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Specifications are subject to change without notice.

REF PR-D764E Ver.2 13.00.00.00

Vario Surg 3

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.



1 VarioSurg3 VarioSurg3 2

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.

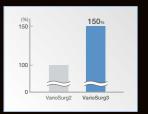
More Durable: LED light sources are longer lasting and

more durable than halogen bulbs.

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



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 threedimensional 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.



Washable in the thermodisinfector

Street Autoclavable up to 135°C



LED

Vario Surg 3

NSK

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.

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Unresonac Bone Surgery System Variaburg 3

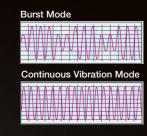
- PROGRAM +

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
- Dvnamic 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.

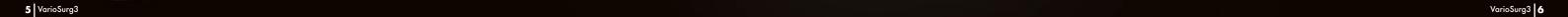


Variable Water Volume

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 75ml 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 Prot × Variosurg 3

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



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)









































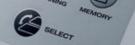




erspen Variosurg3





































Surgic Pro*

- TORQUE +

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 : 10~75 mL / min

 Programs : SURG x 5, ENDO x 2, PERIO x 2

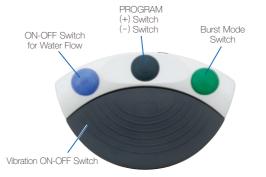
Dimensions

: 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 ORDER CODE: Y1002768 (VarioSurg3)

• Dimensions : W534 x D427 x H207 (mm)

9 VarioSurg3

Surgic Prot 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 Scraper A Wide Choice for Clinical Applications Sinus Lift Socket Lift Tips **Sinus Membrane Tool** Scaling Perio (Root Planing) Retrograde Endo Maintenance (V-Tip) Perio-Control

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*



Unilateral anterior mandibular sampling



Excision of bone torus



Anterior mandibular harvesting



135°C Autoclavable up to 135°C Tips that correspond to high power can be used up to 150% power setting.

• Five teeth; 0.6mm thick

*The direction of the tip's curve is



Mandibular harvesting at approach stage



The cutting part is bone torus



Ostroplasties

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











Sinus graft

Extraction

Washable in the thermodisinfector T35°C Autoclavable up to 135°C

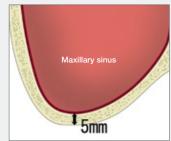
New Specialty Tips Exclusively for Sockets

Used as part of the socket lift method to swiftly perform sinus lift procedures, Nakanishi's new tip lineup is designed for minimal surgical invasiveness.

■ Process example for elevation of maxillary sinus membrane

A type of implant preparation site for a regular size implant ø4.0mm.

At the case of using VarioSurg



- *A case of around 5mm from the base of cortical bone to maxillary sinus.
- *Bone tissue is type 3 and good condition.
- *In addition to positive diagnosis by CT image, the vertical bone width should be diagnosed well and the implant preparation site could be formed until the base of maxillary antrum.



1. Bone cutting to within 1mm to the base of maxillary antrum by using SG15A tip. Please be careful not to push the tip too



2. Repeat bone cutting using SG15B tip to Please be careful not to push the tip too



3. Bone cutting by using SG16A tip. The implant preparation site is formed until little of the base of cortical bone remains.



4. Repeat bone cutting by using SG16B tip. The implant preparation site is formed until little of the base of cortical bone remains.



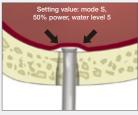
preparation site is formed by using SCL2D tip. The water level is set to 5. Please be careful not to force the tip into the implant preparation site. Too much water pressure may exert on the maxillary antrum membrane.

At the case of using drilling, this step is

excluded.

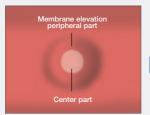


preparation site is continued to be formed by using SCL1D tip. The water level is set to 5. The cavity floor of the implant preparation site is cut by using the edge of the top of the tip. Please be careful not to force the tip into the implant preparation site. Too much water pressure may exert on the maxillary antrum membrane.



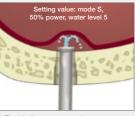
- 7. The maxillary antrum membrane is exfoliated by using SCL1 tip.
- The water level is set to 5. Slowly insert the top of the tip between the membrane and bone. Moving the tip along the wall of the implant preparation site will exfoliate

Please be careful, since the membrane can be torn at the edge (arrow part) between the bone and the membrane.



This image shows the elevated membrane which you will see from the maxillary antrum

Please check the condition of maxillary antrum membrane using the endoscope.



8. The Maxillary antrum membrane can now be elevated by using SCL1 tip.

9. The completed formation of the implant preparation site.

At the case of using drilling, the straight

implant preparation site of 3.2mm is

Socket Lift Tips

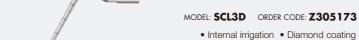


• Internal irrigation • Diamond coating

Internal irrigation

MODEL: SCL2D ORDER CODE: Z305182 • Internal irrigation • Diamond coating







MODEL: SCL4D ORDER CODE: Z305184

• Internal irrigation • Diamond coating



MODEL: SCL5D ORDER CODE: Z305175 • Internal irrigation • Diamond coating

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

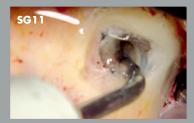


Before the mucous membrane of maxillary sinus is elevated

The estimated depth of the implant preparation site can be measured with the scale on the Tip.



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



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



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°)



Maintenance (V-Tip)

Perio-Control





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
- (From above)

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

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

Tip Kits



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



MODEL: Socket Lift Kit for Regular Size Implant ORDER CODE: Y1002841

Contents

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



Socket Lift Tips

MODEL: Socket Lift Kit for Wide Size Implant

ORDER CODE: Y1002842

Contents

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





Spare Parts

•	MODEL	ORDER CODE		MODEL	ORDER CODE
	VS3-LED-HPSC LED Handpiece (with 2m cord)	E1133		Irrigation Tube (Pack of 5)	Y900113
承	E Tip Replacement Wrench For V10-S	Z217399	X III	Tube Holder (Pack of 7)	Y900767
	VS Tip Wrench For SG1A, SG8A, Socket Lift Tip (CR-40)	Z305350	X III	VA-SG-CASE Sterilization Cassette	20001326
	Tip Wrench (CR-30)	10000977		SG Link Stand	Z1176
838 X E	Tips Holder	20001327		SG Link Cable	Z1189
承	Handpiece Stand	Z1029201			

