

*VarioSurg*™ ULTRASONIC SURGICAL SYSTEM

powerful and bright



**NSK**



**BRASSLER USA**<sup>®</sup>  
DENTAL INSTRUMENTATION

# VarioSurg™

## Innovative Ultrasonic Surgery

A Powerful Ultrasonic Surgical System with Illumination

### Applications

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



### Advantages

**Power:** superior cutting capability shortens treatment time

**Visibility:** optic handpiece assures safe and easy surgical procedures

**Minimally invasive:** eliminates heat generation during bone dissection

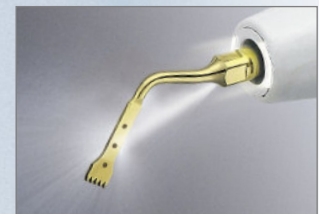
**Safe:** avoids damage to soft tissue even during accidental contact

**Comfort:** for patients – operation can be performed under local anesthesia and no collateral damages to soft tissues offers simpler post operative care

for clinicians – light weight and ergonomic design handpiece reduces operator stress

**Precision:** cavitation effect of irrigation solution keeps surgical site blood free

### Optic Handpiece



VarioSurg is the only ultrasonic surgical system with an optic handpiece.\* The powerful NSK cellular optics offers improved visibility of the target site which helps to provide more precise and efficient treatment.  
(\*As of Jan. 2008)

NSK's VarioSurg offers numerous compelling advantages, the first of which is strong, precise cutting power enhanced with TiN (Titanium Nitride) coated bone cutting tips. Applying a TiN coating to the tips increases the cutting efficiency, reduces the cutting time and leaves a sharp cutting surface which helps with bone formation. VarioSurg not only employs ultrasonic cavitation of the irrigation solution but also features an industry first optic handpiece to provide enhanced visibility of the surgical field.

Using an ultrasonic device for surgery reduces heat generation minimizing osteonecrosis and avoiding damage to any surrounding soft tissue. When an area requires special attention, precise cutting is assured, fast and stress free, while bone can be treated mechanically with VarioSurg's ultrasonic surgical techniques. Activating Auto Cleaning Mode after surgery assures that the irrigation lines are flushed through to avoid clogging.

NSK VarioSurg — new solution for osteotomy and osteoplasty.



### Main Features

- 3 modes (Surg, Endo, Perio)
- Burst function
- 9 programmes (Surg x 5, Endo x 2, Perio x 2)
- Auto Cleaning Mode
- Optic Handpiece
- Automatic tuning
- Wide tip range (Including TiN coated bone cutting tips)

### Feedback Function

A newly developed feedback function in the control unit constantly checks the performance parameters of the ultrasonic unit while in operation and simultaneously controls the power output based on the feedback information. This feature makes it possible to continuously supply the power which is best suited for each bone cutting procedure.

### Simple, intuitive graphic operation panel

Program Number      Power      Flow Indication



Memorize      3 Modes      S : Surg  
E : Endo  
P : Perio

# VarioSurg Ultrasonic Tips

## Bone Surgery



MODEL **SG1** ORDER CODE **5017574U0**

- TiN coating • Dots mark 3mm and 6mm and 9mm from tip
- Five teeth; 0.5mm thick



MODEL **SG2R** ORDER CODE **5017575U0**

- TiN coating • Right curved tip\*
- Three teeth; 0.5mm thick



MODEL **SG2L** ORDER CODE **5017576U0**

- TiN coating • Left curved tip\*
- Three teeth; 0.5mm thick



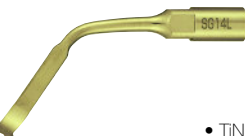
MODEL **SG8** ORDER CODE **5017852U0**

- TiN coating • Dots mark 3mm, 6mm and 9mm from tip
- Three teeth; 0.5mm thick



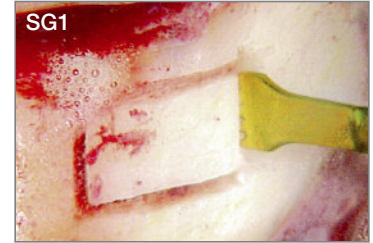
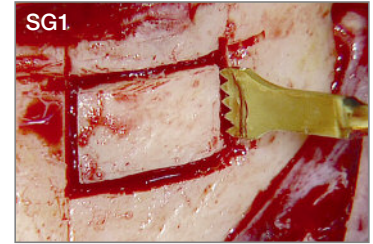
MODEL **SG14R** ORDER CODE **5017853U0**

- TiN coating • Right curved tip\*
- Five teeth; 0.5mm thick



MODEL **SG14L** ORDER CODE **5017854U0**

- TiN coating • Left curved tip\*
- Five teeth; 0.5mm thick



Unilateral anterior mandibular sampling



Anterior mandibular harvesting

## Scraper



MODEL **SG3** ORDER CODE **5017577U0**

- TiN coating • Triple sided edge spatula tip



MODEL **SG4** ORDER CODE **5017578U0**

- TiN coating • Edge spatula tip



MODEL **SG5** ORDER CODE **5017579U0**

- TiN coating • Rounded edge spatula tip



Osteoplasties

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

## Sinus Membrane Tool



MODEL **SG9** ORDER CODE **5017582U0**

- Flat circular convex elevator
- Angled at 90°



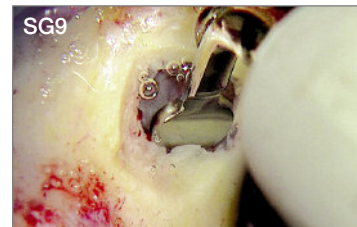
MODEL **SG10** ORDER CODE **5017583U0**

- Flat circular convex elevator
- Angled at 135°

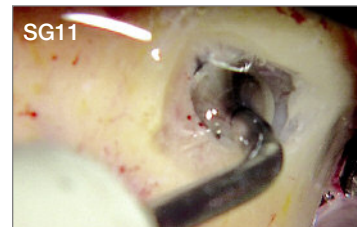


MODEL **SG11** ORDER CODE **5017584U0**

- Cone compressor



SG9  
Sinus membrane



SG11  
Sinus graft

## Sinus Lift



MODEL **SG6D** ORDER CODE **5017580U0**

- Diamond coating
- Average dust size 63µm

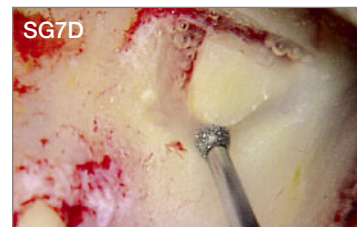


MODEL **SG7D** ORDER CODE **5017581U0**

- Diamond coating
- Average dust size 63µm



SG6D  
Avulsion of wisdom teeth and impacted teeth



SG7D  
Sinus graft

## Scaling



MODEL **G1-S** ORDER CODE **5017585U0**

## Perio (Root Planing)



MODEL **P20-S** ORDER CODE **5017586U0**

- Straight tip



MODEL **P25R-S** ORDER CODE **5017587U0**

- Right curved tip\*



MODEL **P25L-S** ORDER CODE **5017588U0**

- Left curved tip\*

## Retrograde Endo



MODEL **E30RD-S** ORDER CODE **5017589U0**

- Diamond coated
- For posterior teeth (right angled)



MODEL **E30LD-S** ORDER CODE **5017590U0**

- Diamond coated
- For posterior teeth (left angled)



MODEL **E31D-S** ORDER CODE **5017591U0**

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



MODEL **E32D-S** ORDER CODE **5017592U0**

- Diamond coated
- For anterior teeth (90°)

## Maintenance (V-Tip)



MODEL **V10-S** ORDER CODE **5017593U0**

- \* Plastic Tip is not included



MODEL **V-P10** ORDER CODE **5017594U0**

- \* Tip wrench is not included
- Pack of 3

## Tip Kits



Contents

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

MODEL **Basic-S Kit** ORDER CODE **5017595U0**



Contents

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

MODEL **Bone Cut Kit** ORDER CODE **5017596U0**



Contents

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

MODEL **Sinus Lift Kit** ORDER CODE **5017597U0**



Contents

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

MODEL **Endo-S Kit** ORDER CODE **5017598U0**

*VarioSurg tips are not compatible with other NSK ultrasonic units (Varios 350, Varios 750, etc.)*

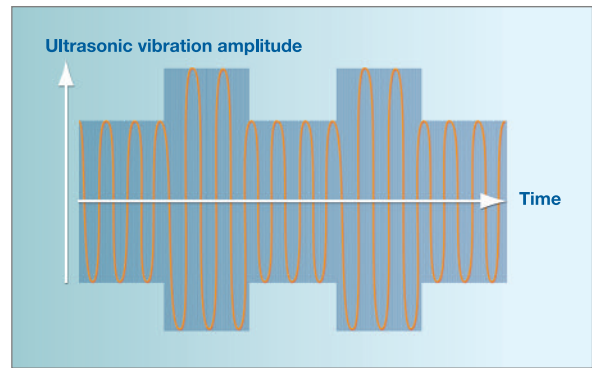


Autoclavable at 135°C max

# Cutting Bone Effectively

## Burst Function

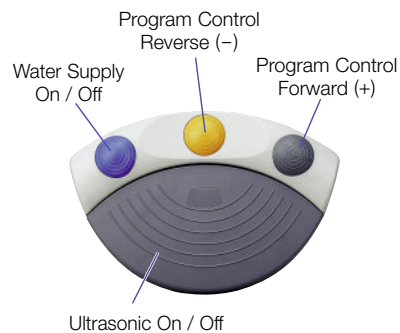
Ultrasonic vibration is pulsed in blocks to offer greater impact to the hard tissue and improve cutting efficiency, thus shortening treatment time. Clinicians can choose from three types of burst mode depending on the bone density. Using the mode selection during surgery is easy with the control keyboard.



## FC-51 Foot Control

### Hands-free Program Adjustments Via Foot Control

The new FC-51 foot control is user friendly and allows perfect control while performing delicate surgical procedures. The VarioSurg foot control meets IPX8 Standards for medical foot control systems. The attractively shaped FC-51 is equipped with a bracket enabling it to be easily raised or moved with the foot.



MODEL **FC-51** ORDER CODE **5017572U0**

- With 2m cord

## Sterilization Cassette



The sterilisation cassette is designed for the safe processing and storage of VarioSurg components.



MODEL **VA-SG-CASE** ORDER CODE **5017850U0**

- Dimensions : W270 x D170 x H45 (mm)
- With appropriate compartments for handpiece, cord, tip replacement wrench and tip holders

# VarioSurg Complete Pack



## VarioSurg Complete Pack with Optic Handpiece

MODEL **VSRG 120V1 (120V)** ORDER CODE **5017567U0**

MODEL **VSRG 230V1 (230V)** ORDER CODE **5017568U0**

### Contents

- Control Unit
- Optic Handpiece with 2m cord
- FC-51 Foot Control (IPX8 certified)
- Sterilization Cassette
- Irrigation tube and other accessories
- Basic-S Kit (SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

### Specifications

#### Control Unit

- Frequency : 27-34.5 kHz
- Power Supply : AC120V or 230V 50/60 Hz
- Max. Pump Output : 5~80 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W268 x D230 x H103 (mm)

#### Foot Control

- Foot Control Functions : Water Supply On / Off, Ultrasonic On / Off, Program Control Reverse / Forward
- Applied Standard : IPX8

## Spare Parts

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
VA-SG-HPSC (Cord 2m)	 Optic	5017569U0	E Tip Replacement Wrench		5010484U0	CR-4 Tip Replacement Wrench with Torque Limiter		5017698U0



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