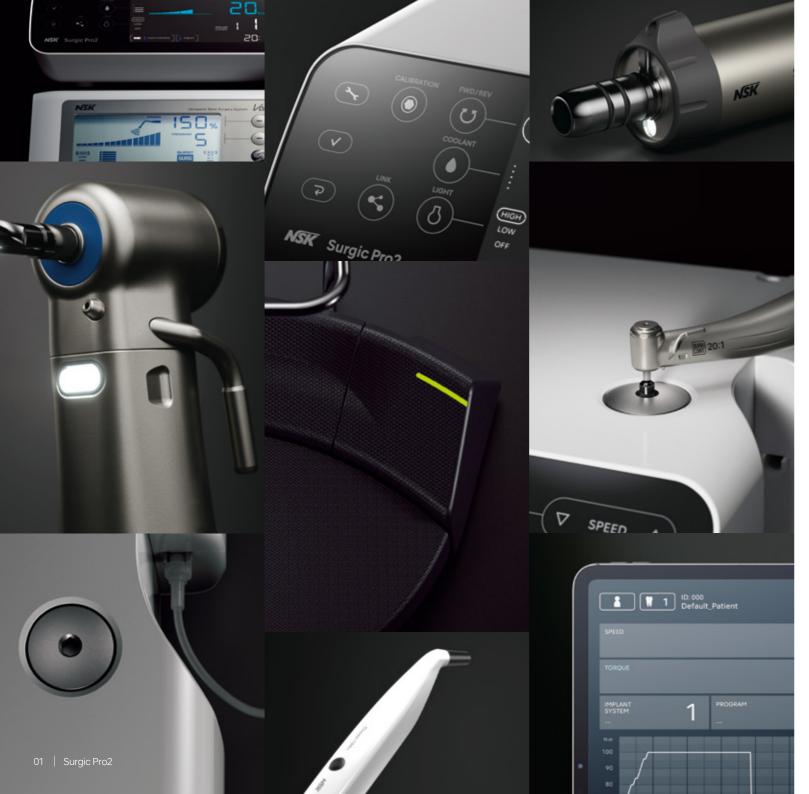
## Create it 🖌



www.nsk-dental.com REF PR-D1163EN v2 21.03.GLB



# Go beyond. Surgic Pro2

- 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



## WIRELESS EXTENSIBILITY

# OPERABILITY

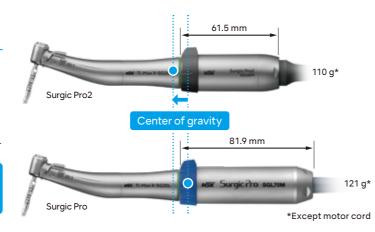
There are a range of upgrades to ensure even greater comfort during implant treatment. These specifications put the

#### 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.

9.1% DOWN

24.9% 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.

#### 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.









High color rendering LED



Standard White LED



## SAFETY

05 | Surgic Pro2

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

COAT 20:

# 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 load-bearing 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

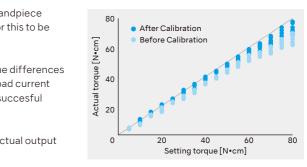
Osseo 100+ measures implant stability and osseointegration to enhance decisions about when to load. Especially important when using protocols with shorter treatment time and treating risk patients.

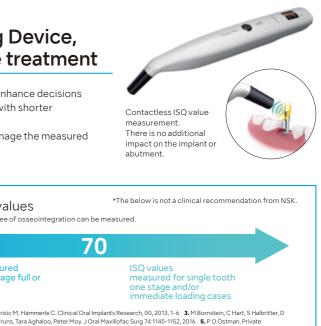
By connecting with the Surgic Pro2 it is possible to share and manage the measured ISQ value on external terminals.

\*The b 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

ISQ Value	60	
	More time required for implant osseo-integration Remeasure	ISQ values measured for one or two stage fu partial cases

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# 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<sup>®</sup>, 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+.





3-step procedure





- 1. The MulTipeg<sup>™</sup> is attached to the implant. It screws effortlessly into the implant's internal thread (approximately 6-8 Ncm of torque). 2. Just aim for the magnet on top of the MulTipeg. 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 both displays. This reflects the level of stability on the universal ISQ scale-from 0 to 99. The
  - higher the ISQ value, the more stable the implant.



## 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.

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



Link Stand 2

Link Module

# Two devices can be controlled<br/>with only one Foot Control.You can easily switch between Surgic Pro2 and<br/>VarioSurg 3 for improved flexibility and workflow.

#### 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.

Energy-Efficient
Design
(3 AAA batteries/
6 months)

A flashing light indicates when the batteries are low

Water-resistance and IPX8 compatibility





## LINE-UP

#### COMPLETE SET with X-SG20L

OPTIC MODEL : Surgic Pro2 OPT ORDER CODE : Y1004195 Contents : • Control Unit • SGL80M Optic Micromotor • X-SG20L Optic Handpiece (20:1 Reduction) • FOOT CONTROL WIRELESS • Irrigation tube (Pack of 3) and other accessories

#### **COMPLETE SET with SG20**

NON-OPTIC MODEL : Surgic Pro2 NON-OPT ORDER CODE : Y1004196

Contents :

Control Unit

Specifications

• Programs

Dimensions

Control Unit with AHC

• Max. Pump Output : 75 mL/min

Power Supply

: AC100-240V 50/60 Hz

: 8 Programs / Implant Systems

: W 245 × D 235 × H 90 mm

Micromotor

: 5-80 Ncm

• Motor Speed : 200-40,000 min<sup>-1</sup>

• Light Power : over 32,000 LUX

(Optic Micromotor)

Torque

SG80M Non-Optic Micromotor

SG20 Handpiece (20:1 Reduction)

FOOT CONTROL WIRELESS

Irrigation tube (Pack of 3) and other accessories

FOOT CONTROL WIRELESS • Foot Control Functions : Coolant Solution Flow Volume Button, PRG(Program) Button, Forward/Reverse Button, Speed Control Pedal 1

0

25



#### 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.

MODEL: Link Module ORDER CODE: Z1402001

● Link Box ● Link Cable



#### MODEL: Link Stand2 ORDER CODE: Z1452001



#### iCart Duo

The Surgic Pro2 and VarioSurg 3 surgical systems and their accessories are efficiently and functionally housed in specialist carts.

MODEL: iCart Duo ORDER CODE: \$9090



#### SPARE PARTS ·····



#### **Osseo 100+**(implant Stability Measurement System)

The implant stability level can be set, facilitating safer implant treatment. ISQ data can be recorded and saved by connecting to the Surgic Pro2.

#### MODEL : Osseo 100+ ORDER CODE : Y1004176

Manufacturer Integration Diagnostics Sweden AB



#### **Sterilization Cassette**

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

#### MODEL: SG-CASE ORDER CODE: S900040

Dimensions : W 279 x D 183 x H 34 mm



#### **Carrying Case for Surgic Pro2**

Carrying case for componets and accessories of Surgic Pro2

#### MODEL : Carrying Case ORDER CODE : Y1004219

Dimensions : W534 x D 427 x H 207 mm



## **RELATED PRODUCTS**

#### SURGICAL IMPLANT CONTRA-ANGLES

#### X-DSG20L(Dismantable Contra-Angle)

OPTIC MODEL : X-DSG20L ORDER CODE : C1068 NON-OPTIC MODEL: X-DSG20 ORDER CODE : C1067

● 20:1 Reduction ● Max. Torque : 80 Ncm ● Max. Speed : 2,000 min<sup>-1</sup> Titanium Body with Scratch Resistant DURACOAT ● Cellular Glass Optics (X-DSG20L) ● Double Sealing System Push Button Chuck External and internal cooling

#### X-SG20L

#### OPTIC MODEL: X-SG20L ORDER CODE: C1003

20:1 Reduction Max. Torque: 80 Ncm Max. Speed: 2.000 min<sup>-1</sup> Titanium Body with Scratch Resistant DURACOAT Cellular Glass Optics Double Sealing System Push Button Chuck External and internal cooling

#### **SG20**

#### NON-OPTIC MODEL: SG20 ORDER CODE: C1010

20:1 Reduction Max. Torque: 80 Ncm Max. Speed: 2,000 min<sup>-1</sup> Stainless Steel Body Double Sealing System Push Button Chuck External and internal cooling

#### SGX-E20R

#### NON-OPTIC MODEL : SGX-E20R ORDER CODE : HA1200

● 20:1 Reduction ● Max. Torque : 50 Ncm ● Max. Speed : 2,000 min<sup>-1</sup> ● Stainless Steel Body ● Angle Handpiece ● Twist Chuck ● External Cooling For Osteotomy preparation / insertion of Zygoma implants for Maxillofacial / oral surgery







Washable in thermodisinfector IЖI



(80N) Can be use up to 80 Ncm

#### SPEED INCREASING SURGICAL CONTRA-ANGLES

#### X-SG93L

OPTIC MODEL: X-SG93L ORDER CODE: C1004 NON-OPTIC MODEL: X-SG93 ORDER CODE: C1007

1:3 Increasing Max. Speed : 120,000 min<sup>-1</sup> Titanium Body with Scratch Resistant DURACOAT Cellular Glass Optics (X-SG93L) Clean Head System

Push Button Chuck External cooling For FG burs (ø1.6)

#### Z-SG45L



Titanium Body with Scratch Resistant DURAGRIP

Cellular Glass Optics (Z-SG45L) Clean Head System

Push Button Chuck External cooling For FG burs (ø1.6, 20-25 mm)

• Ceramic Bearings • Anti Heat System

#### X-SG25L

#### OPTIC MODEL: X-SG25L ORDER CODE: C1011

1:1 Direct Drive Max. Speed : 40,000 min<sup>-1</sup>

Titanium Body with Scratch Resistant DURACOAT

Cellular Glass Optics Clean Head System

Push Button Chuck External cooling For CA burs (ø2.35)

#### X-SG65L



● 1:1 Direct Drive ● Max, Speed : 40,000 min<sup>-1</sup> Titanium Body with Scratch Resistant DURACOAT Cellular Glass Optics (X-SG65L) Clean Head System ● External cooling ● For HP burs (ø2.35)

NAKANISHI INC. www.nsk-dental.com 700 Shimohinata, Kanuma, Tochigi 322-8666, Japan NSK Europe GmbH www.nsk-europe.de Elly-Beinhorn-Strasse 8, 65760 Eschborn, Germany



NSK United Kingdom Ltd. www.nsk-uk.com Office 4, Gateway 1000, Arlington Business Park Whittle Way, Stevenage, SG1 2FP, UK