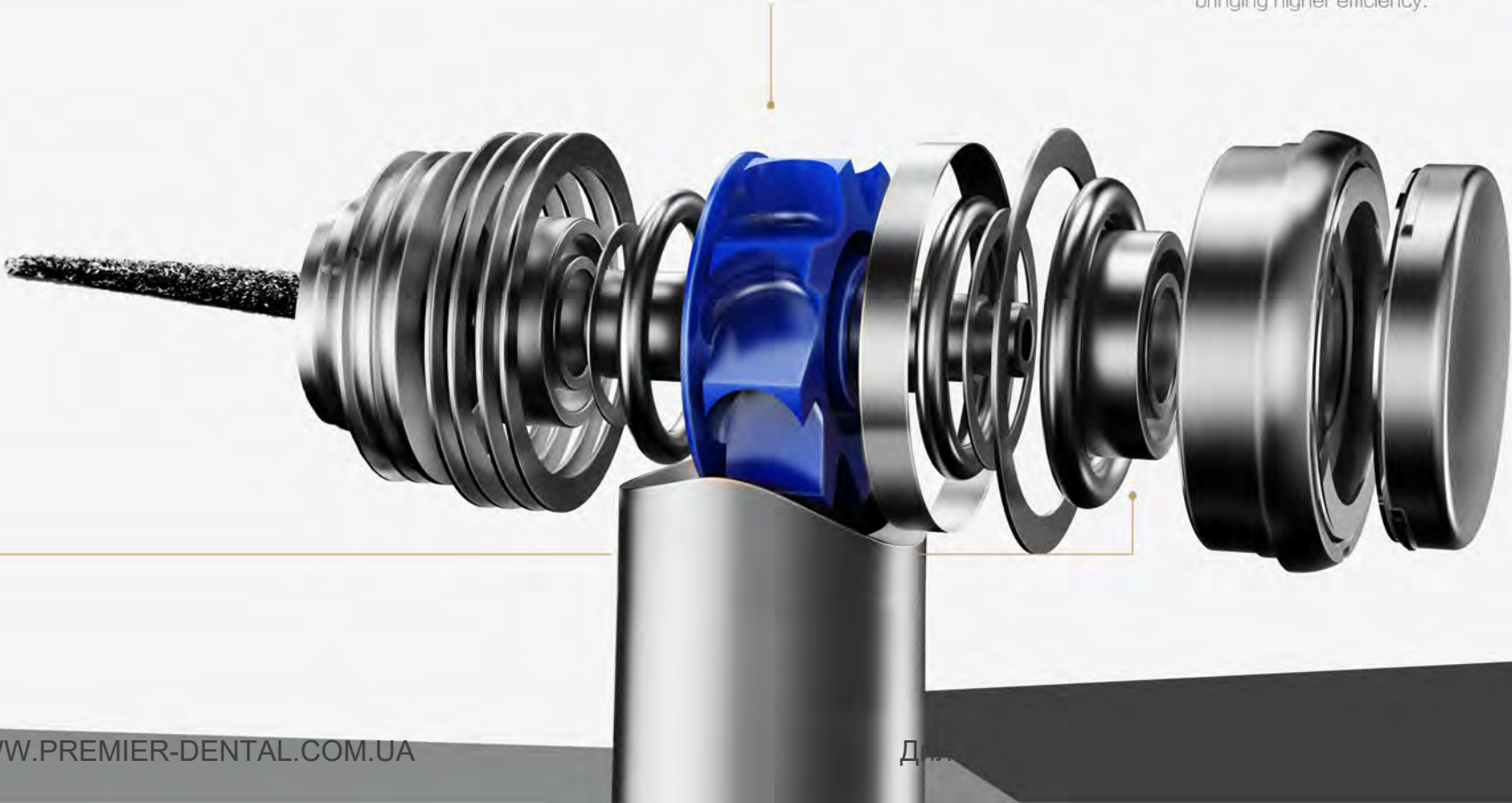
Three-hole atomization Better cooling effect

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.



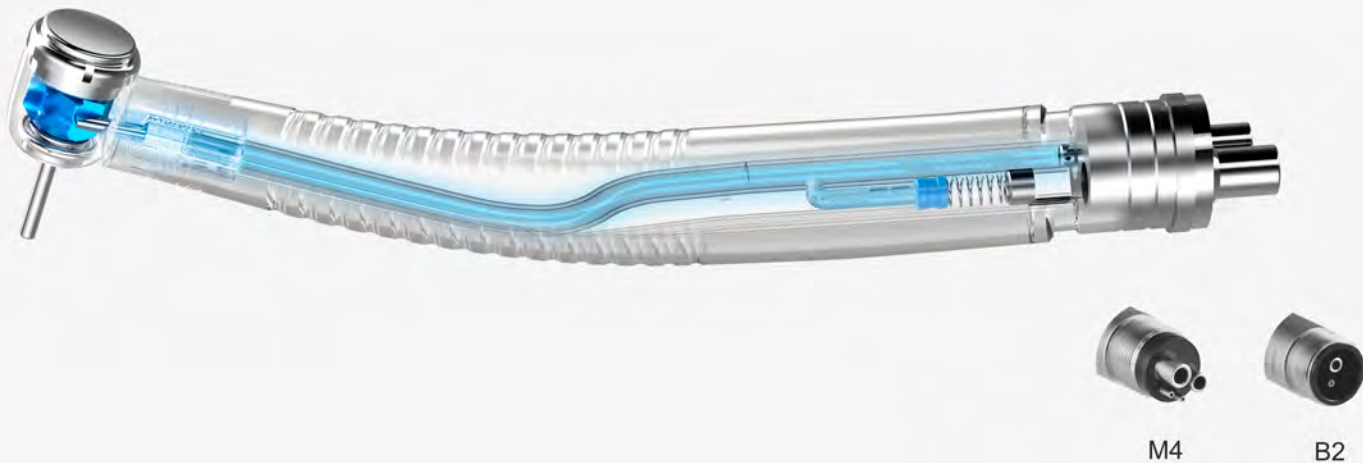
High torque handpiece Easy cutting

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	Φ 12.0mm	Φ 11.2mm	Φ 11.2mm
Noise	< 70dB	< 70dB	< 70dB



DS-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.

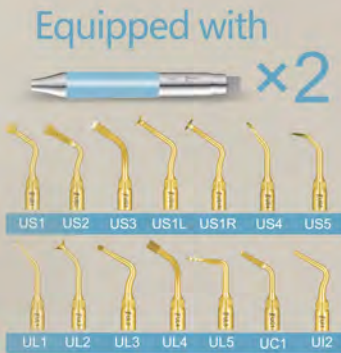


Three modes: bone cutting mode, root mode, clean mode.

Application: stomatology, plastic and reconstructive surgery, orthopedic surgery, such as osteotomy, osteoplasty and bone collection.

Handpiece and cable are autoclavable.

Perfect alarm system ensures the safety of operation and machine.



DS-II, as the product with the core technology of DTE:

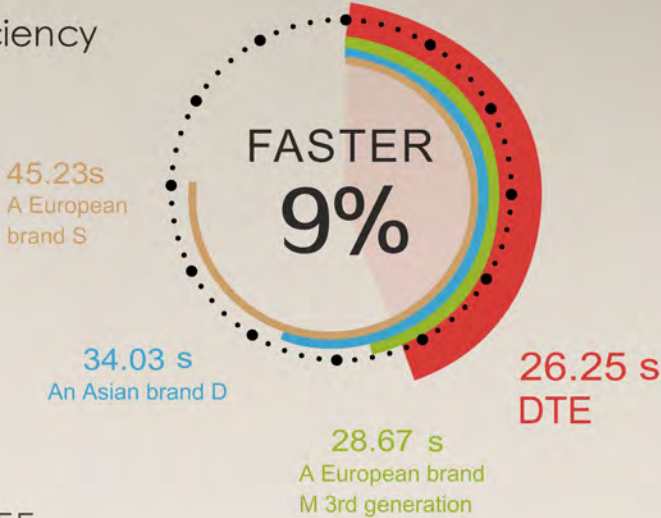
owns complete clinical monitoring system, guarantee the safety;

adopts Cascade Fixed Frequency, with more steady and efficient vibration matching;

with developed spare parts, more close to and focus on clinical practice.

Industrial design patent No.: CN 200830301694.8

Comparison of cutting efficiency
with other famous brands



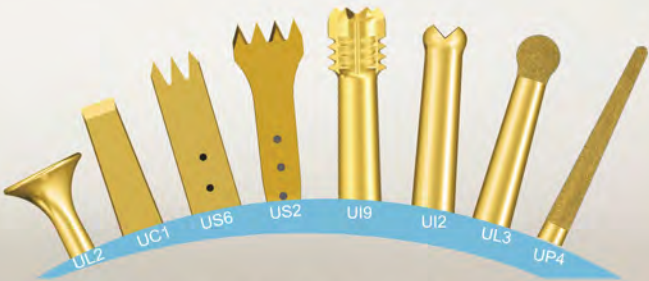
SAFE

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



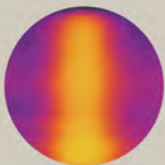
HIGHLIGHT LAMP
CLEAR VISIBILITY



DTE
Brand 33°C



Well-known European
Brand S 30°C

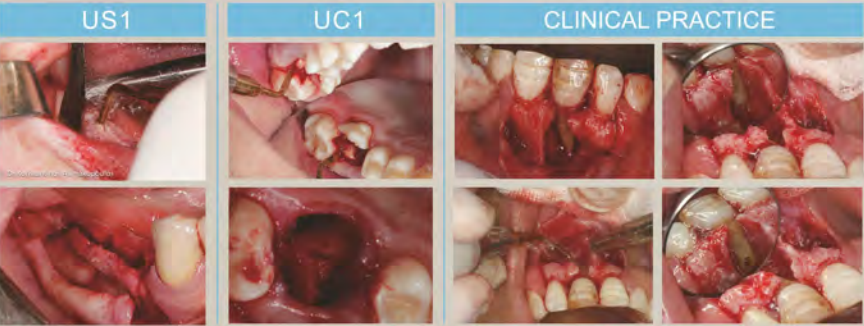


Well-known European
Brand M 33°C



Well-known Asian
Brand D 38°C

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

Implant-X

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



Tips

67

More powerful than you imagine

Tips

68

Please use the correct scaler tip

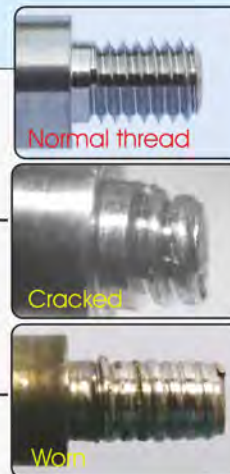


Tips marked with **DTE** connected to handpiece marked with  will lead to serious problem.



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

 These kinds of damages are not covered under warranty.



The comparison between DTE tip and disposable tip made in China



DTE 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 DTE tip and other tips made in China after sterilization



After 300 cycle sterilized, there isn't any rust on DTE 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, it 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

GD1

Supragingival scaling



GD2

Supragingival scaling



GD3

Supragingival scaling



GD4

Supragingival scaling



GD5

Supragingival scaling



GD6

Supragingival scaling



GD7

Remove dental crown



GD8

Remove dental pile, with irrigation



GD9

Supragingival scaling



GD10

Supragingival scaling



GD11

Orthodontic treatment



Periodontics

PD1

Periodontal scaling



PD3

Periodontal scaling



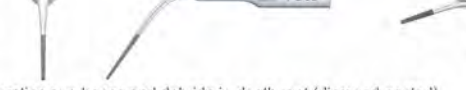
PD4

Periodontal scaling



PD3D

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



PD2L

Periodontal scaling



PD2R

Periodontal scaling



PD2LD

Remove calculus from narrow inter-root spaces (diamond-coated)



PD2RD

Remove calculus from narrow inter-root spaces (diamond-coated)



Cavity preparation

SBD1

Removing the caries on occlusal surface of teeth and dental neck



SBD2

Removing the caries on Mesial surface of the adjacent teeth



SBD3

Removing the caries on Distal surface of the adjacent teeth



GD31

Preparation of mesiocclusion cavity



GD33

Preparation of teeth veneer



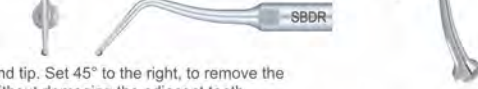
SBDL

Half ball diamond tip. Set 45° to the left, to remove the carious teeth without damaging the adjacent teeth.



SBDL

Half ball diamond tip. Set 45° to the right, to remove the carious teeth without damaging the adjacent teeth.



GD30

Preparation between pits and fissures



GD32

Preparation of distal and mesial cavity



Shoulder preparation

GD20



Abrade dentin

GD21



Fine repair and polish the prepared shoulder

Endodontics

ED1



120°angle holder, for root canal cleaning

ED2



95°angle holder, for root canal cleaning

ED3



For the lateral thermal condensation of gutta-percha

ED3D



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

PD4D



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

ED4



Remove obstructions and broken instruments in the root canal

ED4D



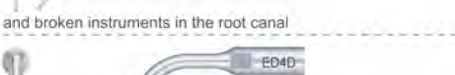
For retreatments and remove hard materias (diamond-coated)

ED5



Remove root canal fillings and broken instruments in the coronal third

ED5D



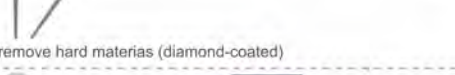
Remove dental overhangs in the pulp chamber (diamond-coated)

ED8



Burs holder, used to expand root canal and grind teeth

ED9



Burs holder, used to expand root canal and grind teeth

ED10



Used for root canal softly treatment

ED10D



Used for root canal retrogression, efficient root apical polishing (diamond-coated)

ED11



Used for root canal softly treatment

ED11D



Used for root canal retrogression, efficient root apical polishing (diamond-coated)

ED14



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

ED15



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

ED14D



Remove calcification in root canal, root canal cleaning and enlargement

ED15D



Remove calcification in root canal, root canal cleaning and enlargement

NITI K-File



Tip with excellent tenacity is used for root canal cleaning
File size: 32.5mm±0.5mm
Handpiece size: Φ0.68mm~0.71mm
K-file taper: 2%
Each kit with six pieces, one kit for one model

15# 20# 25# 30# 35# 40#



Scaling

GD1T



Supragingival scaling

GD2T



Supragingival scaling

GD3T



Supragingival scaling

GD4T



Supragingival scaling

GD5T



Supragingival scaling

GD6T



Supragingival scaling

GD7T



Remove dental crown

GD8T



Remove dental pile, with irrigation

GD9T



Supragingival scaling

GD10T



Supragingival scaling

Endodontics

ED1T



120°angle holder, for root canal cleaning

ED2T



95°angle holder, for root canal cleaning

ED3T



For the lateral thermal condensation of gutta-percha

ED4T



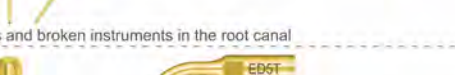
Remove obstructions and broken instruments in the root canal

ED5T



Remove root canal fillings and broken instruments in the coronal third

ED8T



Burs holder, used to expand root canal and grind teeth

ED9T



Burs holder, used to expand root canal and grind teeth

ED10T



Used for root canal softly treatment

ED11T



Used for root canal softly treatment

ED14T



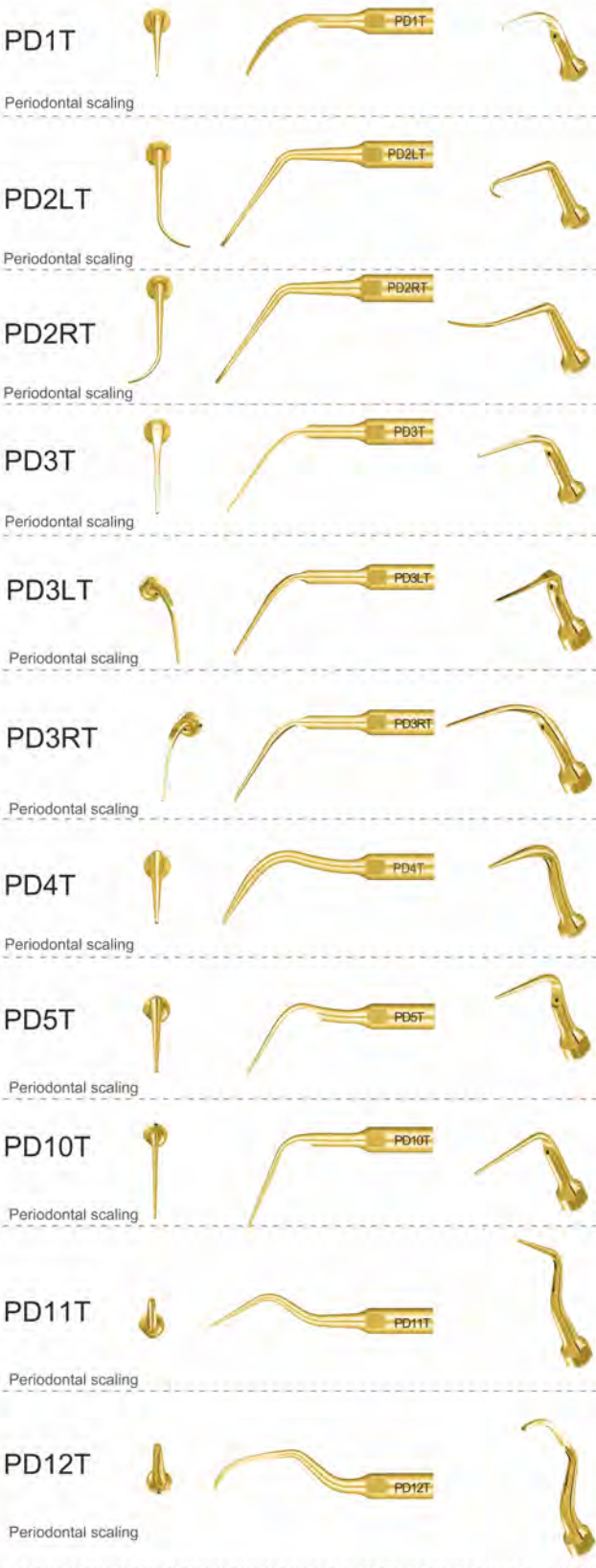
Remove obstructions and broken instruments in the root canal, with irrigation

ED15T

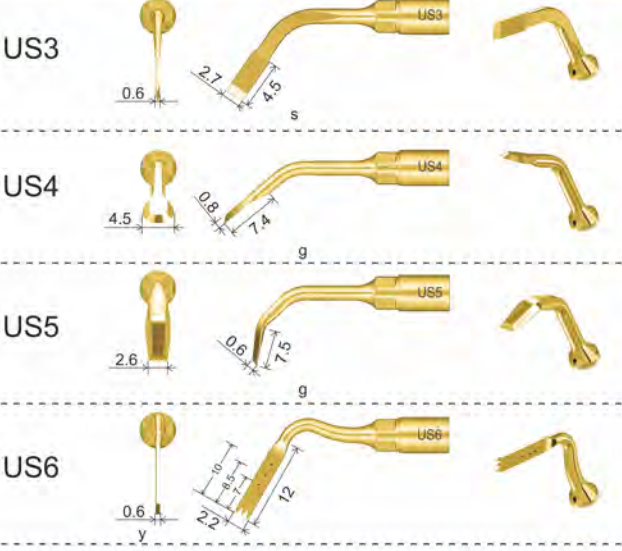
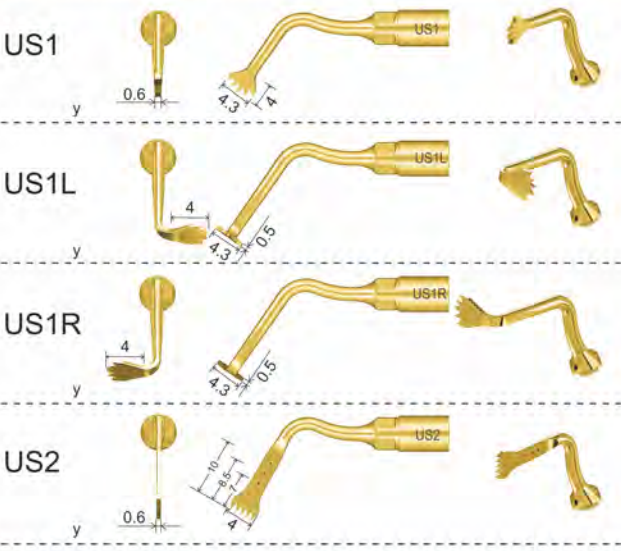


Remove root canal fillings and broken instruments in the coronal third, with irrigation

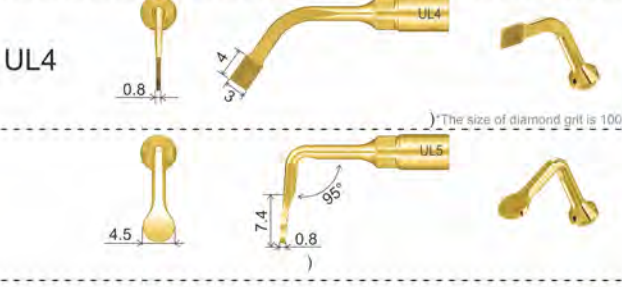
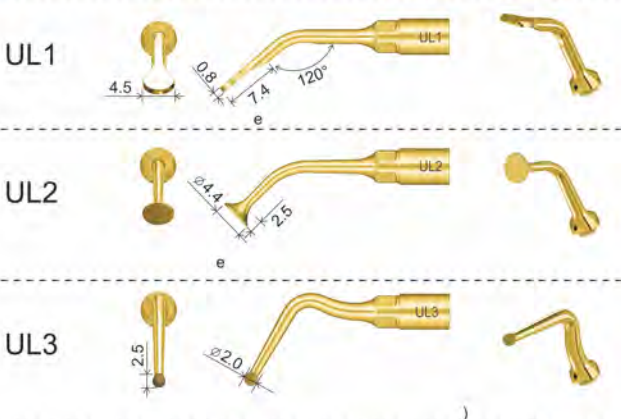
Periodontics *New!*



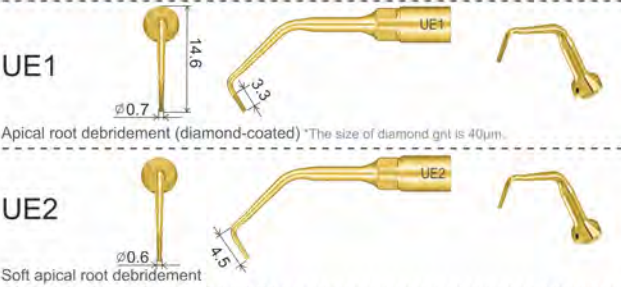
Bone surgery



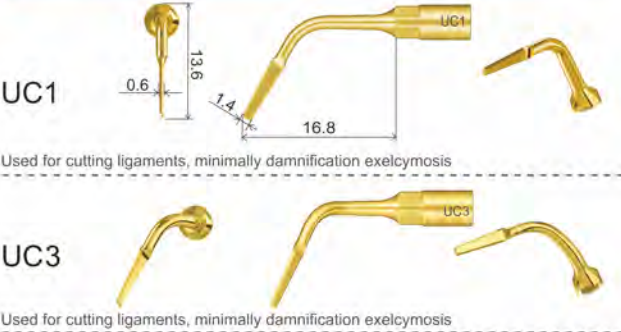
Sinus lifting



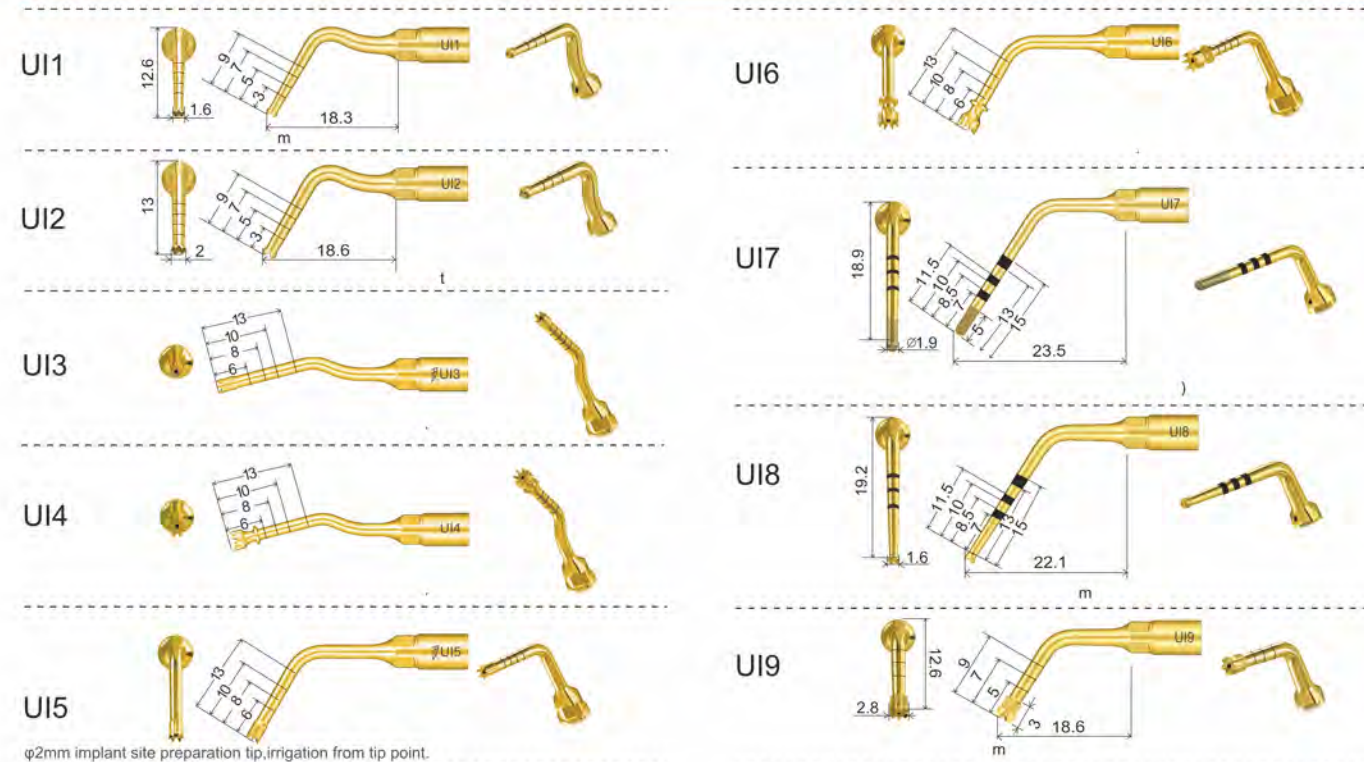
Endodontic



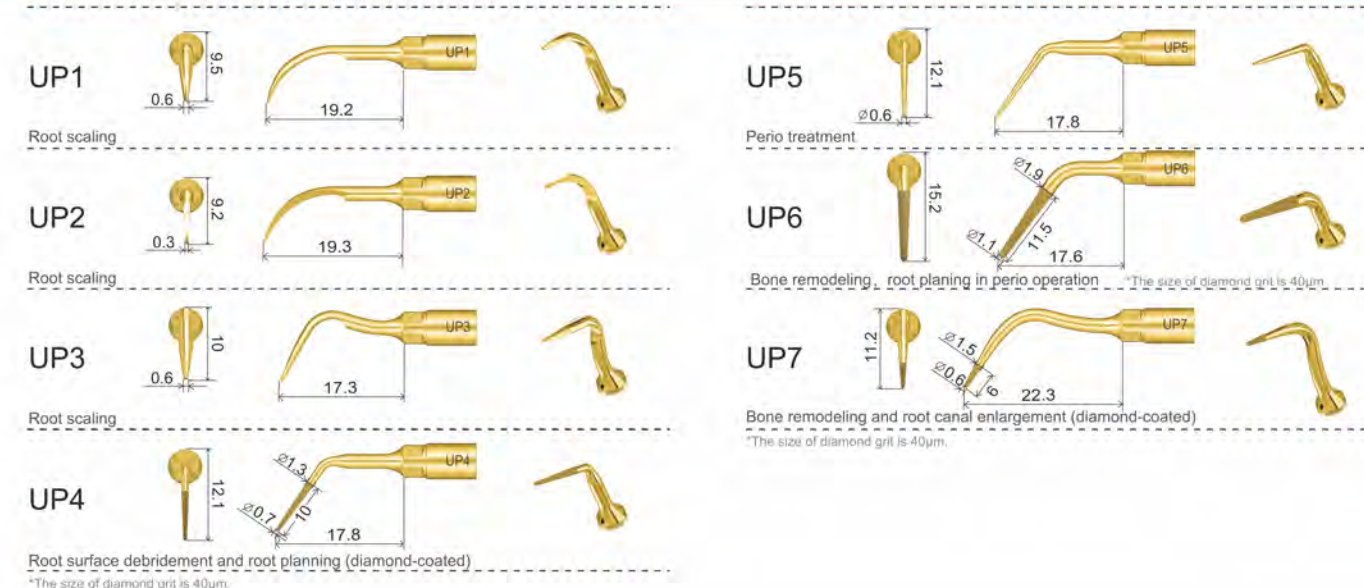
Exelcymosis



Implantation



Periodontal surgery

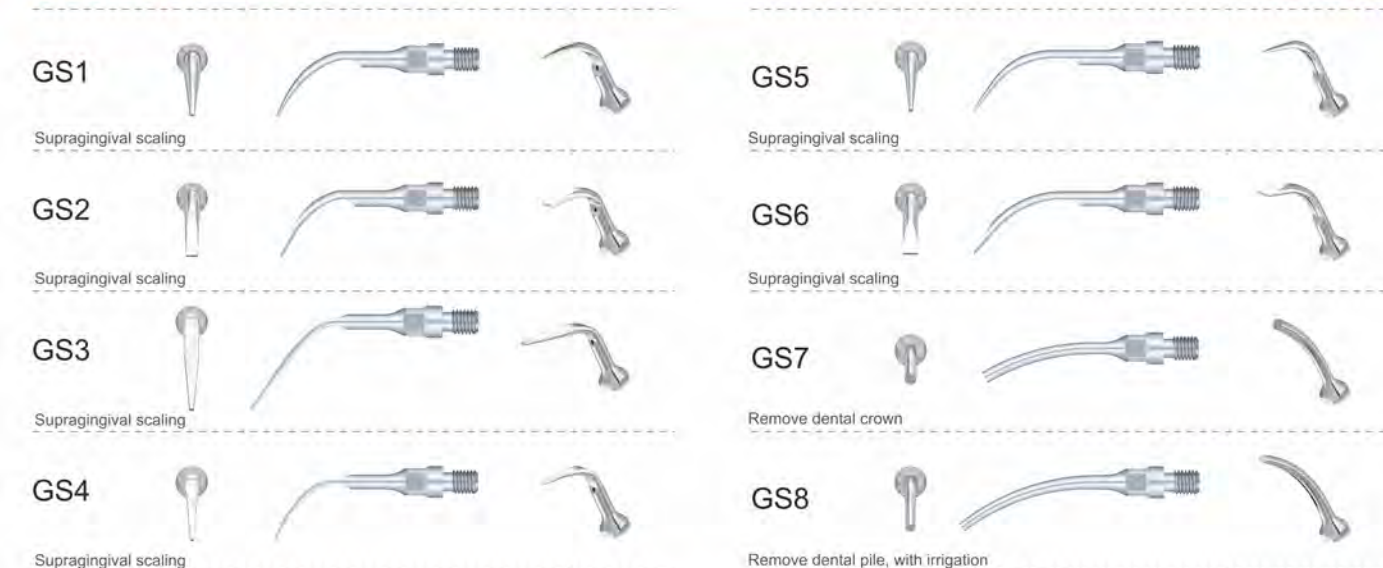


DS-II LED Tip Series

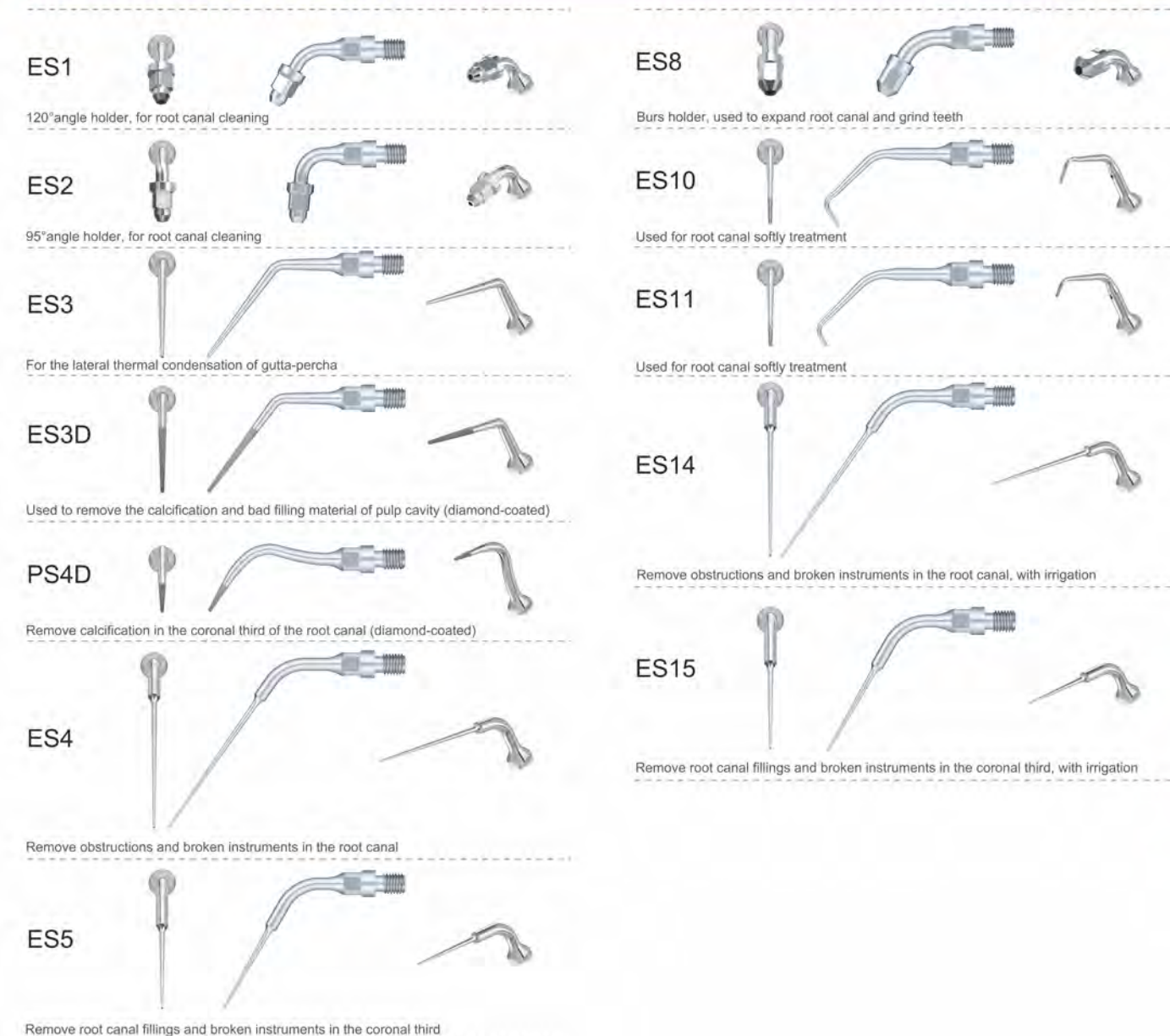
A Wide Choice for Application



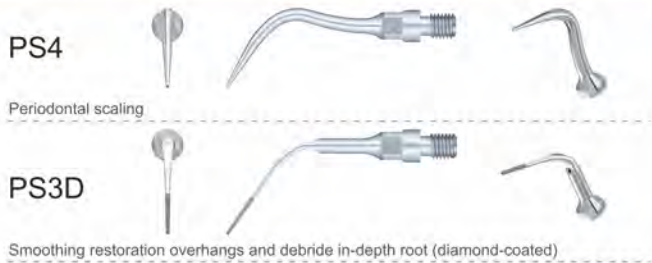
Scaling (Used for SIRONA)



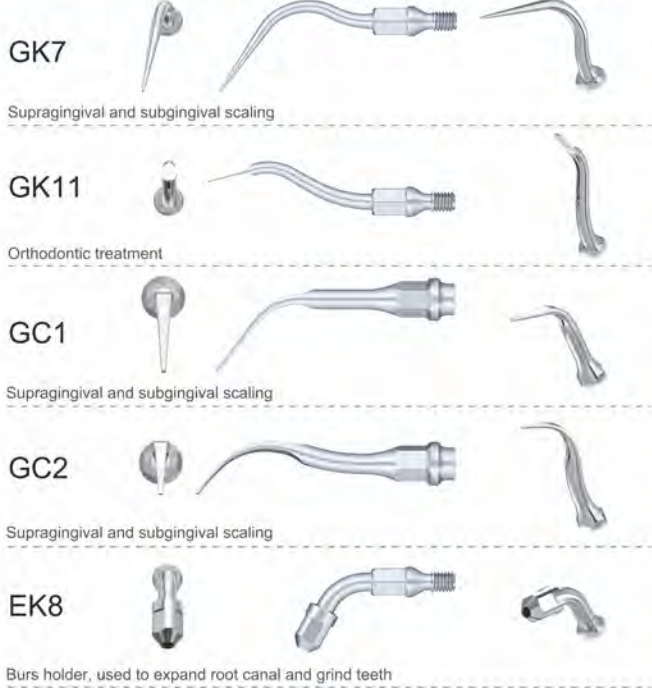
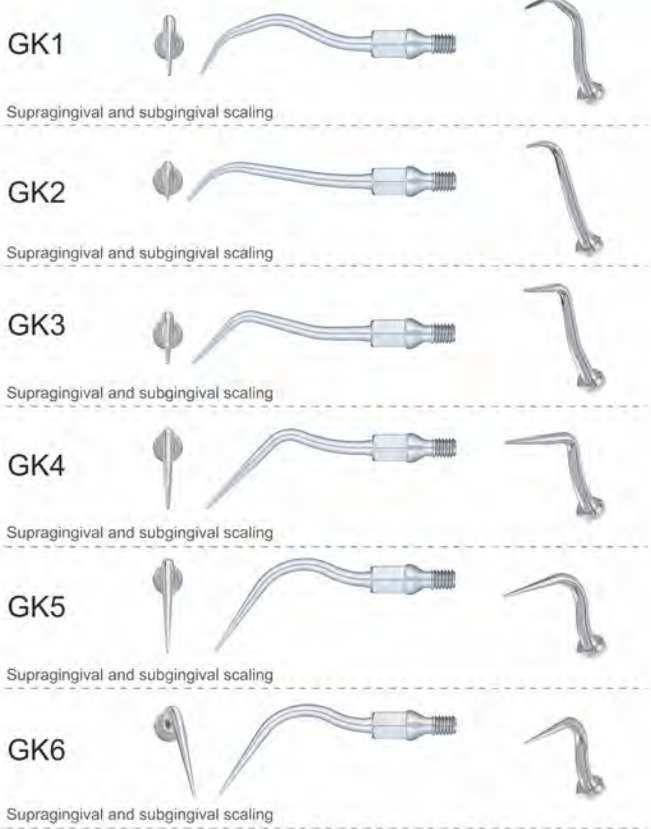
Endodontics (Used for SIRONA)



Periodontics (Used for SIRONA)



Scaling (Used for KAVO)



Periodontics (Used for KAVO)



Used for AMDENT



HD-8L

Used for :DTE scaler with detachable handpiece. With light, better view, autoclavable. Complete metal-made body



Weight	62.33g
Dimensions	114.36mm x Ø19.1mm

HD-8H

· USED FOR: DTE scalers with detachable handpiece. without light



Weight	56g
Dimensions	123mm×Ø20.5mm

HD-7L

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



Weight	63g
Dimensions	111mm×Ø20.5mm



Weight	57g
Dimensions	111mm×Ø20.5mm

HD-7H

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



Weight	57g
Dimensions	117mm×Ø21mm



Weight	57g
Dimensions	117mm×Ø21mm

HD-2L New!

· USED FOR: D2 LED, with light, better view, handpiece sleeve is autoclavable
· Three colours optional to the handpiece sleeve (green/ blue/ amethyst).



Weight	156g (+cable)
Dimensions	140mm×Ø20mm

HD-1

· USED FOR: D1/V1.



Weight	124g (+cable)
Dimensions	125.7mm×Ø18mm

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-qualified material, it is safe and durable.
- Pneumatic water control ensures consistency in water pressure.
- Compatible with scalers of any brands.
- Delicate in design, 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
HD-7H, HD-7L respectively



TD-1L Torque wrench
← Hold the tips.
TD-1 Torque wrench
← Can not hold the tips.



TD-2L Torque wrench
Hold the tips.



TD-E1 Endo wrench
Used for changing the
ultrasonic U-file and
screwing / unscrewing the
endo chuck
TD-A wrench
For replacement of dental
burs and burs holder



TD-5L Torque wrench
For DTE and SATELEC
scaler tips
TS-5L Torque wrench
For Sirona scaler tips
TK-5L Torque wrench
For Kavo scaler tips



TW-3 Wrench



Peristaltic pump



1# Tip holder



2# Tip holder



Foot switch(round)



LED lamp



File stand



Foot switch(square)



Quick connector



Diaphragm pump

Spare parts for dental turbine handpiece



HL11-M4/B2 Cartridge



HP13-M4/B2 Cartridge



HP11-M4/B2 Cartridge



HL13-M4/B2 Cartridge



Bur key



Bearing A (steel ball)



Cap spanner applicable for HP13-M4/B2 HL11-M4/B2



Cap spanner applicable for HL11-M4/B2



Cap spanner applicable for HL13-M4/B2



Cap spanner applicable for HP11-M4/B2

Spare parts for apex locator



Lip hook



Measuring wire



File clip



Measuring file



Tester



Endo ruler

Spare parts for curing light



Optical fiber
Black and white optional
Can be autoclaved under high
temperature and high pressure
1# Dimensions: Φ8mm
2# Dimensions: Φ8mm
1# Applicable for: LUX E
2# Applicable for: LUX V, LUX VI



Adapter
Power input:
AC100V-240V 50Hz/60Hz
Output voltage/current:
DC 5.0V/1.0A



Light hood



Battery
①: ICR14500
Battery Voltage: 3.7V
Applicable for: LUX V, LUX VI
②: ICR18490A
Battery Voltage: 3.7V
Applicable fo LUX E
③: ICR18490B
Battery Voltage: 3.7V
Applicable for: LUX I



Lightmeter



Bathymeter



Disposable sleeve for LUX I



LED lamp 3W, 5W



Glasses