

Create it 

TIP GUIDE

ULTRASONIC BONE  
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. Saw like teeth on an uneven blade edge enhances bone cutting. This also reduces clogging to maintain cutting speed.

<b>BONE SURGERY</b>	<b>SCRAPER</b>	<b>EXTRACTION</b>	<b>SOCKET LIFT (CRESTAL APPROACH)</b>
			
<b>IMPLANT PREPARATION</b>	<b>SINUS LIFT</b>	<b>SINUS MEMBRANE DETACHMENT</b>	<b>SCALING</b>
			
<b>PERIO</b>	<b>PERIO-CONTROL</b>	<b>ENDODONTICS</b>	<b>TIP KIT</b>
			

 Washable in the Thermodisinfecter

 Autoclavable

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

# VarioSurg 3

## EVOLVED POTENTIAL

### Embodying the Pursuit of Perfection

Ultrasonic bone surgery systems are essential in modern surgical and implant treatment. The powerful VarioSurg3 handpiece features a slim and lightweight body that ensures minimal hand fatigue and outstanding visibility. A variety of tips makes procedures easier and stress-free to help provide more precise and efficient treatment.



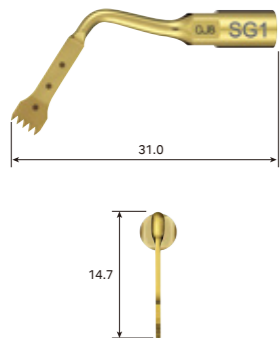


**BONE SURGERY**

# BONE SURGERY

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

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

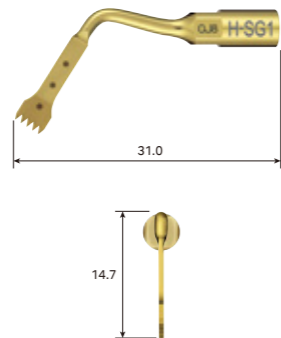


ORDER CODE  
**Z305101**

- 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**

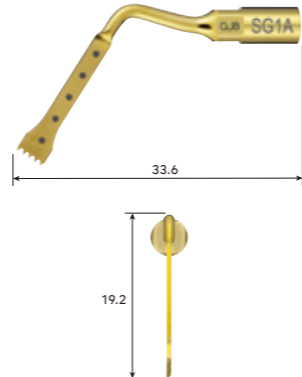


ORDER CODE  
**Z305151**

- 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

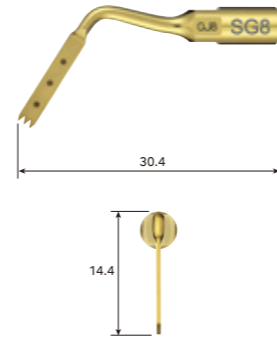


Unilateral anterior mandibular sampling  
**SG1, H-SG1, SG1A**

# BONE SURGERY

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

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

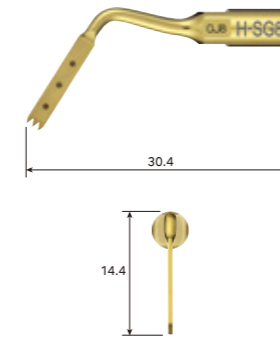


ORDER CODE  
**Z305109**

- 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**

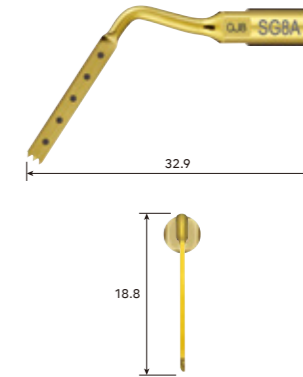


ORDER CODE  
**Z305155**

- 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**

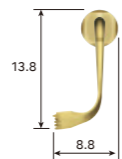
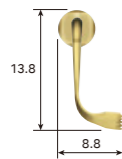
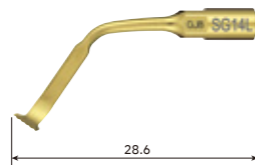
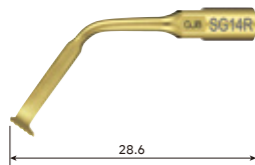
- TiN coating • Dots mark 3, 6, 9, 12 and 15 mm from tip end
- Three teeth; 0.6 mm thick

# BONE SURGERY

For harvesting bone from the mandibular ramus.

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

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

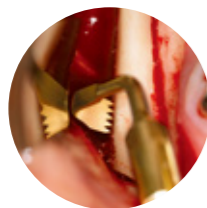


ORDER CODE  
**Z305122**

ORDER CODE  
**Z305123**

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

- 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

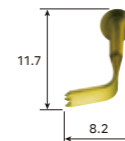
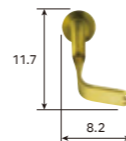
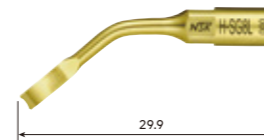
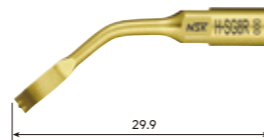
For harvesting bone from the mandibular ramus.

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

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

HIGH POWER

HIGH POWER



ORDER CODE  
**Z305156**

ORDER CODE  
**Z305157**

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

- 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.

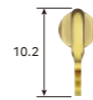
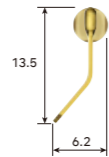
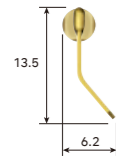
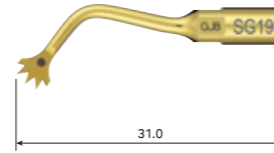
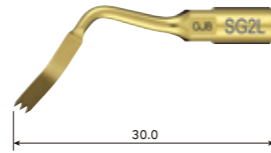
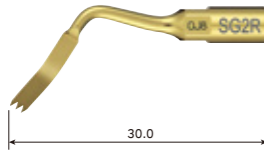
# BONE SURGERY

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

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

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

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



ORDER CODE  
**Z305102**

ORDER CODE  
**Z305103**

ORDER CODE  
**Z305135**

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

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

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



Excision of bone torus  
**SG2R, SG2L**



Mandibular harvesting at approach stage  
**SG19**

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

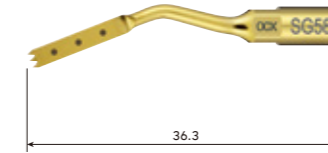
# BONE SURGERY

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

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

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

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

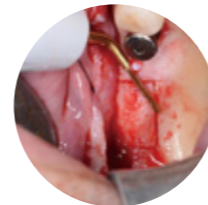


ORDER CODE  
**Z305137**

ORDER CODE  
**Z305141**

- TiN coating • Sharp edge • 0.5 mm thick

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



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



The cutting part is bone torus  
**SG58**

\* 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**

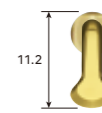
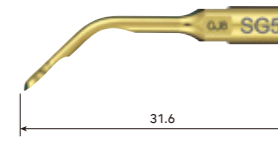
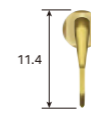
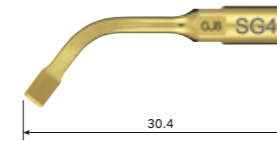
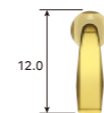
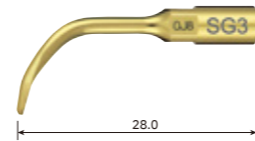
POWER LEVEL **SURG** 80%

MODEL **SG4**

POWER LEVEL **SURG** 80%

MODEL **SG5**

POWER LEVEL **SURG** 80%



ORDER CODE

**Z305104**

ORDER CODE

**Z305105**

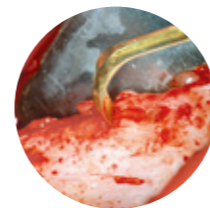
ORDER CODE

**Z305106**

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

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

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



Alveolar crest flattening  
**SG3**



Osteoplasties  
**SG5**





# EXTRACTION

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

## EXTRACTION

MODEL **SG17**

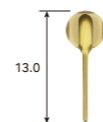
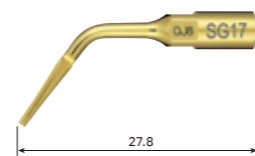
POWER LEVEL **SURG** 80%

MODEL **SG18R**

POWER LEVEL **SURG** 50%

MODEL **SG18L**

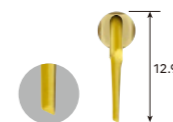
POWER LEVEL **SURG** 50%



ORDER CODE

**Z305132**

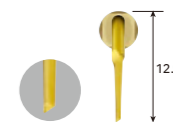
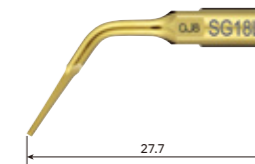
• TiN coating • 0.7 mm thick



ORDER CODE

**Z305133**

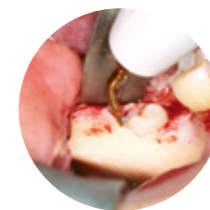
• TiN coating • Right angled tip\* • 0.7 mm thick



ORDER CODE

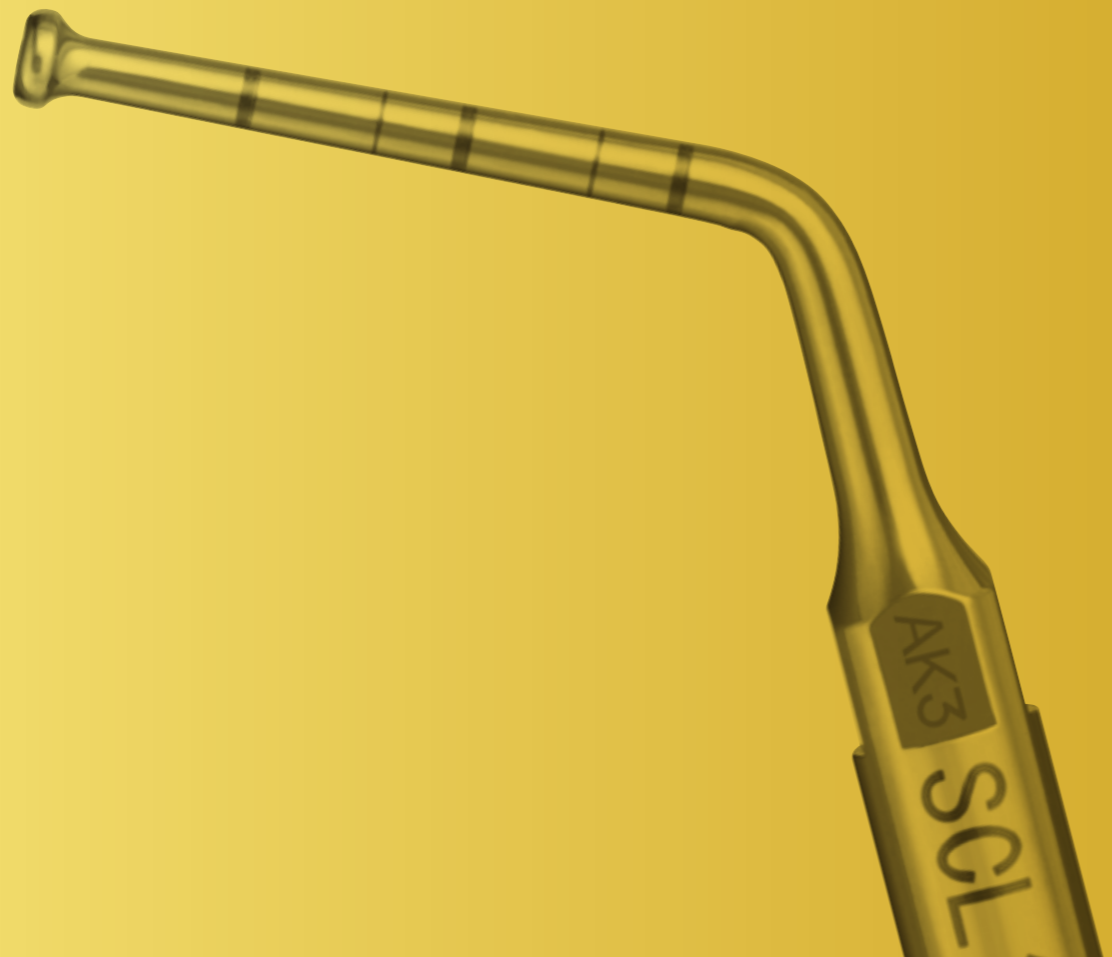
**Z305134**

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



Extraction  
**SG17, SG18R, SG18L**

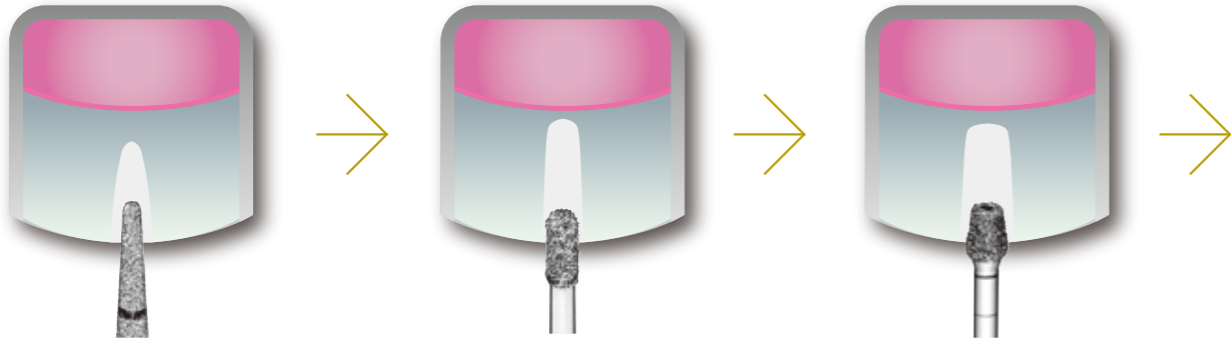
\* The direction of the tip's angle is defined by the tip's anterior view.



**SOCKET LIFT  
(CRESTAL APPROACH)**

# SOCKET LIFT (CRESTAL APPROACH) Socket lift procedures.

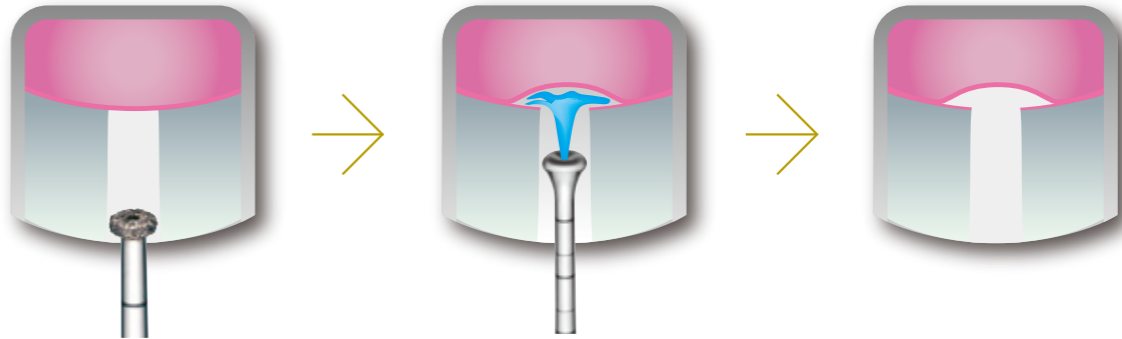
The socket lift tip enhances the safety of procedures, being less invasive and enabling sinus lifts with short chair times. Osteotomy with ultrasonic vibration reduces the risk of damage to the Schneiderian membrane. Eliminating hammering taps through the osteotome technique reduces patient discomfort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

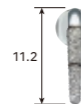
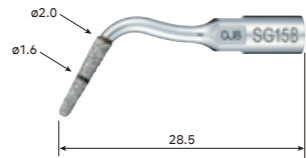
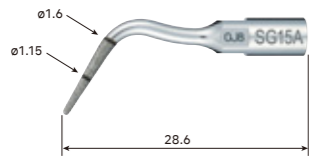
Forms implant preparation site once maxillary sinus membrane is elevated.

# 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  
**Z305124**

ORDER CODE  
**Z305125**

- 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



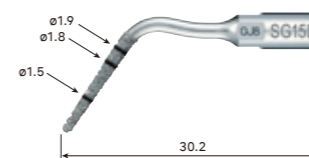
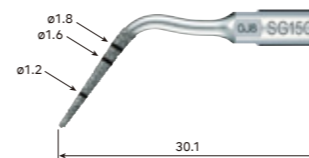
Implant preparation  
**SG15A, SG15B**

# 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  
**Z305126**

ORDER CODE  
**Z305127**

- 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



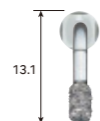
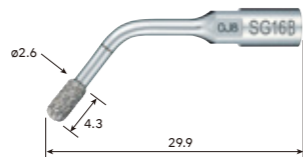
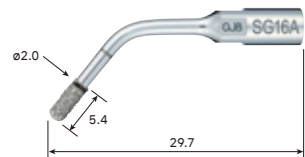
Implant preparation  
**SG15C, SG15D**

# 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  
**Z305128**

ORDER CODE  
**Z305129**

- 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.

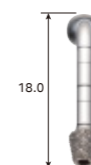
# IMPLANT PREPARATION

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

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

INTERNAL IRRIGATION

INTERNAL IRRIGATION

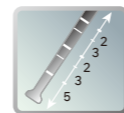


ORDER CODE  
**Z305182**

ORDER CODE  
**Z305184**

- Diamond coating

- Diamond coating



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



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

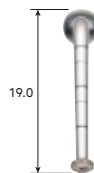
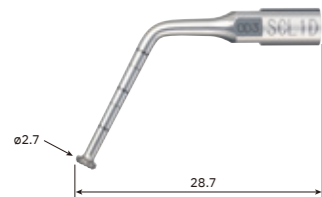


# SOCKET LIFT (CRESTAL APPROACH)

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



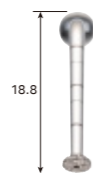
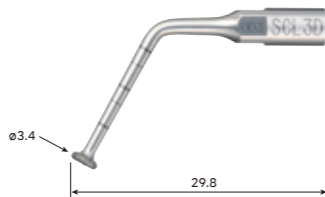
ORDER CODE

**Z305171**

• Diamond coating

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

INTERNAL IRRIGATION



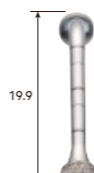
ORDER CODE

**Z305173**

• Diamond coating

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

INTERNAL IRRIGATION



ORDER CODE

**Z305175**

• Diamond coating



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



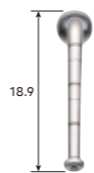
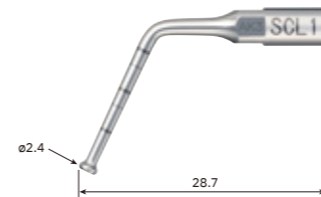
Cutting the cavity floor of implant preparation site  
**SCL1D, SCL3D, SCL5D**



# Elevating the sinus membrane with internal irrigation approaching from alveolar crest. SOCKET LIFT (CRESTAL APPROACH)

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

INTERNAL IRRIGATION

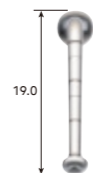


ORDER CODE

**Z305170**

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

INTERNAL IRRIGATION

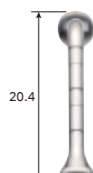
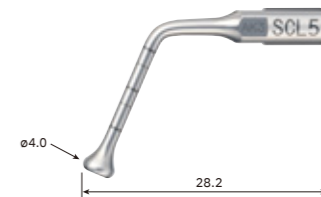


ORDER CODE

**Z305172**

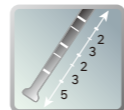
MODEL **SCL5** POWER LEVEL **SURG** 50%

INTERNAL IRRIGATION

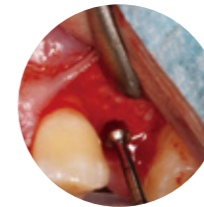


ORDER CODE

**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**

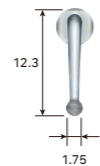


# SINUS LIFT

For bone fenestration and bone formations.

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

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

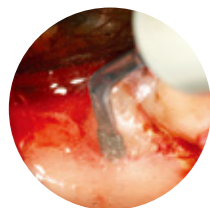


ORDER CODE  
**Z305107**

ORDER CODE  
**Z305108**

• Diamond coating

• Diamond coating



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



Lateral maxillary posterior bone augmentation  
**SG7D**

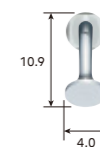
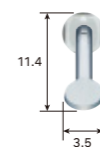
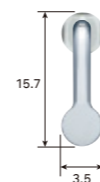
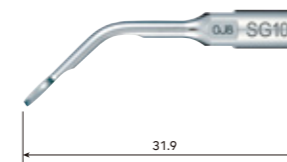
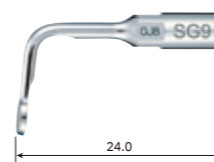
# SINUS MEMBRANE DETACHMENT

For detachment and elevation of the maxillary sinus membrane.

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

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

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



ORDER CODE  
**Z305110**

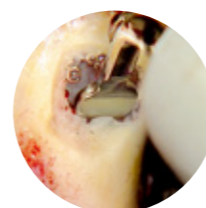
ORDER CODE  
**Z305111**

ORDER CODE  
**Z305112**

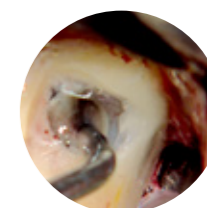
• Flat circular convex elevator • Angled at 90°

• Flat circular convex elevator • Angled at 135°

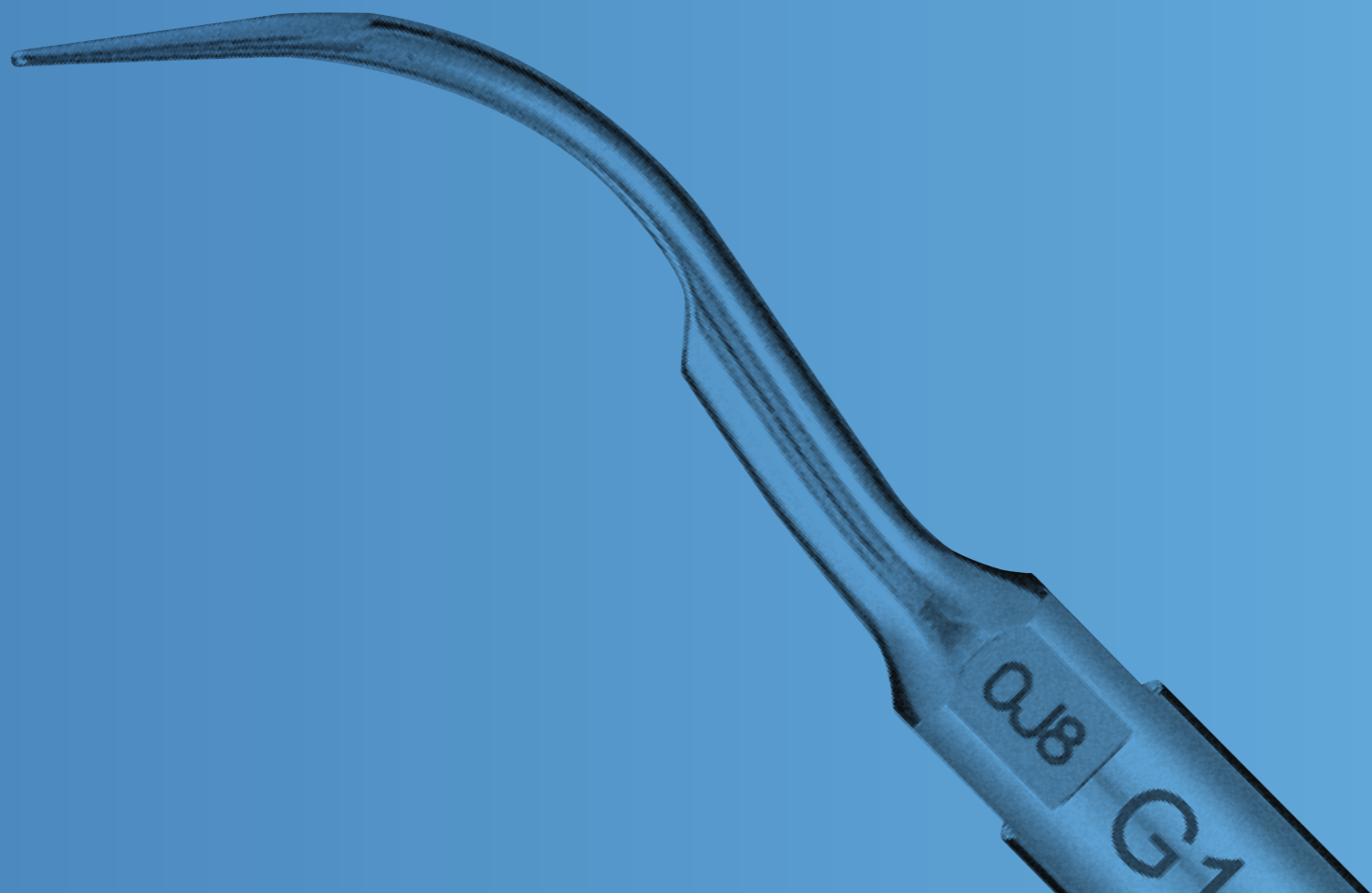
• Cone compressor



Sinus membrane detachment  
**SG9, SG10**



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**

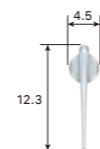
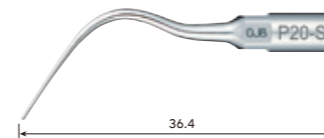


Single rooted / Multi rooted  
**G1-S**

# PERIO

Removal of gingival biofilm.

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



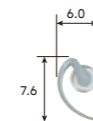
ORDER CODE  
**Z305114**



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

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

Removal of Biofilm furcation area.



ORDER CODE  
**Z305115**

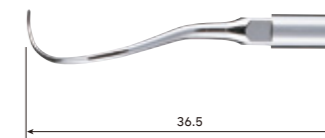
\* Right curved type\*



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\*

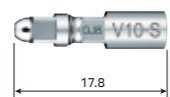
\* The direction of the tip's curve is defined by the tip's anterior view.

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 neighbouring 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



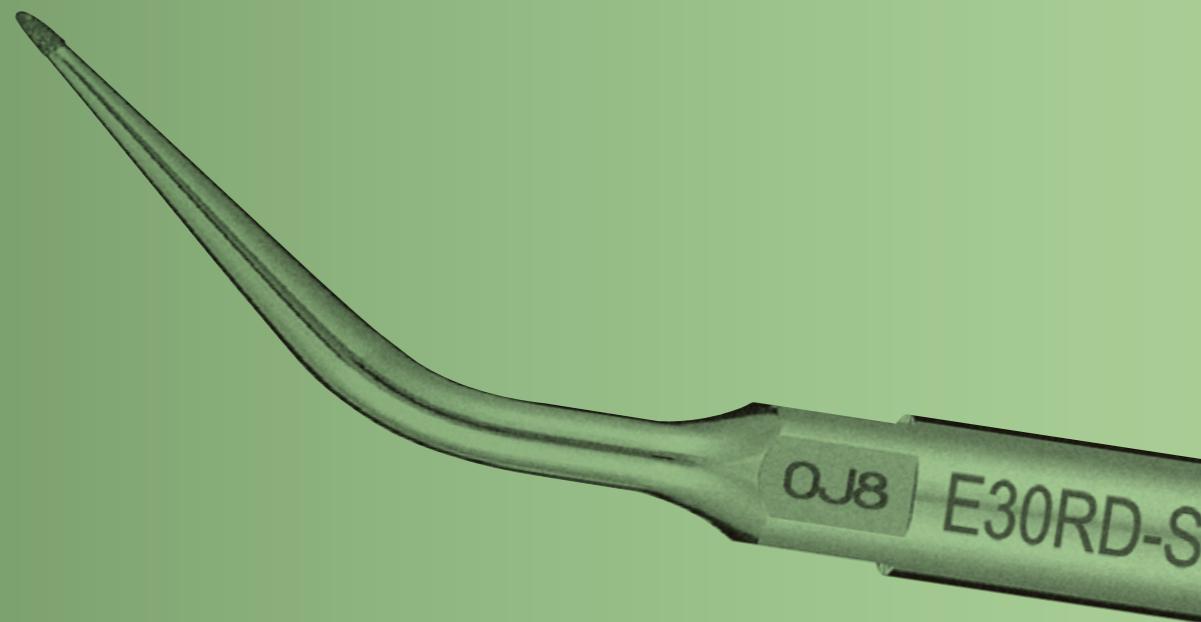
V-P11R, V-P11L



V-P12

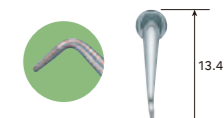
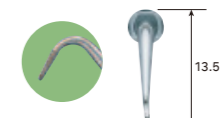
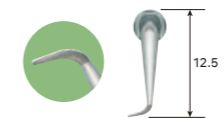
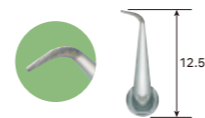
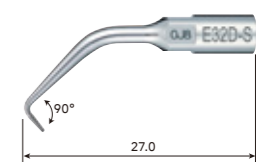
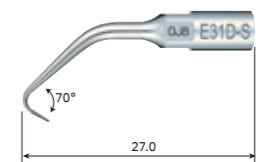
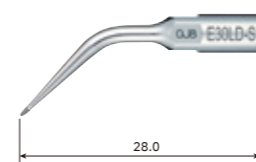
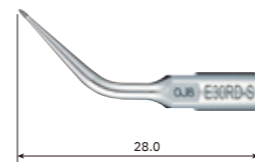
■ V-P11R/L, V-P12 can be used only for VarioSurg 3 \* The direction of the tip's curve is defined by the tip's anterior view.

# ENDODONTICS



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

MODEL **E30RD-S** POWER LEVEL **ENDO** 50%    MODEL **E30LD-S** POWER LEVEL **ENDO** 50%    MODEL **E31D-S** POWER LEVEL **ENDO** 50%    MODEL **E32D-S** POWER LEVEL **ENDO** 50%



ORDER CODE  
**Z305118**

ORDER CODE  
**Z305119**

ORDER CODE  
**Z305120**

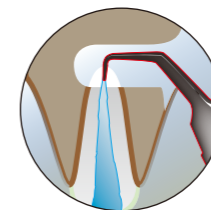
ORDER CODE  
**Z305121**

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

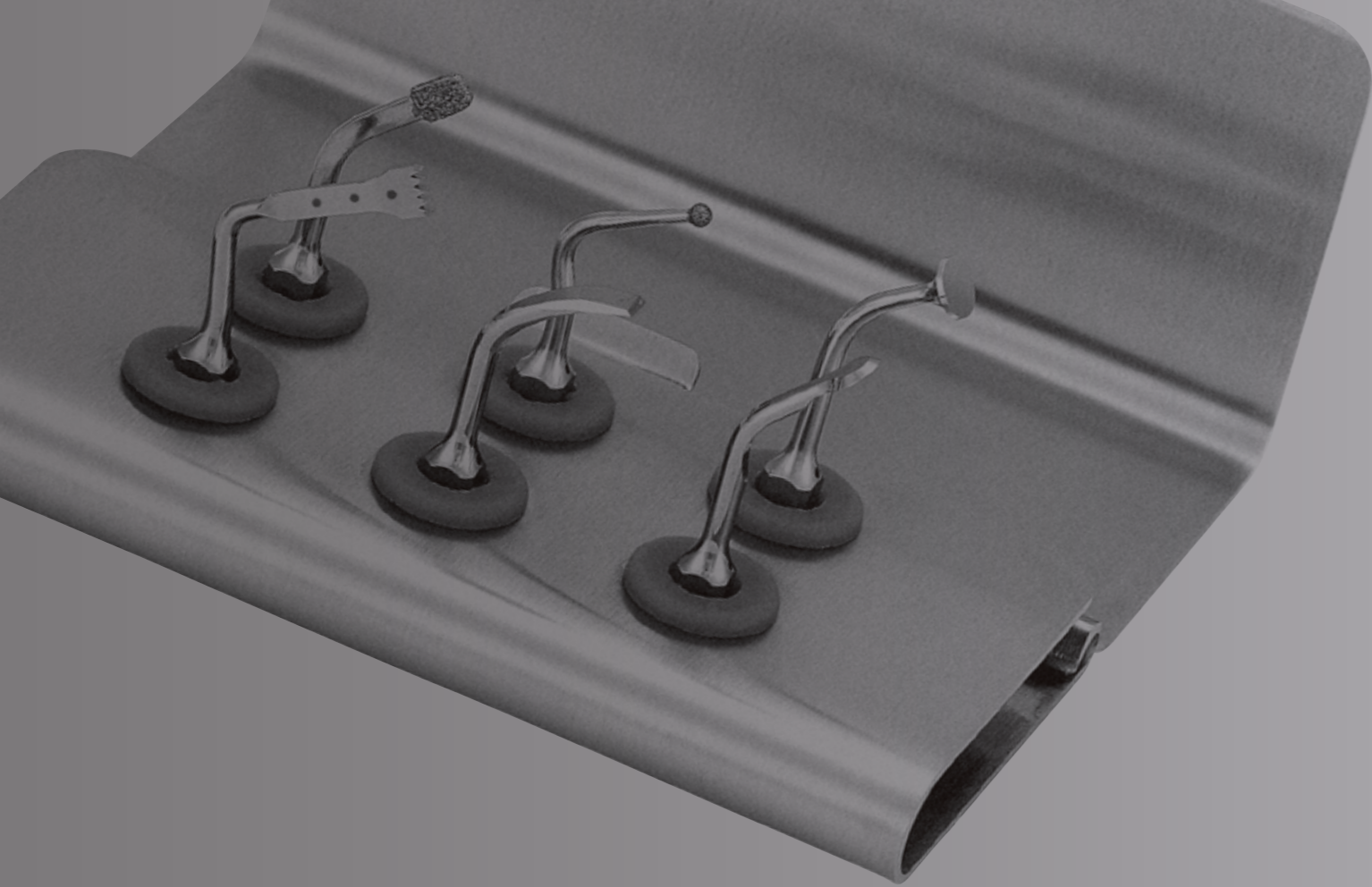
- Diamond coating
- For posterior teeth (left angled\*)

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

- Diamond coating
- For anterior teeth (90°)



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



TIP KIT

# 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

Y1002775

## MODEL Sinus Lift Kit

### Contents

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



SINUS LIFT

ORDER CODE

Y900689

## MODEL Bone Cut Kit

### Contents

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



BONE SURGERY

ORDER CODE

Y900688

## MODEL Endo-S Kit

### Contents

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



ENDODONTICS

ORDER CODE

Y900691

## MODEL Implant Preparation Kit

### Contents

- SG15A, SG15B, SG16A, SG16B
- Tip holder



IMPLANT PREPARATION

ORDER CODE

Y900774

## 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

Y1002842

## 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

Y1002841

# VarioSurg 3

## 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>VarioSurg3 (230V)</b>	<b>Y1002726</b>

#### Contents

- Control Unit • LED Handpiece with 2m cord • FC-78 Foot Control
- Sterilization Cassette • Handpiece Stand
- Irrigation tube (5 pcs.) and other accessories
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

### Complete Set without Foot Control

Optic	MODEL	ORDER CODE
●	<b>VarioSurg3 (230V) Non FT</b>	<b>Y1002248</b>

#### Contents

- Control Unit • LED Handpiece with 2m cord • Sterilization Cassette
- Handpiece Stand • Irrigation tube (5 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 : 230V 50/60 Hz
- Irrigation Flow Rate : 10-75 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W 265 x D 220 x H 103 mm

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

NSK Oceania Pty. Ltd. [www.australia.nsk-dental.com](http://www.australia.nsk-dental.com)  
Unit 12, 809-821 Botany Road, Rosebery NSW 2018, Australia

NSK Oceania Ltd. [www.new-zealand.nsk-dental.com](http://www.new-zealand.nsk-dental.com)  
Ground Floor, Suite D, 272 Parnell Road, Parnell, Auckland 1052, New Zealand

Specifications are subject to change without notice.