

**Surgical Usage :** Dental - Dental Implant, Periodontal Surgery Medical - Maxillo-facial Surgery, Nose Plasty & Other Plastic Surgery ULTRASONIC PIEZO BONE SURGERY SurgyStar Plus dmetec Surgy ar m

www.dmetec.com

# SurgyStar Plus • Company history



2012	· Ultrasonic Piezo Implant Surgery (Surgystar) 510(K) FDA Registration
	· Ultrasonic Piezo Implant Surgery (Surgystar Plus) CE Certified
2011	· Registered Patant No. 1007192 Ultrasonic Surgery Tip
2009	<ul> <li>Certificate, The next generation of world-class product No.2009-322 / Industry and Energy</li> <li>Design registration (Tips for dental ultrasonic surgery) Registration No. 30-0523914 No. / KIPO</li> <li>Measurement device for scaler handpiece output, the Patent No. 10-0890233 / KIPO</li> <li>Piezotome to operate Sinus Membrane lift Patent No. 10-0884211/ KIPO</li> </ul>
2008	· Certified KGMB / KFDA
2007	· Ultrasonic Implant surgery and other 8 cases registered trademarks Article No. 40-0717170 by KIPO
2006	· Ultrasonic scaler (Cleanse S +) 510(K) FDA Registration · Superior technology company / Technology Credit Guarantee Fund
2005	· Dmetec laboratory Certificate No.20051621 / Korea Industrial Technology Association · LED Curinglight (Skylight) 510(K), FDA Registration
2004	· Registered Patent No. 0418734 ultrasonic tartar Eliminator / KIPO · Venture company NO. 041627031-1-01224
	· Ultrasonic scaler (Cleanse S) FDA Registration
2003	· Selected as a promising small and medium companies by GSBC
2002	· ISO9001, ISO13485 and CE MARK international certification
2001	· Food and Drug Administration permission No. 1026 - Medical equipment manufacturing · Corporate conversion Dmetec.co.Ltd
	· Utility Model Registration No. 0245005 - Pneumatic Grinder dental injection device
2000	· Name of company changed to DAEIL Dentech Dental equipment manufacturer and trader
1983	· DAEIL trade (imports and exports dental equipment) is established.



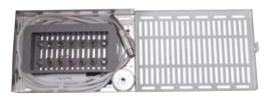
### **Main Unit**

- Dimension: 189mm(W) X 265mm(D) X 175mm(H)



### **Autoclavable Tray**

- Autoclavable with handpiece&cable,tip,
- water connecting tube, handpiece holder



### Transformer

- Medical Power Supply
- Input:100-240V, 50-60Hz
- Output:+24V, 2.7A









### **Optic Handpiece with Cable**

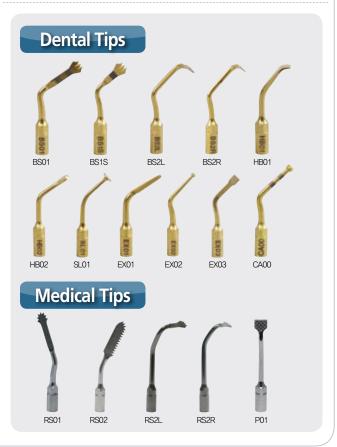
- Autoclavable



### **Foot Switch**

- Foot Lock function with Menu of water, power and vibration adjust.
- Foot control to keep the hands free





### LCD Screen

- Soft and Easy way to touch.
- Color TFT 4.8 inch touch screen.
- Adjustable function during operation.



### **Foot Switch**

- Foot Lock function is easy & convenient with its adjustable menu for water, power & boost.
- Adjustable function during operation.



JURAS MARKES IN ESTREER



# SurgyStar Plus • LCD Display

### **Preparation**

### Preparation MODE

- SYSTEM CHECK: Check the system.
- READY to Operate: Ready for operation. If you check Auto diagnosis, device will check the system automatically at the time of turning on.



### Menu











TEST & INITIAL

SYSTEM CONFIG MODE

SURGERY

HFI P

PROGRAM INFORMATION



### Surgery

### Surgery (-Example of User program)

- User Program : Name of user program.
- Saved level of Power / Boost / Water.
- Foot Free <-> Foot Lock changing by touch.
- Save : Move to screen of Save function.
- ▲/▼: Adjust Power / Boost / Water.



### **Surgery Save**

Save Choose the number which is supposed to be save program. 001 ~ 999 Programs are available..

- New: Set new name.
- Edit : Edit name
- Delete: Delete name and saved levels.
- \* PBW: Saved level of Power/Boost/Water.





### **Surgery Save/Edit**

### Save keyboard. Can set the name of program.

- A/a : Upper/Lower case letter..
- 123 : Choose Number.
- SP : Space.
- ← : Backspace .
- OK : Save



### **System**

### SYSTEM CONFIG

- Adjust hanpiece light. Adjust sound.
- Adjust LCD brightness. BAR: Display Surgery Screen by Bar graph.
- Icon : Display Surgery Screen by Icon Text : Display Surgery Screen by Text
- Default : Back to initial setting status.
- Touch Screen Setup: Touch Panel set up. < Must follow the technician's instruction>.



### Help

### Help

- Tip selection guide
- Maintenance
- Warning
- Program information



### Help Tip Guide\_1

Help / Tip Selection Guide Tip information



# SurgyStar Plus • Bony Saw

# Bony Saw BS01 BS1S BS2L BS2R

- Sawing or cutting for autogenous block bone.
- Sawing or cutting for distraction osteogenesis.
- · Sawing or cutting in narrow site.
- Sawing or cutting or separation where handpiece can not be reached
- · Removal of "torus"
- Ridge Splitting.
- · Lateral Window Technique
- Orthodontic Corticotomy

### Block Bone Graft







Micrometric & precise cut for ramal block bone with BS tip like BS01, BS1S, BS2L, BS2R







Micrometric & precise cut for chin block bone with BS tip like BS01, BS1S, BS2L, BS2R



### **Orthodontic Corticotomy**



Aspect of the initial case without arch wire on the posterior teeth



Lingual aspect of the pre-operative case



SurgyStar+ used for buccal corticotomy between Canine and Fistr Premolar



Vertical and Horizontal Buccal corticotomies completed



Final suture after surgery



Case completed 3 months after corticotomy



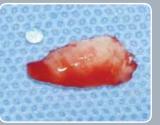
Close-up case completed 3 months after corticotomy

### Torus Remova



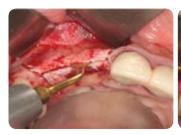






# SurgyStar Plus • Ridge Split

# Ridge Split









Ridge splitting & simultaneous implants placement combined GBR







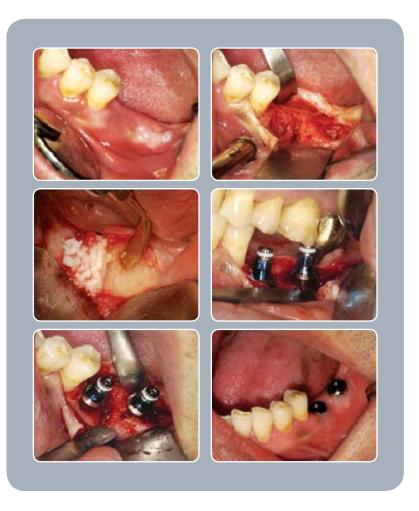


5 months healing state after surgery & follow-up prosthesis

### **Bone Harvesting**



- Mess for osteoplastic operation or collecting bone chip.
- Osteoplasty for high precision.
- Osteoplasty of sinus lift without any damage to soft tissue.





### Sinus membrane elevator



- · Applied to the initial separation of the maxillary sinus membrane
- Able to separte the membrane surrounding the window without leaving perforations
- · Making the insertion of an instrument for lift and augmentation of the sinus membrane easy

### Sinus Graft Lateral Window Technique by Piezoelectrics

▶ Maxillary sinus bone grafting using the lateral approach technique.



Formation of windows around the maxillary left premolars and molars using a BS Piezo Tip.



Figure showing the safe formation of a window on the lateral maxillary sinus.



Separating the maxillary sinus membrane around the window at the initial stage using the SL01 after taking out the window bone block and thus preventing the tearing of the membrane resulting from a subsequent use of an instrument at the time of the initial separation of the sinus membrane



Figure showing the lift and augmentation of the sinus membrane without any rip and tear



Picture displaying a perfect elevation and the ensuing placement of dental prostheses (after nine months)

# SurgyStar Plus • Apicoectomy

### **Apicoectomy**







EX03

- When extracting remaining root rests
- · Easy removal can be made even in case of impacted third molars as well as of other hard to-extract teeth
- Easy extraction of teeth without damaging the bone of the thin Labial Plate and Buccal Plate about the anterior teeth
- Applied to Ridge expansion techniques aimed at narrow areas
- Used for bone surgery for both orthopedic and cosmetic purposes









Case of Apicoectomy on the Mx. ant. Teeth with EXO1, EX02











alveolar bone and severing the periodontal ligament fiber holding its root.



# SurgyStar Plus • Genioplasty



# Genioplasty



- Applied to the secondary bone cutting of chin
- Minimize bleeding during narrow bone cutting
- · Applicable to the sensitive and dangerous area in bone cutting
- Protective effect to the nerve and vessel damage

### Genioplasty









S.Y.HAN. MD. DDS. PHD

### Genioplasty I (Deviated chin surgery













S.Y.HAN, MD, DDS, PHD

# SurgyStar Plus • Zygomatic surgery

### **Zygoma reduction surgery**















S.Y.HAN, MD, DDS, PHD

### **Zygomatic arch cutting**





S.Y.HAN, MD, DDS, PHD

# SurgyStar Plus + Rhinoplasty



# Rhinoplasty



- Applicable to the aquiline nose bone polishing
- Offering useful & effecive surgical treatment without damage
- Perfect ideal solution for rhinoplasty









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