VarioSurg 3

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Specifications are subject to change without notice.

REF PR-D764E Ver.1 13.00.00.00

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

Twin LED lights

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

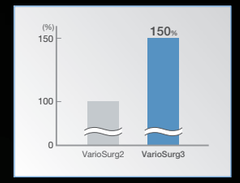
Clearer : LEDs generate natural daylight-quality light, which ensures clearer vision than halogen light sources.

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

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

135°C
Washable in the thermodisinfector
Autoclavable up to 135°C

VarioSurg3

Exceptional Power for Faster, More Accurate Procedures

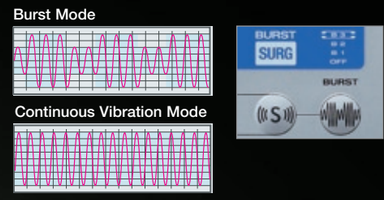
The exceptional power VarioSurg3 that enables precise, stress-free surgical procedures even when approaching hard bone in delicate areas.
The compact body offers a wide variety of functions. The large backlit LCD display and intuitive controls help reduce operating errors and make procedures safer.

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.



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

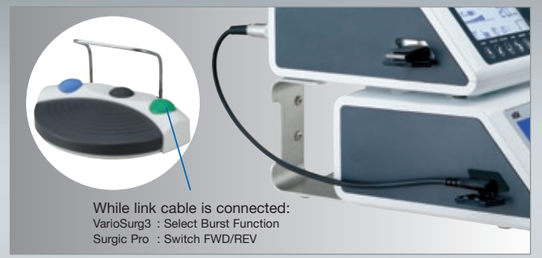
NSK's LINK STAND TECHNOLOGY allows you to conveniently link two supremely powerful and versatile surgical units for convenience and space saving while maintaining independence when needed.

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.

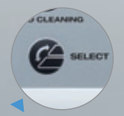


While link cable is connected:
VarioSurg3 : Select Burst Function
Surgic Pro : Switch FWD/REV

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)**

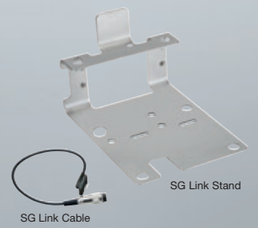
ORDER CODE: **Y1002729**

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 Stand

SG Link Cable

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)

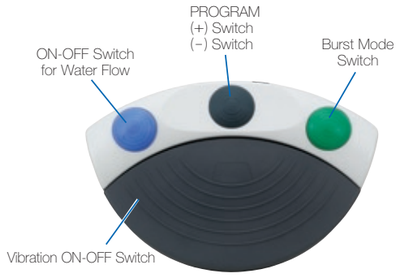
Specifications

Control Unit	
• 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.

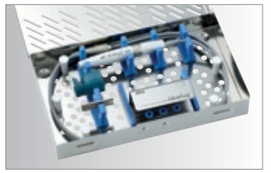


MODEL: **FC-78** ORDER CODE: **Z1102003**

• 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+ 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.

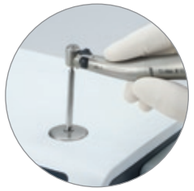
Surgic Pro+ Complete Sets with X-DSG20L Optic Handpiece Optic

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)

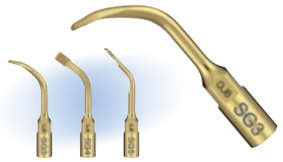
VarioSurg Tip Line Up

Ultrasonic Tips

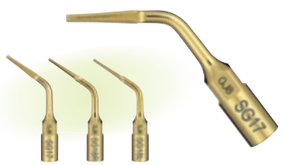
A Wide Choice for Clinical Applications

Bone Surgery

Scraper



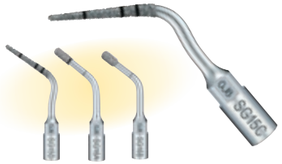
Extraction



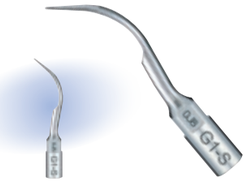
Sinus Lift

Sinus Membrane Tool

Implant Preparation

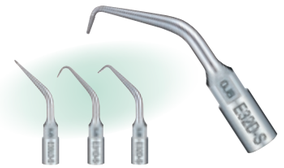


Scaling



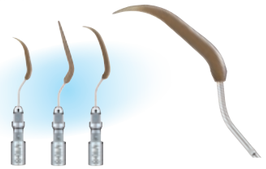
Perio (Root Planing)

Retrograde Endo



Maintenance (V-Tip)

Perio-Control



Bone Surgery

MODEL: **SG1** ORDER CODE: **Z305101**
150% MODEL: **H-SG1** ORDER CODE: **Z305151**
• TiN coating • Dots mark 3, 6 and 9mm from top of tip
• Five teeth; 0.6mm thick

MODEL: **SG1A** ORDER CODE: **Z305138**
• TiN coating • Dots mark 3, 6, 9,12 and 15mm from top of tip
• Five teeth; 0.6mm thick

MODEL: **SG2R** ORDER CODE: **Z305102**
• TiN coating • Right curved tip*
• Three teeth; 0.6mm thick

MODEL: **SG2L** ORDER CODE: **Z305103**
• TiN coating • Left curved tip*
• Three teeth; 0.6mm thick

MODEL: **SG8** ORDER CODE: **Z305109**
150% MODEL: **H-SG8** ORDER CODE: **Z305155**
• TiN coating • Dots mark 3, 6 and 9mm from top of tip
• Three teeth; 0.6mm thick

MODEL: **SG8A** ORDER CODE: **Z305139**
• TiN coating • Dots mark 3, 6, 9,12 and 15mm from top of tip
• Three teeth; 0.6mm thick

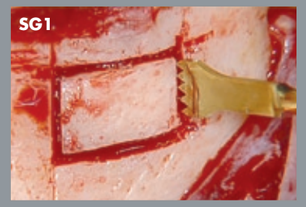
MODEL: **SG14R** ORDER CODE: **Z305122**
• TiN coating • Right curved tip*
• Five teeth; 0.6mm thick

MODEL: **SG14L** ORDER CODE: **Z305123**
• TiN coating • Left curved tip*
• Five teeth; 0.6mm thick

Washable in the thermodisinfector

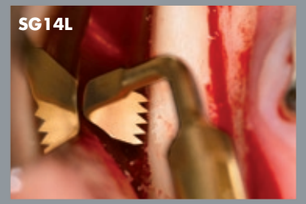
135°C Autoclavable up to 135°C

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



Unilateral anterior mandibular sampling

Excision of bone torus

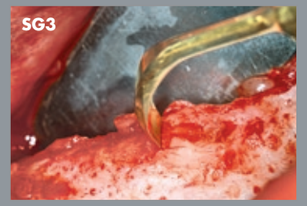


Anterior mandibular harvesting

*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



Ostroplasties

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

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

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

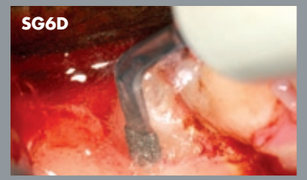
MODEL: **SG7D** ORDER CODE: **Z305108**

• Diamond coating

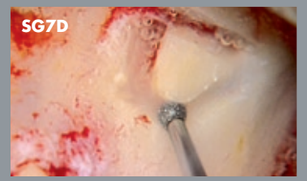
Washable in the thermodisinfector

Autoclavable up to 135°C

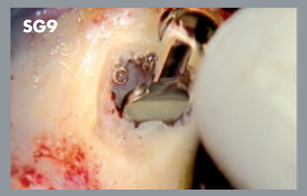
Extraction



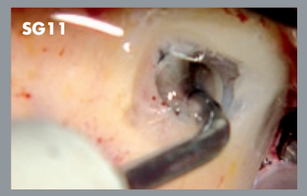
Avulsion of wisdom teeth and impacted teeth



Sinus graft



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

Washable in the thermodisinfector

135°C Autoclavable up to 135°C

Conical preparations for implant osteotomies

Implant preparation

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**

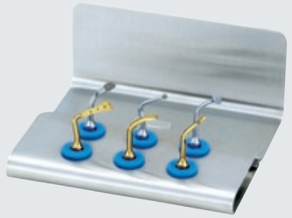
• Left curved type* • Pack of 3
*V10-S holder is not included

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

Washable in the thermodisinfector

135°c Autoclavable up to 135°C

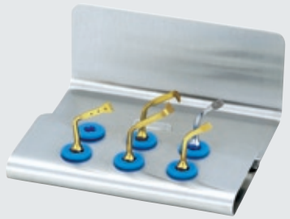
Tip Kits



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, SG15B, SG16A, SG16B
- Tip holder

Spare Parts

	MODEL	ORDER CODE
	VS3-LED-HPSC LED Handpiece (with 2m cord)	E1133
	E Tip Replacement Wrench For V10-S	Z217399
	VS Tip Wrench For SG1A, SG8A (CR-40)	Z305350
	Tip Wrench (CR-30)	10000977
	Tips Holder	20001327
	Handpiece Stand	Z1029201

	MODEL	ORDER CODE
	Irrigation Tube (Pack of 5)	Y900113
	Tube Holder (Pack of 7)	Y900767
	VA-SG-CASE Sterilization Cassette	20001326
	SG Link Stand	Z1176
	SG Link Cable	Z1189

Washable in the thermodisinfector

135°C Autoclavable up to 135°C