stomdevice

CE 0120

Surgical Usage : Dental - Dental Implant, Periodontal Surgery
Medical - Maxillo-facial Surgery, Nose Plasty & Other Plastic Surgery

ULTRASONIC PIEZO BONE SURGERY

SurgyStar Plus+



dmetec
www.dmetec.com

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SurgyStar Plus+ • Company history

No.12-119 KTL-ABR-124186

2014
- IEC 60601-1 3rd Edition
- IEC 60601-1-2 3rd Edition
- IEC 62366:2007(First Edition) for use in conjunction with IEC 60601-1-6:2010

2012
- Ultrasonic Piezo Implant Surgery (Surgystar) 510(K) FDA & SFDA Registration
- Ultrasonic Piezo Implant Surgery (Surgystar Plus) CE Certified

2011
- Registered Patant No. 1007192 Ultrasonic Surgery Tip

2009
- Certificate, The next generation of world-class product No.2009-322 / Industry and Energy
- Design registration (Tips for dental ultrasonic surgery) Registration No. 30-0523914 No. / KIPO
- Measurement device for scaler handpiece output, the Patent No. 10-0890233 / KIPO
- Piezotome to operate Sinus Membrane lift Patent No. 10-0884211/ KIPO

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.

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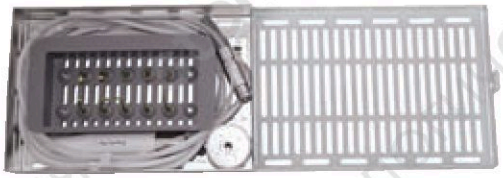
Main Unit

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



Autoclavable Tray

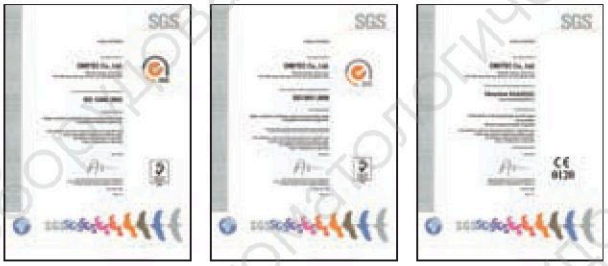
- Autoclavable with handpiece&cable, tip, water connecting tube, handpiece holder



Transformer

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





LED Optic Handpiece with Cable

- Autoclavable



Foot Switch

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



Dental Tips



Medical Tips

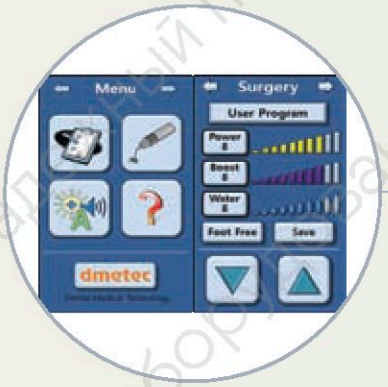


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SurgyStar Plus+ • Specification

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.



ULTRASONIC PIEZO BONE SURGERY

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- Working Frequency : 20 KHz ~ 30 KHz
- Dimension : 189mm (W) X 265mm (D) X 175mm (H)
- Good design with built in Peristaltic Pump.
- Automatic Protection Control : Shut down power and water supply in case of incorrect use of the handpiece and inserting tip.





Water Pump

- Easy to connect and change tubing.
- Adopting peristaltic pump, a certain amount of water supply is supplied.

Optic Handpiece

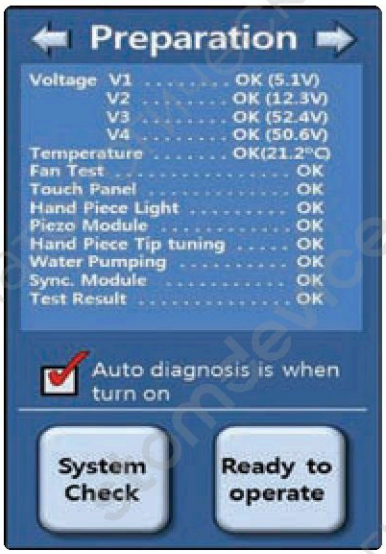
- Better visibility with optic handpiece (100,000 Lux)

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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.*



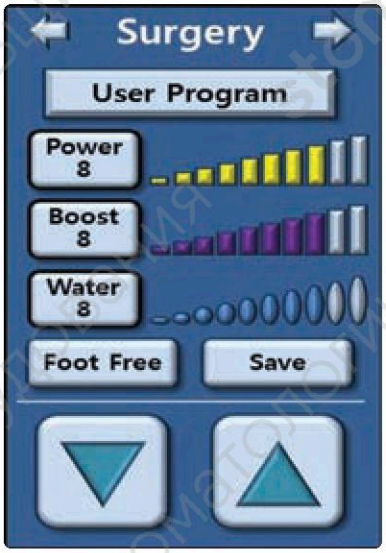
Menu





Surgery

Surgery (-Example of User program)
- *User Program : Name of user program. (10 User Programs are already being set)*
- *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.*

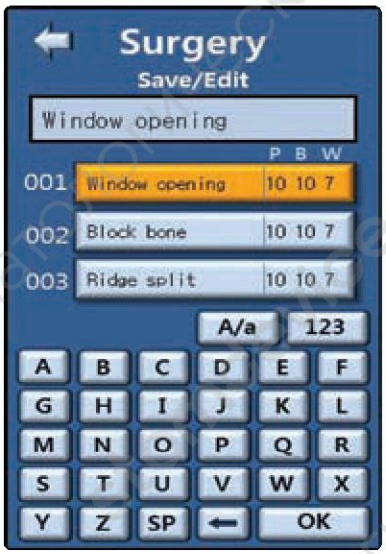
※ *PBW : Saved level of Power / Boost / Water.*



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Surgery Save/Edit

Additional program can be typed & set by user
- *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>*



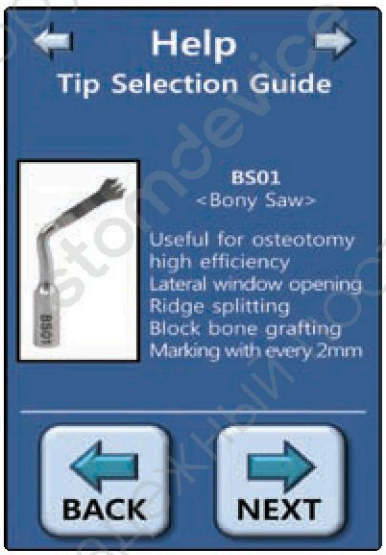
Help

Help
- *Tip selection guide*
- *Maintenance*
- *Warning*
- *Program information*



Help Tip Guide_1

Help / Tip Selection Guide
Tip information



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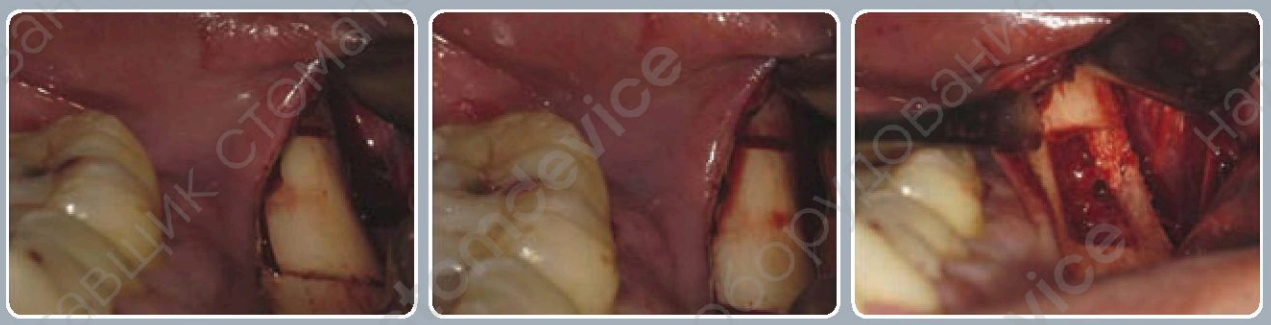
SurgyStar Plus+ • Bony Saw

Bony Saw



- 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

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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 First Premolar



Vertical and Horizontal Buccal corticotomies completed



Final suture after surgery

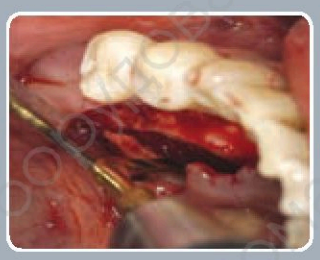


Case completed 3 months after corticotomy



Close-up case completed 3 months after corticotomy

Torus Removal







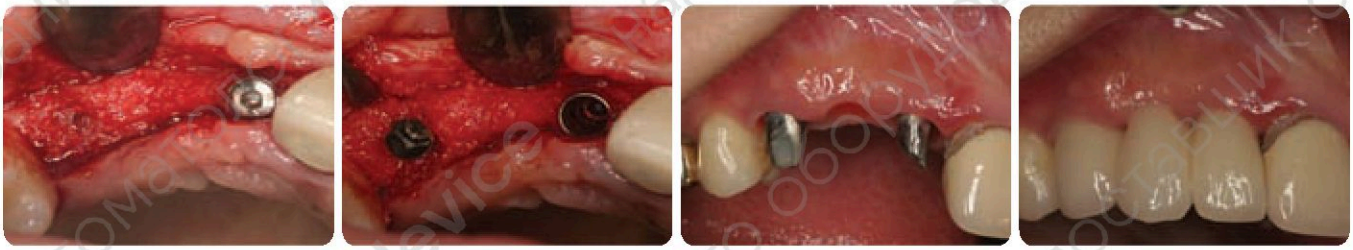


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Ridge Split



Ridge splitting & simultaneous implants placement combined GBR



5 months healing state after surgery & follow-up prosthesis

Bone Harvesting



HB01 HB02

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



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Sinus membrane elevator

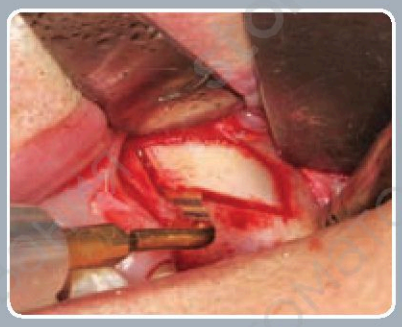


SL01

- 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 lifting and augmentation of the sinus membrane easily

Sinus Graft Lateral Window Technique by Surgystar Plus

▶ 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

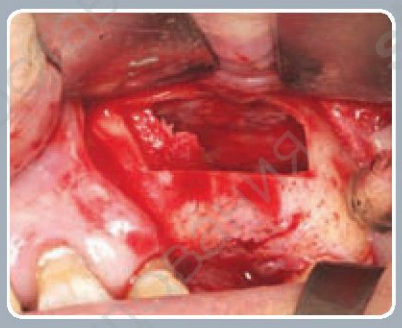
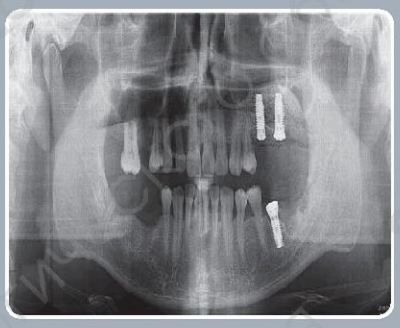


Figure showing the lift and augmentation of the sinus membrane without any rip and tear



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

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Apicoectomy



EX01



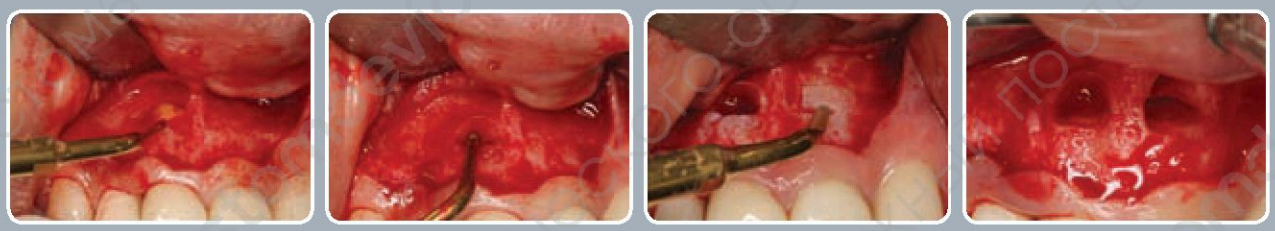
EX02



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 on the anterior teeth
- Applied to Ridge expansion techniques aimed at narrow areas
- Used for bone surgery for both orthopedic and cosmetic purposes

Apicoectomy



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



Case of Apicoectomy on the Mn. post. Tooth with EX02, EX03

Periotome



Extraction can be simply made without damage on the alveolar bone by putting the EX01 Tip between the root of a tooth to be removed and its alveolar bone and severing the periodontal ligament fiber holding its root.

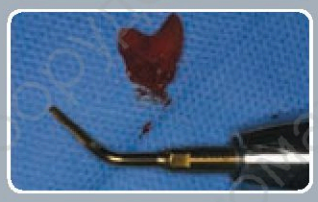


Figure showing the removal of the tooth without any damage on the labial plate

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Genioplasty



RS01

- 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 Ⅰ



S.Y.HAN, MD, DDS, PHD

Genioplasty Ⅱ (Deviated chin surgery)



S.Y.HAN, MD, DDS, PHD

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Zygoma reduction surgery



S.Y.HAN, MD, DDS, PHD

Zygomatic arch cutting



S.Y.HAN, MD, DDS, PHD

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Rhinoplasty



P01

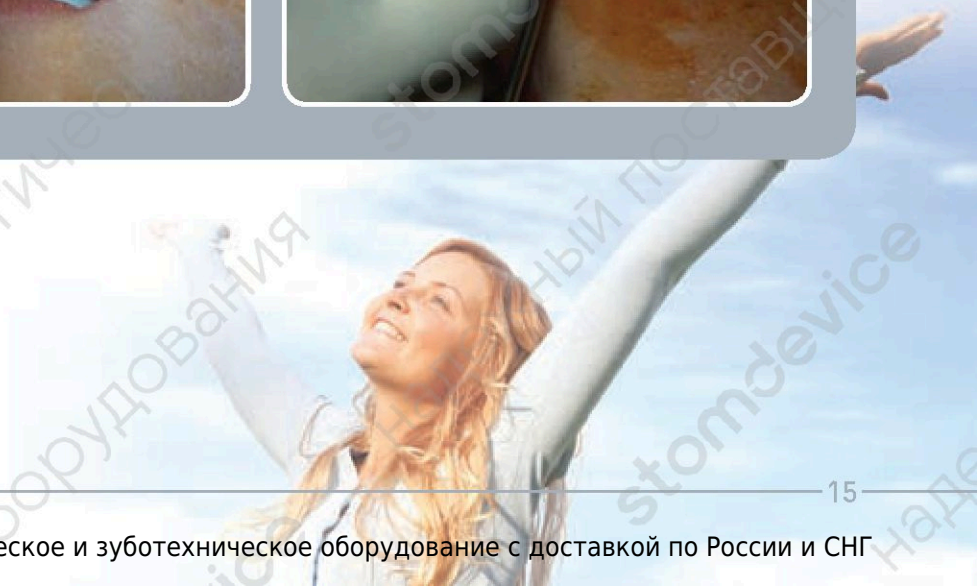
- Applicable to the aquiline nose bone polishing
- Offering useful & effecive surgical treatment without damage
- Perfect ideal solution for rhinoplasty











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