

ORAL SURGERY

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Create it 

NSK

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Increased Accuracy

Improved accuracy in speed and torque for safety during operation.



Surgic Pro

Surgery System

Surgic Pro Micromotor

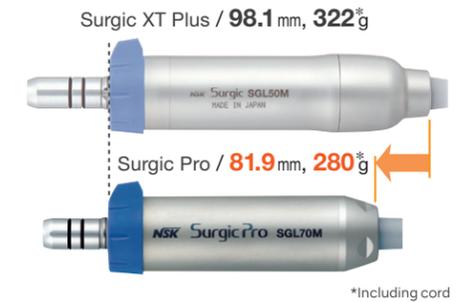
The Evolution of the Surgic Pro micromotor. LED is Brighter and Lighter

- Powerful torque (up to 80 Ncm)
- Wide speed range (200 to 40,000 min⁻¹)
- High torque accuracy
- Light and small micromotor
- LED illumination (over 32,000 LUX)
- Excellent durability
- Autoclavable, thermo-disinfectable and maintenance-free brushless design



Shorter and Lighter than the conventional optic surgical micromotor

This new surgical micromotor is 16.2 mm shorter and weighs 42 g less compared to the conventional optic surgical micromotor.



LED illumination helps the clinicians increase visibility, resulting in greater precision.

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

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



Optic	MODEL	ORDER CODE
●	SGL70M	E1023
—	SG70M	E1025

• Solid titanium body • with 2 m cord

Surgic Pro Control Unit

Oral Surgery Procedures Made Easy

All necessary functions for oral surgery procedures and implantology in one stylish and compact unit.



Control Unit with Advanced Handpiece Calibration – High Torque Accuracy Guaranteed

Use NSK Surgic Pro Advanced Handpiece Calibration to calibrate micromotor and handpiece to the rotational resistance of each individual handpiece prior to operation. Advanced Handpiece Calibration guarantees accurate torque for safety during operation.

Large Illuminated LCD

Large backlit LCD ensures clear visibility of all treatment parameters at all times.



Slim, High-Performance Pump

NSK has designed a slim, high performance irrigation pump. The pump is easily accessible and user friendly.



Adjustable Light Intensity

3 levels of light intensity can easily be adjusted by the user (High/Low/Off) to suit treatment conditions.



Surgic Pro Series can memorize 8 different Implant Systems

Within each System you can program 8 different settings. Please refer to implant manufacturers guidelines for recommended settings.

Surgic Pro Complete Set



X-SG20L Optic Handpiece

Complete Set with X-SG20L Optic Handpiece

Optic	MODEL	ORDER CODE
●	Surgic Pro OPT (120V)	Y1001949

Contents

- Control Unit without data storage facility
- SGL70M LED Micromotor • FC-78 Foot Control
- X-SG20L Optic Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Specifications

- [Control Unit with Advanced Handpiece Calibration]
- Power Supply : AC 120 V 50/60 Hz
 - Max. Pump Output : 75 mL/min
 - Programs : 8 Programs / Implant Systems
 - Dimensions : W 265 x D 220 x H 100 mm

[Micromotor]

- Torque : 5-80 Ncm
- Motor Speed : 200-40,000 min⁻¹
- Light Power : over 32,000 LUX (LED Micromotor)

[Foot Control]

- Foot Control Functions : Program Button, Speed Control Pedal, Coolant Solution Flow Volume Button, Forward / Reverse Button

Complete Set with SG20 Handpiece

Optic	MODEL	ORDER CODE
—	Surgic Pro NON-OPT (120V)	Y1001950

Contents

- Control Unit without data storage facility
- SG70M Non-Optic Micromotor • FC-78 Foot Control
- SG20 Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Foot Control

Stay in control

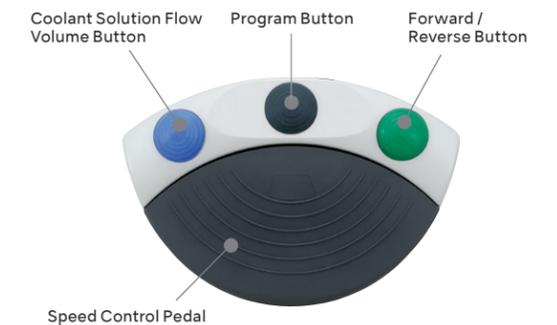
The Foot Control is user friendly and allows operation of all functions within the preset parameters without touching the control panel to avoid accidental activation of the micromotor outside the preset limits. The Surgic Pro is certificated according to IPX8.

Handle Set (Optional)

Handle Set can be easily attached to Foot control (FC-78).



MODEL	ORDER CODE
Handle Set	Z1027



MODEL	ORDER CODE
FC-78	Z1102

• With 2 m cord

Carrying Case (Optional)

The NSK Carrying Case can accommodate all Surgic Pro components.



MODEL	ORDER CODE
Carrying Case (Surgic Pro)	Y1001952

• Dimensions : W 534 x D 427 x H 207 mm

Surgical Handpieces

Ti-Max X-SG20L



Gear Ratio	Optic	MODEL	ORDER CODE
20:1 Reduction	●	X-SG20L	C1003

- Max. Torque : 80 Ncm • Max. Speed : 2,000 min⁻¹
- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics • Double Sealing System • Push Button Chuck
- External and internal cooling

Ti-Max X-SG93L



Triple Spray



Gear Ratio	Optic	MODEL	ORDER CODE
1:3 Increasing	●	X-SG93L	C1004
1:3 Increasing	—	X-SG93	C1007

- Max. Speed : 120,000 min⁻¹
- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics (X-SG93L) • Clean Head System
- Push Button Chuck • External cooling • For FG burs (ø1.6)

S-Max SG20



Gear Ratio	Optic	MODEL	ORDER CODE
20:1 Reduction	—	SG20	C1010

- Max. Torque : 80 Ncm • Max. Speed : 2,000 min⁻¹
- Stainless Steel Body • Double Sealing System • Push Button Chuck
- External and internal cooling

Ti-Max X-SG65L Straight Handpiece



Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	X-SG65L	H1009
1:1 Direct Drive	—	X-SG65	H1038

- Max. Speed : 40,000 min⁻¹
- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics (X-SG65L) • Clean Head System
- External cooling • For HP burs (ø2.35) • For CA burs (ø2.35)*
- *Need to insert the supplied bur stopper

■ This handpiece is used only for the NSK Surgical Unit with torque calibration. (eg. Surgic Pro series)

Surgery Handpieces



Straight Handpiece



Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	SGS-ES	H264

• Max. Speed : 40,000 min⁻¹ • Twist chuck • For surgical burs (ø2.35)



Gear Ratio	MODEL	ORDER CODE
1:2 Increasing	SGS-E2S	H266

• Max. Speed : 80,000 min⁻¹ • Twist chuck • For surgical burs (ø2.35)

20° Angle Handpiece



Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	SGA-ES	H263

• Max. Speed : 40,000 min⁻¹ • Twist chuck • For surgical burs (ø2.35)



Gear Ratio	MODEL	ORDER CODE
1:2 Increasing	SGA-E2S	H265

• Max. Speed : 80,000 min⁻¹ • Twist chuck • For surgical burs (ø2.35)



VarioSurg

Powerful Surgical Precision

VarioSurg Handpieces

A Powerful Ultrasonic Surgical System with LED

Applications

- Bone Surgery
- Scraper
- Extraction
- Sinus Lift
- Sinus Membrane
- Implant Preparation
- Scaling
- Perio (Root Planing)
- Retrograde Endo
- Maintenance



NSK's twin LEDs deliver natural daylight-quality illumination, and will revolutionize the way you work.

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

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

Comfort Grip Handpiece Design

The superior ergonomics of the VarioSurg 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.

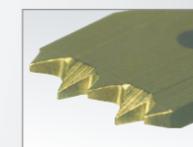
Shorter, Lighter Handpiece

VarioSurg'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.



Tips - Products of NSK's Meticulous Manufacturing

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



Optic	MODEL	ORDER CODE
●	VS-LED-HPSC	E1084

• With 2 m cord

VarioSurg Control Unit

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

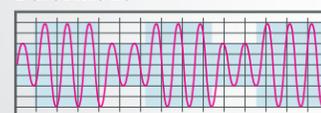
Safe : avoids damage to soft tissue even during accidental contact

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

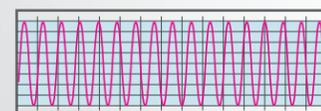
Burst Mode

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



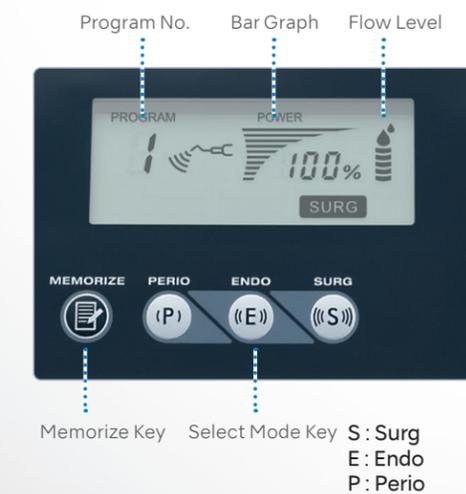
Feedback Function

The Feedback Function constantly monitors the performance parameters of the ultrasonic unit during operation and simultaneously controls the power output, to optimize the level of power depending on the procedure.

Main Features

- 3 Modes (SURG, ENDO, PERIO)
- Burst Mode
- 9 Programs (SURG x 5, ENDO x 2, PERIO x 2)
- Automatic Cleaning Mode
- Feedback Function
- Auto Tuning Function

Simple, intuitive graphic operation panel



VarioSurg Complete Set



Complete Set with LED Handpiece

Optic	MODEL	ORDER CODE
●	VSRG OPT	Y1001928

Contents

- Control Unit • LED Handpiece with 2 m cord
- FC-51 Foot Control
- 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 : AC 120V 50/60 Hz
- Irrigation Flow Rate : 9-90 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W 268 x D 230 x H 103 mm

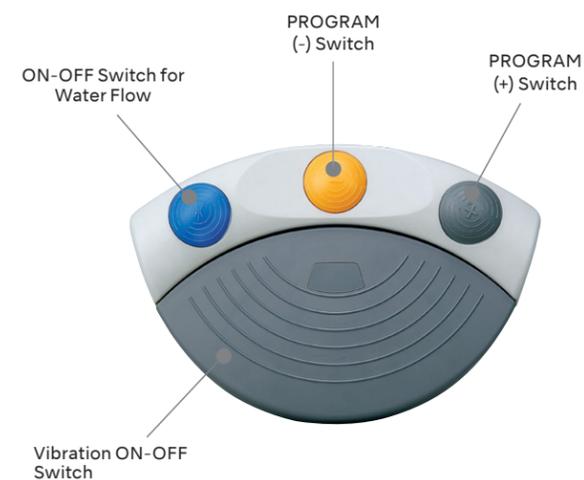
[Foot Control]

- 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	ORDER CODE
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FC-51	Z316001
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- With 2 m cord

Carrying Case (Optional)

The NSK Carrying Case can accommodate all VarioSurg components.



MODEL	ORDER CODE
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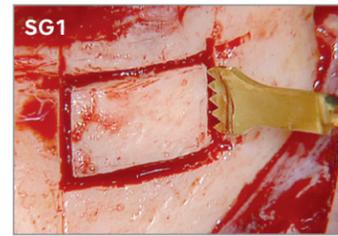
Carrying Case (VarioSurg)	Y1001907
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- Dimensions : W 534 x D 427 x H 207 mm

VarioSurg Tips

Bone Surgery (Oral Surgery)

MODEL	ORDER CODE
 SG1	Z305101
• TiN coated • Dots mark 3, 6 and 9 mm from top of tip • Five teeth, 0.6 mm thick	
 SG1A	Z305138
• TiN coated • Dots mark 3, 6, 9, 12 and 15 mm from top of tip • Five teeth, 0.6 mm thick	
 SG2R	Z305102
• TiN coated • Right curved tip* • Three teeth, 0.6 mm thick	
 SG2L	Z305103
• TiN coated • Left curved tip* • Three teeth, 0.6 mm thick	
 SG8	Z305109
• TiN coated • Dots mark 3, 6 and 9 mm from top of tip • Three teeth, 0.6 mm thick	
 SG8A	Z305139
• TiN coated • Dots mark 3, 6, 9, 12 and 15 mm from top of tip • Three teeth, 0.6 mm thick	
 SG14R	Z305122
• TiN coated • Right curved tip* • Five teeth, 0.6 mm thick	
 SG14L	Z305123
• TiN coated • Left curved tip* • Five teeth, 0.6 mm thick	
 SG19	Z305135
• TiN coated • Dot mark 3 mm from top of tip • Five teeth, 0.8 mm thick	



Unilateral anterior mandibular sampling



Excision of bone torus



Anterior mandibular harvesting



Mandibular harvesting at approach stage

Bone Surgery (Oral Surgery)

MODEL	ORDER CODE
 SG30	Z305137
• TiN coated • Sharp edge • 0.5 mm thick	
 SG58	Z305141
• Dots mark 3, 6 and 9 mm from top of tip • TiN coated • Three teeth, 0.6 mm thick	



The cutting part is bone torus

Scraper (Oral Surgery)

MODEL	ORDER CODE
 SG3	Z305104
• TiN coated • Triple sided edge spatula tip	
 SG4	Z305105
• TiN coated • Edge spatula tip	
 SG5	Z305106
• TiN coated • Rounded edge spatula tip	



Ostroplasties

Sinus Lift (Oral Surgery)

MODEL	ORDER CODE
 SG6D	A1013839
• Single use • Diamond coated	
 SG7D	A1013840
• Single use • Diamond coated	



Avulsion of wisdom teeth and impacted teeth



Sinus graft

VarioSurg Tips

Extraction (Oral Surgery)



MODEL	ORDER CODE
SG17	Z305132

- TiN coated • 0.7 mm thick



MODEL	ORDER CODE
SG18R	Z305133

- TiN coated • Left angled tip* • 0.7 mm thick



MODEL	ORDER CODE
SG18L	Z305134

- TiN coated • Left angled tip* • 0.7 mm thick



Extraction

Implant Preparation (Oral Surgery)



MODEL	ORDER CODE
SG15A	A1013841

- Single use • Diamond coated • Diameter of the tip end; 0.7 mm



MODEL	ORDER CODE
SG15B	A1013842

- Single use • Diamond coated • Diameter of the tip end; 1.3 mm



MODEL	ORDER CODE
SG15C	A1013843

- Single use • Diamond coated • Diameter of the tip end; 0.9 mm



MODEL	ORDER CODE
SG15D	A1013844

- Single use • Diamond coated • Diameter of the tip end; 1.3 mm



MODEL	ORDER CODE
SG16A	A1013845

- Single use • Diamond coated • Diameter; 2.0 mm

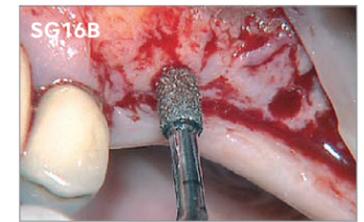


MODEL	ORDER CODE
SG16B	A1013846

- Single use • Diamond coated • Diameter; 2.6 mm



Conical preparations for implant osteotomies



Implant preparation

Sinus Membrane Detachment (Oral Surgery)



MODEL	ORDER CODE
SG9	Z305110

- Flat circular convex elevator • Angled at 90°



MODEL	ORDER CODE
SG10	Z305111

- Flat circular convex elevator • Angled at 135°



MODEL	ORDER CODE
SG11	Z305112

- Cone compressor



Sinus membrane



Sinus graft

VarioSurg Tips

Socket Lift (Oral Surgery)



MODEL	ORDER CODE
SCL1	Z305170



MODEL	ORDER CODE
SCL1D	A1013851

• Single use • Diamond coated



MODEL	ORDER CODE
SCL2D	A1013852

• Single use • Diamond coated



MODEL	ORDER CODE
SCL3	Z305172



MODEL	ORDER CODE
SCL3D	A1013853

• Single use • Diamond coated



MODEL	ORDER CODE
SCL4D	A1013854

• Single use • Diamond coated



MODEL	ORDER CODE
SCL5	Z305174



MODEL	ORDER CODE
SCL5D	A1013855

• Single use • Diamond coated

Scaling



MODEL	ORDER CODE
G1-S	Z305113

Perio (Root Planing)



MODEL	ORDER CODE
P20-S	Z305114

• Straight tip



MODEL	ORDER CODE
P25R-S	Z305115

• Right curved tip*



MODEL	ORDER CODE
P25L-S	Z305116

• Left curved tip*

Maintenance (V-Tip)



MODEL	ORDER CODE
V10-S	Z305117

• Includes E-Tip replacement wrench
• Plastic tip is not included

MODEL	ORDER CODE
V-P10	Y900184

• Pack of 3
• V10 holder is not included

VarioSurg Tips

Retrograde Endo (Retrograde Preparation of Root Canals)



MODEL	ORDER CODE
E30RD-S	A1013847

- Single use • Diamond coated
- For posterior teeth (right angled)



MODEL	ORDER CODE
E30LD-S	A1013848

- Single use • Diamond coated
- For posterior teeth (left angled)



MODEL	ORDER CODE
E31D-S	A1013849

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



MODEL	ORDER CODE
E32D-S	A1013850

- Single use • Diamond coated
- For anterior teeth (90°)

Tip Kits



MODEL	ORDER CODE
Basic-S Kit	A1013862

Contents

- Single use : SG6D, SG7D • Reusable : SG1, SG3, SG5, SG11
- Tip holder
- 1 pc. each



MODEL	ORDER CODE
Bone Cut Kit	A1013865

Contents

- Single use : SG6D • Reusable : SG1, SG2R, SG2L, SG4
- Tip holder
- 1 pc. each



MODEL	ORDER CODE
Sinus Lift Kit	A1013866

Contents

- Single use : SG6D • Reusable : SG1, SG3, SG9, SG10, SG11
- Tip holder
- 1 pc. each



MODEL	ORDER CODE
Endo-S Kit	A1013867

Contents

- Single use : E30RD-S, E30LD-S, E31D-S, E32D-S
- Reusable : G1-S • Tip holder
- 1 pc. each



MODEL	ORDER CODE
Implant Preparation Kit	A1013868

Contents

- Single use : SG15A, SG15B, SG16A, SG16B • Tip holder
- 1 pc. each



MODEL	ORDER CODE
Socket Lift Kit for Regular Size Implant	A1013870

Contents

- Single use : SCL1D, SCL2D • Reusable : SCL1 • Tip holder
- 1 pc. each
- For regular size implant



MODEL	ORDER CODE
Socket Lift Kit for Wide Size Implant	A1013872

Contents

- Single use : SCL2D, SCL3D, SCL4D • Reusable : SCL3 • Tip holder
- 1 pc. each
- For regular size implant

iSD900

Cordless Prosthodontic Screwdriver with Torque Calibration System (TCS)

NSK is introducing the iSD900 cordless screwdriver with Torque Calibration System (TCS) for prosthodontic screw fixing procedures. iSD900 will guarantee precise torque control due to the unique NSK torque calibration system which is extremely easy to use. The iSD900 will help to save time and allow precise risk-free tightening of screws. Clinicians can depend on iSD900 for safe and productive procedures.

High quality operation with excellent visibility

It has been too difficult to keep good visibility on retracting buccal mucosa with current ratchet wrenches which need both hands. iSD900 allows you to keep good visibility and perform higher quality operations.



iSD900: Deliver wider operation view and field through the one hand operation.



Ratchet Wrench: Blind to the operation view and field by the hands and fingers.



Ergonomic Extension On/Off Switch Lever

The iSD900 features a removable extension on/off switch lever to allow clinicians to operate the instrument easily. The extension lever is fully autoclavable to meet cross infection control requirements.

Torque Calibration System (TCS)

Precise torque from 10 to 40 Ncm in 1 or 5 Ncm increments can be easily set and delivered. The TCS allows for easy calibration within seconds and guarantees precise torque and gives peace of mind.

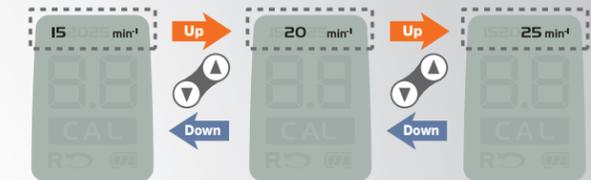


Calibration Mode



3 Selectable Speed Setting for Various Procedures

The iSD900 offers 15 min⁻¹, 20 min⁻¹, and 25 min⁻¹ speeds according to procedure requirements.



User-friendly LCD Digital Display

The LCD digital display shows torque, speed, reverse rotation, battery condition and calibration mode settings. The display is clear and very easy to use.

- Reverse Rotation Key
- Calibration Key
- Up / Down Key
To adjust the set value for torque and speed



Torque : 35 Ncm
Speed : 25 min⁻¹



Reverse Rotation

Complete Set

MODEL	ORDER CODE
iSD900	Y1001357

Contents

- iSD900 Motor
- ISD-HP, Quick Charger for iSD900
- Torque Calibrator
- On/Off Switch Lever

Specifications

- Torque: 10 – 40 Ncm in 1 or 5 Ncm increments
- Speed: 15, 20, 25 min⁻¹
- Weight: 148 g (iSD900 Motor + ISD-HP)
- Charging Time: Around 90 min*
- Continuous Operation Time: Max 72 min*

*these may change according to the usage environment.



Torque Calibrator

Spare Parts

Surgic Pro

MODEL	PRODUCTS	ORDER CODE
SGL70M Optic Micromotor (with 2 m Cord)		E1023
SG70M Non-Optic Micromotor (with 2 m Cord)		E1025
Tube Holder		E295105
Handpiece Stand		Z1029201

MODEL	PRODUCTS	ORDER CODE
Irrigation Tube (Pack of 10)		Y900114
Coolant Solution Hanger Post		U370152
Handle Set		Z1027001
Power Cord		U371550

MODEL	PRODUCTS	ORDER CODE
Tube Holder		Y900083
Protection Plug		10001595
Calibration Bur		Z1057101

iSD900

MODEL	PRODUCTS	ORDER CODE
Quick Charger for iSD900		U1070001
Power Cord		U438550

MODEL	PRODUCTS	ORDER CODE
Torque Calibrator		Z1056001
Calibration Bur		Z1057101

MODEL	PRODUCTS	ORDER CODE
On/Off Switch Lever		Z1070001
Ni-MH Rechargeable Battery (Pack of 2)		Y900103

* Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride). Never attempt to use a non rechargeable battery.

Surgical Handpieces

MODEL	PRODUCTS	ORDER CODE
Internal Spray Nozzle		10000324
Nozzle Holder For X-SG20L		20000396
Nozzle Holder For SG20		20000357

MODEL	PRODUCTS	ORDER CODE
Y-Connector		C823752
Cleaning Wire		20000512
Calibration Bur		Z1057101

MODEL	PRODUCTS	ORDER CODE
NOZZLE CENTRAL WATER INJECTION for SGM		C293025
IRRIGATION TUBE CLAMP for SGM		C202750
NOZZLE EXTERNAL WATER for SGM		Z111853

Surgery Handpieces

MODEL	PRODUCTS	ORDER CODE
Spray Nozzle For SGS, SGA		H263018

VarioSurg

MODEL	PRODUCTS	ORDER CODE
VS-LED-HPSC LED Handpiece (with 2 m Cord)		E1084
E Tip Replacement Wrench For V10-S		Z217399
CR-40 VS Tip Wrench For SG1A, SG8A, Socket Lift Tip		Z305350
CR-30 Tip Wrench		10000977

MODEL	PRODUCTS	ORDER CODE
Tips Holder		20001327
Handpiece Stand		Z1029201
Irrigation Tube (Pack of 10)		Y900114
Coolant Solution Hanger Post		U564152

MODEL	PRODUCTS	ORDER CODE
Tube Holder (Pack of 7)		Y900767
Power Cord		U371550

Manufacturer

NAKANISHI INC. www.nsk-dental.com
700 Shimohinata, Kanuma, Tochigi 322-8666, Japan

NSK America Corp. www.nskdental.com
1800 GlobalParkway, Hoffman Estates, IL 60192, USA

Specifications are subject to change without notice.