

# SURGICAL KIT



**AJH**

HEALTHCARE MANAGEMENT PTE LTD

## Clinical application

### Woodpecker 3rd generation of Ultrasurgery

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



## Micron Cutting

The vibration amplitude of tip is between 20-100µm.  
The minimum surgical incision is 3.5mm long,  
0.5mm wide,  
which will help with small operating area and fast postoperative recovery.

## Selective Cutting With No Injury to Soft Tissue

For soft tissues (neural, blood vessels and mucous membranes, etc.),  
there is no cutting effect,  
which can protect the vascular nerve of the operation area to a large extent,  
greatly reducing the risk of injuring soft tissues(neural, vascular, mucosal, etc.).

## Cold Cutting Mode

Ultrasonic technology produces very little heat while cutting. And iced water can quickly cool the tip and ensure the temperature below 38 °C.  
At the same time, the water spray flushes the wound during operation, bringing no bleeding and enabling clear vision of operation area,  
which makes it easy to operate.



## Tips Kit

Specially used for tooth extraction, crest splitting,  
and retropreparation. Adopt gold plating which is wear-resistant  
and practical with long time of endurance.



## Multi-function Foot Pedal

Multi-function foot pedal, makes it easy to control water flow,  
working mode, and power, simplifying operation procedures and  
realizing efficient operation.



## 7-Inch Touching Screen

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

## High-performance Handpiece



Optimized handpiece with stronger sealing technology  
High temperature cooking disinfection causes no loss of performance  
High-brightness LED brings clearer operating vision

For different treatment needs, four different working modes are set: cutting mode, periodontal mode, endodontic mode, and cleaning mode.

## Cutting Mode

Under cutting mode, according to the bone density, adjust power and water volume. The power levels are divided into 7 classes:

- (1) Level 5, 6, and 7: Class I bone  
(suitable for bone with high bone density / big cortical bone)
- (2) Level 3 and 4: Class II bone  
(suitable for bone with high bone density / large cortical bone)
- (3) Level 2 and 3: Class II bone  
(suitable for bone with uniform bone density / good cortical bone)
- (4) Level 1 and 2: porotic bone  
(suitable for bone with low bone density / poor cortical bone)

Different bones respectively match 7 power levels, avoiding over power output and improving safety and stability;

## Periodontal mode

Under teeth mode, the power and water volume are adjustable.

## Endodontic mode

Under teeth mode, the power and water volume are adjustable.

## Cleaning mode

Under cleaning mode, step on foot pedal for 3s to confirm cleaning, then the main unit can automatically complete pipe cleaning for 25s. After each treatment, please clean the waterway (include pump line and handpiece).



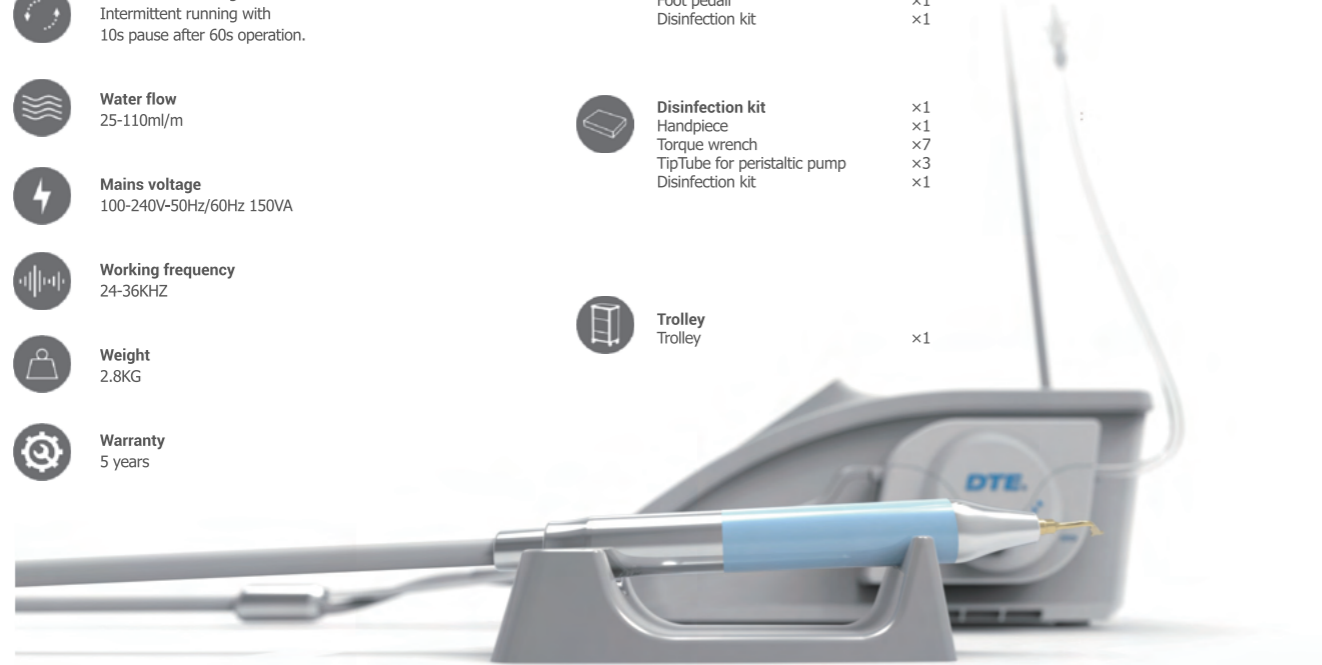


### Product Specification

- Dimension**  
276mm x 267mm x 110mm
- Intermittent running device**  
Intermittent running with 10s pause after 60s operation.
- Water flow**  
25-110ml/m
- Mains voltage**  
100-240V-50Hz/60Hz 150VA
- Working frequency**  
24-36KHZ
- Weight**  
2.8KG
- Warranty**  
5 years

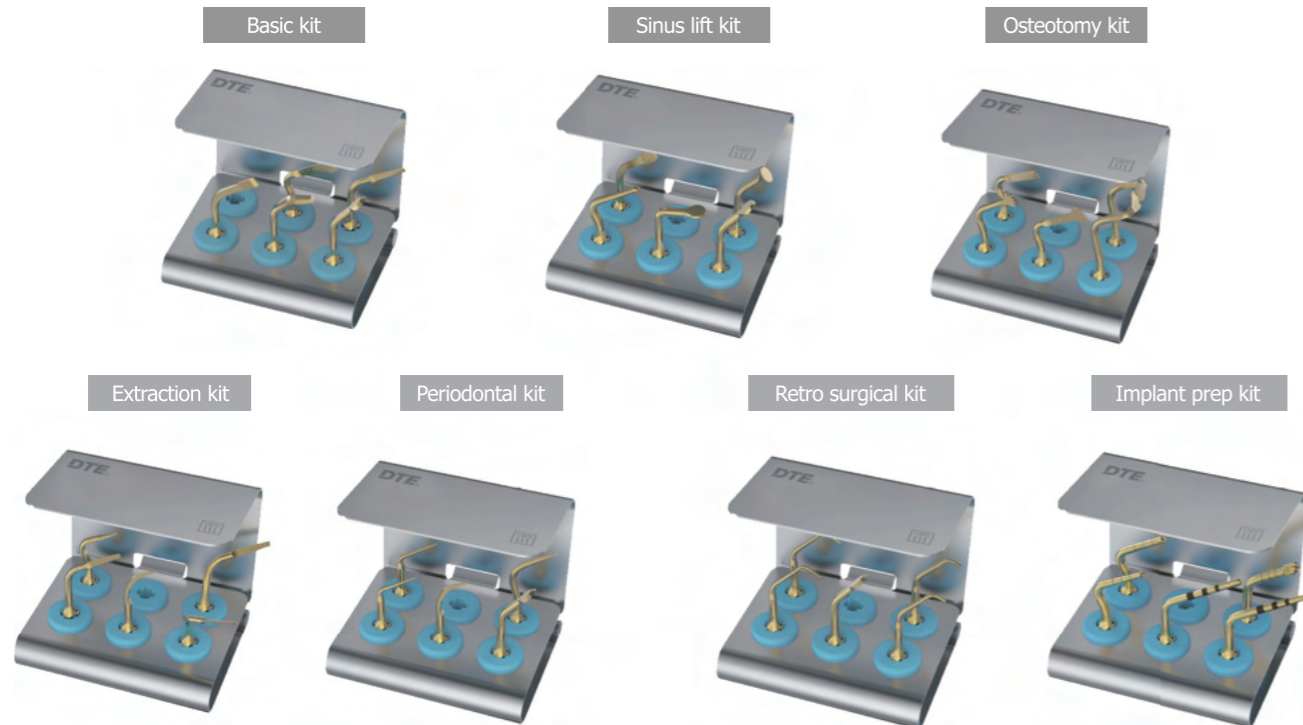
### Complete configuration

- Main unit**  
Handpiece ×1  
Torque wrench ×1  
Tip ×7  
Tube for peristaltic pump ×3  
Foot pedall ×1  
Disinfection kit ×1
- Disinfection kit**  
Handpiece ×1  
Torque wrench ×7  
Tip/Tube for peristaltic pump ×3  
Disinfection kit ×1
- Trolley**  
Trolley ×1



### Tip Series

#### A Wide Choice for Application



### Equipped with 14 tips

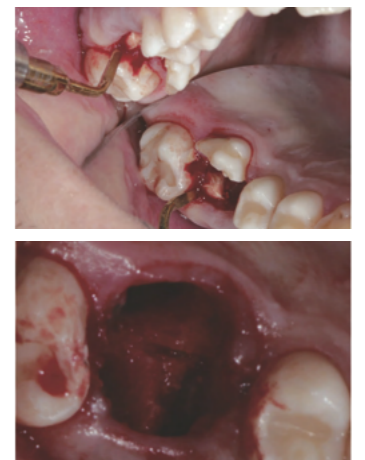
#### Bone surgery

<b>US1</b>		
Osteotomy		
<b>US1L</b>		
Osteotomy		
<b>US1R</b>		
Osteotomy		
<b>US2</b>		
Osteotomy		
<b>US3</b>		
Osteotome of precision in the thin regions		
<b>US4</b>		
Bone remodeling and bone chip harvesting		
<b>US5</b>		
Bone remodeling and bone chip harvesting		
<b>US6</b>		
Precise osteotomy		



#### Exelcymosis

<b>UC1</b>		
Used for cutting ligaments, minimally damnification exelcymosis		
<b>NEW!</b> <b>UC2</b>		
Used for cutting ligaments, minimally damnification exelcymosis		
<b>NEW!</b> <b>UC3</b>		
Used for cutting ligaments, minimally damnification exelcymosis		

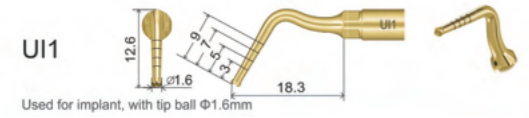




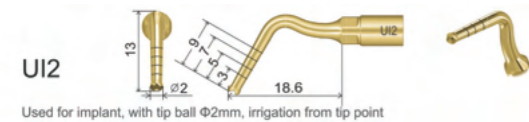
## Implantation



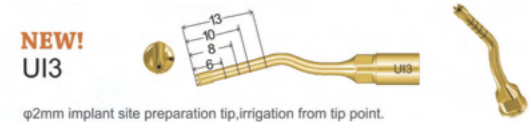
Used for cutting ligaments, minimally damage exelcymosis



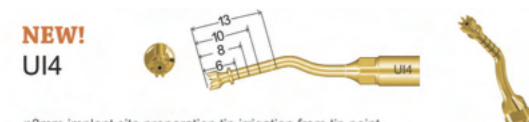
Used for implant, with tip ball  $\Phi 1.6\text{mm}$



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



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



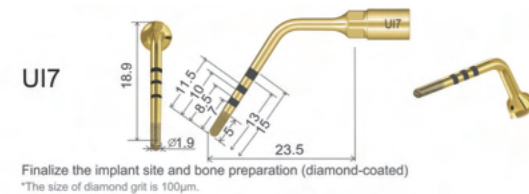
$\Phi 3\text{mm}$  implant site preparation tip, irrigation from tip point.



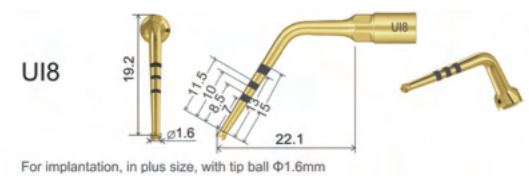
$\Phi 2\text{mm}$  implant site preparation tip, irrigation from tip point.



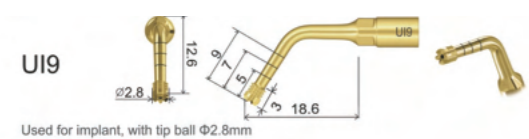
$\Phi 3\text{mm}$  implant site preparation tip, irrigation from tip point.



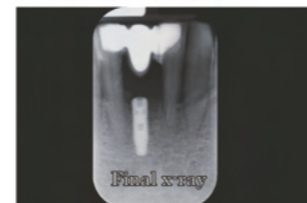
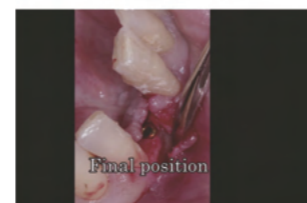
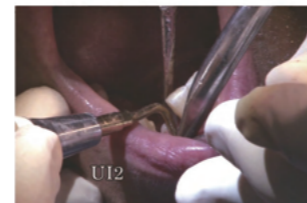
Finalize the implant site and bone preparation (diamond-coated)  
\*The size of diamond grit is  $100\mu\text{m}$ .



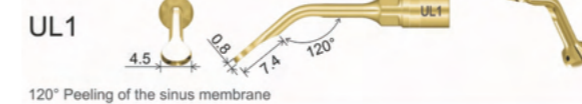
For implantation, in plus size, with tip ball  $\Phi 1.6\text{mm}$



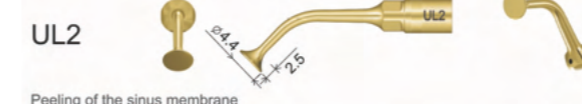
Used for implant, with tip ball  $\Phi 2.8\text{mm}$



## Sinus lifting



120° Peeling of the sinus membrane



Peeling of the sinus membrane



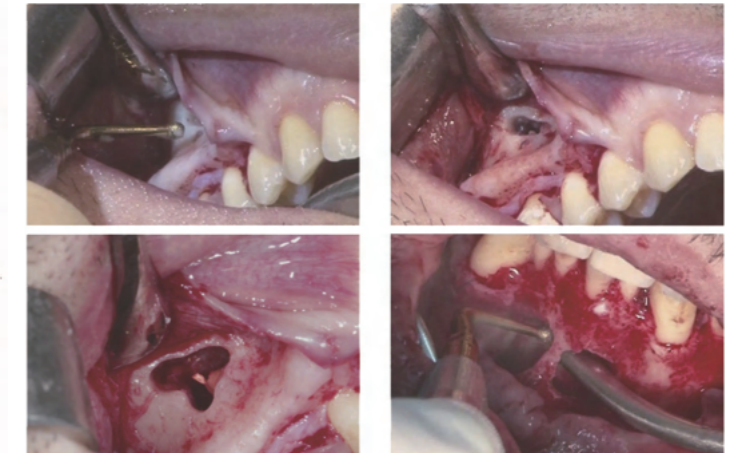
Non-traumatic bone cutting on thin bone region (diamond-coated)  
\*The size of diamond grit is  $100\mu\text{m}$ .



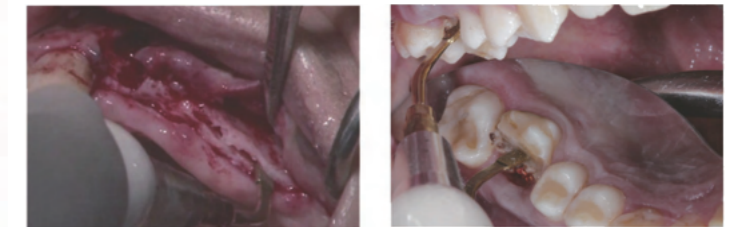
Micrometric osteotomy near the soft tissue (diamond-coated)  
\*The size of diamond grit is  $100\mu\text{m}$ .



Peeling of the sinus membrane (angle:  $95^\circ$ )

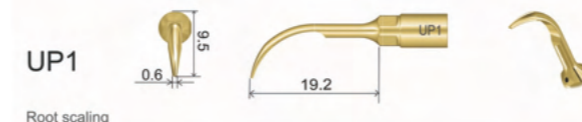


UL3: Micrometric osteotomy, apical cyst removal.

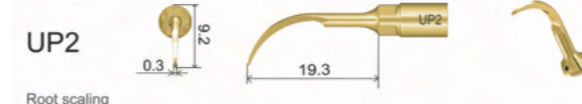


UL4: Micrometric osteotomy

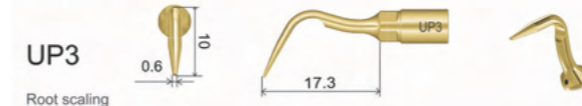
## Periodontal surgery



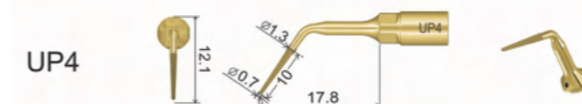
Root scaling



Root scaling



Root scaling



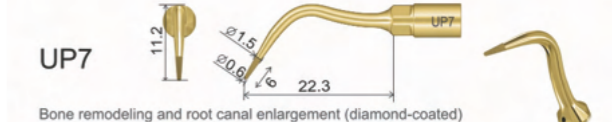
Root surface debridement and root planing (diamond-coated)  
\*The size of diamond grit is  $40\mu\text{m}$ .



Perio treatment



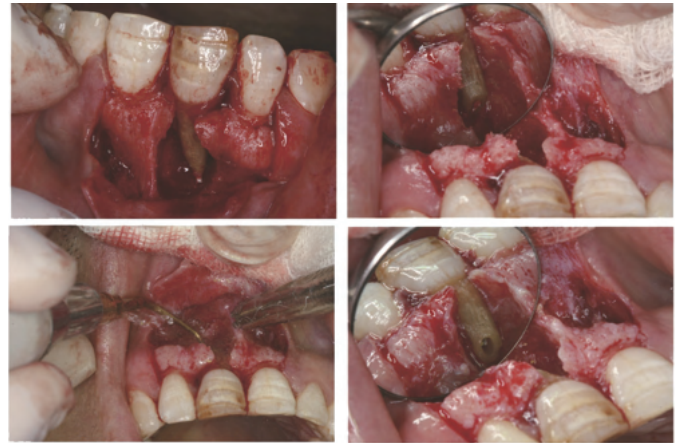
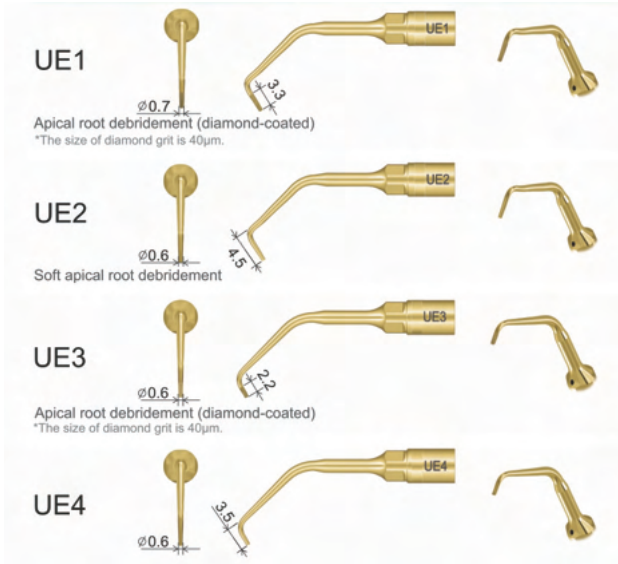
Bone remodeling, root planing in perio operation  
\*The size of diamond grit is  $40\mu\text{m}$ .



Bone remodeling and root canal enlargement (diamond-coated)  
\*The size of diamond grit is  $40\mu\text{m}$ .



## Endodontic



## Clinical practice

