Surgical micromotor system connecting you with the future.

Surgic Pro2

CREATE IT.
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 comfort, safety and efficiency for the operator during dental treatment. Professionals demand the reliability and sense of safety in clinical practice, and we have responded with our ‘next-generation performance’ technology.

3 Progress Points

OPERABILITY  SAFETY  WIRELESS EXTENSIBILITY
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 balance closer to the head of the handpiece. This increases efficiency and alleviates the stress of implant treatment.

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**Superb visibility and operability**

**Large 4-color LCD panel**

Visibility is assured 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 flowing implant treatment.

**Easy-clean flat screen display**

The sensitivity of the touch panel can be adjusted to 3 levels to enable it to respond when surgical gloves and surgical barrier sheets are in use. Ultra narrow bezel of the display allows for simpler cleaning after use, making hygiene easier. The design anticipates requirements both during treatment and post-surgery.

**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-ill, thereby providing increased visibility during dental surgery. Very little heat generation occurs ensuring safety over long usage periods and its long operating life also makes it economical.

**Silent and Smooth Irrigation Pump**

The new model irrigation pump provides smooth flowing irrigation and a greatly reduced noise level. The irrigation tube setup has become more straightforward and easier to use. Pump components that protruded from the main body have been combined to create a more cohesive and elegant design. The size of the main control unit has been reduced to save worktop space in the dental surgery.

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NSK’s proprietary torque calibration system is now even more precise

Implant motors usually have a discrepancy between the stated torque value and the actual output torque value, depending on the contra-angle bearing and gear abrasion. This difference in torque values must be corrected to perform safe implant treatment. This is torque calibration.

The previous model Surgic Pro used NSK’s own ‘Advanced Handpiece Calibration’ (AHC) function to correct differences in actual handpiece conditions using automatic calibration with no load current and load-bearing calibration to achieve the accurate torque values demanded in implant surgery.

The Surgic Pro2 fine-tunes NSK’s own AHC technology to achieve even more accurate torque calibration. The torque setting discrepancy is reduced a further 30% compared to the previous Surgic Pro model. Minimizing the discrepancy between the set torque value and actual output torque value improves safety during implant treatment.

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

Osseo100+ measure 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.

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**Decreasing micro mobility with increasing ISQ values**

<table>
<thead>
<tr>
<th>ISQ Value</th>
<th>More time required for implant osseo-integration</th>
<th>ISQ values measured for one or two stage full or partial cases</th>
<th>ISQ values measured for single tooth one stage and/or immediate loading cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*The below is not a clinical recommendation from NSK.

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Safeguarding Torque Accuracy Comparison

<table>
<thead>
<tr>
<th>Setting Torque</th>
<th>Torque Accuracy Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7% or less</td>
<td></td>
</tr>
</tbody>
</table>

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8. P Trisi Phd, T Carlesi DDS, M Colagiovanni DDS, G Perfetti MD, DDS. Journal of Osteology and Biomaterials, Volume 1, Number 3, 2010
WIRELESS EXTENSIBILITY

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

VarioSurg3

Foot Control

Surgic Pro2

iPads or external devices

Osseo 100+

Osseointegration Monitoring Device

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 at 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™ 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.

iPad is trademarks of Apple Inc.
Linked with the "VarioSurg3" ultrasonic bone surgery system

Even with the previous model, connection to the highly-rated surgery system VarioSurg3 simply requires installation of the Bluetooth connection module to enable wireless connection. If the dedicated link stand is used, two systems may be set up in a limited amount of space.

Linked with iPads or external devices

Installing a dedicated application and connecting an iPad or external devices 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 Össur100+. 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 700g 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", "PRG(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 100 days. A flashing light indicates when the batteries are running low.

Two devices can be controlled with only one Foot Control.

You can alternate between the Surgic Pro2 and VarioSurg3 surgical systems using one wireless foot control. More flexible implant procedures are possible even in a restricted space.
LINE-UP

COMPLETE SET with X-SG20L

**OPTION**

**MODEL** Surgic Pro2 OPT

**ORDER CODE** Y1004195

**Contents**
- Control Unit
- SGL80M LED Micromotor
- X-SG20L Optic Handpiece (20:1 Reduction)
- Wireless Foot Control
- Irrigating tube ( Epic ) and other accessories

**COMPLETE SET with SG20**

**OPTION**

**MODEL** Surgic Pro2 NON-OPT

**ORDER CODE** Y1004196

**Contents**
- Control Unit
- SG80M Non-Optic Micromotor
- SG20 Handpiece (20:1 Reduction)
- Wireless Foot Control
- Irrigating tube ( Epic ) and other accessories

**Specifications:**
- Control Unit with AHC
  - Power Supply: AC 100-240V 50/60 Hz
  - Max. Pump Output: 75 mL/min
  - Programs: 8 Programs / Implant Systems
  - Dimensions: W235 × D230 × H90 mm
- Micromotor
  - Torque: 5-80 Ncm
  - Motor Speed: 200~40,000 min⁻¹
  - Light Power: over 32,000 LUX ( LED Micromotor )
- Wireless Foot Control
  - Foot Control Functions:
    - Coolant Solution Flow Volume Button,
    - PRG ( Program ) Button,
    - Forward/Reverse Button,
    - Speed Control Pedal

OPTION

Wireless Link Tools (Surgic Pro2 & VarioSurg3)
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 Module: Link Cable

**MODEL** LINK STAND2

**ORDER CODE** Z1452001
- iCart Duo
  - The Surgic Pro2 and VarioSurg3 surgical systems and their accessories are efficiently and functionally housed in specialist carts.

**MODEL** iCart Duo

**ORDER CODE** S9090
- iCart Duo
  - Surgic Pro2 and VarioSurg3 surgical systems and their accessories are efficiently and functionally housed in specialist carts.

**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 Pro 2.

**MODEL** Osseo 100+

**ORDER CODE** Y1004176
- Dimensions: W281 x D171.5 x H47 mm

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

**MODEL** SG-CASE (Surgic Pro2)

**ORDER CODE** S900040
- Dimensions: W281 x D171.5 x H47 mm

**Carrying Case for Surgic Pro2**
Carrying case for components and accessories of Surgic Pro2

**MODEL** Carrying Case (Surgic Pro2)

**ORDER CODE** Y1004219
- Dimensions: W534 x D427 x H207 mm

**SPARE PARTS**
SURGICAL HANDPIECES IMPLANT

**X-DG20L (Dismantable Contra-Angle)**
- **Model:** X-DG20L
- **Order Code:** C1068
- **Max. Torque:** 80 Ncm
- **Max. Speed:** 2,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Double Sealing System**
- **Push Button Chuck**
- **External and internal cooling**

**X-SG20L**
- **Model:** X-SG20L
- **Order Code:** C1003
- **Max. Torque:** 80 Ncm
- **Max. Speed:** 2,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Push Button Chuck**
- **External and internal cooling**

**SG20**
- **Model:** S20
- **Order Code:** C1010
- **Max. Torque:** 80 Ncm
- **Max. Speed:** 2,000 min⁻¹
- **Stainless Steel Body**
- **Double Sealing System**
- **Push Button Chuck**
- **External and internal cooling**

**SURGICAL HANDPIECES CONTRA-ANGLE (INCREASING)**

**X-SG93L**
- **Model:** X-SG93L
- **Order Code:** C1004
- **Max. Speed:** 120,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Clean Head System**
- **Push Button Chuck**
- **External cooling**

**Z-SG45L**
- **Model:** Z-SG45L
- **Order Code:** C1107
- **Max. Speed:** 120,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Clean Head System**
- **Push Button Chuck**
- **External cooling**

**SURGICAL HANDPIECES CONTRA-ANGLE (DIRECT DRIVE)**

**X-SG25L**
- **Model:** X-SG25L
- **Order Code:** C1011
- **Max. Speed:** 40,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Clean Head System**
- **External cooling**

**X-SG65L**
- **Model:** X-SG65L
- **Order Code:** H1099
- **Max. Speed:** 40,000 min⁻¹
- **Titanium Body with Scratch Resistant DURACOAT**
- **Cellular Glass Optics**
- **Clean Head System**
- **External cooling**

**RELATED PRODUCTS**

NAXA INCO INC.  •  www.naxa-inc.com
705 Demonsville, Athens, Ohio 45701, USA

NEX Europe GmbH  •  www.nex-europe.de
Tubingen, Germany

NEX United Kingdom Ltd.  •  www.nex-uk.com
Cripps House, Cripps Road, Addlestone, Surrey, KT16 8HA, UK

Specifications are subject to change without notice.