

Create it 

TIP GUIDE

ULTRASONIC  
SURGERY



**NSK**

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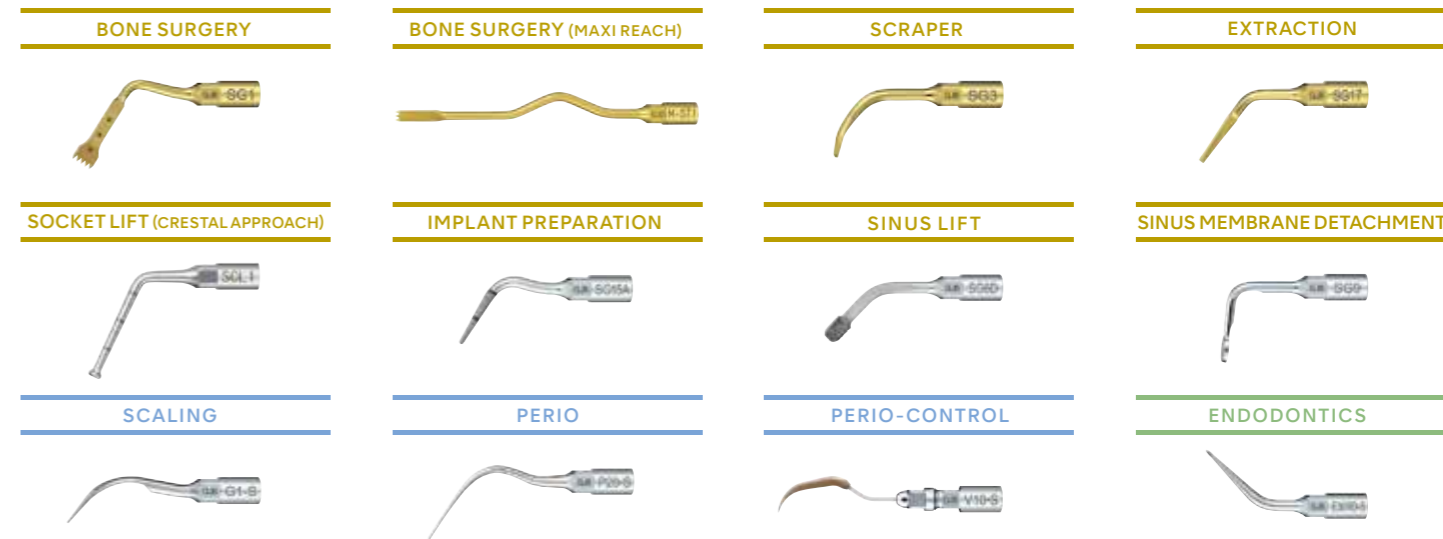
\*Pictures provided by Yasuhiro Kizu, D.D.S., Ph.D.  
OMFC (ORAL & MAXILLOFACIAL CARE CLINIC YOKOHAMA)


# VARIOSURG TIP LINEUP

- SURG** SURG mode for bone surgery
- PERIO** PERIO mode for maintenance
- ENDO** ENDO mode for root canal treatment



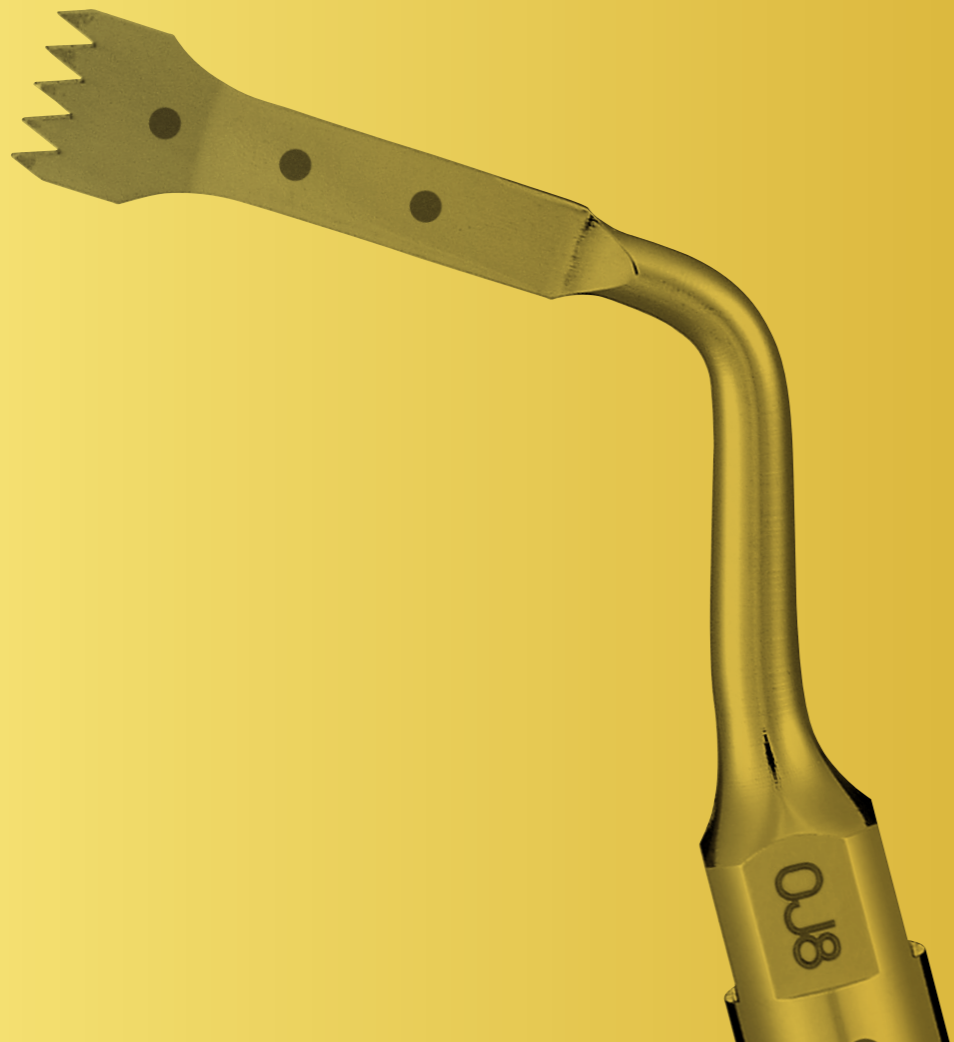
The tips are designed to preserve tissue, maintain cutting speed and easily cut into bone. Sawlike teeth on an uneven blade edge enhances bone cutting. This also reduces clogging to maintain cutting speed.



 Washable in the Thermodisinfectant

 Autoclavable

**HIGH POWER** Tips that correspond to high power can be used up to 150% of the power setting.

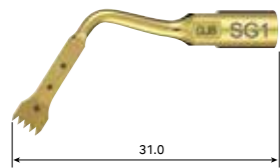


**BONE SURGERY**

# BONE SURGERY

For chin bone harvests, notably for the mental foramen and mandibular ramus. For general bone surgery.

MODEL **SG1** POWER LEVEL **SURG** 80%

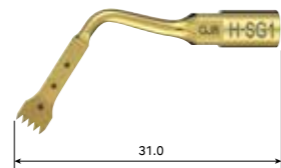


ORDER CODE  
**Z305101**

- TiN coating • Dots mark 3, 6 and 9 mm from tip end
- Five teeth; 0.6 mm thick

MODEL **H-SG1** POWER LEVEL **SURG** 150%

HIGH POWER

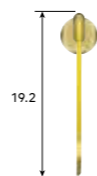
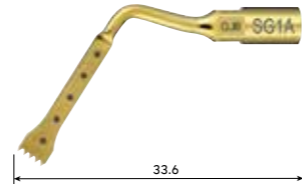


ORDER CODE  
**Z305151**

- TiN coating • Dots mark 3, 6 and 9 mm from tip end
- Five teeth; 0.6 mm thick

MODEL **SG1A** POWER LEVEL **SURG** 80%

For use in deeper regions requiring longer tips.



ORDER CODE  
**Z305138**

- TiN coating • Dots mark 3, 6, 9, 12 and 15 mm from tip end
- Five teeth; 0.6 mm thick

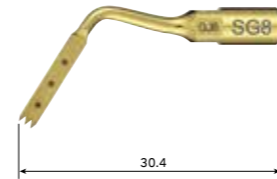


Unilateral anterior mandibular sampling  
**SG1, H-SG1, SG1A**

# BONE SURGERY

For clinical cases where movement is restricted around the end of the tip.

MODEL **SG8** POWER LEVEL **SURG** 80%

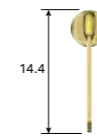
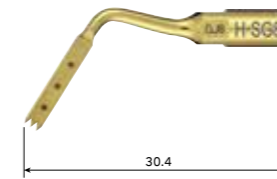


ORDER CODE  
**Z305109**

- TiN coating • Dots mark 3, 6 and 9 mm from tip end
- Three teeth; 0.6 mm thick

MODEL **H-SG8** POWER LEVEL **SURG** 150%

HIGH POWER

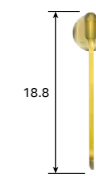
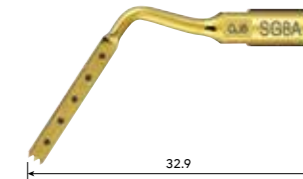


ORDER CODE  
**Z305155**

- TiN coating • Dots mark 3, 6 and 9 mm from tip end
- Three teeth; 0.6 mm thick

MODEL **SG8A** POWER LEVEL **SURG** 80%

For use in deeper regions requiring longer tips.



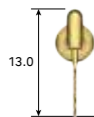
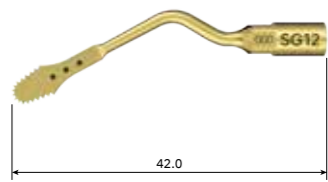
ORDER CODE  
**Z305139**

- TiN coating • Dots mark 3, 6, 9, 12 and 15 mm from tip end
- Three teeth; 0.6 mm thick

# BONE SURGERY

For harvesting bone from the mandibular ramus.

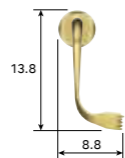
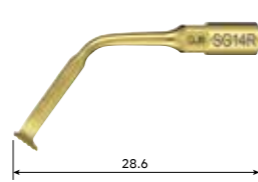
MODEL **SG12** POWER LEVEL **SURG** 100%



ORDER CODE  
**ZT02010001**

- TiN coating • Dots mark 6, 8 and 10 mm from tip end
- Eighteen teeth; 0.35 mm thick

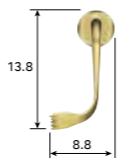
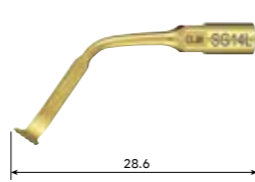
MODEL **SG14R** POWER LEVEL **SURG** 80%



ORDER CODE  
**Z305122**

- TiN coating • 90 degree right curved tip\*
- Five teeth; 0.6 mm thick

MODEL **SG14L** POWER LEVEL **SURG** 80%



ORDER CODE  
**Z305123**

- TiN coating • 90 degree left curved tip\*
- Five teeth; 0.6 mm thick



Anterior mandibular harvesting  
**SG14R, SG14L**

\* The direction of the tip's curve is defined by the tip's anterior view.

# BONE SURGERY

For harvesting bone from the mandibular ramus.

MODEL **H-SG8R** POWER LEVEL **SURG** 150%

HIGH POWER

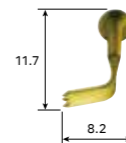
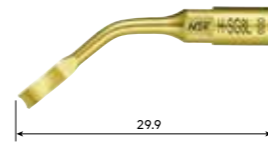


ORDER CODE  
**Z305156**

- TiN coating • 90 degree right curved tip\*
- Three teeth; 0.6 mm thick

MODEL **H-SG8L** POWER LEVEL **SURG** 150%

HIGH POWER



ORDER CODE  
**Z305157**

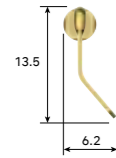
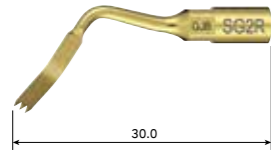
- TiN coating • 90 degree left curved tip\*
- Three teeth; 0.6 mm thick

\* The direction of the tip's curve is defined by the tip's anterior view.

# BONE SURGERY

For excisions in areas with inclines or projections which are otherwise hard to access with SG1 and other regular tips.

MODEL **SG2R** POWER LEVEL **SURG** 80%



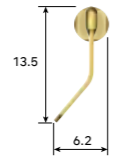
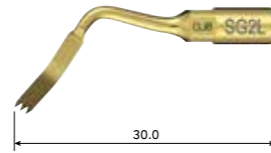
ORDER CODE  
**Z305102**

- TiN coating • Right curved tip\*
- Three teeth; 0.6 mm thick



Excision of bone torus  
**SG2R, SG2L**

MODEL **SG2L** POWER LEVEL **SURG** 80%

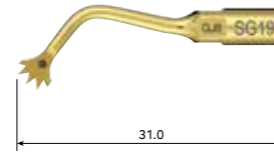


ORDER CODE  
**Z305103**

- TiN coating • Left curved tip\*
- Three teeth; 0.6 mm thick

MODEL **SG19** POWER LEVEL **SURG** 80%

For cutting curved surfaces.



ORDER CODE  
**Z305135**

- TiN coating • Dot mark 3 mm from tip end
- Five teeth; 0.8 mm thick



Mandibular harvesting at approach stage  
**SG19**

For regions that are hard to access with regular tips, notably the posterior mandible or curved areas.

# BONE SURGERY

MODEL **SG30** POWER LEVEL **SURG** 50%

For narrow cutting to reduce bone loss. Also suitable for corticotomies.



ORDER CODE  
**Z305137**

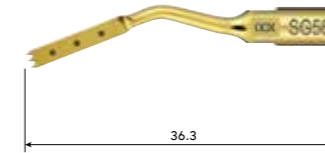
- TiN coating • Sharp edge • 0.5 mm thick



Alveolar crestal incision for harvesting bone (when narrowing bone cuts)  
**SG30**

MODEL **SG58** POWER LEVEL **SURG** 80%

For removing tori on the posterior mandible or mandibular lingual surface.



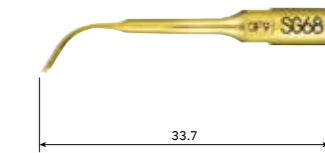
ORDER CODE  
**Z305141**

- TiN coating • Dots mark 3, 6 and 9 mm from tip end
- Three teeth; 0.6 mm thick



The cutting part is bone torus  
**SG58**

MODEL **SG68** POWER LEVEL **SURG** 80%



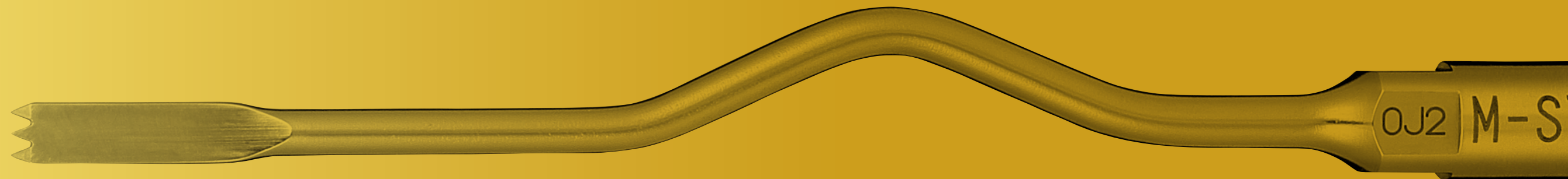
ORDER CODE  
**Z305143**

- TiN coating • Marking every 2 and 4 mm from top of tip (Single side)
- Three teeth; 0.6 mm thick



Vertical osteotomy for harvesting bone  
**SG68**

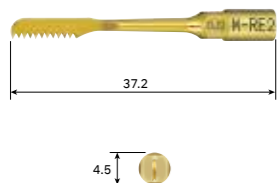
\* The direction of the tip's curve is defined by the tip's anterior view.



**BONE SURGERY**  
**(MAXI REACH)**

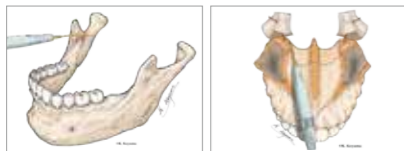
# BONE SURGERY (MAXI REACH)

MODEL **M-RE2** POWER LEVEL **SURG** 80%



ORDER CODE  
**Z305715**

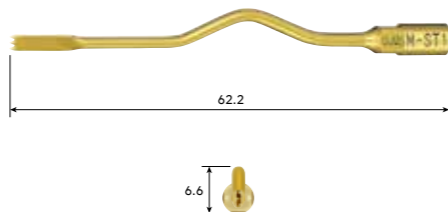
- TiN coating • Eleven teeth
- 0.6 mm thick



**Mandibular ramus SSRO**  
Horizontal osteotomy lines on the medial aspect.

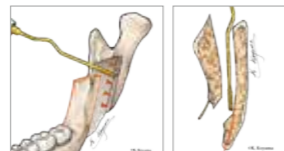
**Le Fort type I osteotomy**  
Trimming near the descending palatine artery.

MODEL **M-ST1** POWER LEVEL **SURG** 80%



ORDER CODE  
**Z305713**

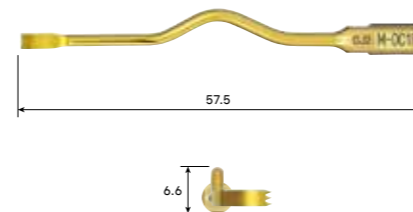
- TiN coating • Three teeth
- 0.6 mm thick



**Mandibular ramus SSRO**  
Separation of cortical and maritime bone during sagittal division.

# BONE SURGERY (MAXI REACH)

MODEL **M-OC1R** POWER LEVEL **SURG** 80%



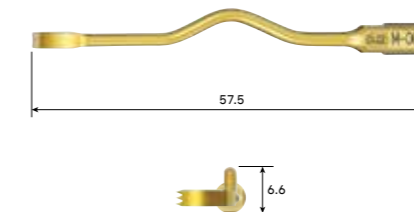
ORDER CODE  
**Z305709**

- TiN coating • Dots mark 2 mm from tip end • Right curved tip\*
- 3 teeth; 0.6 mm thick



**Le Fort type I osteotomy**  
Pterygomaxillary junction dissection.

MODEL **M-OC1L** POWER LEVEL **SURG** 80%



ORDER CODE  
**Z305710**

- TiN coating • Dots mark 2 mm from tip end • Left curved tip\*
- 3 teeth; 0.6 mm thick



**Mandibular ramus SSRO**  
Mandibular branch vertical osteotomy (IVRO)  
Assignment of starting point and guide grooves.

\* The direction of the tip's curve is defined by the tip's anterior view.

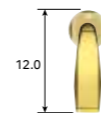
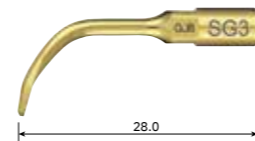
# SCRAPER



For flattening the alveolar crest or harvesting bone fragments. **SCRAPER**

MODEL **SG3**

POWER LEVEL **SURG** 80%



ORDER CODE

**Z305104**

- TiN coating • Triple sided edge spatula tip
- Single-edged scraper

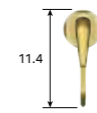


Alveolar crest flattening

**SG3**

MODEL **SG4**

POWER LEVEL **SURG** 80%



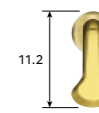
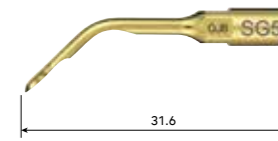
ORDER CODE

**Z305105**

- TiN coating • Edge spatula tip
- Double-edged scraper

MODEL **SG5**

POWER LEVEL **SURG** 80%



ORDER CODE

**Z305106**

- TiN coating • Rounded edge spatula tip
- Single-edged scraper



Osteoplasties

**SG5**

For removal of diseased granulation tissues from extraction sites.



# EXTRACTION

Ruptures the periodontal ligament to streamline suture removal. Also effective in extracting ankylosed teeth. **EXTRACTION**

MODEL **SG17**

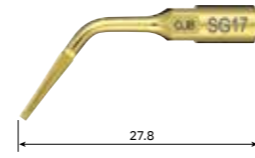
POWER LEVEL **SURG** 80%

MODEL **SG18R**

POWER LEVEL **SURG** 50%

MODEL **SG18L**

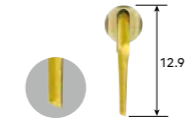
POWER LEVEL **SURG** 50%



ORDER CODE

**Z305132**

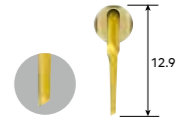
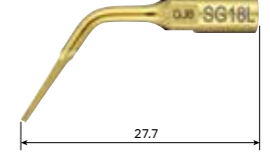
• TiN coating • 0.7 mm thick



ORDER CODE

**Z305133**

• TiN coating • Right angled tip\* • 0.7 mm thick



ORDER CODE

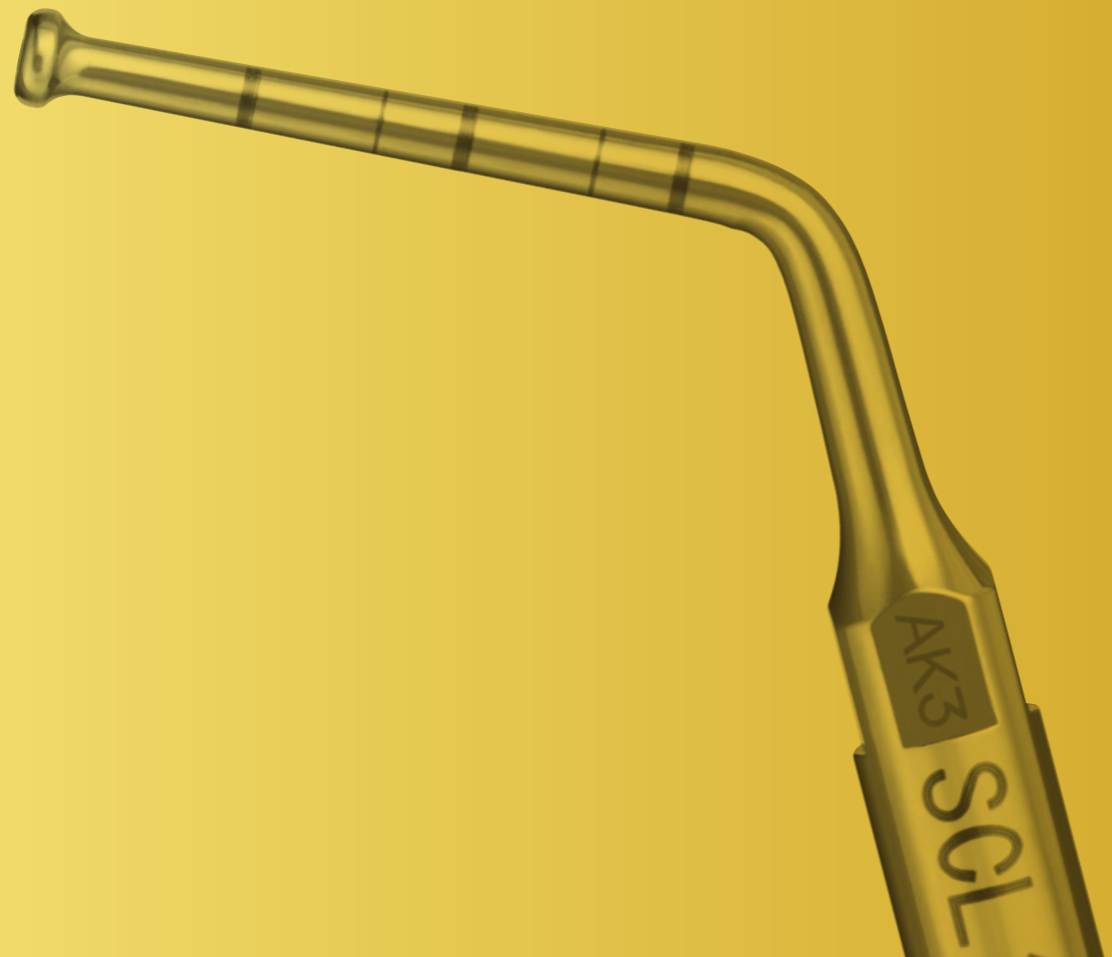
**Z305134**

• TiN coating • Left angled tip\* • 0.7 mm thick



Extraction  
**SG17, SG18R, SG18L**

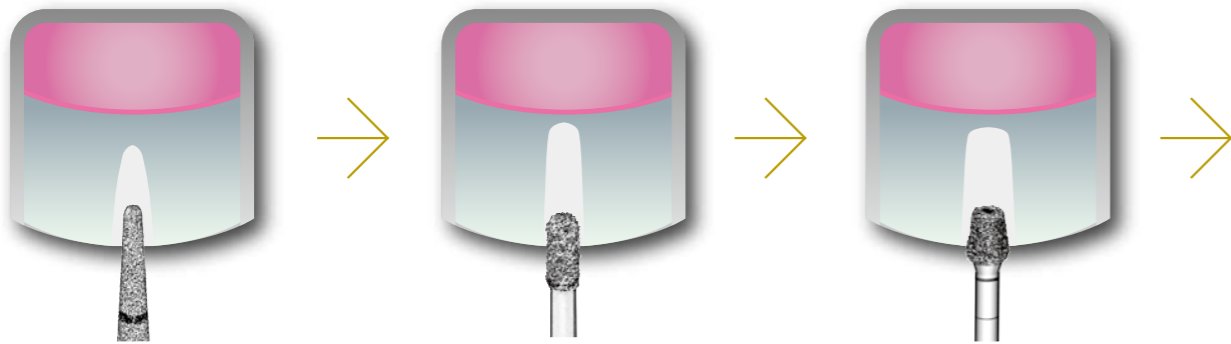
\* The direction of the tip's angle is defined by the tip's anterior view.



**SOCKET LIFT  
(CRESTAL APPROACH)**

## SOCKET LIFT (CRESTAL APPROACH) Socket lift procedures.

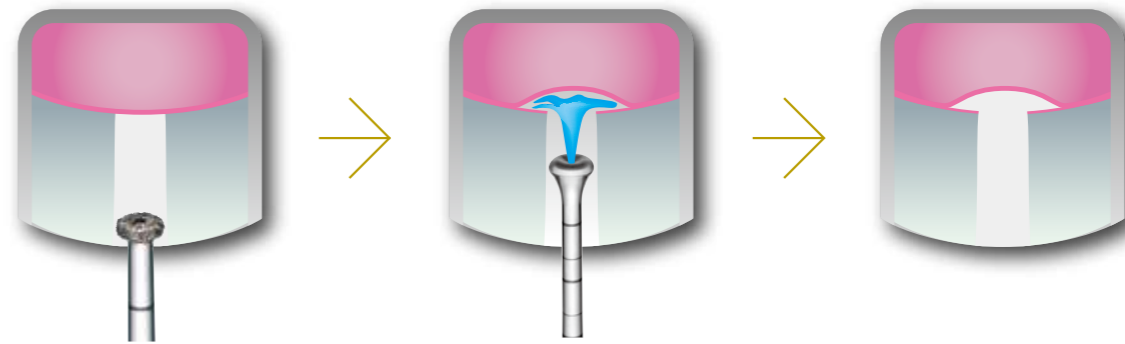
The socket lift tip enhances the safety of procedures, being less invasive and enabling sinus lifts with short chair times.  
Osteotomy with ultrasonic vibration reduces the risk of damage to the Schneiderian membrane.  
Eliminating hammering taps through the osteotome technique reduces patient discomfort and potential dizziness.



A starting point is added to trigger bone formation.

Bone formation to prepare implant site.

Implant site expansion and formation.



Maxillary sinus perforation and bone formation on alveolar ridge.

Reliably elevate the maxillary sinus membrane with internal irrigation.

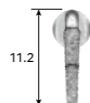
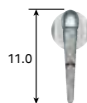
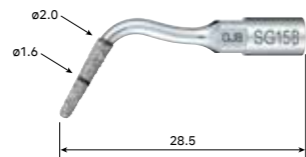
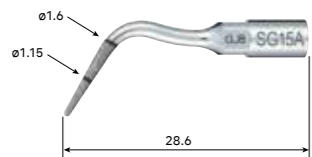
Forms implant preparation site once maxillary sinus membrane is elevated.

# IMPLANT PREPARATION

For preparation of implant sites, adding starting points, and other steps.

MODEL **SG15A** POWER LEVEL **SURG** 50%

MODEL **SG15B** POWER LEVEL **SURG** 50%



ORDER CODE  
**A1013841**

ORDER CODE  
**A1013842**

- Diamond coating • Tip-end diameter; 0,7 mm
- Markings every 5 mm and 10 mm from tip end

- Diamond coating • Tip-end diameter; 1,3 mm
- Markings every 5 mm and 10 mm from tip end



Implant preparation  
**SG15A, SG15B**

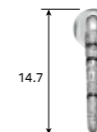
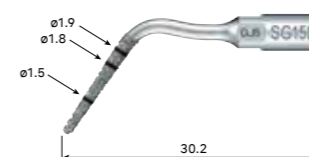
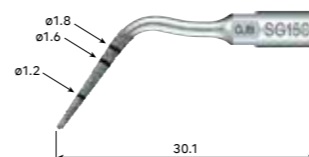


# IMPLANT PREPARATION

For preparation of implant sites, flattening bone surfaces, and other steps.

MODEL **SG15C** POWER LEVEL **SURG** 50%

MODEL **SG15D** POWER LEVEL **SURG** 50%



ORDER CODE  
**A1013843**

ORDER CODE  
**A1013844**

- Diamond coating • Tip-end diameter; 0,9 mm
- Markings every 5 mm, 10 mm and 12 mm from tip end

- Diamond coating • Tip-end diameter; 1,3 mm
- Marking every 5 mm, 10 mm and 12 mm from tip end



Implant preparation  
**SG15C, SG15D**

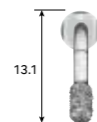
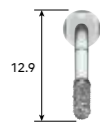
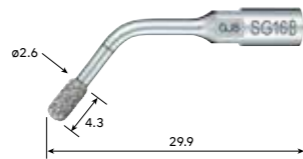
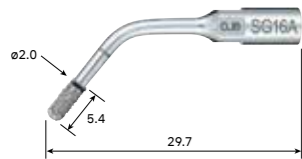


# IMPLANT PREPARATION

For expanding and forming implant preparation site when approaching from the alveolar crest.

MODEL **SG16A** POWER LEVEL **SURG** 50%

MODEL **SG16B** POWER LEVEL **SURG** 50%



ORDER CODE  
**A1013845**

ORDER CODE  
**A1013846**

- Diamond coating • Diameter; 2,0 mm
- Markings every 5 mm and 10 mm from tip end

- Diamond coating • Diameter; 2,6 mm
- Markings every 5 mm and 10 mm from tip end



Implant preparation  
**SG16A**



Implant preparation  
**SG16B**



For expanding and forming implant preparation site when approaching from the alveolar crest.

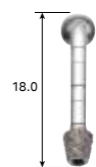
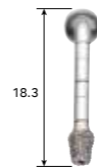
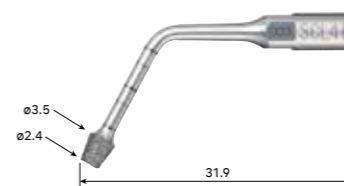
# IMPLANT PREPARATION

MODEL **SCL2D** POWER LEVEL **SURG** 50%

MODEL **SCL4D** POWER LEVEL **SURG** 80%

INTERNAL IRRIGATION

INTERNAL IRRIGATION

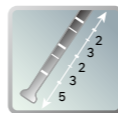


ORDER CODE  
**A1013852**

ORDER CODE  
**A1013854**

- Diamond coating

- Diamond coating



Implant preparation site depth can be measured using markings on the tip.



Formation of implant preparation site  
**SCL2D, SCL4D**

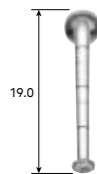


# SOCKET LIFT (CRESTAL APPROACH)

For procedures such as osteotomy of maxillary sinus approaching from the alveolar crest and implant preparation site adjustments.

MODEL **SCL1D** POWER LEVEL **SURG** 80%

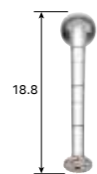
INTERNAL IRRIGATION



ORDER CODE  
**A1013851**

MODEL **SCL3D** POWER LEVEL **SURG** 80%

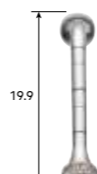
INTERNAL IRRIGATION



ORDER CODE  
**A1013853**

MODEL **SCL5D** POWER LEVEL **SURG** 80%

INTERNAL IRRIGATION



ORDER CODE  
**A1013855**

• Diamond coating

• Diamond coating

• Diamond coating



Implant preparation site depth can be measured using markings on the tip.



Cutting the cavity floor of implant preparation site  
**SCL1D, SCL3D, SCL5D**

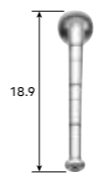
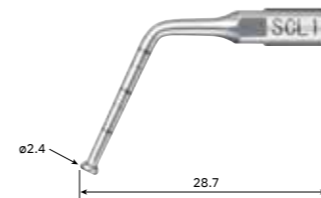


Elevating the sinus membrane with internal irrigation approaching from alveolar crest.

# SOCKET LIFT (CRESTAL APPROACH)

MODEL **SCL1** POWER LEVEL **SURG** 50%

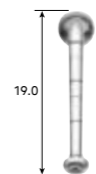
INTERNAL IRRIGATION



ORDER CODE  
**Z305170**

MODEL **SCL3** POWER LEVEL **SURG** 50%

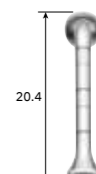
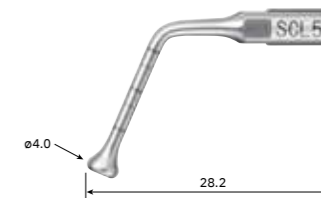
INTERNAL IRRIGATION



ORDER CODE  
**Z305172**

MODEL **SCL5** POWER LEVEL **SURG** 50%

INTERNAL IRRIGATION



ORDER CODE  
**Z305174**



Implant preparation site depth can be measured using markings on the tip.



Before the mucous membrane of maxillary sinus is elevated  
**SCL1, SCL3, SCL5**



# SINUS LIFT

For bone fenestration and bone formations.

MODEL **SG6D** POWER LEVEL **SURG** 80%



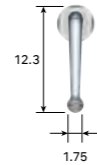
ORDER CODE  
**A1013839**

• Diamond coating



Avulsion of wisdom teeth and impacted teeth  
**SG6D**

MODEL **SG7D** POWER LEVEL **SURG** 50%



ORDER CODE  
**A1013840**

• Diamond coating

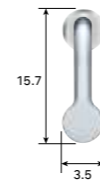
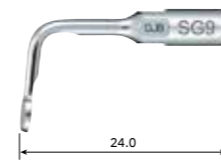


Lateral maxillary posterior bone augmentation  
**SG7D**

# SINUS MEMBRANE DETACHMENT

For detachment and elevation of the maxillary sinus membrane.

MODEL **SG9** POWER LEVEL **SURG** 50%



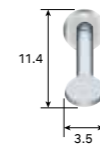
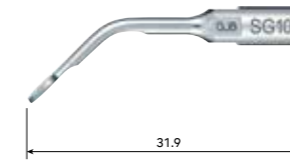
ORDER CODE  
**Z305110**

• Flat circular convex elevator • Angled at 90°



Sinus membrane detachment  
**SG9, SG10**

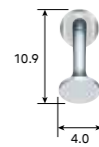
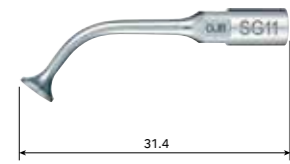
MODEL **SG10** POWER LEVEL **SURG** 50%



ORDER CODE  
**Z305111**

• Flat circular convex elevator • Angled at 135°

MODEL **SG11** POWER LEVEL **SURG** 50%

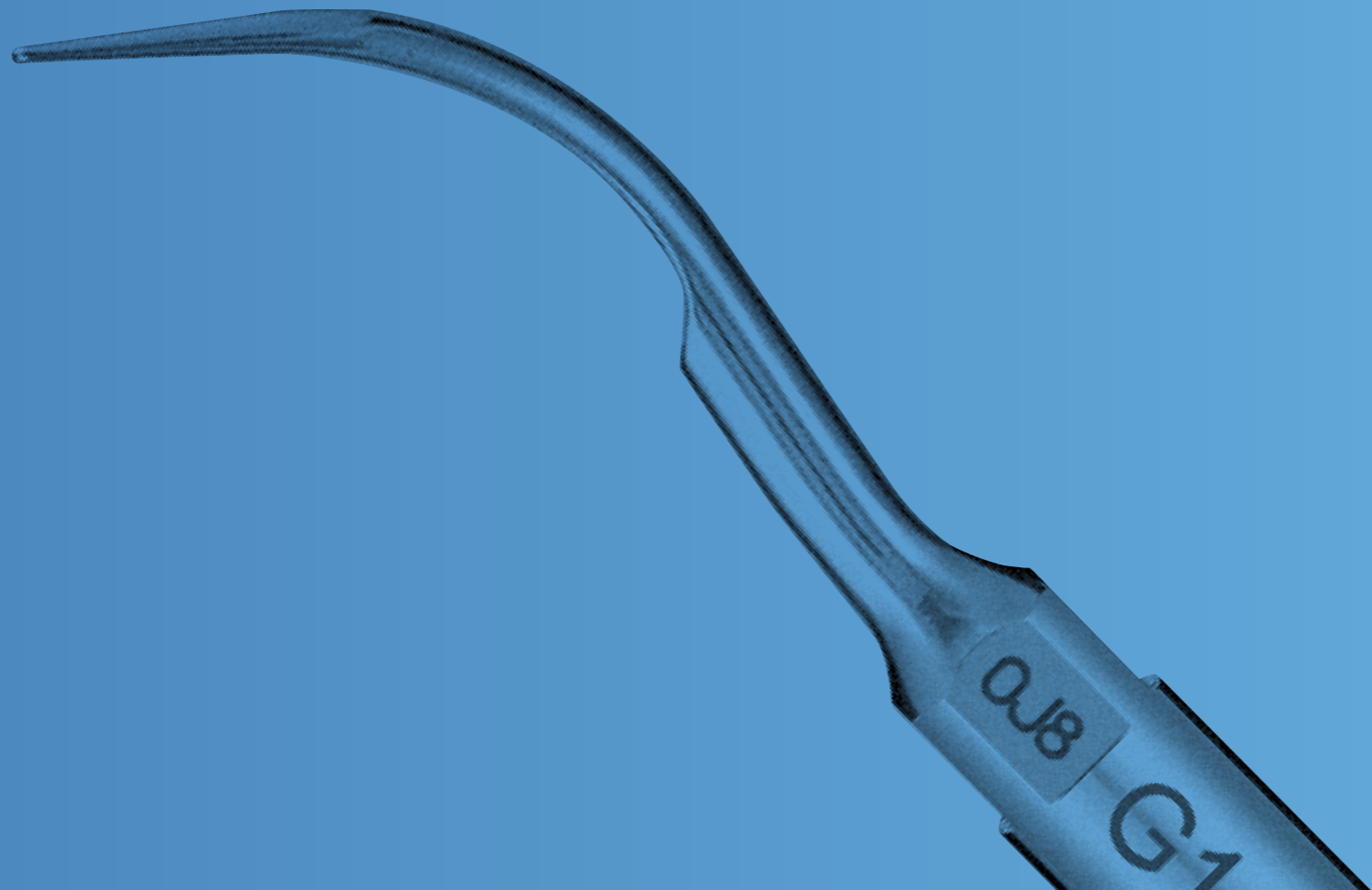


ORDER CODE  
**Z305112**

• Cone compressor



Sinus membrane elevation  
**SG11**

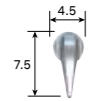


SCALING

# SCALING

Removal of supra gingival tartar, tartar narrow interdental space, marginal gingival calculus.

MODEL **G1-S** POWER LEVEL **SURG** 50%



ORDER CODE  
**Z305113**

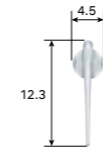
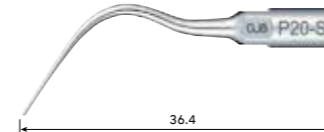


Single rooted / Multi rooted  
**G1-S**

# PERIO

Removal of gingival biofilm.

MODEL **P20-S** POWER LEVEL **PERIO** 100%



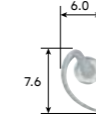
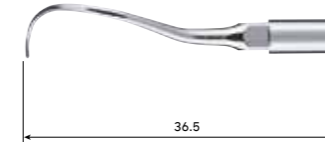
ORDER CODE  
**Z305114**



Single rooted / Multi rooted  
**P20-S**

MODEL **P25R-S** POWER LEVEL **PERIO** 100%

Removal of Biofilm furcation area.



ORDER CODE  
**Z305115**

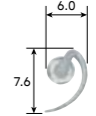
\* Right curved type\*



Single rooted / Multi rooted  
**P25R-S, P25L-S**

MODEL **P25L-S** POWER LEVEL **PERIO** 100%

Removal of Biofilm furcation area.



ORDER CODE  
**Z305116**

\* Left curved type\*

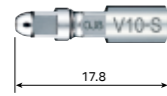
\* The direction of the tip's curve is defined by the tip's anterior view.

MODEL **V10-S** POWER LEVEL **PERIO** 100%

MODEL **V-P10**



For the maintenance of prostheses and implants. Produced from special material to allow safe debridement without causing damage to metals and implants.



ORDER CODE

**Z305117**

ORDER CODE

**Y900184**

- Includes E-Tip replacement wrench
- Plastic Tip is not included

- Pack of 3
- V10-S holder is not included



V-P10

MODEL **V-P11R**

MODEL **V-P11L**

MODEL **V-P12**

Double bent tips. This tip is extra long to easily access difficult-to-reach areas and to avoid interference with neighboring teeth or contours.

A longer version of the popular V-P10 tip.



ORDER CODE

**Y1002165**

ORDER CODE

**Y1002166**

ORDER CODE

**Y1002167**

- Pack of 3 • Right curved type\*
- V10-S holder is not included

- Pack of 3 • Left curved type\*
- V10-S holder is not included

- Pack of 3
- V10-S holder is not included



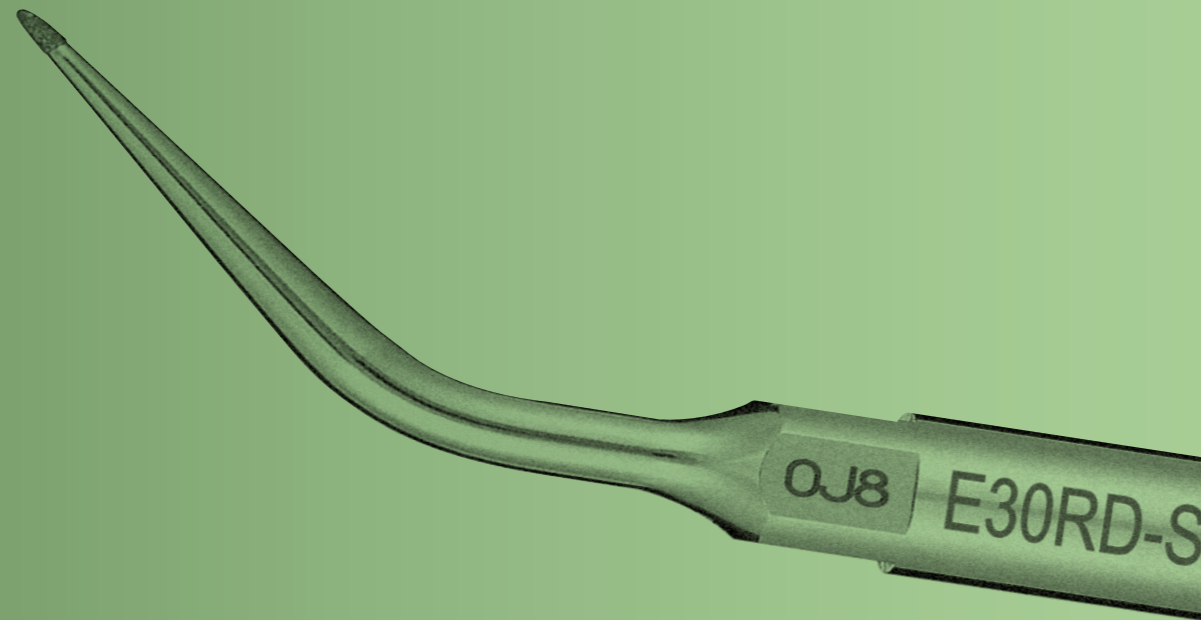
V-P11R, V-P11L



V-P12

■ V-P11R/L, V-P12 can be used only for VarioSurg 3 \*The direction of the tip's curve is defined by the tip's anterior view.

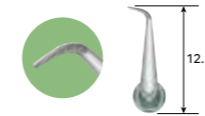
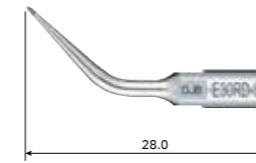
# ENDODONTICS



The microscopic diamond-coated tip allows effective removal of dentin at the apex.

## ENDODONTICS

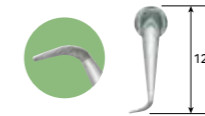
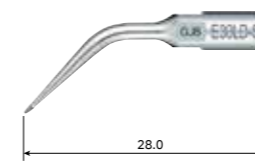
MODEL **E30RD-S** POWERLEVEL ENDO 50%    MODEL **E30LD-S** POWERLEVEL ENDO 50%    MODEL **E31D-S** POWERLEVEL ENDO 50%    MODEL **E32D-S** POWERLEVEL ENDO 50%



ORDER CODE

**A1013847**

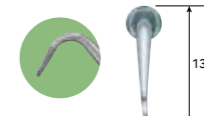
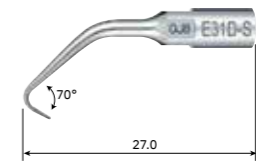
- Diamond coating
- For posterior teeth (right angled\*)



ORDER CODE

**A1013848**

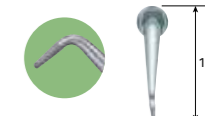
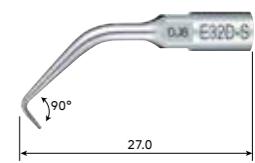
- Diamond coating
- For posterior teeth (left angled\*)



ORDER CODE

**A1013849**

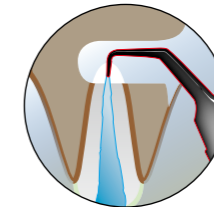
- Diamond coating
- For anterior and posterior teeth (70°)



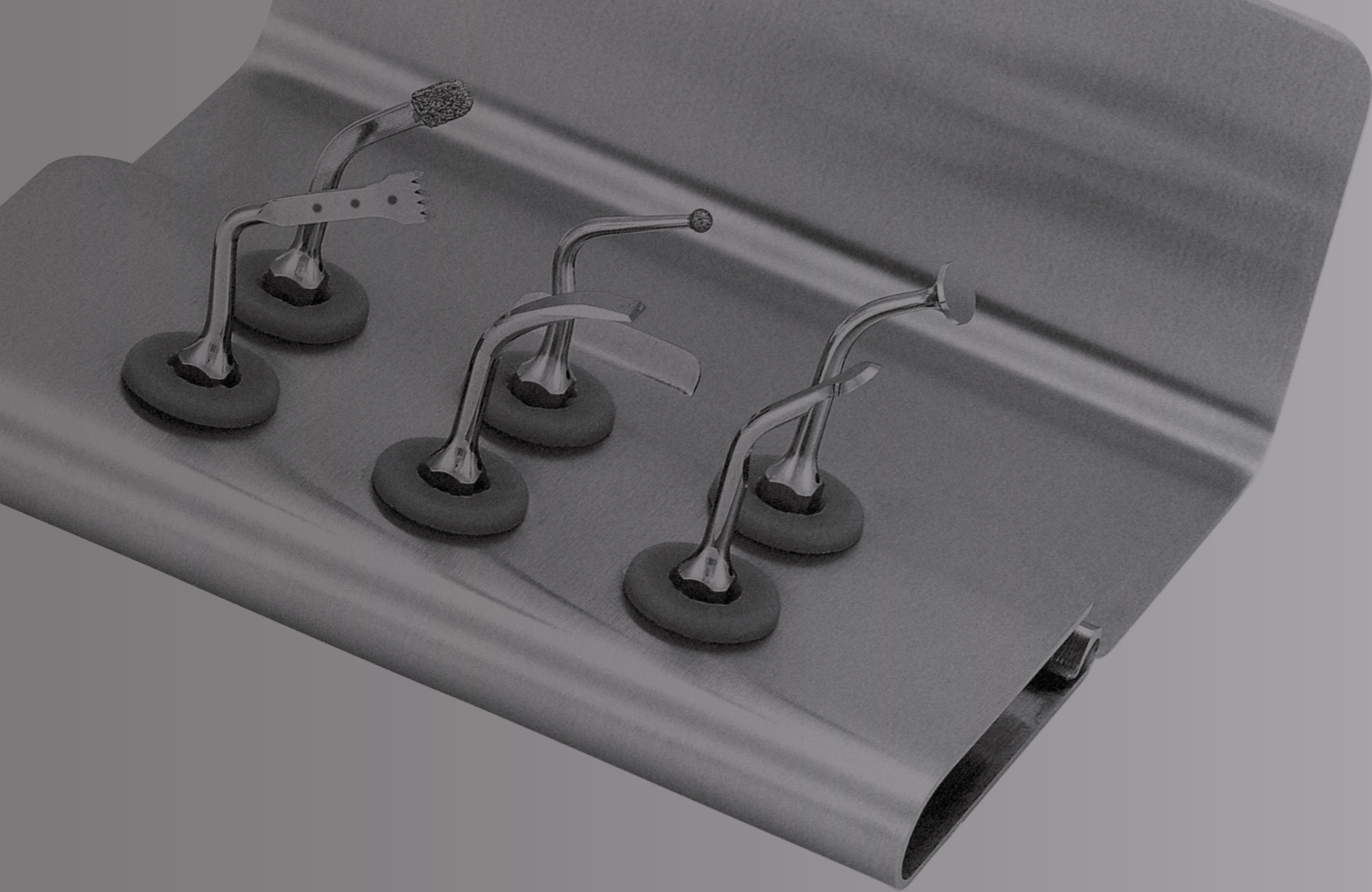
ORDER CODE

**A1013850**

- Diamond coating
- For anterior teeth (90°)



\* The direction of the tip's angle is defined by the tip's anterior view.



TIP KIT

## MODEL Basic H-S Kit

### Contents

- H-SG1, SG3, SG5, SG6D, SG7D, SG11
- Tip holder



BONE SURGERY  
SINUS LIFT  
SCRAPER  
SINUS MEMBRANE DETACHMENT

ORDER CODE

A1013864

## MODEL Bone Cut Kit

### Contents

- SG1, SG2R, SG4, SG2L, SG6D
- Tip holder



BONE SURGERY

ORDER CODE

A1013865

## MODEL Implant Preparation Kit

### Contents

- SG15A, SG15B, SG16A, SG16B
- Tip holder



IMPLANT PREPARATION

ORDER CODE

A1013868

## MODEL Socket Lift (CRESTAL APPROACH) Kit for Regular Size Implant

### Contents

- SCL1D, SCL2D, SCL1
- VS Tip Wrench • Tip holder • Manual



SOCKET LIFT (CRESTAL APPROACH)

ORDER CODE

A1013870

## MODEL Sinus Lift Kit

### Contents

- SG1, SG3, SG6D, SG9, SG10, SG11
- Tip holder



SINUS LIFT

ORDER CODE

A1013866

## MODEL Endo-S Kit

### Contents

- G1-S, E30RD-S, E30LD-S, E31D-S, E32D-S
- Tip holder



ENDODONTICS

ORDER CODE

A1013867

## MODEL Socket Lift (CRESTAL APPROACH) Kit for Wide Size Implant

### Contents

- SCL2D, SCL3D, SCL4D, SCL3
- VS Tip Wrench • Tip holder • Manual



SOCKET LIFT (CRESTAL APPROACH)

ORDER CODE

A1013872

## MODEL Basic-S Kit

### Contents

- SG1, SG3, SG5, SG6D, SG7D, SG11
- Tip holder



BONE SURGERY  
SINUS LIFT  
SCRAPER  
SINUS MEMBRANE DETACHMENT

ORDER CODE

A1013862

# VarioSurg 4

## Advantages

- Super slim handpiece with LED
- Extensive tip range for a wide range of applications
- Link 2 system with Surgic Pro2 (implant motor)



## Complete Set

Optic	MODEL	ORDER CODE
●	<b>VarioSurg 4 (120V)</b>	<b>Y1500705</b>

### Contents

- Control Unit
- LED Handpiece with 2m cord
- FC-86 Foot Control
- Sterilization Cassette
- Handpiece Stand
- Irrigation tube (3 pcs.) and other accessories
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

### Specifications (Control Unit)

- Frequency : 28-32 kHz
- Power Supply : AC100 - 240V 50/60 Hz
- Max. Pump Output : 76 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W 245 x D 235 x H 90 mm

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Manufacturer

**NAKANISHI INC.** [www.nsk-dental.com](http://www.nsk-dental.com)  
700 Shimohinata, Kanuma, Tochigi 322-8666, Japan

**NSK America Corp.** [www.nskdental.com](http://www.nskdental.com)  
1800 Global Parkway, Hoffman Estates, IL 60192, USA

Specifications are subject to change without notice.