

# Surgic Pro2 × VarioSurg 3



### SYNERGY IN IMPLANTOLOGY

Link 2 Systems

#### Surgic Pro2 and VarioSurg 3 Generating Synergies Through Link Function

The Link function allows operation between the Surgic Pro2 oral surgery and implant micromotor system and the VarioSurg 3 ultrasonic bone surgery system using a single foot control. A common interface controls each system, allowing synergy in diverse surgical procedures and greatly streamlining treatment. Each system is available separately and is easily linked as required, making the system expandable and very affordable.



#### Link Function Easily Connects Two Systems

The Link function is easy to set up. Just connect the Surgic Pro2 and VarioSurg 3 units with the link cable. The two systems can be installed together using the compact Link Stand.



Link Stand2

With the NSK link stand the two units can be safely stacked to save space.



#### Hands-free Program Adjustments Via Foot Control

The two systems can be operated using the single foot control which offers hands-free operation of functions such as ultrasonic wave ON/OFF, forward and reverse selection, coolant flow selection and program

selection.



#### Large and Clear Display for Enhanced Safety

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

# Surgic Pro2



#### GO BEYOND

The internationally acclaimed Surgic Pro surgical micromotor system has evolved into "Surgic Pro2". There are 3 progress points, in operation, safety and wireless extensibility.

As well as further improving the basic performance of Surgic Pro,

its supreme adaptability in connecting to various external devices offers improved safety, efficiency and operator comfort during treatment.

Professionals depend on the reliability of their equipment on a daily basis. With Surgic Pro2 NSK have taken reliability to the next level.

#### **3** Progress Points

OPERABILITY	SAFETY	WIRELESS EXTENSIBILITY
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#### OPERABILITY

There are a range of upgrades to ensure even greater comfort during implant treatment. These specifications put the needs of professionals first.



#### Improved operability A more compact new motor.

Significant size and weight reductions were achieved for the motor with NSK's proprietary micro-motor technology. Operability during treatment has been greatly improved by moving the center of gravity closer to the head of the handpiece. This increases efficiency and alleviates the stress during prolonged operation for strain-free, effortless operation.

### Length 24.9% DOWN

Weight 9.1% DOWN



## Superb visibility and operability Large color LCD panel

Visibility is guaranteed with the large, back-lit, high-contrast, LCD panel. The display can be adjusted in 10 brightness levels. The display's intuitive and easy-to-understand icons allow for smooth operation.

#### Easy-clean flat screen display

The sensitivity of the touch panel can be adjusted to reliably respond when surgical gloves and surgical barrier sheets are in use. Ultra narrow bezel of the display makes cleaning easier. The new design takes into account the latest treatment and cross-infection control requirements.

## Visibility is significantly improved with the high-resolution color LED.

Use of high-resolution color LED allows blood and gums to be seen as if naturally-lit, thereby providing increased visibility during treatment. The LED light source generates a minimal amount of heat and has excellent life expectancy.



High color rendering LED S

LED Standard White LED

B

#### Silent and Smooth Irrigation Pump

The irrigation pump provides consistent and steady flow operating quietly in the background. Irrigation tube set-up is simple and straight-forward and the pump fits seamlessly in the compact and elegant design of Surgic Pro2.



### SAFETY

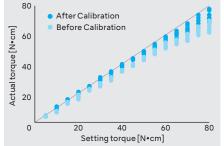
Synonymous with Surgic Pro safer procedures are made possible with increased torque precision combined with the "Osseointegration Monitoring Device, Osseo 100+".



## NSK's Drive for Accuracy Ensure Safe Treatment through Accurate Torque Correction

The displayed torque value accuracy is dependent on the state of handpiece bearings and gear abrasion. Surgic Pro2 torque calibration allows for this to be taken into account to display more accurate values.

NSK's 'Advanced Handpiece Calibration' (AHC) function corrects the differences in actual handpiece condition using automatic calibration with no load current and loadbearing calibration to achieve accurate torque values for succesful implant surgery.



Minimizing the discrepancy between the set torque value and the actual output helps improve treatment outcomes.

#### The Osseointegration Monitoring Device, Osseo 100+ for more predictable treatment

Osseo 100+ measures implant stability and osseointegration to enhance decisions about when to load. Especially important when using protocols with shorter treatment time and treating risk patients.

By connecting with the Surgic Pro2 it is possible to share and manage the measured ISQ value on external terminals. Contactless ISQ value measurement. There is no additional impact on the implant or abutment.

#### WIRELESS EXTENSIBILITY

Wireless connection with multiple devices significantly broadens the scope of implant treatment.



#### Linked with Osseointegration Monitoring Device, Osseo 100+

The Osseointegration Monitoring Device,"Osseo 100+" measures the implant stability quotient contactlessly and can be connected using Bluetooth®, permitting ISQ confirmation over a shared interface. You can share and manage the data of those measured ISQ scores on other terminals through Surgic Pro2.Surgic Pro2 itself offers such high extensibility as like this ISQ function is already equipped inside. It only takes 3 easy steps to use the Osseo 100+.



#### Linked with the "VarioSurg 3" ultrasonic bone surgery system

Surgic Pro2 can easily be linked with the NSK ultrasonic surgical system VariosSurg 3 by adding our bluetooth link module.



#### Linked with iPads

Installing a dedicated application and connecting an iPad to the control unit enables real-time display of detailed procedural data, such as the rotation speed and the torque range. Procedural data can also be saved. Data can also be displayed and saved when connecting with Osseo 100+. Traceability data management of procedural details allows implant treatment to be tailored to individual patients.



#### Linked with a wireless foot control

Bluetooth connectivity allows selection of the optimal position without worrying about cable length. The foot controller is 400g lighter than the previous model (hangar included) making it easy to reposition. You can keep your focus on the treatment. The "Coolant Solution Flow Volume Button", "Program Button" and "Forward/Reverse Button" may be customized using the 3 installed buttons allowing the operator to choose their preferred mode of operation. The energy-efficient power supply uses 3 AAA batteries, which last about 6 months.

A flashing light indicates when the batteries are running low.



SURGICAL

## Surgic Pro2



### Complete Set with X-SG20L

#### Complete Set with SG20

Surgic Pro2 NON-OPT Y1004196

ORDER CODE

Optic	MODEL	ORDER CODE	Optic	MODEL	ORDER C
•	Surgic Pro2 OPT	Y1004195	-	Surgic Pro2 NON-OPT	Y100419
Conter	nts		Conter	nts	
• Contro	ol Unit		Contro	ol Unit	
• SGL80	OM Optic Micromotor		• SG801	M Non-Optic Micromotor	
• X-SG2	0L Optic Handpiece (20:1 F	Reduction)	• SG20	Handpiece (20:1 Reduction)	
• FOOT	FOOT CONTROL WIRELESS		<ul> <li>FOOT CONTROL WIRELESS</li> </ul>		
<ul> <li>Irrigation tube (Pack of 3) and other accessories</li> </ul>		<ul> <li>Irrigation tube (Pack of 3) and other accessories</li> </ul>		ccessories	

#### Specifications :

Control Unit with AHC	Micromotor	FOOT CONTROL WIRELESS
<ul> <li>Power Supply: AC 100-240V 50/60 Hz</li> </ul>	Torque: 5-80 Ncm	· Foot Control Functions: Coolant Solution
Max. Pump Output: 75 mL/min	<ul> <li>Motor Speed: 200-40,000 min<sup>-1</sup></li> </ul>	Flow Volume Button, PRG(Program)
Programs: 8 Programs / Implant Systems	Light Power: over 32,000 LUX (Optic	Button, Forward/Reverse Button, Speed
• Dimensions: W 245×D 235×H 90 (mm)	Micromotor)	Control Pedal

### OPTION

### Wireless Link Tools

(Surgic Pro2 x VarioSurg 3) Connecting via the compact Wireless Link Set allows

for operation of 2 surgical systems with a single wireless foot control.

• Link Box

iCart Duo

carts.

MODEL iCart Duo

The Surgic Pro2 and VarioSurg 3 surgical systems and their

accessories are efficiently and

functionally housed in specialist



MODEL	ORDER CODE

Link Module Z1402001



Link Stand2 Z1452001

### Osseo 100+

(implant Stability Measurement System)

The implant stability level can be set, facilitating safer implant treatment. Manufacturer

Integration Diagnostics Sweden AB



Osseo 100+ Y1004176

#### Sterilization Cassette

The sterilization Cassette is designed for the safe processing and storage of Surgic Pro2 components.

• Dimensions : W 279x D 183x H 34 (mm)



	SG-CASE	S900040
_	MODEL	ORDER CODE

#### Carrying Case for Surgic Pro2 Carrying case for componets and accessories of Surgic Pro2 • Dimensions :

S9090	Carrying Case	Y1004219
ORDER CODE	MODEL	ORDER CODE
8	W 534 x D 427 x H 207 (mm)	

SURGICAL

# Surgic Pro+ × VarioSurg 3



## SYNERGY IN IMPLANTOLOGY

Two linked surgical systems that use a single foot control. A brand new approach to implant and surgical treatment.

#### Link 2 Systems

### Surgic Pro and VarioSurg 3 Generating Synergies Through Link Function

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Link Function Easily Connects Two Systems

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#### Hands-free Program Adjustments Via Foot Control

The two systems can be operated using the single foot control which offers hands-free operation of functions such as ultrasonic wave ON/OFF, forward and reverse selection, coolant flow selection and program selection.



#### Large and Clear Display for Enhanced Safety

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





# Surgic Pro+

#### The Professional Choice

NSK offers advanced technology to greatly enhance clinical performance. Surgic Pro is compact, lightweight and powerful to reliably deliver everything that professionals demand.

#### Calibration

NSK's Drive for Accuracy Ensures Safe Treatment Through Accurate Torque Correction



#### Maintaining Accurate Torque with AHC

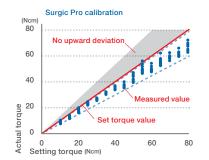
NSK's proprietary Advanced Handpiece Calibration (AHC) ensures the correct torque value required for specific treatments.

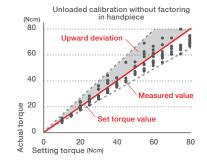
There is normally a small misalignment between pre-set and actual torque values owing to friction between bearings and contra-angle gear. AHC corrects this misalignment to guarantee accurate torque values.

#### **High-precision Calibration**

Unloaded, loaded and speed level adjustments improve the precision of calibration, which can be according to handpiece usage.

#### NSK's Safe Calibration Approach Factors in Handpiece Usage Conditions





#### An Advanced Surgical Motor for Demanding Clinical Environments

NSK developed the Surgic Pro SGL70M by analyzing feedback from clinicians to ensure that this 5th generation surgical micromotor satisfies professional requirements. The light and compact Surgic Pro SGL70M features an LED light for high visibility, with up to 80 Ncm of torque for diverse surgical procedures, paving the way for an advanced treatment environment.

#### Compact Body and Large LCD Display

The compact control unit features a sophisticated design including a large, high visibility backlight LCD panel and intuitive control buttons to contribute a safer and user friendly working environment.





SGL50M / 98.1 mm, 322 g\*

\*Including motor cord

#### Well-balanced, with a Compact and Lightweight Micromotor

Streamlining efforts reduced the size by 16.2 mm and the weight by 42 g to improve balance during use the Surgic Pro motor, greatly reducing any strain on clinicians.

#### LED Optics for Safer, More Accurate Treatment

NSK LEDs generate natural daylight-quality light to illuminate the treatment area, enabling more precise surgery and shortened operation times. The lights increase safety because they do not overheat and are long-lasting.





Optic	MODEL	ORDER CODE
•	SGL70M	E1023
-	SG70M	E1025
Solid titaniu     with Cord 2	,	

#### Advanced Irrigation Pump

The pump allows easy set-up of irrigation tubes and is extremely quiet during operation.



#### Memorises Eight Different Implant Systems

The Surgic Pro memorises eight different implant systems and a total of 64 programs. The programmable parameters are gear ratio, speed, rotation direction, torque limit, coolant solution volume and illumination intensity. This is extremely useful when using two or more implant brands. Once you complete programming, simply push a button to call procedures up.

#### Data Log Function

The Surgic Pro's data log function can record and store speed, torque values, and other patient treatment data. Such efficient data management helps ensure safe clinical practices. \*Maximum internal memory capacity is 100 minutes

#### Data Management

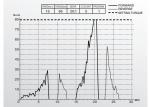
Treatment data can be easily accessed and downloaded using a USB stick. Files can be transferred and added to patient records.



\*USB memory stick not included.

#### Easy Treatment Data Handling

No specific software is required to display CSV or bitmap files. \*File formats : csv or bmp





SURGICAL

## Surgic Pro+



#### Surgic Pro+ Complete Set with X-DSG20L Optic Handpiece

#### Surgic Pro Complete Set w

•	Surgic Pro + OPT-D	Y1003585
Optic	MODEL	ORDER CODE

#### 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

#### Surgic Pro Complete Set with SG20 Handpiece

Optic	MODEL	ORDER CODE

#### Surgic Pro NON-OPT Y1003587

#### 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

#### Specifications

#### Control Unit with AHC

<ul> <li>Power Supply</li> </ul>	: AC 230 V 50/6	50 Hz	
• Max. Pump O	utput	: 75 mL/min	
<ul> <li>Programs</li> </ul>	: 8 Programs /	Implant Systems	
<ul> <li>Dimensions</li> </ul>	: W 265 x D 22	0 x H 100 (mm)	

#### Micromotor

· 5-80 Ncm Torque Motor Speed : 200-40,000 min<sup>-1</sup> · Light Power (LED Micromotor) : over 32,000 LUX

#### Foot Control

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

•		0L Optic	Handpiece
Ontic	мор	EI	ORDER COI

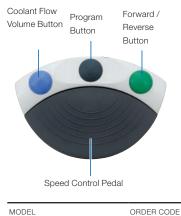
•	Surgic Pro OPT	Y1003586

#### 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

#### Foot 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/Surgic Pro+ is certificated according to IPX8.



#### Handle Set (Optional)

Easy to attach foot control handle. Hanger can easily be moved with the foot control.



	Handle Set	Z1027001
E	MODEL	ORDER CODE

• With 2 m cord

FC-78

N

#### Optional

#### **Carrying Case**

The NSK Carrying Case can accommodate all Surgic Pro components as well as the optional sterilization cassette



Z1102001

10DEL ORDER CODE
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Carrying Cas	e (Surgic Pro)	Y1001952

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

iCart Duo

Install the control unit and accessories on the cart.



S9090

ORDER CODE

• Dimensions : H 101.65 cm

• Weight : 16.5 kg

MODEL

iCart Duo

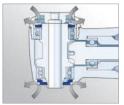
#### Dismantlable Contra-angle Handling up to 80 Ncm of Torque





#### Easy to Disassemble and Clean

The DSG20 contra-angle can be disassembled with a simple twist for easy internal cleaning. NSK's unique locking mechanism prevents accidental disassembly during operation.



#### **Double Sealing System**

NSK's unique double sealing system prevents blood and other contaminants from entering the instrument head to ensure longevity of the instruments.

#### Ti-Max X-DSG20L







- · Cellular Glass Optics
- Push Button Chuck
- · External and internal cooling
- (Kirschner and Meyer)
- Double Sealing System
- Max. Torque : 80 Ncm
- Max. Speed : 2,000 min-1



#### Ti-Max X-DSG20Lh

#### Dismantling Surgical Handpiece Hexagon Chucking System



Hexagon Chucking System Hexagon chucking system maintains high bur holding power at a high torque, enabling safe and stable operation. Can be used with regular burs as well.

- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics 
   Push Button Chuck · External and internal cooling
- (Kirschner and Meyer)
- Double Sealing System
- Max. Torque : 80 Ncm
- Max, Speed : 2,000 min





	Optic	MODEL	ORDER CODE
20:1 Reduction	٠	X-DSG20Lh	C1076
	-	X-DSG20h	C1075

201

Washable in the thermodisinfector

#### Ti-Max X-SG20L



- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics
- Push Button Chuck
- External and internal cooling (Kirschner and Meyer)
- Double Sealing System
- Max. Torque : 80 Ncm
- Max. Speed : 2,000 min

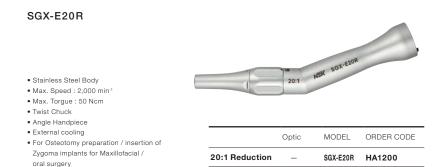




• This handpiece is used only for the NSK Surgical Unit with torque calibration. (eg. Surgic Pro series)



nano Series instruments are compatible with NSK motor line up (NLX nano, NLX plus, M40LED, NBX, NBX N, X205L, M205LG and SGL70M micromotors) and other motors with insert less than 23 mm.







SON Up to 80 Ncm

#### Ti-Max X-SG93L



Triple Spray

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



	Optic	MODEL	ORDER CODE
1.2 Increasing	•	X-SG93L	C1004
1:3 Increasing	_	X-SG93	C1007

#### Ti-Max X-SG65L





- · Titanium Body with Scratch Resistant
- DURACOAT
- For HP burs (ø2.35) • Cellular Glass Optics (X-SG65L)
- Clean Head System
- External cooling
- Max. Speed : 40,000 min-1

	Optic	MODEL	ORDER CODE
1:1 Direct Drive	•	X-SG65L	H1009
1:1 Direct Drive	-	X-SG65	H1038

1:3

1:3 Increasing

Optic

•

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NSK Ti-Max Z-SG45L

ORDER CODE

C1107

C1108

MODEL

Z-SG45L

Z-SG45

#### Ti-Max X-SG25L

- · Titanium Body with Scratch Resistant DURACOAT
- For CA burs (ø2.35)
- Cellular Glass Optics
- Clean Head System
- Push Button Chuck
- External cooling

204

• Max. Speed : 40.000 min-1



#### Ti-Max Z-SG45L





- · Titanium Body with Scratch Resistant
- DURAGRIP
- Cellular Glass Optics (Z-SG45L) Ceramic Bearings
- Clean Head System
- Push Button Chuck
- External cooling
- For FG burs (ø1.6 / 20-25 mm)
- Anti Heat System
- DLC Coating
- Max. Speed : 120,000 min-1

#### SGM-ER20i



- · External and internal cooling (Kirschner and Meyer)
- with Wrench for handpiece attachment
- Max. Speed : 2,000 min-1

20:1 Reduction	SGM-ER20i	Y110127
	MODEL	ORDER CODE

## **Micro Surgery Handpieces**

#### Straight Handpieces





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

• For surgical burs (ø2.35)

 Twist chuck • Max. Speed : 80,000 min-1

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



MODEL

SGS-E2S

ORDER CODE

H266

H265

Autoclavable up to 135°C

SGMS-ER20i With Depth Indicator



2 types of Depth Indicators are available. Both are easy to attach and detach for smooth operation.



MODEL

20:1 Reduction SGMS-ER20i

- · External and internal cooling
- (Kirschner and Meyer) • with two Depth Indicators,
- Wrench for handpiece attachment. Ruler
- Max. Speed : 2.000 min-1

20° Angle Handpieces		sources	
<ul><li>For surgical burs (ø2.35)</li><li>Twist chuck</li></ul>		MODEL	ORDER CODE
• Max. Speed : 40,000 min <sup>-1</sup>	1:1 Direct Drive	SGA-ES	H263

1: 2 Increasing



1:2 Increasing

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



SGA-E2S

ORDER CODE

Y110147



## **Micro Saw Handpieces**



• 1.8 mm Reciprocating • With External Spray Nozzle



MODEL ORDER CODE 3.2:1 Reduction SGR2-E SH162





 17° Oscillating • With External Spray Nozzle



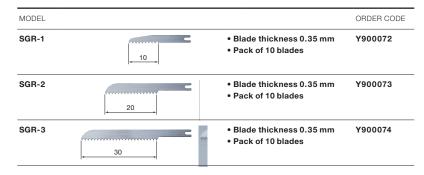


SGT2-E

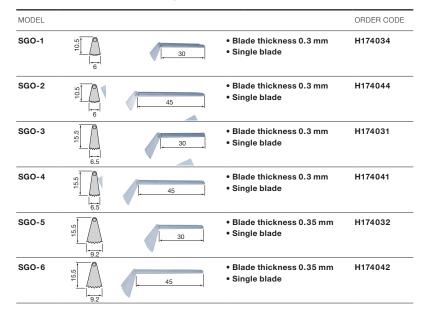
 3° Sagittal • With External Spray Nozzle



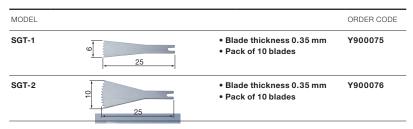
#### SGR2-E Blades for Reciprocating



#### SGO2-E Blades for Oscillating



#### SGT2-E Blades for Sagittal



# Osseo 100+



#### **Removes Doubt**

Osseo 100 measures implant stability and osseointegration to support decision on when to load an implant.

Especially important when working with shorter treatment time or managing risk patients.

The uncomplicated procedure that measures ISQ allows the implant loading period to be planned in advance. The reconstruction of crowns and bridges can be monitored to optimize timing to decrease the risk for failures. Measurements can be made without unnecessary impact since the equipment does not come into physical contact with the implant or abutment.

## Wireless connection with Surgic Pro2 Osseo 100+

#### Connectivity with Surgic Pro2

The ISQ value is transferred automatically when connected with Surgic Pro2. The Bluetooth<sup>®</sup> connection means that clinical procedures will be undisturbed.



#### Wireless data management

The measured ISQ can be shared and processed with data on external terminals via Surgic Pro2.

## Stand-alone Osseo 100

By mounting a MulTipeg<sup>™</sup> the measurement is made in a second. A numerical result appears on an LED screen and that indicates how well the implant has integrated.



#### SURGICAL

#### 3-step procedure

- 1. The MulTipeg<sup>™</sup> is attached to the implant. It screws effortlessly into the implant's internal threads. (approximately 6-8 Ncm of torque).
- 2. Just aim for the magnet on top of the MulTipeg<sup>TM</sup>. Non-invasive, objective, accurate and repeatable. The peg is excited by magnetic pulses and vibrates due to the stiffness in the contact area between the bone and the implant surface.
- 3. An ISQ value is generated and shown on the display. This reflects the level of stability on the universal ISQ scale - from 1 to 99. The higher the ISQ value, the more stable the implant.



#### About ISQ

\*The below is not a clinical recommendation from NSK.

Decreasing micro mobility with increasing ISQ values.

By taking a baseline value at implant placement and another before loading, the degree of osseointegration can be measured.



1 . Sennerby L Prof., Implantologie 2013; 21(1): 21-23

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- 3 . M Bornstein, C Hart, S Halbritter, D Morton, D Buser, Prof. Dr. med. dent. Clin Implant Dent Relat Res 2009
- 4 . Serge Baltayan, Joan Pi-Anfruns, Tara Aghaloo, Peter Moy. J Oral Maxillofac Surg 74:1145-1152, 2016
- 5. P O Östman, Private practitioner, Falun- and Biomaterial Group, Sahlgrenska Academy Gothenburg. Clinical Implant Dentistry and Related Research, Volume 7, Supplement 1, 2015
- 6 . Daniel Rodrigo, Luis Aracil, Conchita Martin, Mariano Sanz. Clin. Oral Impl. Res. 21, 2010; 255-261
- 7. Pagliani L, Sennerby L, Petersson A, Verrocchi D, Volpe S & Andersson P. Journal of Oral Rehabilitation 2012
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- 9. S Hicklin, E Schneebeli, V Chappuis, S Francesco, M Janner, D Buser, U Brägger. Clin. Oral Impl. Res. 00, 2015; 1-9
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#### **REUTILIZABLE MulTipeg™**

- · For all major implant systems\*
- Tissue friendly, durable titanium
- Autoclavable appx. 20 times

Please refer to the updated list from the supplier.

- Optimal platform fit
- ISQ Standard Calibrated
- \*There are different MulTipegs™ available made to fit different implant system and types.



ORDER CODE

Y1004176

Y1004175

Wireless connection with Surgic Pro2 Osseo 100+

#### Contents

- Osseo 100+ Instrument
- MulTipeg Driver
- Mains adapter and plugs

MulTipeg<sup>™</sup> is not included, sold separately.

Stand-alone Osseo 100

#### Contents

- Osseo 100 Instrument
- MulTipeg Driver

Mains adapter and plugs

MulTipeg<sup>™</sup> is not included, sold separately.

#### Specifications

• Power input : 5VDC, 1 VA • Charger input : 100-240 VAC, 5 VA • Instrument weight : 100 g

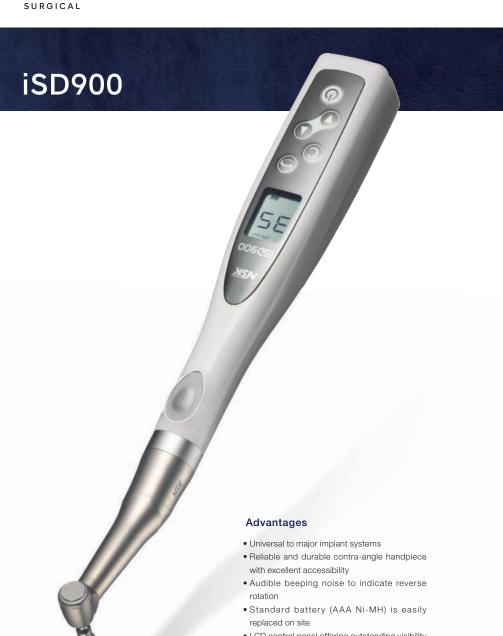
MODEL

Osseo 100+

Osseo 100

• Battery full charge time : appx. 3 hours.\* • Battery continuous drive time : appx. 1 hour.\*

\*Varies depending on usage situations.



LCD control panel offering outstanding visibility
 and operability

#### Faster and Safer Implant Treatments

NSK's iSD900 cordless screwdriver helps to safely place and remove cover screws, healing caps and abutments during dental implant procedures, making treatment up to 50% faster.



#### **Faster Treatment**

NSK's iSD900 cordless screwdriver safely inserts and removes cover screws, healing caps and abutments during implant procedures, making treatment up to 50% faster.



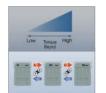
#### Accommodating Diverse Operative Fields

It can be difficult to maintain good visibility of the operating field when retracting the buccal mucosa when using a conventional ratchet wrench with both hands. The iSD900 allows single-handed operations to ensure better visibility across the whole operating field.



#### Torque Calibration System to Guarantee Safety

The unique torque calibration system (TCS) of the iSD900 ensures accurate torque values at all times.



## Torque Range Accommodating Diverse Procedures and Three Rotation Speeds

NSK's iSD900 has a torque range of 10 Ncm to 40 Ncm to ensure precise torque adjustments and settings in 1 Ncm or 5 Ncm increments according to procedures. The iSD900 offers 15 min<sup>-1</sup>, 20 min<sup>-1</sup>, and 25 min<sup>-1</sup> speeds according to procedure requirements.

### iSD900 Complete Set

MODEL	ORDER CODE
iSD900	Y1001358
• iSD900 Motor • iSD-HP • Quick Charger for iSD900 • Torque Calibrator • On/Off Switch Lever	
Specifications • Torque: 10 – 40 Ncm in 1 or • Speed: 15, 20, 25 min <sup>-1</sup> • Weight: 148 g (SD900 Motoi • Charging Time : Around 90 r • Continuous Operation Time	r + iSD-HP) nin*

214

Torque Calibrator

# VarioSurg 3



### Trinity

#### Out Standing Ultrasonic Performance

Wattage is not the only factor determining cutting efficiency and performance in ultrasonic surgery. What is important is the power factor between three elements: control unit frequency, handpiece vibration characteristics and tip design for handling high power and cutting efficiency. The VarioSurg 3 effortlessly balances these three elements for the ultimate in ultrasonic performance.



#### Stabilizing the Power Balance for More Efficient Procedures

The VarioSurg 3 offers a 50% increase in power in SURG mode compared to previous models, for more effective procedures and shorter treatment times.

(Select tips according to clinical and power requirements) \*For more than 100% power, you must use the relevant tips.



#### Stable Cutting Through Feedback and Auto-tuning Functions

#### Feedback function

This function constantly checks the performance parameters of the ultrasonic unit during operation. It simultaneously controls power output to optimize the level of power depending on the procedure.

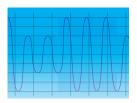
#### Auto-Tuning function

The oscillating frequency is automatically controlled to ensure the set output values are always accurately delivered at the tip to maintain ideal vibration.

#### **Control Unit**

#### Compact Body and Large LCD Panel

The compact control unit features a sophisticated design including a large, high visibility backlight LCD panel and intuitive control buttons to contribute to a safe and user-friendly working environment.



#### Advanced BURST Mode

Switching from SURG mode to BURST mode during procedures creates a hammer drill effect capable of cutting through the hardest of tissues. Select from one of three BURST mode levels according to the procedure or density or hardness of the bone.



#### Illumination Intensity Adjustable LED Light

LED handpiece illumination can be adjusted at the push of a button, with a choice of three intensity levels to suit the procedure.

#### -MODE (P) ((E)) (IS)

#### Three Modes

There is a choice of P (PERIO), E (ENDO) and S (SURG) modes to cover a wide range of applications, from bone cutting to post-surgical maintenance.

#### Adjustable Irrigation Flow Rate

You can choose from five coolant flow levels with a maximum output of up to 75 mL per minute, to suit operating requirements and tips. Effective irrigation protects bone cells by controlling tip heat.

#### Memory Functions for Treatment Procedures and Program Setting

Specific treatment parameters can be stored using the unit's memory function, and are easily accessed using the program button.

### Handpiece

#### Super-slim Ergonomic Handpieces

NSK's super-slim LED handpiece offers superior access and outstanding visibility. Excellent balance and ergonomic design facilitate the most accurate procedures and minimise hand and finger fatigue, especially during long procedures.

#### Effective Power Transmission with Minimal Heat Generation

By using innovative materials, the VarioSurg 3 handpiece delivers appropriate power from the generator to the tip without loss while minimising heat generation.

#### LED Illumination for More Precise Treatments

NSK LEDs generate natural daylight-quality light to perfectly illuminate the treatment area, enabling more precise treatments and shortening treatment times. LEDs are safe and do not overheat, even during extended use, and are economical due to their long life. Proprietary twin LED lights eliminate shadows in the treatment area, allowing excellent visibility.





•	VS3-LED-HPSC	E1133
Optic	MODEL	ORDER CODE

The tips are designed to preserve tissue, maintain cutting speed and easily cut into bone. Saw like teeth on an uneven blade edge enhances bone cutting. This also reduces clogging to maintain cutting speed.



SURGICAL



### VarioSurg 3 Complete Set

Optic	MODEL	ORDER CODE	Optic	MODEL
•	VarioSurg 3	Y1002726	٠	VarioSu
Content	S		Content	
• Contre	ol Unit		<ul> <li>Control</li> </ul>	
<ul> <li>LED Handpiece with 2 m cord</li> </ul>			• LED H	landpiece v
FC-78 Foot Control		<ul> <li>Steriliz</li> </ul>	zation Cass	
			• Hondr	sione Stand

- 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 : AC 230 V 50/60 Hz • Irrigation Flow Rate : 10-75 mL/min

• Programs : SURG x 5, ENDO x 2, PERIO x 2 • Dimensions : W 265 x D 220 x H 100 (mm)

### VarioSurg 3 Complete Set without Foot Control

Optic	MODEL	ORDER CODE
•	VarioSurg 3 Non FT	Y1002248
Content	s	
• Contro	ol Unit	
<ul> <li>LED Handpiece with 2 m cord</li> </ul>		
Steriliz	zation Cassette	
• Handp	piece Stand	
• Irrigoti	ion tubo (E pool) and other a	

 Irrigation tube (5 pcs.) and other accessories • Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

#### Foot Control

#### Hands-Free Program Adjustments Via Foot Control

The VarioSurg 3 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.



#### Sterilization Cassette

The Sterilization Cassette is designed for the safe processing and storage of VarioSurg 3 components.





111	MODEL	
11/1/1	VA-SG-CAS	
	• Dimensions : '	

	MODEL
111	VA-SG-CASE
	• Dimensions : W 281 x

• Dimensions : W 281 x D 171.5 x H 47 (mm)	
· Has dedicated compartments for handpiece,	cord, tip
replacement wrench and tip holders	135°c 111

ORDER CODE

Z313102

#### Carrying Case (Optional)

The Carrying Case neatly stores all VarioSurg 3 components.



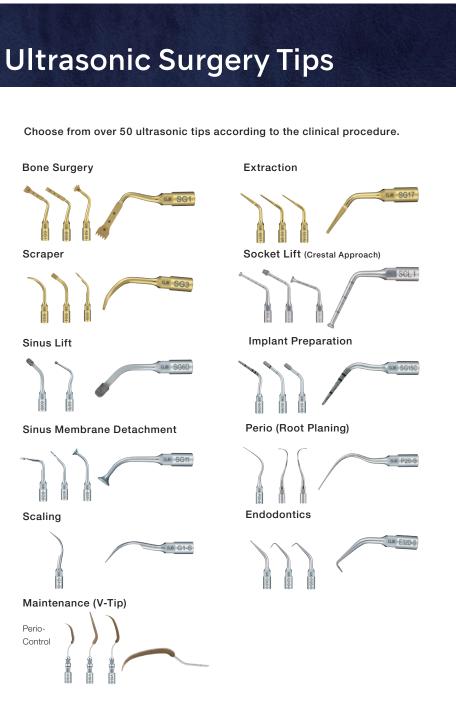
MODEL	ORDER CODE

Carrying Case(VarioSurg 3) Y1002768

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

Washable in the thermodisinfector

Autoclavable up to 135°C



#### Bone Surgery (TIN coating)

•		POWER LEVEL	MODEL	ORDER CODE
•	as SG1	-	SG1	Z305101
		SURG 150%	H-SG1	Z305151
•		Dots mark 3, 6 and     Five teeth; 0.6 mm	I 9 mm from top of tip thick	
	- as SGIA	POWER LEVEL	MODEL	ORDER CODE
		-	SG1A	Z305138
		<ul> <li>Dots mark 3, 6, 9,1</li> <li>Five teeth; 0.6 mm</li> </ul>	12 and 15 mm from to thick	p of tip
0	as SG2R	POWER LEVEL	MODEL	ORDER CODE
		-	SG2R	Z305102
		<ul> <li>Right curved tip*</li> <li>Three teeth; 0.6 million</li> </ul>	m thick	
•	000	POWER LEVEL	MODEL	ORDER CODE
Ţ.	as SG2L	_	SG2L	Z305103
	, ,	Left curved tip*     Three teeth; 0.6 mi	m thick	
0	CAR SG8	POWER LEVEL	MODEL	ORDER CODE
		-	SG8	Z305109
		SURG 150%	H-SG8	Z305155
		Dots mark 3, 6 and     Three teeth; 0.6 mi	I 9 mm from top of tip m thick	
0	- as SG8A	POWER LEVEL	MODEL	ORDER CODE
		-	SG8A	Z305139
		<ul> <li>Dots mark 3, 6, 9,1</li> <li>Three teeth; 0.6 minute</li> </ul>	I2 and 15 mm from to m thick	p of tip
•		POWER LEVEL	MODEL	ORDER CODE
7	ATEX HISOBR S	SURG 150%	H-SG8R	Z305156
-			d 4 mm from top of tip Three teeth; 0.6 mm	
		POWER LEVEL	MODEL	ORDER CODE
T	NEX HOOK 8	SURG 150%	H-SG8L	Z305157
-			d 4 mm from top of tij Three teeth; 0.6 mm tl	

Autoclavable up to 135°C

₩ashable in the thermodisinfector 223

### Bone Surgery (TIN coating)



	ORDER CODE
	Z305122
l tip* .6 mm thick	
	ORDER CODE
	Z305123
tip* .6 mm thick	
	ORDER CODE
	Z305135
nm from top of tip .8 mm thick	
	ORDER CODE
	Z305137
k	
	ORDER CODE
	Z305141
, 6 and 9 mm from top of tip 0.6 mm thick	
	ORDER CODE

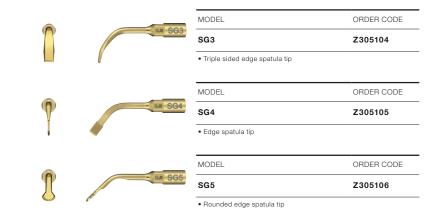
Z305143

Autoclavable up to 135°C

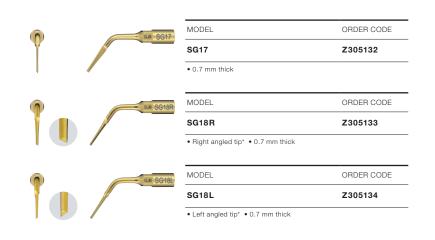
Washable in the

thermodisinfector

Scraper (TIN coating)



#### Extraction (TIN coating)



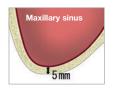
## Specialty Tips Exclusively for Sockets

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

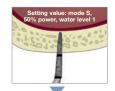
#### Process example for elevation of maxillary sinus membrane

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

#### At the case of using VarioSurg



\*A case of around 5 mm 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.



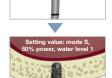
 Bone cutting to within 1 mm to the base of maxillary antrum by using SG15A tip.Please be careful not to push the tip too much.



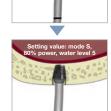
Repeat bone cutting using SG15B tip to increase width.
 Please be careful not to push the tip too much.



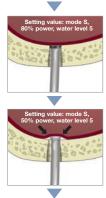
 Bone cutting by using SG16A tip. The implant preparation site is formed until little of the base of cortical bone remains.



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



- Using sufficent water irrigation, the implant 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.



- 6. Using sufficent water irrigation, the implant 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.

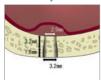
Slowly insert the top of the tip between the membrane and bone. Moving the tip along the wall of the implant preparation site will exfoliate the membrane. Please be careful, since the membrane can be torn at the edge (arrow part) between the bone and the membrane.



This image shows the elevated membrane which you will see from the maxillary antrum side. Please check the condition of maxillary antrum membrane using the endoscope.

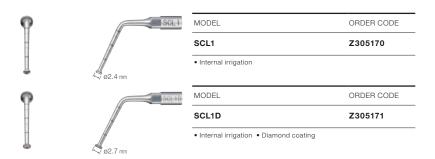


8. The Maxillary antrum membrane can now be elevated by using SCL1 tip.



9. The completed formation of the implant preparation site. At the case of using drilling, the straight implant preparation site of 3.2 mm is formed.

#### Socket Lift (Crestal Approach)



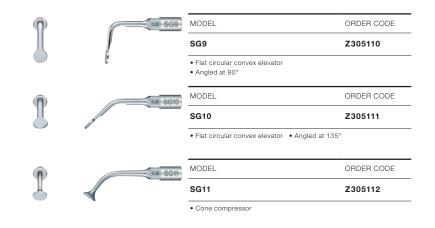
#### Socket Lift (Crestal Approach)

MODEL       ORDER CODE         SCL2D       Z305182         - Internal irrigation       - Diamond coating         MODEL       ORDER CODE         SCL3       Z305172         - Internal irrigation       - Internal irrigation         - 03.0 mm       MODEL       ORDER CODE         SCL3       Z305172       - Internal irrigation         - Internal irrigation       - Internal irrigation       - Internal irrigation         - 03.4 mm       - Diamond coating       - Internal irrigation         - 03.4 mm       - Internal irrigation       - Internal irrigation         - 04.0 mm       - ORDER CODE       SCL3D         - 04.0 mm       - Internal irrigation       - Internal irrigation         - 04.0 mm       - ORDER CODE       SCL5         - 04.0 mm       MODEL       ORDER CODE         SCL5       Z305174       - Internal irrigation         - Internal irrigation       - Internal irrigation       - ORDER CODE         SCL5       Z305175       - Internal irrigation       - Internal irrigation         - 04.3 mm       - ORDER CODE       SCL5D       Z305175				
<ul> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL3</li> <li>Z305172</li> <li>Internal irrigation</li> <li>MDEL</li> <li>ORDER CODE</li> <li>SCL3D</li> <li>Z305173</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL3D</li> <li>Z305173</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL3D</li> <li>Z305173</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL4D</li> <li>Z305184</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL5</li> <li>Z305174</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL5</li> <li>Z305174</li> <li>Internal irrigation</li> <li>Diamond coating</li> <li>MODEL</li> <li>ORDER CODE</li> <li>SCL5D</li> <li>Z305175</li> <li>Internal irrigation</li> <li>Diamond coating</li> </ul>	<b>O</b>	ISE BAD	MODEL	ORDER CODE
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Image: solution of solu			SCL3	Z305172
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	Ĭ.		SCL3D	Z305173
SCL4D Z305184 - Internal irrigation - Diamond coating MODEL ORDER CODE SCL5 Z305174 - Internal irrigation MODEL ORDER CODE SCL5 Z305175 - Internal irrigation - Diamond coating		Ø3.4 mm		
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ORDER CODE     ORDER CODE     SOL5     Z305174     Internal irrigation     ORDER CODE     SCL5D     Z305175     Internal irrigation     ORDER CODE     SCL5D     Z305175			SCL4D	Z305184
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Internal irrigation     ORDER CODE     SCL5D     Z305175     Internal irrigation     Diamond coating	0		MODEL	ORDER CODE
MODEL ORDER CODE SCL5D Z305175  Internal irrigation Diamond coating			SCL5	Z305174
MODEL ORDER CODE SCL5D Z305175 • Internal irrigation • Diamond coating	L	94.0 mm	Internal irrigation	
SCL5D Z305175 • Internal irrigation • Diamond coating	0		MODEL	ORDER CODE
Diamond coating	Ĭ		SCL5D	Z305175
	ł	04.3 mm		

2 mm 2 mm 2 mm 3 mm 5 mm The estimated depth of the implant preparation site can be measured with the scale on the Tip. Sinus Lift



#### Sinus Membrane Detachment



SURGICAL

Autoclavable up to 135°C

#### Implant Preparation

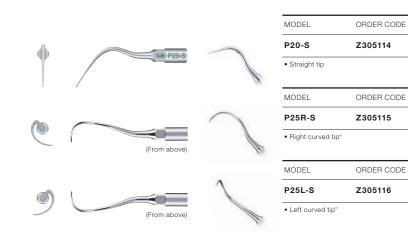
	0.8 SG15A	MODEL	ORDER CODE
T		SG15A	Z305124
V		Diameter of the tip end; 0.7 mm	
A	a.8 SG158	MODEL	ORDER CODE
		SG15B	Z305125
8		Diameter of the tip end; 1.3 mm	
	a.e. SG150	MODEL	ORDER CODE
		SG15C	Z305126
		Diameter of the tip end; 0.9 mm	
A	0.8) SG15D	MODEL	ORDER CODE
1 I		SG15D	Z305127
	/	Diameter of the tip end; 1.3 mm	
0	- a.s. SG16A	MODEL	ORDER CODE
		SG16A	Z305128
8		• Diameter; 2.0 mm	
	0.8 SG168	MODEL	ORDER CODE
		SG16B	Z305129
<b>1</b>		• Diameter; 2.6 mm	

### Scaling



## MODEL ORDER CODE G1-S Z305113

#### Perio (Root Planing)



230

#### SURGICAL

#### Maintenance (V-Tip)

#### Perio-Control



MODEL	ORDER CODE
V10-S	Z305117
Includes E-Tip replacement wrench     Plastic Tip is not included	

	MODEL
	V-P10
	<ul> <li>Pack of 3</li> <li>V10-S holder is not included</li> </ul>
	MODEL
	V-P12
	<ul> <li>Pack of 3</li> <li>V10-S holder is not included</li> </ul>

	(From above)





V-P11R	
0	ed type* • Pack of 3 der is not included
MODEL	
MODEL	

MODEL

Left curved type\* 
 Pack of 3
 V10-S holder is not included

Washable in the thermodisinfector

V-P11R, V-P11L, V-P12 can be used only for VarioSurg 3.

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE

Y1002166

Y1002167

Y900184

#### Endodontics



#### SURGICAL

#### Tip Kits



<ul> <li>Bone Surgery</li> </ul>	<ul> <li>Scraper</li> </ul>	<ul> <li>Sinus Lift</li> </ul>
<ul> <li>Sinus Membra</li> </ul>	ne Detach	ment

Basic H-S Kit	Y1002775
MODEL	ORDER CODE

#### Contents

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



Tip Kits

Implant Preparation

Implant Preparation Kit	Y900774
MODEL	ORDER CODE

#### Contents

- SG15A, SG15B, SG16A, SG16B
- Tip holder



Bone Cut Kit	Y900688
MODEL	ORDER CODE
Bone Surgery	

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



#### •Socket Lift Tips (Crestal Approach)

ORDER CODE	

Socket Lift Kit for Regular Size Implant Y1002841

#### Contents

MODEL

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



#### •Sinus Lift

Sinus Lift Kit	Y900689
MODEL	ORDER CODE

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



•Socket Lift Tips (Crestal Approach)

#### ORDER CODE

Socket Lift Kit for Wide Size Implant Y1002842

#### Contents

MODEL

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



Endo-S Kit	Y900691
MODEL	ORDER CODE
Endodontics	

Washable in the thermodisinfector

Autoclavable up to 135°C

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

