



Power, Safety & Accuracy,
No compromise



VarioSurg

Non stop evolution

NSK Research & Development is a continuous evolution and materialization of ideas driven by professionals' feedback, new treatment procedures and new production technology.

VarioSurg, with LED illumination, is a fine example of the momentum achieved by NSK R&D.

The latest VarioSurg system has been upgraded to further improve the ease of clinical application and integrated technology to deliver even safer minimally invasive treatment.

VarioSurg Handpieces **Optic / Non-Optic**

A Powerful Ultrasonic Surgical System with LED

Applications

- Bone surgery
- Sinus lifts
- Periodontal surgery
- Endodontic surgery



LED

Twin LED lights



NSK LED delivers natural daylight quality light bringing significant advantages to the way you work

Clearer : LEDs generate natural daylight quality light which assures clearer vision when compared to halogen light.

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

Comfortable Grip Handpiece

Superior ergonomics of the VarioSurg handpiece, including the slim and lightweight body, ensures minimal hand fatigue and greater accessibility to difficult oral regions. The twin LEDs integrated at the head allows for outstanding visibility, thus treatment is safer and precisely accurate. Oscillation at the tip of the handpiece due to advanced ultrasonics eliminates heat at the operation site, allowing for minimally invasive procedures.

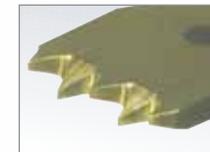
Shorter and Lighter Handpiece

A shorter and lighter NSK LED handpiece achieves a perfect balance. Surgical procedures are easier and stress free to help you provide more precise and efficient treatment.



The Special Tip of VarioSurg made by NSK's High Construction Accuracy

Maximizing sharpness of tips through the three-dimensionally cutting (toothing) to the blade edge.



Optic MODEL: **VS-LED-HPSC** ORDER CODE: **E1084**
• with Cord 2m

Non-Optic MODEL: **VA-SGN-HPSC** ORDER CODE: **E377**
• with Cord 2m



135°C



Washable in the thermodisinfectant
Autoclavable up to 135°C

The Advanced Ultrasonic Technology of NSK

VarioSurg is equipped with various advanced functions of ultrasonic bone surgery through its specially-made engine. The Feedback & Auto Tuning Function achieve high cutting efficiency through the automatic power control to exacting levels according to grinding surface.

The Burst Function generates the "hammer effect", which adds more powerful vibration to the vibrating tip, thus improving the ability to cut hard tissue.

Advantages

Power: superior cutting capability shortens treatment time

Minimally invasive: eliminates heat generation during bone dissection

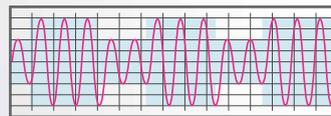
Safe: avoids damage to soft tissue even during accidental contact

Precision: cavitations effect of irrigation solution keeps surgical site blood free

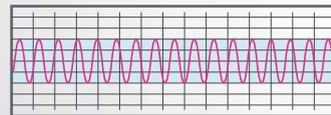
Burst Mode

Burst Mode creates a hammer drill effect promoting cutting of the hardest tissues. Superior cutting capability of the burst mode facilitates cutting of hard tissue without stress, and effectively shortens treatment time.

Burst mode



Continuous vibration mode



Feedback Function

Feedback Function constantly checks the performance parameters of the ultrasonic unit during operation. Simultaneously it controls the power output, which enables to supply the power suited for bone cutting procedure.

Simple, intuitive graphic operation panel



Main Features

- 3 modes (SURG, ENDO, PERIO)
- Burst Mode
- 9 programmes (SURG x 5, ENDO x 2, PERIO x 2)
- Automatic Cleaning Mode
- Ergonomic Handpiece (LED or Non-Optic)
- Feedback Function
- Auto Tuning Function



VarioSurg Complete Sets **Optic / Non-Optic**

VarioSurg Complete Set with LED Handpiece

MODEL: **VSRG OPT** ORDER CODE: **Y1001928**

Contents

- Control Unit • LED Handpiece with 2m cord
- FC-51 Foot Control • Sterilisation Cassette
- Handpiece Stand • Irrigation tube (5 pcs.) and other accessories
- Basic-S Kit (SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

VarioSurg Complete Set with Non-Optic Handpiece

MODEL: **VSRG 120V2** ORDER CODE: **Y1001939**

Contents

- Control Unit • Non-Optic Handpiece with 2m cord
- FC-51 Foot Control • Sterilisation Cassette
- Handpiece Stand • Irrigation tube (5 pcs.) and other accessories
- Basic-S Kit (SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)



Specifications

Control Unit

- Frequency : 28-32 kHz
- Power Supply : AC120V 50/60 Hz
- Irrigation Flow Rate : 9-90 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W268 x D230 x H103 (mm)

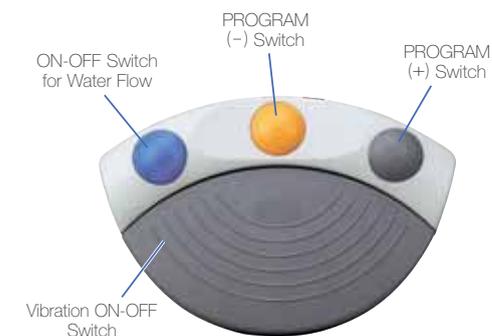
Foot Control

- Foot Control Functions :
ON-OFF Switch for Water Flow,
PROGRAM (+) Switch, PROGRAM (-) Switch
Vibration ON-OFF Switch

Foot Control

Hands-free Program Adjustments Via Foot Control

The VarioSurg Foot Control, which meets IPX8 Standards for medical foot control systems, allows perfect control during delicate surgical procedures. A bracket enables the Foot Control to be easily raised or moved without using your hands during use.



MODEL: **FC-51** ORDER CODE: **Z316001**

- With 2m cord

Sterilization Cassette

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



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

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

Carrying Case (Optional)

The NSK Carrying Case can accommodate all VarioSurg components.



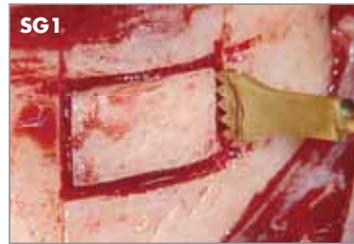
MODEL: **Carrying Case (VarioSurg)** ORDER CODE: **Y1001907**

- Dimensions : W469 x D344 x H180 (mm)

VarioSurg Ultrasonic Tips

Bone Surgery

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



Unilateral anterior mandibular sampling



Excision of bone torus



Anterior mandibular harvesting

Bone Surgery

		<p>MODEL: SG19 ORDER CODE: Z305135</p> <ul style="list-style-type: none"> • TiN coating • Dot mark 3mm from top of tip • Five teeth; 0.8mm thick
		<p>MODEL: SG30 ORDER CODE: Z305137</p> <ul style="list-style-type: none"> • TiN coating • Sharp edge • 0.5mm thick



Mandibular harvesting at approach stage

Scraper

		<p>MODEL: SG3 ORDER CODE: Z305104</p> <ul style="list-style-type: none"> • TiN coating • Triple sided edge spatula tip
		<p>MODEL: SG4 ORDER CODE: Z305105</p> <ul style="list-style-type: none"> • TiN coating • Edge spatula tip
		<p>MODEL: SG5 ORDER CODE: Z305106</p> <ul style="list-style-type: none"> • TiN coating • Rounded edge spatula tip



Ostroplasties

Sinus Lift

		<p>MODEL: SG6D ORDER CODE: Z305107</p> <ul style="list-style-type: none"> • Diamond coating
		<p>MODEL: SG7D ORDER CODE: Z305108</p> <ul style="list-style-type: none"> • Diamond coating



Avulsion of wisdom teeth and impacted teeth



Sinus graft

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



Washable in the thermodisinfector



Autoclavable up to 135°C

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 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



Extraction



Sinus membrane



Sinus graft

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



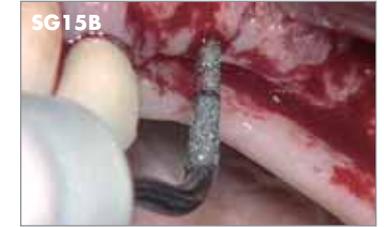
MODEL: **SG15D** ORDER CODE: **Z305127**
 • Diamond coating • Diameter of the tip end; 1.3mm



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

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



Washable in the thermodisinfectore



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*

Maintenance (V-Tip)



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

*Plastic Tip is not included
*Tip wrench is not included



MODEL: **V-P10** ORDER CODE: **Y900184**

*Tip wrench is not included • Pack of 3



MODEL: **V10-S Tip wrench set**
ORDER CODE: **Y1001918**

Contents • V10-S • V-P10 (pack of 3)
• E Tip Replacement Wrench

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°)

Tip Kits



MODEL: **Basic-S Kit**
ORDER CODE: **Y900687**

Contents
• SG1, SG3, SG5, SG6D, SG7D, SG11
• Tip holder



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

Contents
• SG1, SG2R, SG4, SG2L, SG6D
• Tip holder



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

Contents
• SG1, SG3, SG6D, SG9, SG10, SG11
• Tip holder



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

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



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

Contents
• SG15A, SG15B, SG16A, SG16B
• Tip holder

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



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Spare Parts

	MODEL	ORDER CODE		MODEL	ORDER CODE
	VS-LED-HPSC LED Handpiece (with Cord 2m)	E1084		Tips Holder	20001327
	VA-SGN-HPSC Non-Optic Handpiece (with Cord 2m)	E377		Handpiece Stand	Z1029201
	E Tip Replacement Wrench For V10-S	Z217399		Irrigation Tube (Pack of 5)	Y900113
	VS Tip Wrench For SG1A, SG8A (CR-40)	Z305350		Tube Holder (Pack of 7)	Y900767
	Tip Wrench (CR-30)	10000977		VA-SG-CASE Sterilization Cassette	20001326



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