

# Surgic Pro+

## Unlimited Accuracy

Extremely accurate speed and torque for maximum safety during operation.



### 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.

### 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.



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

The Link function allows operation between the Surgic Pro 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 Pro and VarioSurg 3 units with the link cable. The two systems can be installed together using the compact Link Stand.



### 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.





Surgic Pro+  
Complete Set with X-DSG20L

| Optic | MODEL             | ORDER CODE |
|-------|-------------------|------------|
| ●     | Surgic Pro+ OPT-D | Y1003585   |

- 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 X-SG20L

| Optic | MODEL          | ORDER CODE |
|-------|----------------|------------|
| ●     | 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

Surgic Pro  
Complete Set with SG20

| 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

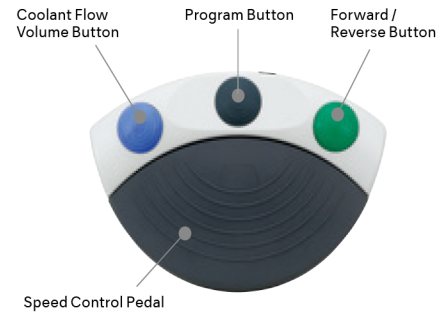
- [Control Unit with AHC]
- Power Supply : AC 230V 50/60 Hz
  - Max. Pump Output : 75 mL/min
  - Programs : 8 Programs / Implant Systems
  - Dimensions : W 265 x D 220 x H 100 mm
  - USB I/F : 1 Port (Surgic Pro+ Only)
  - Built in Memory : 100 min (Surgic Pro+ Only)

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

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

ACCESSORIES

Foot Control



| MODEL | ORDER CODE |
|-------|------------|
| FC-78 | Z1102001   |

- With 2 m cord

Handle Set (Optional Extra)

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



| MODEL      | ORDER CODE |
|------------|------------|
| Handle Set | Z1027001   |

Sterilization Cassette (Optional Extra)

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



| MODEL   | ORDER CODE |
|---------|------------|
| SG-CASE | S900040    |

- Dimensions : W 279 x D 183 x H 34 mm

Carrying Case (Optional Extra)

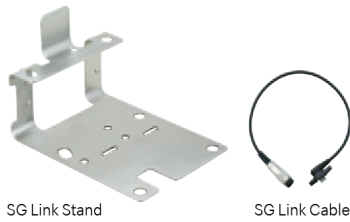
The NSK Carrying Case can accommodate all Surgic Pro components as well as the optional sterilization cassette.



| MODEL                      | ORDER CODE |
|----------------------------|------------|
| Carrying Case (Surgic Pro) | Y1001952   |

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

SG Link Set (Optional Extra)  
[Surgic Pro + VarioSurg 3]



| MODEL                   | ORDER CODE |
|-------------------------|------------|
| VarioSurg3 Link set (E) | Y1002729   |

- SG Link Stand • SG Link Cable

iCart Duo (Optional Extra)

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



| MODEL     | ORDER CODE |
|-----------|------------|
| iCart Duo | S9090      |

- Dimensions : H 101.65 cm • Weight : 16.5 kg



# Implant Handpieces

## Surgical Implant Contra-angles



| Dismantable Contra-angle |       |          |            |
|--------------------------|-------|----------|------------|
| Gear Ratio               | Optic | MODEL    | ORDER CODE |
| 20:1 Reduction           | ●     | X-DSG20L | C1068      |
| 20:1 Reduction           | —     | X-DSG20  | C1067      |

- 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



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

- 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



| Gear Ratio     | Optic | MODEL    | ORDER CODE |
|----------------|-------|----------|------------|
| 20:1 Reduction | ●     | X-SG20ML | CA13030001 |

- Max. Torque : 80 Ncm • Max. Speed : 2,000 min<sup>-1</sup>
  - Titanium Body with Scratch Resistant DURAGRIP
  - Cellular Glass Optics • Double Sealing System • Push Button Chuck
  - External and internal cooling
- \* Internal Spray Nozzle is sold separately



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

- 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



| Gear Ratio     | Optic | MODEL | ORDER CODE |
|----------------|-------|-------|------------|
| 20:1 Reduction | —     | SG20M | CA13020001 |

- 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
- \* Internal Spray Nozzle is sold separately

## Speed Increasing Surgical Contra-angles



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

- 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)



| Gear Ratio     | Optic | MODEL   | ORDER CODE |
|----------------|-------|---------|------------|
| 1:3 Increasing | ●     | Z-SG45L | C1107      |
| 1:3 Increasing | —     | Z-SG45  | C1108      |

- Max. Speed : 120,000 min<sup>-1</sup>
- 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

## Direct-Drive Surgical Handpieces



| Gear Ratio       | Optic | MODEL   | ORDER CODE |
|------------------|-------|---------|------------|
| 1:1 Direct Drive | ●     | X-SG25L | C1011      |

- 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)



| 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<sup>-1</sup>
- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics (X-SG65L) • Clean Head System
- External cooling • For HP burs (ø2.35)

# Implant Handpieces

## Zygomatic Implant Handpiece



| Gear Ratio     | Optic | MODEL    | ORDER CODE |
|----------------|-------|----------|------------|
| 20:1 Reduction | —     | SGX-E20R | HA1200     |

- 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

# Micro Surgery Handpieces



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

- Max. Speed : 40,000 min<sup>-1</sup> • Twist chuck • Straight Handpiece
- For surgical burs (ø2.35)



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

- Max. Speed : 80,000 min<sup>-1</sup> • Twist chuck • Straight Handpiece
- For surgical burs (ø2.35)



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

- Max. Speed : 40,000 min<sup>-1</sup> • Twist chuck • 20° Angle Handpiece
- For surgical burs (ø2.35)



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

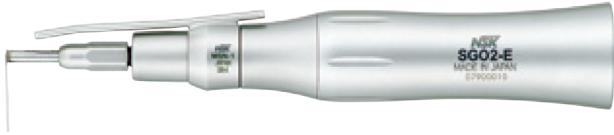
- Max. Speed : 80,000 min<sup>-1</sup> • Twist chuck • 20° Angle Handpiece
- For surgical burs (ø2.35)

# Micro Saw Handpieces



| Gear Ratio      | MODEL  | ORDER CODE |
|-----------------|--------|------------|
| 3.2:1 Reduction | SGR2-E | SH162      |

- 1.8 mm Reciprocating • With External Spray Nozzle



| Gear Ratio      | MODEL  | ORDER CODE |
|-----------------|--------|------------|
| 3.5:1 Reduction | SGO2-E | SH164      |

- 17° Oscillating • With External Spray Nozzle



| Gear Ratio      | MODEL  | ORDER CODE |
|-----------------|--------|------------|
| 3.2:1 Reduction | SGT2-E | SH163      |

- 3° Sagittal • With External Spray Nozzle

### Blades for Reciprocating

| MODEL                                         | ORDER CODE |
|-----------------------------------------------|------------|
| SGR-1                                         | Y900072    |
| • Blade thickness 0.35 mm • Pack of 10 blades |            |

|                                               |         |
|-----------------------------------------------|---------|
| SGR-2                                         | Y900073 |
| • Blade thickness 0.35 mm • Pack of 10 blades |         |

|                                               |         |
|-----------------------------------------------|---------|
| SGR-3                                         | Y900074 |
| • Blade thickness 0.35 mm • Pack of 10 blades |         |

### Blades for Sagittal

| MODEL                                         | ORDER CODE |
|-----------------------------------------------|------------|
| SGT-1                                         | Y900075    |
| • Blade thickness 0.35 mm • Pack of 10 blades |            |

|                                               |         |
|-----------------------------------------------|---------|
| SGT-2                                         | Y900076 |
| • Blade thickness 0.35 mm • Pack of 10 blades |         |



### Blades for Oscillating

| MODEL                                   | ORDER CODE |
|-----------------------------------------|------------|
| SGO-1                                   | H174034    |
| • Blade thickness 0.3 mm • Single blade |            |

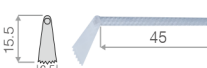
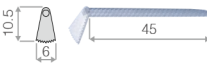
|                                         |         |
|-----------------------------------------|---------|
| SGO-2                                   | H174044 |
| • Blade thickness 0.3 mm • Single blade |         |

|                                         |         |
|-----------------------------------------|---------|
| SGO-3                                   | H174031 |
| • Blade thickness 0.3 mm • Single blade |         |

|                                         |         |
|-----------------------------------------|---------|
| SGO-4                                   | H174041 |
| • Blade thickness 0.3 mm • Single blade |         |

|                                          |         |
|------------------------------------------|---------|
| SGO-5                                    | H174032 |
| • Blade thickness 0.35 mm • Single blade |         |

|                                          |         |
|------------------------------------------|---------|
| SGO-6                                    | H174042 |
| • Blade thickness 0.35 mm • Single blade |         |



\*Blades are sold separately.

