

Create it

VarioSurg 4

**NSK**



# The Essential Ultrasonic Bone Surgery System for Implant Treatments

The development of the VarioSurg ultrasonic bone surgery system continues with the introduction of the VarioSurg 4. With pioneering high power ultrasonic technology and a diverse lineup of tips for various procedures, the VarioSurg 4 allows for swift and intricate bone removal and shaping. It minimizes damage to surrounding soft tissue and reduces invasiveness compared to conventional bone and micro saws. With new advantages like wireless foot control integration, compatibility with Surgic Pro2, and a refined, stylish design, the VarioSurg 4 is set to exceed clinicians' expectations while creating a stress-free environment.

## VarioSurg 4

Ultrasonic Bone Surgery System



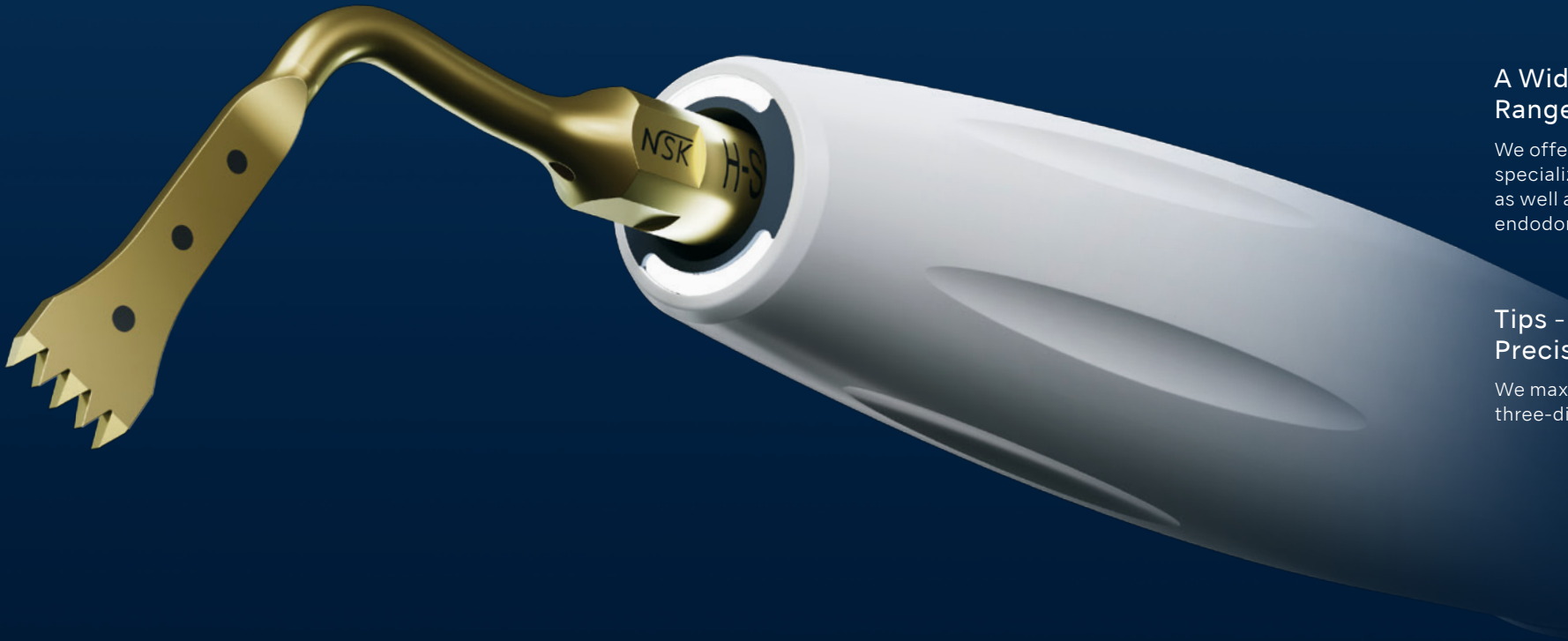


# The Powerful Handpiece with a Super-Slim Design

This super-slim, lightweight handpiece with twin LEDs provides exceptional accessibility and visibility. It's well-balanced ergonomic design minimises hand fatigue during extended treatments. These innovative features allow the VarioSurg 4 to faithfully reflect the operator's intentions with extraordinary comfort and precision. Advanced ultrasonic technology produces oscillation of the tip that eliminates heat at the operation site, allowing for minimally invasive procedures.

## Applications

- <Oral Surgery>
  - Bone surgery
  - Scraper
  - Sinus lifts
  - Extraction
  - Sinus Membrane Tool
  - Implant preparation
- <Perio>
  - Scaling
  - Perio (Root Planing)
  - Maintenance
  - Retrograde Endo



## Maximum Output. Minimal Chair Time

Surg Mode delivers maximum power output, controlled through feedback and auto-tuning functions. In conjunction with the precision VarioSurg tips, this contributes to more efficient treatments and reduced chair time for patients.

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

- Clearer : LEDs generate natural daylight-quality, which ensures clearer vision than halogen light sources.
- More Durable : LED light sources are longer lasting than halogen bulbs



Twin LED lights

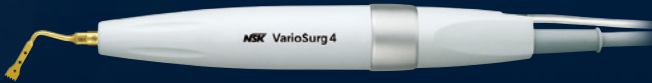
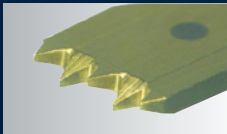
## A Wide and Versatile Range of Tips

We offer an extensive lineup of specialized tips for bone surgery as well as periodontal and endodontic procedures.



## Tips - Products of NSK's Precision Manufacturing

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



Optic	MODEL	ORDER CODE
●	VS4-LED-HPSC	EA14170001

• with 2m cord



Washable in the therm disinfectant  
Autoclavable up to 135°C

# Smart and Intuitive Control Panel

The control unit features a harmonious design that works technologically and aesthetically with the Surgic Pro2, allowing for a wide range of functionality for various procedures. Also, with wireless foot control integration and Bluetooth® connectivity with Surgic Pro2, there's no need for cables or wires. The control unit includes a programmable memory function that can be personalized to match the preferences and usage conditions of individual clinicians. The incorporation of a large, backlit LCD screen and touch panel with intuitive icon buttons, ensures excellent visibility and smooth operation.

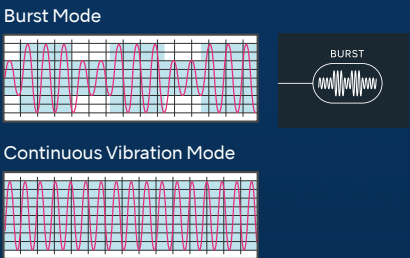


## Main Features

- Major Power Boost
- 3 Modes (SURG, ENDO, PERIO)
- Selectable Burst Mode (3 frequencies)
- 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

## Burst Mode With Three Different Frequency Levels

Burst Mode delivers small, periodic vibrations in response to a consistent vibration, creating a suitable 'hammer effect' for cutting hard cortical bone by introducing variations in vibration. This mode is switchable during procedures, and with three adjustable Burst Mode levels, it allows for easy mode and level selection based on the needs of the surgical procedure and bone conditions.

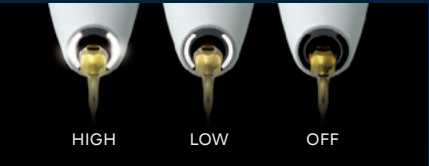


## Feedback & Auto-Tuning Functions for Consistent Cutting Performance and Stability

Optimal power is supplied to the tip as it automatically senses the condition of the surgical site. Oscillation frequency is also automatically controlled, maintaining the specified output value at the tip and sustaining the vibration state. These features ensure a stable, consistent power supply and enhance the efficiency of the procedure.

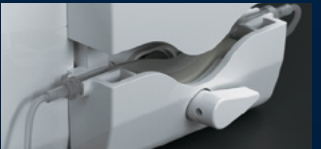
## Adjustable Light Intensity

Switch effortlessly between three levels of light intensity.



## Silent and Smooth Irrigation Pump

The irrigation pump provides a consistent and steady flow, operating quietly in the background. Setting-up the irrigation tubing is simple. The pump fits seamlessly into the elegant design of VarioSurg 4.



## Variable Water Levels

Select from the five water levels, depending on the power setting and oral conditions to efficiently cool the selected tip. Maximum pump output is at 76ml per minute, preventing the tip from overheating and damaging tissue.

## Memory Function

You can save settings for procedures or tips using the memory button to save a program. Then easily call up these settings by pressing the program button.

# Surgic Pro2 x VarioSurg 4

## Two devices. One solution.

### Unlimited potential.

The Bluetooth®-enabled link function\* allows for wireless connectivity between the surgical micromotor system, Surgic Pro2, and the ultrasonic bone surgery system, VarioSurg 4, enabling control of both instruments with a single foot control. This integration of both systems with a common interface allows for complete synergy, facilitating a wide range of procedures for simple and stress-free operation. This cohesive design contributes to a more refined and unified system.



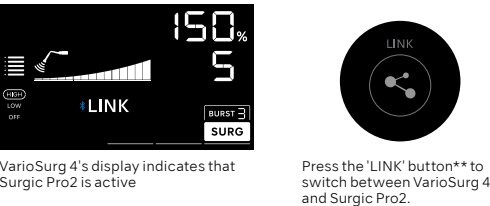
## Surgic Pro2 and VarioSurg 4 Link Function

VarioSurg 4 features built-in Bluetooth® functionality, allowing it to be easily linked with the surgical micromotor system, Surgic Pro2. This enables the operation of both units with one single wireless foot control. Easily switch between the two systems, ensuring a smooth and efficient workflow.



## Safe Operation

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



VarioSurg 4's display indicates that Surgic Pro2 is active

Press the 'LINK' button\*\* to switch between VarioSurg 4 and Surgic Pro2.



MODEL	ORDER CODE
Link Stand3	ZA16230001

• Dimensions : W 210 x D 300 x H 180 mm • Weight : 1.85 kg



# VarioSurg 4

## Complete Set

Optic	MODEL	ORDER CODE
●	VarioSurg 4 (230V)	Y1500706

- Contents**
- Control Unit
  - LED Handpiece with 2m cord
  - FC-86 Foot Control
  - Sterilization Cassette
  - Handpiece Stand
  - Irrigation tube (3 pcs.) and other accessories
  - Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

## Complete Set without Foot Control

Optic	MODEL	ORDER CODE
●	VarioSurg 4 w/o FC (230V)	Y1500712

- Contents**
- Control Unit
  - LED Handpiece with 2m cord
  - Sterilization Cassette
  - Handpiece Stand
  - Irrigation tube (3 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 : AC100 - 240V 50/60 Hz
  - Max. Pump Output : 76 mL / min
  - Programs : SURG x 5, ENDO x 2, PERIO x 2
  - Dimensions : W 245 x D 235 x H 90 mm

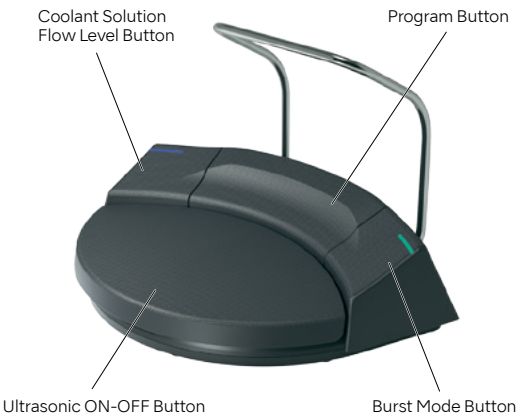


# Foot Control

## Linked with a wireless foot control

Bluetooth® connectivity allows selection of the optimal position without worrying about cable length. The foot control is 400g lighter than the previous model (hanger included) making it easy to reposition. The "Coolant Solution Flow Level Button", "Program Button" and "Burst Mode Button" are also located on the foot control which allows you to focus on the treatment. The energy-efficient power supply uses 3 AAA batteries, which last about 6 months. A flashing light indicates when the batteries are running low.

MODEL	ORDER CODE
FC-86	ZF16040001



## Optional

MODEL	PRODUCTS	ORDER CODE
FC-78 With 2m cord		Z1102003

MODEL	PRODUCTS	ORDER CODE
Carrying Case Dimensions : W 534 x D 427 x H 207 mm		Y1004219

MODEL	PRODUCTS	ORDER CODE
iCart Duo Dimensions : H 101.65 cm Weight : 16.5 kg		S9090

## Spare Parts

MODEL	PRODUCTS	ORDER CODE
E Tip Replacement Wrench For V10-S		Z217399
CR-40 For SG1A, SG8A, Socket Lift Tip VS Tip Wrench		Z305350
CR-30 Tip Wrench		10000977

MODEL	PRODUCTS	ORDER CODE
Tips Holder		Z221086
Handpiece Stand		Z1029201
Coolant Solution Hanger Post		U370152

MODEL	PRODUCTS	ORDER CODE
Irrigation Tube (Pack of 5)		Y900113
Tube Holder (Pack of 7)		Y900767
VA-SG-CASE Sterilization Cassette		Z313102

