

Create it 

TIP GUIDE

ULTRASONIC BONE
SURGERY



NSK

VARIOSURG TIP LINEUP

SURG

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PERIO

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ENDO

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

SURG

SURG mode for bone surgery
PERIO mode for maintenance
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.

BONE SURGERY



BONE SURGERY (MAXI REACH)



SCRAPER



EXTRACTION



SOCKET LIFT (CRESTAL APPROACH)



IMPLANT PREPARATION



SINUS LIFT



SINUS MEMBRANE DETACHMENT



SCALING



PERIO

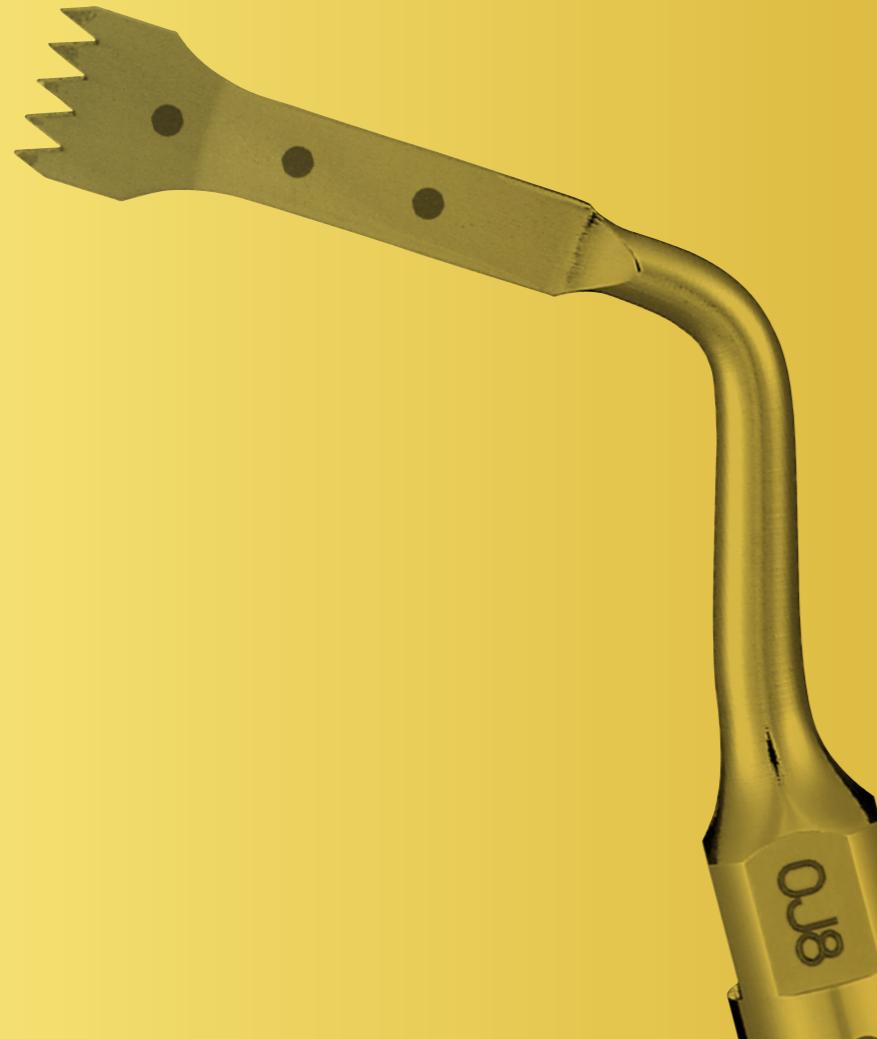


PERIO-CONTROL



ENDODONTICS





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%

MODEL **H-SG1**

POWER LEVEL SURG 150%

MODEL **SG1A**

POWER LEVEL SURG 80%



14.7

ORDER CODE

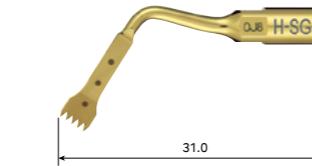
Z305101

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



Unilateral anterior mandibular sampling
SG1, H-SG1, SG1A

HIGH POWER



14.7

ORDER CODE

Z305151

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



19.2

ORDER CODE

Z305138

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

MODEL

SG8

POWER LEVEL SURG 80%

MODEL **H-SG8**

POWER LEVEL SURG 150%

MODEL **SG8A**

POWER LEVEL SURG 80%



14.4

ORDER CODE

Z305109

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



14.4

ORDER CODE

Z305155

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

For use in deeper regions requiring longer tips.



18.8

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**

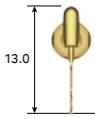
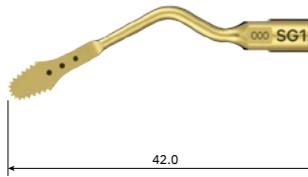
POWER LEVEL **SURG** 100%

MODEL **SG14R**

POWER LEVEL **SURG** 80%

MODEL **SG14L**

POWER LEVEL **SURG** 80%



ORDER CODE
ZT02010001

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

- 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.

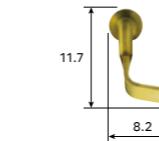
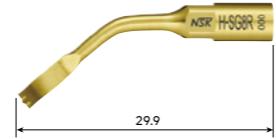
MODEL **H-SG8R**

POWER LEVEL **SURG** 150%

MODEL **H-SG8L**

POWER LEVEL **SURG** 150%

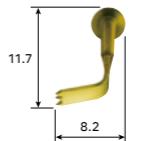
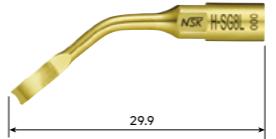
HIGH POWER



ORDER CODE
Z305156

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

HIGH POWER



ORDER CODE
Z305157

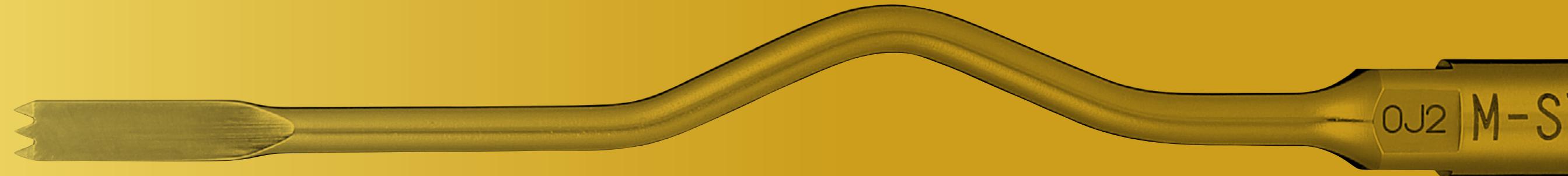
- TiN coating
- 90 degree left curved tip*
- Three teeth; 0.6 mm thick

BONE SURGERY

For harvesting bone from the mandibular ramus.

BONE SURGERY

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



BONE SURGERY
(MAXI REACH)

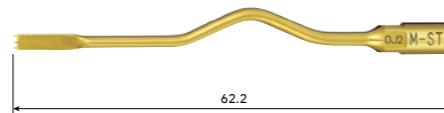
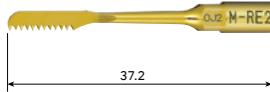
BONE SURGERY (MAXI REACH)

MODEL **M-RE2**

POWER LEVEL **SURG** 80%

MODEL **M-ST1**

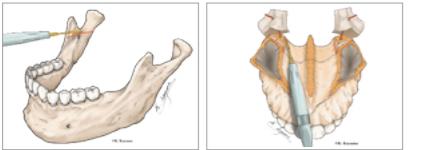
POWER LEVEL **SURG** 80%



ORDER CODE

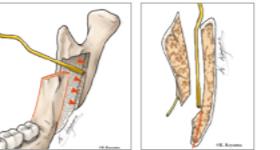
Z305715

- 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.



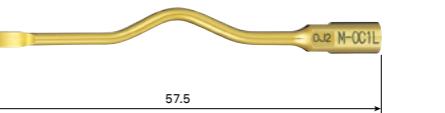
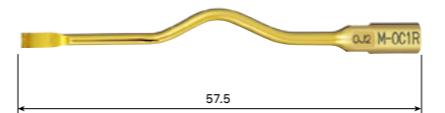
Mandibular ramus SSRO
Separation of cortical and maritime bone
during sagittal division.

MODEL **M-OC1R**

POWER LEVEL **SURG** 80%

MODEL **M-OC1L**

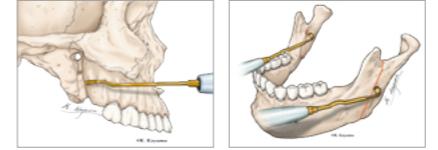
POWER LEVEL **SURG** 80%



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.

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.

BONE SURGERY (MAXI REACH)

SCRAPER



For flattening the alveolar crest or harvesting bone fragments.

SCRAPER

MODEL **SG3**

POWER LEVEL **SURG** 80%

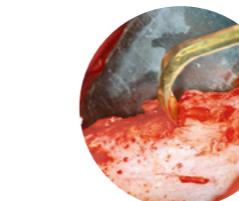


28.0

12.0

ORDER CODE
Z305104

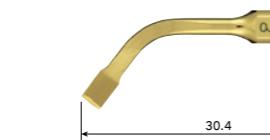
- TiN coating • Triple sided edge spatula tip
- Single-edged scraper



Alveolar crest flattening
SG3

MODEL **SG4**

POWER LEVEL **SURG** 80%



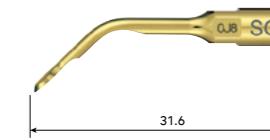
30.4

11.4

ORDER CODE
Z305105

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

For removal of diseased granulation tissues from extraction sites.



31.6

11.2

ORDER CODE
Z305106

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



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%



13.0

ORDER CODE

Z305132

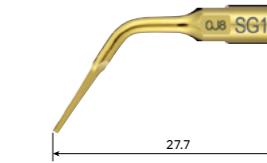
• TiN coating • 0.7 mm thick



ORDER CODE

Z305133

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



ORDER CODE

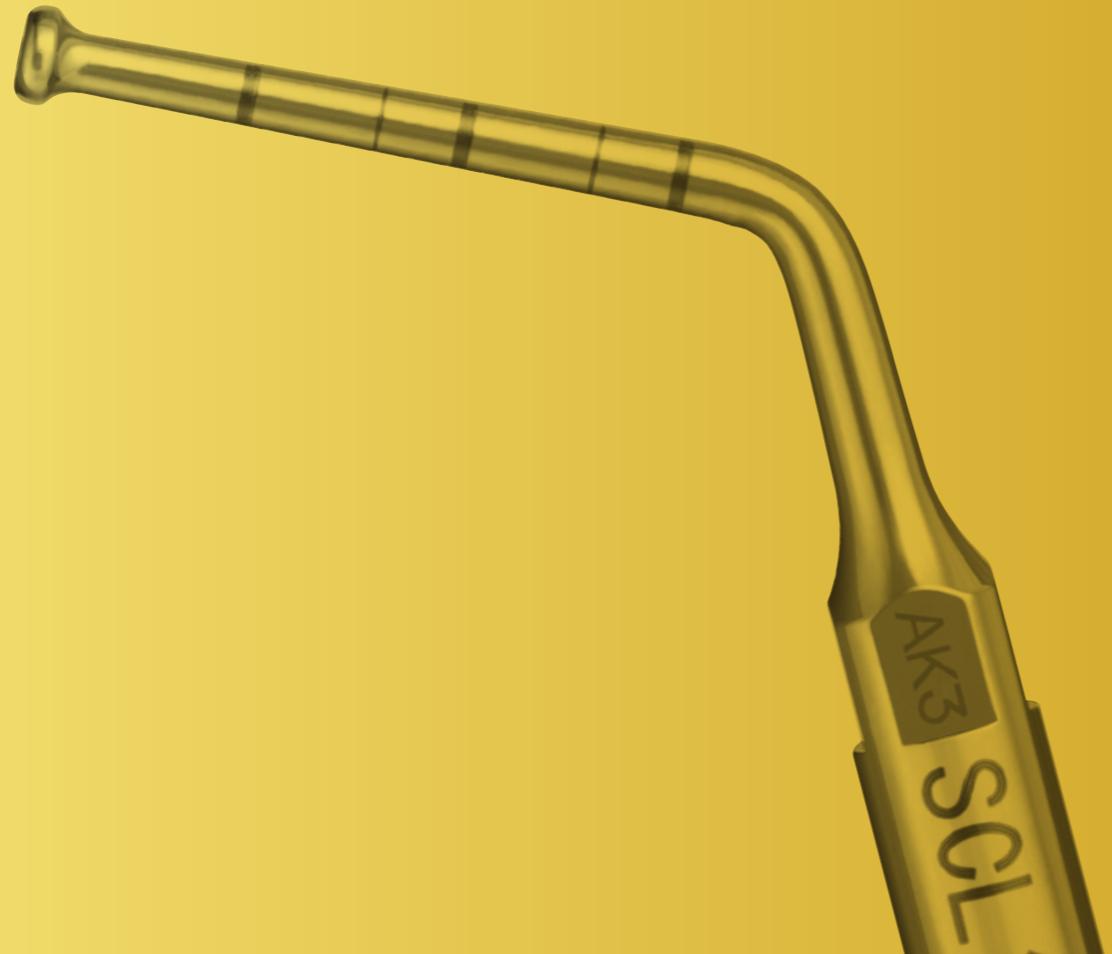
Z305134

• 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.



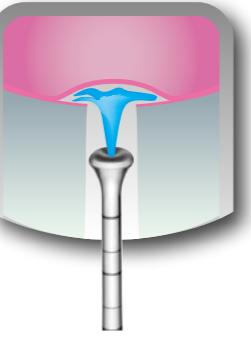
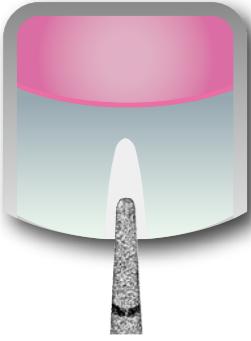
SOCKET LIFT
(CRESTAL APPROACH)

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

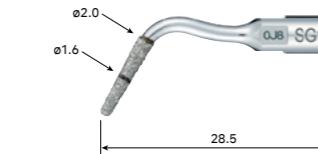
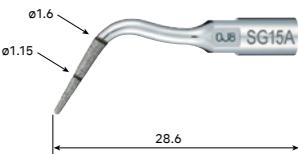
For preparation of implant sites, adding starting points, and other steps.

MODEL **SG15A**

POWER LEVEL **SURG** 50%

MODEL **SG15B**

POWER LEVEL **SURG** 50%



ORDER CODE

Z305124

- Diamond coating • Tip-end diameter; 0.7 mm
- Markings every 5 mm and 10 mm from tip end



Implant preparation
SG15A, SG15B



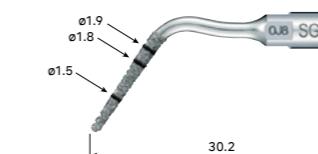
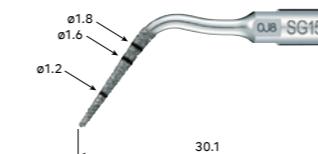
For preparation of implant sites, flattening bone surfaces, and other steps.

MODEL **SG15C**

POWER LEVEL **SURG** 50%

MODEL **SG15D**

POWER LEVEL **SURG** 50%



ORDER CODE

Z305126

- Diamond coating • Tip-end diameter; 0.9 mm
- Markings every 5 mm, 10 mm and 12 mm from tip end



Implant preparation
SG15C, SG15D

IMPLANT PREPARATION

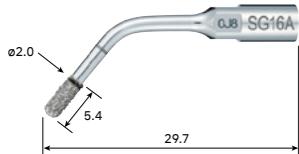
For expanding and forming implant preparation site when approaching from the alveolar crest.

MODEL **SG16A**

POWER LEVEL **SURG** 50%

MODEL **SG16B**

POWER LEVEL **SURG** 50%

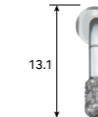


ORDER CODE
Z305128

- Diamond coating
- Diameter: 2.0 mm
- Markings every 5 mm and 10 mm from tip end



Implant preparation
SG16A



ORDER CODE
Z305129

- Diamond coating
- Diameter: 2.6 mm
- Markings every 5 mm and 10 mm from tip end



Implant preparation
SG16B



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

MODEL **SCL2D**

POWER LEVEL **SURG** 50%

MODEL **SCL4D**

POWER LEVEL **SURG** 80%

INTERNAL IRRIGATION



ORDER CODE
Z305182

- Diamond coating



ORDER CODE
Z305184

- 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%

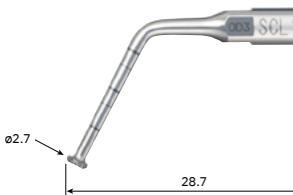
MODEL **SCL3D**

POWER LEVEL SURG 80%

MODEL **SCL5D**

POWER LEVEL SURG 80%

INTERNAL IRRIGATION



19.0

ORDER CODE

Z305171

• Diamond coating



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

INTERNAL IRRIGATION



18.8

ORDER CODE

Z305173

• Diamond coating



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



SOCKET LIFT (CRESTAL APPROACH)

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

MODEL **SCL1**

POWER LEVEL SURG 50%

MODEL **SCL3**

POWER LEVEL SURG 50%

MODEL **SCL5**

POWER LEVEL SURG 50%

INTERNAL IRRIGATION



18.9

ORDER CODE

Z305170

• Diamond coating



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

INTERNAL IRRIGATION



19.0

ORDER CODE

Z305172

• Diamond coating



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

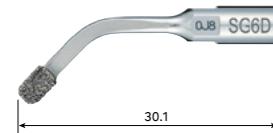


SINUS LIFT

For bone fenestration and bone formations.

MODEL **SG6D**

POWER LEVEL **SURG** 80%



11.1

ORDER CODE
Z305107

• Diamond coating



Avulsion of wisdom teeth
and impacted teeth
SG6D

MODEL **SG7D**

POWER LEVEL **SURG** 50%



12.3
1.75

ORDER CODE
Z305108

• Diamond coating



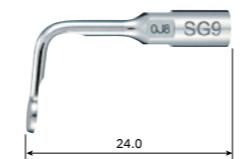
Lateral maxillary posterior
bone augmentation
SG7D

For detachment and elevation of the maxillary sinus membrane.

SINUS MEMBRANE DETACHMENT

MODEL **SG9**

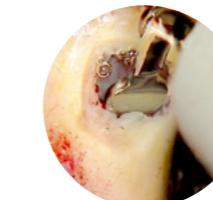
POWER LEVEL **SURG** 50%



15.7
3.5

ORDER CODE
Z305110

• Flat circular convex elevator • Angled at 90°



Sinus membrane detachment
SG9, SG10

MODEL **SG10**

POWER LEVEL **SURG** 50%



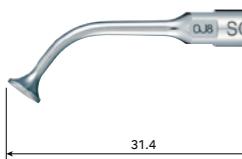
11.4
3.5

ORDER CODE
Z305111

• Flat circular convex elevator • Angled at 135°

MODEL **SG11**

POWER LEVEL **SURG** 50%



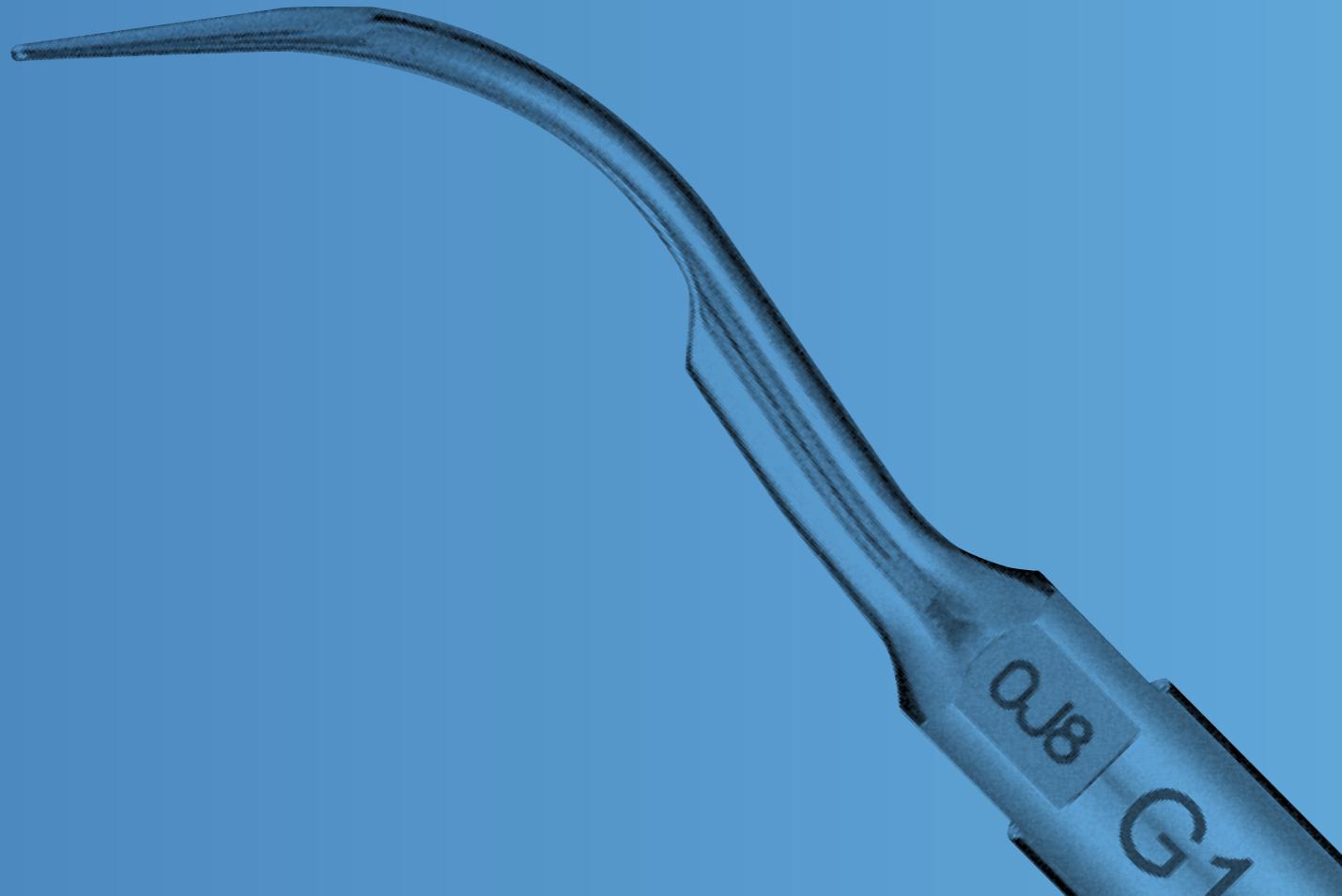
10.9
4.0

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%



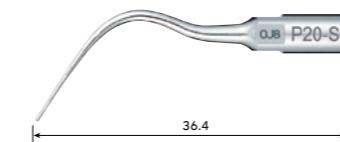
ORDER CODE
Z305113



Removal of gingival biofilm. **PERIO**

MODEL **P20-S**

POWER LEVEL **PERIO** 100%



ORDER CODE
Z305114

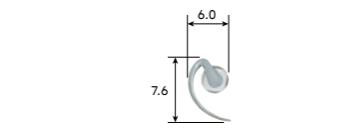


• Right curved type*

Removal of Biofilm furcation area.



ORDER CODE
Z305115



ORDER CODE
Z305116



• Left curved type*

PERIO-CONTROL

For maintaining the upper structure of implant-supported dental prosthesis.

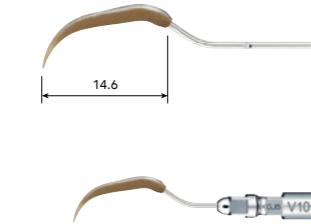
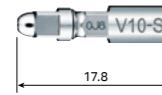
MODEL **V10-S**

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

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



V-P10

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

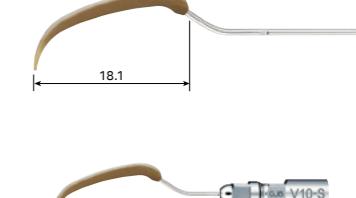
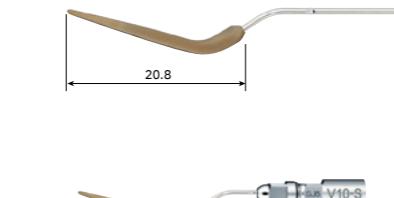
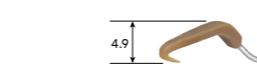
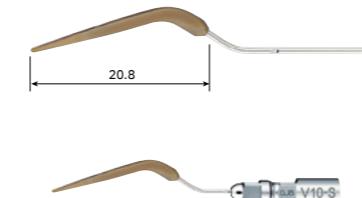
MODEL **V-P11R**

MODEL **V-P11L**

MODEL **V-P12**

For maintaining the upper structure of implant-supported dental prosthesis.

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



ORDER CODE

Y1002165

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



V-P11R, V-P11L

ORDER CODE

Y1002166

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

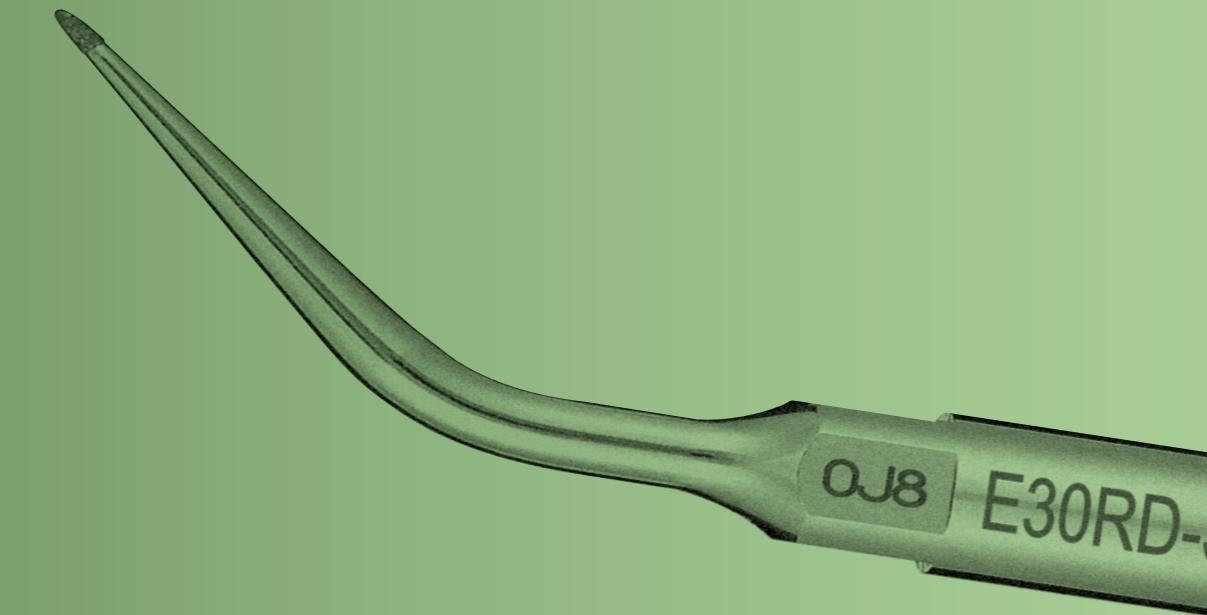


V-P12

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

SCALING

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**

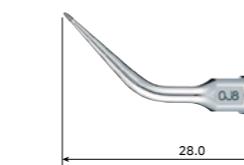
POWER LEVEL  ENDO 50%

MODEL **E31D-S**

POWER LEVEL  ENDO 50%

MODEL **E32D-S**

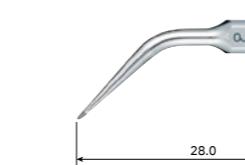
POWER LEVEL  ENDO 50%



ORDER CODE

Z305118

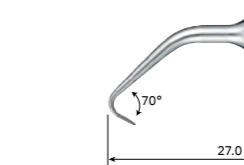
- Diamond coating
- For posterior teeth (right angled*)



ORDER CODE

Z305119

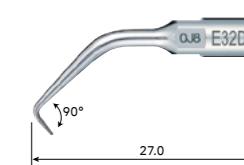
- Diamond coating
- For posterior teeth (left angled*)



ORDER CODE

Z305120

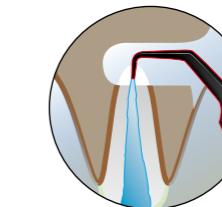
- Diamond coating
- For anterior and posterior teeth (70°)



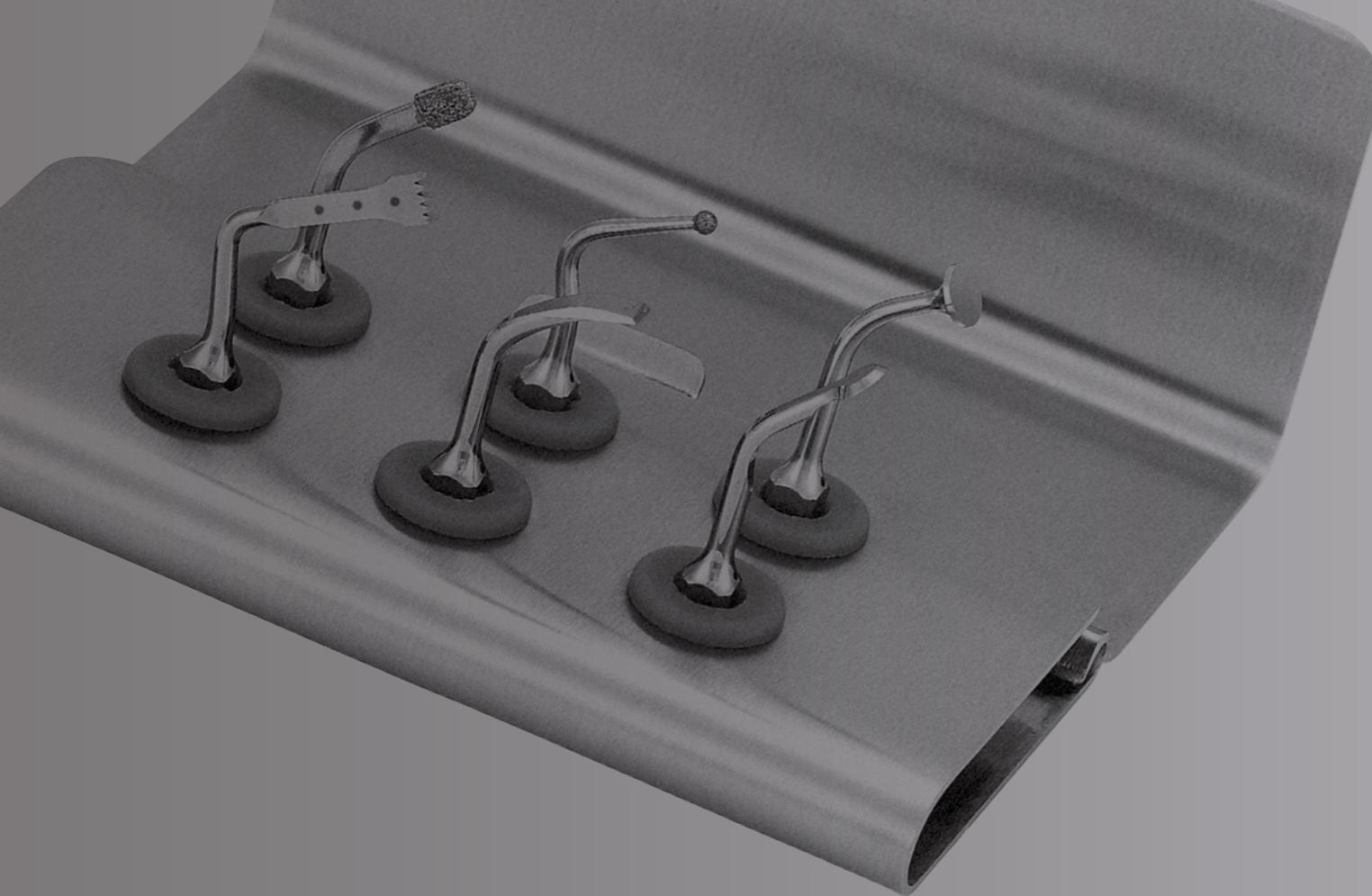
ORDER CODE

Z305121

- 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 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
●	VarioSurg 4 (230V)	Y1500706

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)

Complete Set without Foot Control

Optic	MODEL	ORDER CODE
●	VarioSurg 4 w/o FC (230V)	Y1500712

Contents

- Control Unit • LED Handpiece with 2m cord • 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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Specifications are subject to change without notice.