

The world's leading expert in bone cutting efficiency.

# **Ultra Surgery**

Your professional sugery assistant





# Ultra Surgery Classical Model

- · 12 years of R&D, Exported to 66 countries, including Germany, Italy, Switzerland etc. 31 patents, 8 invention patens,
- ·The only dental piezo surgery researched and manufactured in China.





- Bone Surgery Applied to orthopedic surgery such as: Osteotomy, Osteoplasty, Bone Collection etc.
- Sinus lift Applied to spearation of the sinus membrane.
- Applied to the exelcymosis of embedded tooth and impacted tooth etc.
- Implant preparatinon
   Used for cutting socket ridge, alveolar nerve partial lateralization, implantation preparation etc.
- Periodontic Scaling and inflammatory tissue removal, fractured root apex extraction
- Endodontic Root surface micro-smoothing

- Micrometric cutting Maximum surgical presision and intra-operative sensibility.
- Selective cutting Maximum safety for the soft tissues.
- Water cooling cold cutting Keep the cutting point at low temperature, avoiding ambustion.
- Clear vision for surgery No blood at cutting point; cooling water is sprayed, ensuring clear sight for surgery.

### Excellent Handpiece

 The world's leading expert in bone cutting efficiency

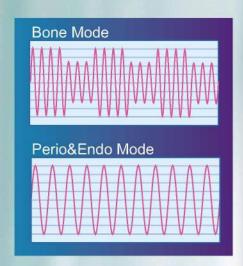
Work on a vertebral column bone of cow, depth 7.5mm



High-power with firm output, handpiece without overheat

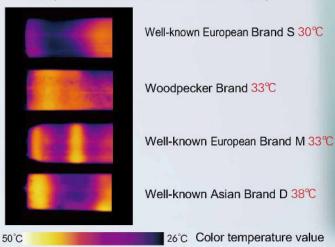
Bone Mode—Voltage signal with high and low amplitude alternation adjusted period supplies high-power energy for the handpiece, ensuring high cutting efficiency even when cutting the hardest texture.

**Perio&Endo Mode**—Sine voltage signal with constant amplitude, supplies the handpiece with stable power, ensuring precise treatment.



Working 10 min under full power, test the temperature of handpieces

The temperature below is the maximum temperature



Measurement tool: FLIR -E60 infrared camera

### **Ultra Surgery**

### Complete configuration of UltraSurgery

- ·Mainframe ·Foot switch ·Pump tubing (5 pcs)
- ·Autoclave box ·TU-1 Torque wrench
- ·2 Handpieces
- ·2 Tip holders with 14 tips(US1,US2,US3,US1L, US1R,US4,US5,UL1,UL2,UL3,UL4,UL5,UC1,UI2)



Power Supply : AC 110V or 220V 50/60Hz

Working frequency: 24KHz~29.5KHz Flow: 25~100ml/m

Dimensions : 330mm×254mm×167mm

Weight : 3.8Kg

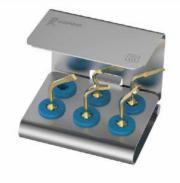
### UltraSurgery Tip Series

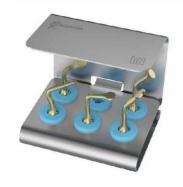
A Wide Choice for Application

Basic kit



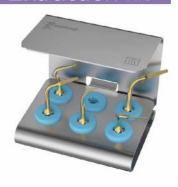
Osteotomy kit







Extraction kit



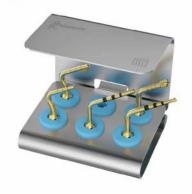
Periodontal kit



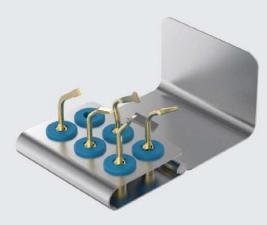
Retro surgical kit



Implant prep kit

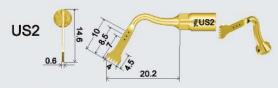


#### Basic kit



- Ridge expansion
- · Corticotomy techniques
- · Bone block grafting
- · Bone chip grafting / bone modeling
- Extractions
- · Sinus lift lateral approach
- Endodontics
- Periodontal surgery

#### Basic kit

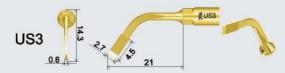


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

High effectiveness osteotomy technique in maxilla and mandible (ridge expansion, corticotomy technique, bone block grafting)

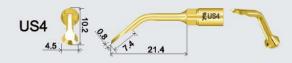


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Micrometric osteotomy (about 0.6 mm): osteotome of great precision in anatomically thin structures (for example, ridge expansion, interdental corticotomies).

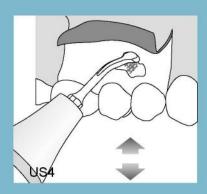


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Universal osteoplasty: periodontal ostectomy, bone chips harvesting, inflammatory tissue removal (cyst, etc).



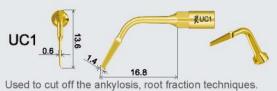


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

High efficiency bone osteoplasty: bone remodelling and harvesting of bone chips.



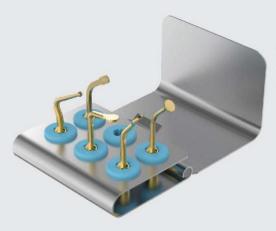
Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

US<sub>2</sub>

#### Sinus lift kit



- Sinus lift technique lateral approach
- · Osteotomy close to nerves

#### Sinus lift kit



Non-cutting elevator of the sinus membrane: separation of the sinus membrane in internal zones.



Schneiderian membrane separation from bony walls: separation of the sinus membrane, 2 mm around the frame of bony window.

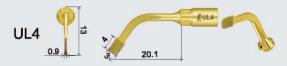


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Diamond-coated(100µm),instrument for micrometric osteotomy or osteoplasty: non-traumatic, to finalize the osteotomy or osteoplasty on thin bone and/or near delicate anatomic structures.



Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Diamond-coated(100 $\mu$ m),micrometric osteotomy (about 1 mm): to finalize the osteotomy in proximity of soft tissue (for example, sinus membrane, vessel, alveolar nerve).

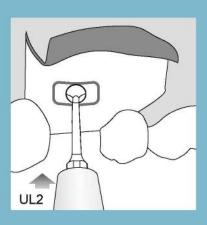


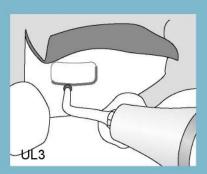


Mode: Root Power: Perio

Separation of the sinus membrane in internal zones, on-cutting elevator of the sinus membrane.





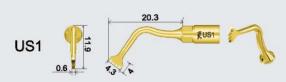


#### Osteotomy kit



- Ridge expansion
- · Corticotomy technique
- Bone block grafting

#### Osteotomy kit

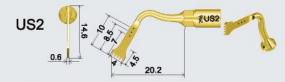


Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

High effectiveness osteotomy of large bone sections dring maxillofacial surgery, it can also be used for exodontias exodontics.



Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

High effectiveness osteotomy technique in maxilla and mandible (ridge expansion, corticotomy technique, bone block grafting)



Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Left angle  $90^\circ$ , micro-saw 0.5 mm horizontal osteotomy: all the osteotomy technique in maxilla and mandible(for example, bone block grafting).



Mode: Bone

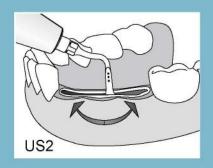
Power: Quality 1, Quality 2, Quality 3

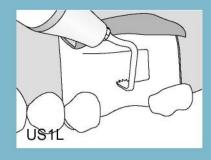
(Cortical/Spongious)

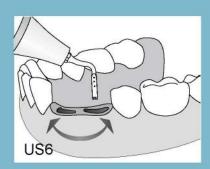
Right angle 90°,  $\,$  micro-saw 0.5 mm horizontal osteotomy: all the osteotomy technique in maxilla and mandible(for example, bone block grafting).



Micro-saw 0.6 mm (3 teeth), Osteotomy:osteotome of great precision in anatomically thin structures(for example,ridge expansion,corticotomy technique).







#### Extraction kit



- Extractions
- Periodontal surgery

#### Extraction kit



Mode: Bone

Power: Quality 1,Quality 2,Quality 3 (Cortical/Spongious)

Used to cut off the ankylosis, root fraction techniques.







Mode: Bone

Power: Quality 1,Quality 2,Quality 3 (Cortical/Spongious)

Analogue to UC1 in the posterior regions.

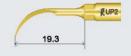


Mode: Bone

Power: Quality 1,Quality 2,Quality 3 (Cortical/Spongious)

Analogue to UC1 in the posterior regions.







Mode: Root Power: Perio

Powerful scaling: scaling and inflammatory tissue removal fractured root apex extraction.

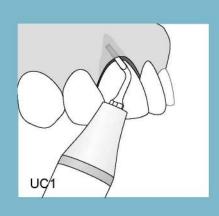


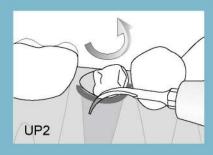


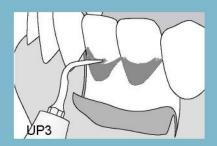


Mode: Root Power: Perio

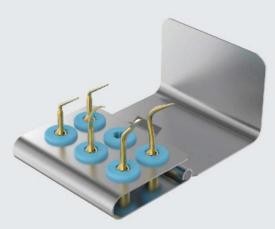
Gentle scaling: root scaling



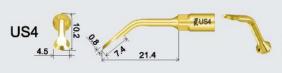




#### Periodontal kit



- Periodontal surgery
- · Bone chip grafting / bone modeling
- · Sinus lift lateral approach
- Endodontics
- Ridge expansion
- Extractions



Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Universal osteoplasty:periodontal ostectomy, crown lengthening, bone chips harvesting, inflammatory tissue removal (cyst, etc.)



Powerful scaling: scaling and inflammatory tissue removal fractured root apex extraction.



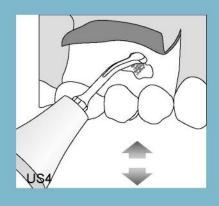
- Scaling and micro-debridement: root debridement and root planing during resective and regenerative periodontal surgery.
   Bone perforation: initial pilot osteotomy.

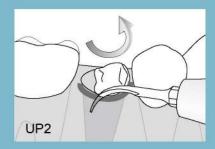


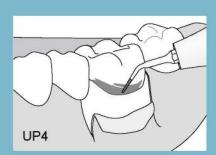
Root surface micro-smoothening: root planing



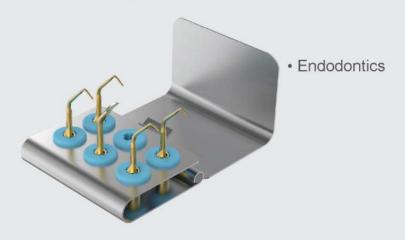
Diamond-coated(40 $\mu$ m), instrument for root canal orientation and removal of the calcifications located at 1/3 part of root canal, it can also be used for micro-osteoplasty and root planning.







### Retro surgical kit



#### Retro surgical kit



 $Diamond-coated (40 \mu m), instrument\ for\ apical\ root\ debridement: diamond-coated\ instrument\ for\ efficient\ root\ planning. The\ length\ of\ the\ diamond-coated\ on\ tip\ is\ 3.3 mm.$ 



Used for gentle cleaning .The length of tip slender smooth part is 4.5mm.



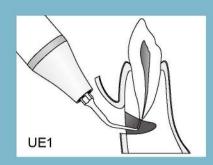
 $Diamond-coated (40 \mu m), instrument \ for \ apical \ root \ debridement: diamond-coated \ instrument \ for \ efficient \ root \ planning. The length \ of \ the \ diamond-coated \ on \ tip \ is \ 2.2 mm.$ 

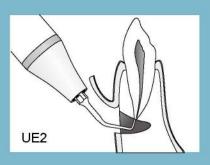


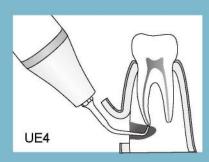
Used for gentle cleaning . The length of tip slender smooth part is 3.5mm.



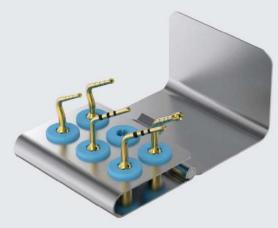
Universal osteoplasty: periodontal ostectomy, bone chips harvesting, inflammatory tissue removal (cyst, etc.).





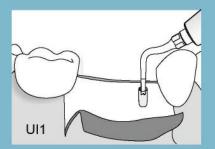


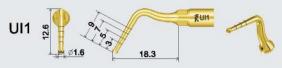
#### Implant prep kit



- · Implant site preparation
- Sinus lift technique crestal approach

#### Implant prep kit



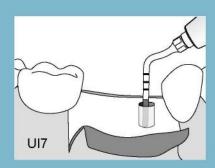


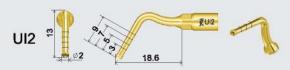
Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Φ1.6mm implantation site preparation insert. The working length of the tip is 9mm.





Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

 $\Phi$ 2.0mm implantation site preparation insert. The hole center of the top for water spray maximum reduce the heat.

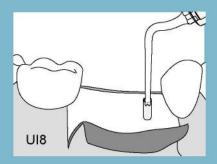


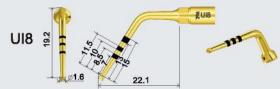
Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Diamond-coated(100 $\mu$ m),instrument for finalizing the implantation site preparation close to the alveolar nerve.





Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

Φ1.6mm implantation site preparation insert. The working length of the tip is 15mm.



Mode: Bone

Power: Quality 1, Quality 2, Quality 3

(Cortical/Spongious)

 $\Phi$ 2.8mm implantation site preparation insert. The hole center of the top for water spray maximum reduce the heat.

#### Other tips





Mode: Root Power: Perio

Recommended for periodontal gentle curetting scaling



Mode: Root Power: Perio

Diamond-coated(40µm),instrument for micro-soteoplasty:interproximal osteoplasty and root planning

### Spare parts



Handpiece LED/non LED



Tip holder



TU-1 Torque wrench



Foot switch







Pump connector



Handpiece holder



Water tank hanger



Power line



Autoclave box

## **Ultra Surgery**

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