



# Variosurg3



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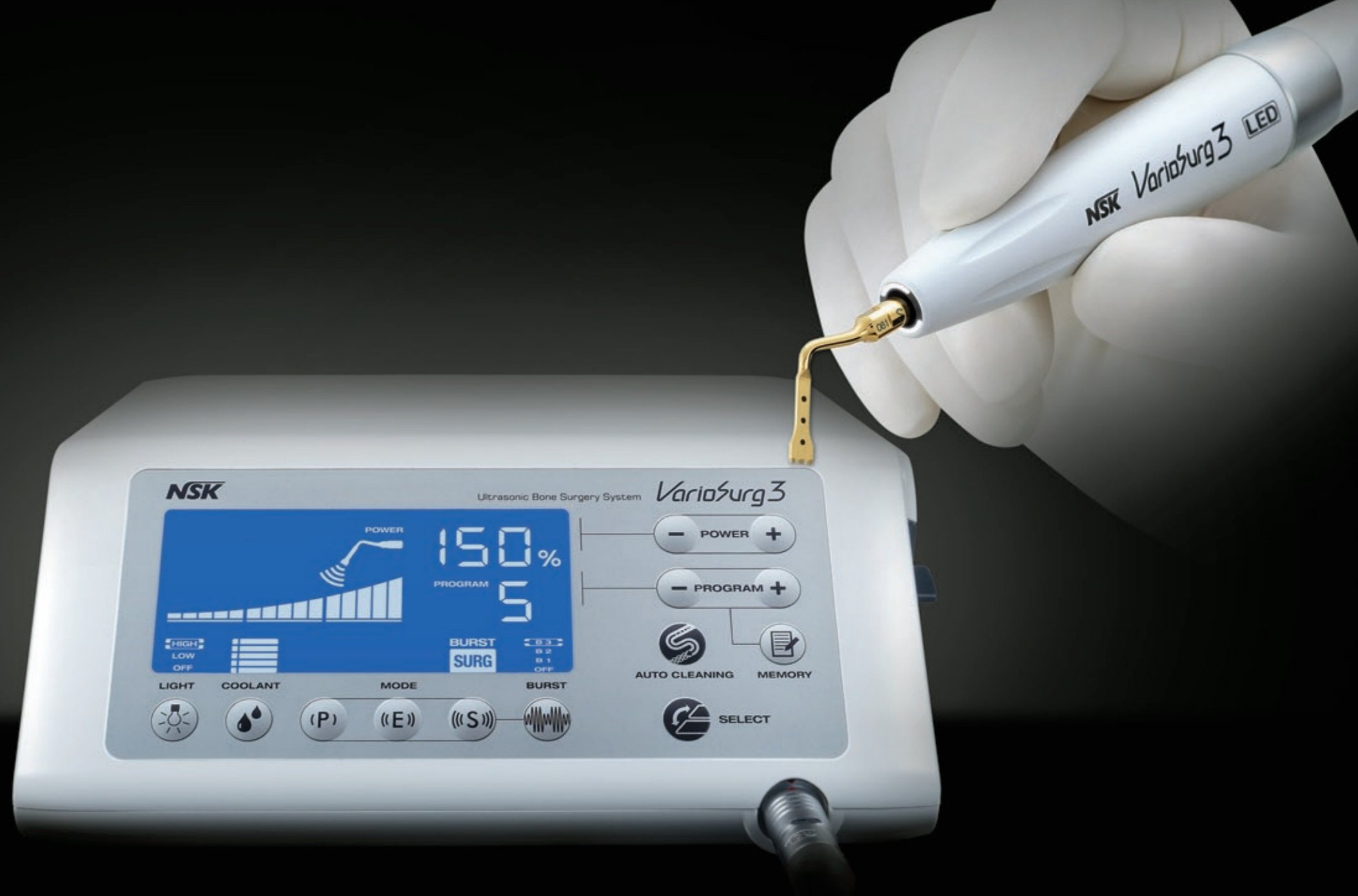
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# VarioSurg3

## Non stop evolution

An ultrasonic bone surgery system is indispensable when performing implant procedures. VarioSurg3, the latest advance in the VarioSurg range, maintains the light weight and slim handpiece design of its predecessor and the same excellent balance and grip but has 50% more power than the previous model. The feedback and auto-tuning functions, combined with a wide range of tips, ensure faster, more precise treatments. VarioSurg3 also features the world's first dynamic link feature, which enables you to operate both VarioSurg3 and Surgic Pro via a single foot control. Intuitive controls and a large and clear backlit LCD screen makes VarioSurg3 really easy to operate and takes the strain out of delicate procedures. VarioSurg – continuously evolving.



# 50% Increased Power – Focus on the Procedure

## Applications

- Bone surgery
- Sinus lifts
- Extraction
- Implant preparation

NSK's twin LEDs deliver natural daylight-quality illumination, and significant advantages to the way you work

**Clearer** : LEDs generate natural daylight-quality light, which ensures clearer vision than halogen light sources.

**More Durable** : LED light sources are longer lasting and more durable than halogen bulbs.

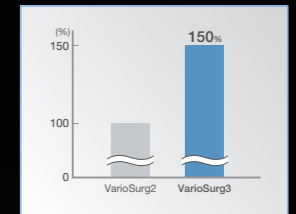


Twin LED lights

## Major Power Boost – Up 50 Percent

Capable of generating a maximum of 150 percent of the power its predecessor produced (in Surg Mode), the VarioSurg3 effectively shortens treatment time in combination with any of the sharp tips available.

\*When setting power level more than 100 percent, please make sure to use tips that correspond to high power.



## Comfortable Grip Handpiece

The superior ergonomics of the VarioSurg3 handpiece, including its slim and lightweight body, ensure minimal hand fatigue and greater accessibility to difficult to reach areas. The twin LEDs integrated in the handpiece produce outstanding visibility, leading to safer and more precise treatments. Advanced ultrasonics produce oscillation at the handpiece tip that eliminates heat at the operation site, allowing for minimally invasive procedures.

## Tips - Products of NSK's Meticulous Manufacturing



We maximize the sharpness of our tips through three-dimensional cutting (toothing) of the blade's edge.

## Shorter, Lighter Handpiece

VarioSurg3's slim LED-equipped handpiece gives you extraordinary accessibility and visibility during procedures, and its ergonomic shape and fine balance are designed to minimize hand and finger fatigue even during extended use.



**Optic** MODEL: **VS3-LED-HPSC** ORDER CODE: **E1133**

• with 2m cord



Washable in the thermodisinfector  
Autoclavable up to 135°C

# VarioSurg3

## Exceptional Power for Faster, More Accurate Procedures

The exceptional power VarioSurg3 that enables precise, stress-free surgical procedures even when approaching hard bone in delicate areas. The compact body offers a wide variety of functions. The large backlit LCD display and intuitive controls help reduce operating errors and make procedures safer.

### Main Features

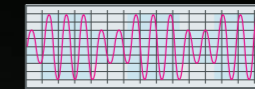
- Major Power Boost
- 3 Modes (SURG, ENDO, PERIO)
- Selectable Burst Mode
- 9 Programs (SURG x 5, ENDO x 2, PERIO x 2)
- Adjustable LED Light Intensity
- Automatic Cleaning Mode
- Feedback Function
- Auto Tuning Function
- Dynamic Link Feature



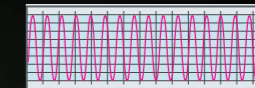
### Selectable Burst Mode

You can switch modes instantly from Surg Mode to Burst Mode even during the procedure. Burst Mode creates a hammer drill effect capable of cutting through even the hardest tissues. Select any of three types of Burst Mode according to the procedure and the condition of the bone.

Burst Mode



Continuous Vibration Mode

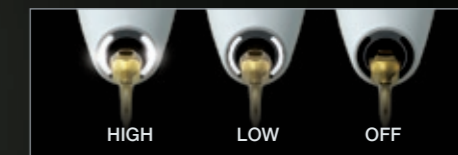


### Feedback Function

The Feedback Function constantly monitors the performance parameters of the ultrasonic unit during operation and simultaneously controls the power output, to optimise the level of power depending on the procedure.

### Adjustable Light Intensity

Switch effortlessly between three levels of light intensity to suit the procedure.



### Variable Water Volume

Select any of five water volume modes depending on the power setting and oral condition to efficiently cool the selected tip. Maximum water volume flows at 80ml per minute, preventing the tip from overheating and damaging tissue.

### Memory Function

You can store settings for procedures or tips within each program and easily call up the settings by pressing the program button.

# Surgic Pro+ × VarioSurg3

## Dual Power and Performance

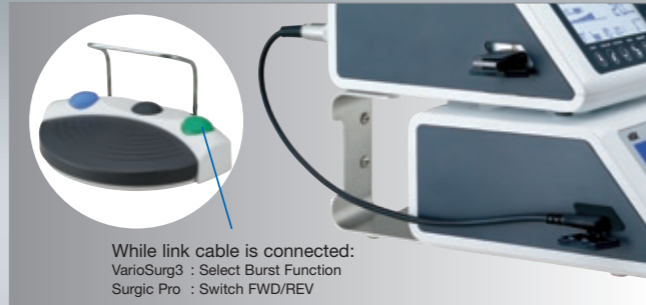
NSK's LINK STAND TECHNOLOGY allows you to conveniently link two supremely powerful and versatile surgical units for convenience and space saving while maintaining independence when needed.

VarioSurg3 is NSK's most powerful ultrasonic surgical unit with 150% power increase compared to its pre-decessor.

Surgic Pro+ is NSK's premium surgical unit for implant placement and general surgical procedures with added peace of mind due to AHC (Advanced Handpiece Calibration system).

### The Link Function

You can operate both the implant motor Surgic Pro and VarioSurg3 ultrasonic bone surgery system with a single foot control by linking the two units with the link cable. Put the two units on the Link Stand and create a compact and space saving, all encompassing surgical treatment centre. The two systems can also be installed together compactly with a Link Stand that takes up minimal space.

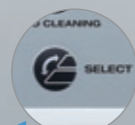


### Safe Operation

The user-friendly display clearly indicates which system is active and ensures safe and accurate operation.



VarioSurg3's display indicates that Surgic Pro is active



Press the "SELECT" button to switch between VarioSurg3 and Surgic Pro mode.

### SG Link Set (Optional)

MODEL: **VarioSurg3 Link set (E)**

ORDER CODE: **Y1002729**

Contents: • SG Link Stand • SG Link Cable

#### Specifications

- SG Link Stand
- Dimensions : W210 x D300 x H180 (mm)
- Weight : 1.85 kg
- SG Link Cable
- Length 355 (mm)



SG Link Cable

SG Link Stand



# VarioSurg3

## VarioSurg3 Complete Sets **Optic**

MODEL: **VarioSurg3 (120V)** ORDER CODE: **Y1002725**

MODEL: **VarioSurg3 (230V)** ORDER CODE: **Y1002726**

### 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)

## VarioSurg3 Complete Sets without Foot Control **Optic**

MODEL: **VarioSurg3 (120V) Non FT** ORDER CODE: **Y1002247**

MODEL: **VarioSurg3 (230V) Non FT** ORDER CODE: **Y1002248**

### 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)



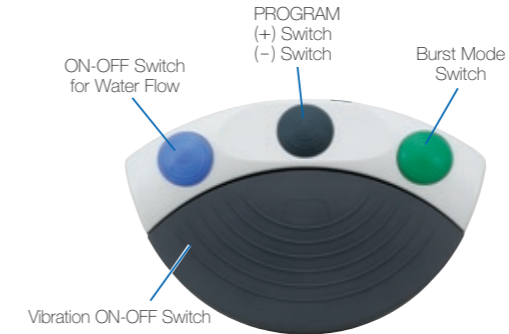
### Specifications

<b>Control Unit</b>	
• Frequency	: 28-32 kHz
• Power Supply	: AC120V or 230V 50/60 Hz
• Irrigation Flow Rate	: 10-80 mL / min
• Programs	: SURG x 5, ENDO x 2, PERIO x 2
• Dimensions	: W265 x D220 x H100 (mm)

## Foot Control

### Hands-Free Program Adjustments Via Foot Control

The VarioSurg3 foot control conforms with the IPX8 standard for medical foot control systems. All functions are clearly marked and allow accurate and hands-free operation of the unit within the pre-set parameters. Using the metal bar the foot control can easily be re-positioned at any time.

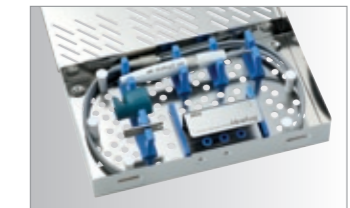


MODEL: **FC-78** ORDER CODE: **Z1102003**

- With 2m cord

## Sterilization Cassette

The Sterilization Cassette is designed for the safe processing and storage of VarioSurg3 components.



MODEL: **VA-SG-CASE** ORDER CODE: **20001326**

- Dimensions : W281 x D171.5 x H47 (mm)
- Has dedicated compartments for the handpiece, cord, tip replacement wrench and tip holders

## Carrying Case (Optional)

The Carrying Case neatly stores all VarioSurg3 components.



MODEL: **Carrying Case (VarioSurg3)** ORDER CODE: **Y1002768**

- Dimensions : W469 x D344 x H180 (mm)

# Surgic Pro<sup>+</sup> with data storage feature

## Precision control for today's specialist procedures

The NSK Surgic Pro+ is a compact, stylish and fully integrated system incorporating our unique Advanced Handpiece Calibration (AHC). The inbuilt availability of a wide range of speed and torque settings allows clinicians to use Surgic Pro+ with any implant system brand.

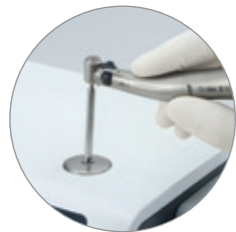
### Surgic Pro+ Complete Sets with X-DSG20L Optic Handpiece **Optic**

MODEL: **Surgic Pro+ OPT-D (120V)** ORDER CODE: **Y1002095**

MODEL: **Surgic Pro+ OPT-D (230V)** ORDER CODE: **Y1002096**

#### Contents

- Control Unit with data storage facility
- SGL70M LED Micromotor
- FC-78 Foot Control
- X-DSG20L Optic Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories



Advanced Handpiece Calibration (AHC)



# VarioSurg Tip Line Up

## Ultrasonic Tips

A Wide Choice for Clinical Applications

	Bone Surgery	Scraper
Extraction	Sinus Lift	Sinus Membrane Tool
Implant Preparation	Scaling	Perio (Root Planing)
Retrograde Endo	Maintenance (V-Tip)	

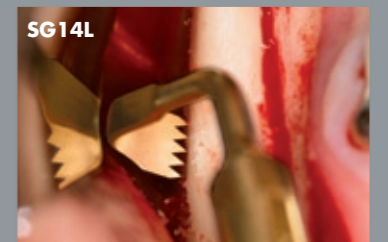
Bone Surgery			
		MODEL: <b>SG1</b> ORDER CODE: <b>Z305101</b> 150% MODEL: <b>H-SG1</b> ORDER CODE: <b>Z305151</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Dots mark 3, 6 and 9mm from top of tip</li> <li>• Five teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG1A</b> ORDER CODE: <b>Z305138</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Dots mark 3, 6, 9, 12 and 15mm from top of tip</li> <li>• Five teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG2R</b> ORDER CODE: <b>Z305102</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Right curved tip*</li> <li>• Three teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG2L</b> ORDER CODE: <b>Z305103</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Left curved tip*</li> <li>• Three teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG8</b> ORDER CODE: <b>Z305109</b> 150% MODEL: <b>H-SG8</b> ORDER CODE: <b>Z305155</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Dots mark 3, 6 and 9mm from top of tip</li> <li>• Three teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG8A</b> ORDER CODE: <b>Z305139</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Dots mark 3, 6, 9, 12 and 15mm from top of tip</li> <li>• Three teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG14R</b> ORDER CODE: <b>Z305122</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Right curved tip*</li> <li>• Five teeth; 0.6mm thick</li> </ul>
		MODEL: <b>SG14L</b> ORDER CODE: <b>Z305123</b>	<ul style="list-style-type: none"> <li>• TiN coating</li> <li>• Left curved tip*</li> <li>• Five teeth; 0.6mm thick</li> </ul>



Unilateral anterior mandibular sampling



Excision of bone torus



Anterior mandibular harvesting



Washable in the thermodisinfectant



Autoclavable up to 135°C



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

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

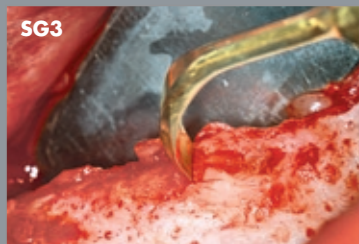




Mandibular harvesting at approach stage



The cutting part is bone torus



Osteoplasties

## Bone Surgery



MODEL: **SG19** ORDER CODE: **Z305135**

- TiN coating
- Dot mark 3mm from top of tip
- Five teeth; 0.8mm thick



MODEL: **SG30** ORDER CODE: **Z305137**

- TiN coating
- Sharp edge
- 0.5mm thick



MODEL: **SG58** ORDER CODE: **Z305141**

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

## Scraper



MODEL: **SG3** ORDER CODE: **Z305104**

- TiN coating
- Triple sided edge spatula tip



MODEL: **SG4** ORDER CODE: **Z305105**

- TiN coating
- Edge spatula tip



MODEL: **SG5** ORDER CODE: **Z305106**

- TiN coating
- Rounded edge spatula tip

## Extraction



MODEL: **SG17** ORDER CODE: **Z305132**

- TiN coating
- 0.7mm thick



MODEL: **SG18R** ORDER CODE: **Z305133**

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



MODEL: **SG18L** ORDER CODE: **Z305134**

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

## Sinus Lift



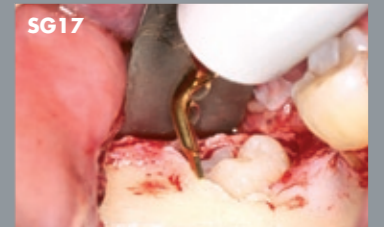
MODEL: **SG6D** ORDER CODE: **Z305107**

- Diamond coating

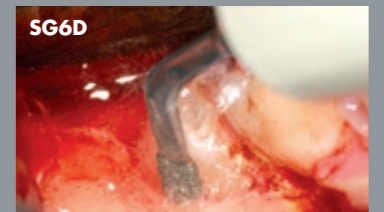


MODEL: **SG7D** ORDER CODE: **Z305108**

- Diamond coating



Extraction



Avulsion of wisdom teeth and impacted teeth



Sinus graft

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



Washable in the thermoisinfecteur



Autoclavable up to 135°C



Sinus membrane



Sinus graft

### Sinus Membrane Tool



MODEL: **SG9** ORDER CODE: **Z305110**  
 • Flat circular convex elevator • Angled at 90°



MODEL: **SG10** ORDER CODE: **Z305111**  
 • Flat circular convex elevator • Angled at 135°



MODEL: **SG11** ORDER CODE: **Z305112**  
 • Cone compressor

### Implant Preparation



MODEL: **SG15A** ORDER CODE: **Z305124**  
 • Diamond coating • Diameter of the tip end; 0.7mm



MODEL: **SG15B** ORDER CODE: **Z305125**  
 • Diamond coating • Diameter of the tip end; 1.3mm



MODEL: **SG15C** ORDER CODE: **Z305126**  
 • Diamond coating • Diameter of the tip end; 0.9mm



MODEL: **SG15D** ORDER CODE: **Z305127**  
 • Diamond coating • Diameter of the tip end; 1.3mm



MODEL: **SG16A** ORDER CODE: **Z305128**  
 • Diamond coating • Diameter; 2.0mm



MODEL: **SG16B** ORDER CODE: **Z305129**  
 • Diamond coating • Diameter; 2.6mm



Conical preparations for implant osteotomies



Implant preparation



Washable in the thermoisinfecteur



Autoclavable up to 135°C

## Scaling



MODEL: **G1-S** ORDER CODE: **Z305113**

## Perio (Root Planing)



MODEL: **P20-S** ORDER CODE: **Z305114**  
• Straight tip



MODEL: **P25R-S** ORDER CODE: **Z305115**  
• Right curved tip\*



MODEL: **P25L-S** ORDER CODE: **Z305116**  
• Left curved tip\*

## Retrograde Endo



MODEL: **E30RD-S** ORDER CODE: **Z305118**  
• Diamond coated  
• For posterior teeth (right angled)



MODEL: **E30LD-S** ORDER CODE: **Z305119**  
• Diamond coated  
• For posterior teeth (left angled)



MODEL: **E31D-S** ORDER CODE: **Z305120**  
• Diamond coated  
• For anterior and posterior teeth (70°)



MODEL: **E32D-S** ORDER CODE: **Z305121**  
• Diamond coated  
• For anterior teeth (90°)

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

## Maintenance (V-Tip)



MODEL: **V10-S** ORDER CODE: **Z305117**

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



MODEL: **V-P10** ORDER CODE: **Y900184**  
• Pack of 3 \*V10-S holder is not included



MODEL: **V-P11R** ORDER CODE: **Y1002165**  
• Right curved type\* • Pack of 3  
\*V10-S holder is not included



MODEL: **V-P11L** ORDER CODE: **Y1002166**  
• Left curved type\* • Pack of 3  
\*V10-S holder is not included



MODEL: **V-P12** ORDER CODE: **Y1002167**  
• Pack of 3 \*V10-S holder is not included



MODEL: **V-P26R** ORDER CODE: **Y1002168**  
• Right curved type\* • Pack of 3  
\*V10-S holder is not included



MODEL: **V-P26L** ORDER CODE: **Y1002169**  
• Left curved type\* • Pack of 3  
\*V10-S holder is not included

■ V-P11R/L, V-P12, V-P26R/L can be used only for VarioSurg3.




Washable in the thermoisinfectant



Autoclavable up to 135°C

## Tip Kits




**Bone Surgery**  
**Sinus Lift**  
**Scraper**  
**Sinus Membrane Tool**

MODEL: **Basic H-S Kit**  
 ORDER CODE: **Y1002775**

Contents

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



**Bone Surgery**

MODEL: **Bone Cut Kit**  
 ORDER CODE: **Y900688**

Contents

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



**Sinus Lift**

MODEL: **Sinus Lift Kit**  
 ORDER CODE: **Y900689**

Contents

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



**Retrograde Endo**

MODEL: **Endo-S Kit**  
 ORDER CODE: **Y900691**

Contents

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













**Implant Preparation**

MODEL: **Implant Preparation Kit**  
 ORDER CODE: **Y900774**

Contents

- SG15A, SG16B, SG16A, SG16B
- Tip holder

## Spare Parts

	MODEL	ORDER CODE	MODEL	ORDER CODE
	<b>VS3-LED-HPSC</b> LED Handpiece (with 2m cord)	E1133		<b>Irrigation Tube</b> (Pack of 5) Y900113
	<b>E Tip Replacement Wrench</b> For V10-S	Z217399		<b>Tube Holder</b> (Pack of 7) Y900767
	<b>VS Tip Wrench</b> For SG1A, SGBA (CR-40)	Z305350		<b>VA-SG-CASE</b> Sterilization Cassette 20001326
	<b>Tip Wrench</b> (CR-30)	10000977		<b>SG Link Stand</b> Z1176
	<b>Tips Holder</b>	20001327		<b>SG Link Cable</b> Z1189
	<b>Handpiece Stand</b>	Z1029201		



Washable in the thermodisinfecteur



Autoclavable up to 135°C