



Oral Surgery



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Power, Safety & Accuracy,
No compromise

Powerful precision At your fingertips

Intuitive, powerful, safe & reliable

It takes only a very short time for users of the new NSK Surgic Pro to intuitively understand, and become confident with, the operation of this latest NSK Oral Surgery and implant micromotor system. NSK understands that minute focus, without distraction, is a prerequisite for fine Surgical and Implant procedures and so powerful precision, coupled with intuitive operation, were keys to the development brief.

NSK Surgic Pro is the 5th generation of NSK surgical micromotor systems. Since the creation of dental implantology 25 years ago, NSK has continued to develop new more advanced Specialist micromotors to meet the evolving needs of Specialist Clinicians. Designed and produced without compromise in terms of reliability, durability, torque accuracy and power availability, NSK Surgic Pro is a micromotor system that Specialist Clinicians can confidently and safely rely on.





Precision control for Today's specialist procedures

The NSK Surgic Pro is a compact, stylish and fully integrated system incorporating the unique NSK Advanced Handpiece Calibration (AHC). By individually calibrating each handpiece to the micromotor, AHC absolutely guarantees accurate speed and torque control, consistent with the real time performance exhibited on the LCD. The inbuilt availability of a wide range of speed and torque settings allows Clinicians to use Surgic Pro with any implant system brand. Maximum safety through all speed and torque settings is without compromise.

During operation the backlight LCD offers immediate recognition of all operating parameters. The control design logic, at both the system centre and the foot control, allows clinical focus to be maintained during complex procedures. A USB data storage system is available to record operational settings for storage and future reference.

NSK Surgic Pro is an irreplaceable Powerful Partner for Specialist Clinicians to achieve optimal results in Implant and Oral Surgery procedures.

Surgic Pro Micromotor **Optic** / **Non-Optic**

Brighter and Lighter – That's Clear Evolution
Surgic Pro micromotor with LED

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



Shorter and Lighter than the Conventional optic surgical micromotor

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



LED illumination helps the clinicians to focus more easily on the treatment area and contributes to precise surgery

- 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: **SGL70M** ORDER CODE: **E1023**
Non-Optic MODEL: **SG70M** ORDER CODE: **E1025**

- Solid titanium body
- with Cord 2m

Surgic Pro

The right choice for all professionals

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

Large Illuminated LCD

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

Adjustable Light Intensity

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



Control Unit with Advanced Handpiece Calibration (AHC) – High Torque Accuracy Guaranteed

Use NSK Surgic Pro AHC to calibrate the micromotor and the handpiece to the rotational resistance of each individual handpiece prior to operation. AHC guarantees extremely accurate speed and torque for maximum safety during operation.

Slim High Performance Pump

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



Surgic Pro Series can memorize 8 different Implant Systems

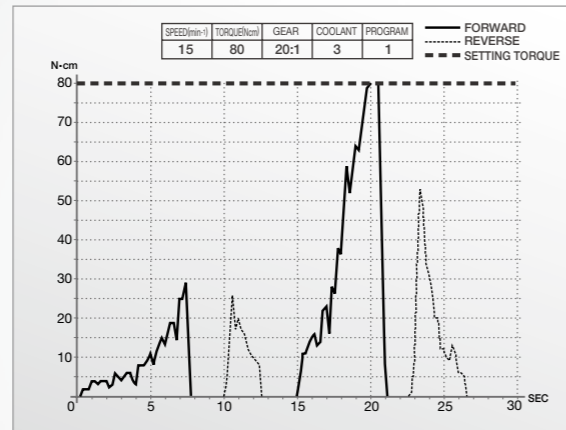
Within each System you can program 8 different settings. Please refer to implant manufacturers guidelines for recommended settings.

Surgic Pro⁺ with data storage facility

The data storage facility can record the following: date, speed, rotational direction, torque, gear ratio, irrigation solution flow setting. The total recording time is up to 100min and every recording captures date, time and duration of operation.

No Special Software Required

You do not need to install any specific software as the data can be displayed with general-use software which can display csv or bitmap files.



Data Accessibility

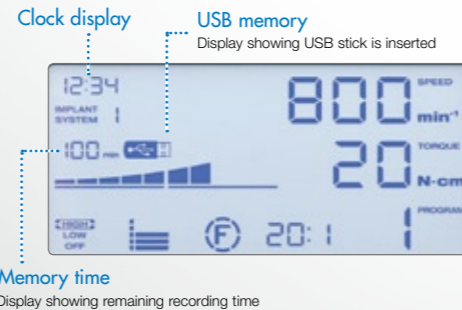
Treatment data can be accessed and downloaded using a USB memory stick.

*USB memory stick isn't included.



Display Permanently Showing Memory Status

LCD shows remaining capacity of the built-in memory and the status of USB Stick when inserted.



Surgic Pro⁺ Complete Sets **Optic** with data storage facility



X-DSG20L Optic Handpiece

Surgic Pro+ Complete Sets with X-DSG20L Optic Handpiece

Optic MODEL: **Surgic Pro+ OPT-D (120V)** ORDER CODE: **Y1002095**

Optic MODEL: **Surgic Pro+ OPT-D (230V)** ORDER CODE: **Y1002096**

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

Specifications

Control Unit with AHC

- Power Supply : AC120V or 230V 50/60 Hz
- Max. Pump Output : 75mL/min
- Programs : 8 Programs / Implant Systems
- Dimensions : W268 x D220 x H100 (mm)
- USB I/F : 1 port
- Built in Memory : 100min

Micromotor

- Torque : 5-80Ncm
- 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

Surgic Pro Complete Sets **Optic / Non-Optic**



X-SG20L Optic Handpiece

Surgic Pro Complete Sets with X-SG20L Optic Handpiece

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

Optic MODEL: **Surgic Pro OPT(230V)** ORDER CODE: **Y1001933**

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 Sets with SG20 Handpiece

Non-Optic MODEL: **Surgic Pro NON-OPT(120V)** ORDER CODE: **Y1001950**

Non-Optic MODEL: **Surgic Pro NON-OPT(230V)** ORDER CODE: **Y1001934**

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

<p>Control Unit with AHC</p> <ul style="list-style-type: none"> • Power Supply : AC120V or 230V 50/60 Hz • Max. Pump Output : 75mL/min • Programs : 8 Programs / Implant Systems • Dimensions : W265 x D220 x H100 (mm) 	<p>Micromotor</p> <ul style="list-style-type: none"> • Torque : 5-80Ncm • Motor Speed : 200~40,000 min⁻¹ • Light Power : over 32,000 LUX (LED Micromotor) 	<p>Foot Control</p> <ul style="list-style-type: none"> • Foot Control Functions : Program Button, Speed Control Pedal, Coolant Solution Flow Volume Button, Forward / Reverse Button
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Foot Control

Stay in control

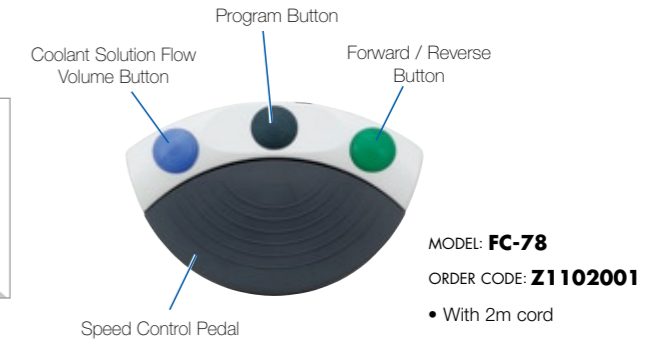
The Foot Control is user friendly and allows operation of all functions within the preset parameters without touching the control panel to avoid accidental activation of the micromotor outside the preset limits. The Surgic Pro/Surgic Pro+ is certificated according to IPX8.

Handle Set (Optional)

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

MODEL: **Handle Set**

ORDER CODE: **Z1027001**



MODEL: **FC-78**

ORDER CODE: **Z1102001**

- With 2m cord

Sterilization Cassette (Optional)

The NSK Surgic Sterilization Cassette can accommodate the micromotor with cable, straight and contra-angles handpieces ready for sterilization.



MODEL: **SG-CASE** ORDER CODE: **20001348**

- Dimensions : W281 x D171.5 x H47 (mm)

Carrying Case (Optional)

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



MODEL: **Carrying Case (Surgic Pro)** ORDER CODE: **Y1001952**

- Dimensions : W534 x D427 x H207 (mm)

High Torque Dismantling Surgical Contra-Angles 80Ncm

The Ti-Max X-DSG20L implant contra-angles offers extraordinary durability and reliability that specialist clinicians can completely rely on. X-DSG20L is easy to dismantle without any tools for easy cleaning and maintenance. Also it offers constant torque and maximal efficiency to transmit with very minimal loss and stands up to 80 Ncm torque without any problem.

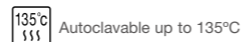
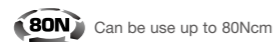
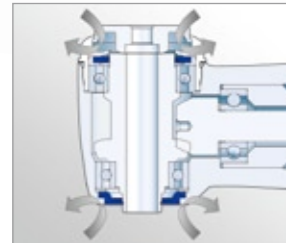
Easy to Disassemble Without Tool

The DSG20 contra-angle can be disassembled with a simple twist for easy internal cleaning. However, when attached to a motor, it will not disassemble accidentally due to NSK's unique locking mechanism.



Double Sealing System

NSK's original double sealing system reliably prevents blood and bodily fluids from entering the instrument head. This guarantees longevity of the instruments.



Ti-Max X-DSG20L

Dismantling Surgical Handpiece



Optic MODEL: **X-DSG20L** ORDER CODE: **C1068**

Non-Optic MODEL: **X-DSG20** ORDER CODE: **C1067**

- 20:1 Reduction**
- 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⁻¹

Ti-Max X-DSG20Lh

Dismantling Surgical Handpiece Hexagon Chucking System



Optic MODEL: **X-DSG20Lh** ORDER CODE: **C1076**

Non-Optic MODEL: **X-DSG20h** ORDER CODE: **C1075**

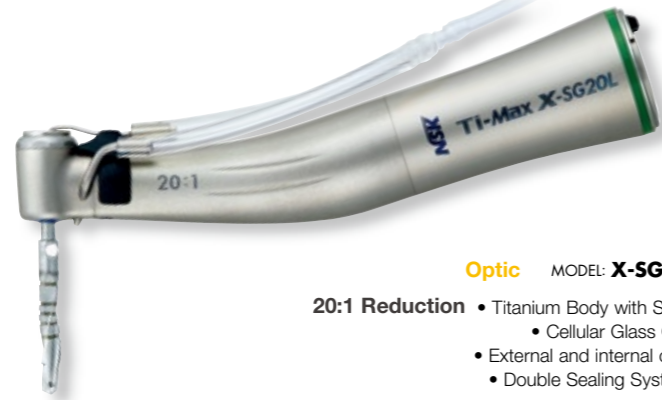
- 20:1 Reduction**
- Titanium Body with Scratch Resistant DURACOAT
 - Cellular Glass Optics
 - Push Button Chuck
 - External and internal cooling (Kirschner and Meyer)
 - Double Sealing System
 - Max. Torque : 80 Ncm
 - Max. Speed : 2,000 min⁻¹

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.

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

Ti-Max X-SG20L



Optic MODEL: **X-SG20L** ORDER CODE: **C1003**

- 20:1 Reduction**
- 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⁻¹


S-Max SG20



Non-Optic MODEL: **SG20** ORDER CODE: **C1010**

- 20:1 Reduction**
- Stainless Steel Body
 - Push Button Chuck
 - External and internal cooling (Kirschner and Meyer)
 - Double Sealing System
 - Max. Torque : 80 Ncm
 - Max. Speed : 2,000 min⁻¹

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

 Can be use up to 80Ncm

 Washable in the thermodisinfector

 Autoclavable up to 135°C

SGM Series



- 16 : 1** MODEL: **SGM-ER16i** ORDER CODE: **Y110126**
- 20 : 1** MODEL: **SGM-ER20i** ORDER CODE: **Y110127**
- 32 : 1** MODEL: **SGM-ER32i** ORDER CODE: **Y110128**

- Max. Speed : 2,500 min⁻¹ (16:1), 2,000 min⁻¹ (20:1), 1,250 min⁻¹ (32:1)
- External and internal cooling (Kirschner and Meyer)
- with Wrench for handpiece attachment

SGMS-ER20i With Depth Indicator



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



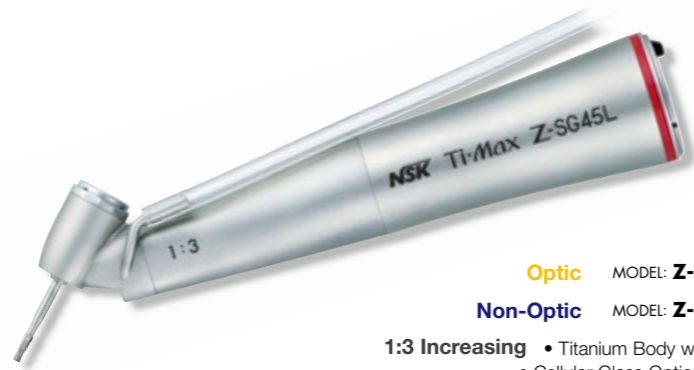
20 : 1 MODEL: **SGMS-ER20i** ORDER CODE: **Y110147**

- Max. Speed : 2,000 min⁻¹
- External and internal cooling (Kirschner and Meyer)
- with two Depth Indicators, Wrench for handpiece attachment, Ruler

Ti-Max Z-SG45L



Triple Water Jets



Optic MODEL: **Z-SG45L** ORDER CODE: **C1107**

Non-Optic MODEL: **Z-SG45** ORDER CODE: **C1108**

- 1:3 Increasing**
- Titanium Body with Scratch Resistant DURAGRIP
 - Cellular Glass Optics (Z-SG45L)
 - Ceramic Bearings
 - Clean Head System
 - Push Button Chuck
 - External cooling
 - Anti Heat System
 - DLC Coating
 - Max. Speed : 120,000 min⁻¹
 - For FG bur (20-25mm)

Ti-Max X-SG93L



Triple Spray



Optic MODEL: **X-SG93L** ORDER CODE: **C1004**

Non-Optic MODEL: **X-SG93** ORDER CODE: **C1007**

- 1:3 Increasing**
- Titanium Body with Scratch Resistant DURACOAT
 - Cellular Glass Optics (X-SG93L)
 - Clean Head System
 - Push Button Chuck
 - For FG burs (ø1.6)
 - External cooling
 - Max. Speed : 120,000 min⁻¹

45° head and Straight body, produce a high usability



Superior Accessibility

When treating molars Ti-Max Z-SG45 doesn't interfere with anterior teeth giving better visibility of and access to the treatment area.



Retention of stable rests

Holding the handpiece in a pen grip when operating in the anterior region makes it very convenient to use adjacent teeth as finger rests and using burs of up to 25mm makes this instrument ideal for splitting roots.



Improved Handling

A new coating technology, "DURAGRIP", was adopted for the surface of the titanium body. Not only does it show high-level durability, but it also provides a comfortable and safe non-slip grip regardless of what type of glove is being worn.

Ti-Max X-SG25L



Optic MODEL: **X-SG25L** ORDER CODE: **C1011**

- 1:1 Direct Drive**
- Titanium Body with Scratch Resistant DURACOAT
 - Cellular Glass Optics
 - Clean Head System
 - Push Button Chuck
 - For CA burs (ø2.35)
 - External cooling
 - Max. Speed : 40,000 min⁻¹



Washable in the thermosymbol



Autoclavable up to 135°C

Ti-Max X-SG65L

Straight Handpiece



Optic MODEL: **X-SG65L** ORDER CODE: **H1009**

Non-Optic MODEL: **X-SG65** ORDER CODE: **H1038**

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

Straight Handpieces



MODEL: **SGS-ES** ORDER CODE: **H264**

- 1:1 Direct Drive**
- For surgical burs (ø2.35)
 - Twist chuck
 - Max. Speed : 40,000 min⁻¹



MODEL: **SGS-E2S** ORDER CODE: **H266**

- 1: 2 Increasing**
- For surgical burs (ø2.35)
 - Twist chuck
 - Max. Speed : 80,000 min⁻¹

20° Angle Handpieces



MODEL: **SGA-ES** ORDER CODE: **H263**

- 1:1 Direct Drive**
- For surgical burs (ø2.35)
 - Twist chuck
 - Max. Speed : 40,000 min⁻¹



MODEL: **SGA-E2S** ORDER CODE: **H265**

- 1: 2 Increasing**
- For surgical burs (ø2.35)
 - Twist chuck
 - Max. Speed : 80,000 min⁻¹



Washable in the thermoisinfector



Autoclavable up to 135°C

Micro Saw Handpieces

1.8mm Reciprocating



MODEL: **SGR2-E** ORDER CODE: **SH162**

3:1 Reduction • With External Spray Nozzle
• Max : 12,600 strokes/min

17° Oscillating



MODEL: **SGO2-E** ORDER CODE: **SH164**

3:1 Reduction • With External Spray Nozzle
• Max : 12,800 strokes/min

3° Sagittal

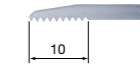


MODEL: **SGT2-E** ORDER CODE: **SH163**

3:1 Reduction • With External Spray Nozzle
• Max : 12,600 strokes/min



SGR2-E Blades for Reciprocating



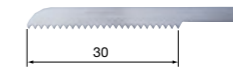
MODEL: **SGR-1** ORDER CODE: **Y900072**

• Blade thickness 0.35 mm • Pack of 10 blades



MODEL: **SGR-2** ORDER CODE: **Y900073**

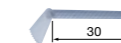
• Blade thickness 0.35 mm • Pack of 10 blades



MODEL: **SGR-3** ORDER CODE: **Y900074**

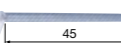
• Blade thickness 0.35 mm • Pack of 10 blades

SGO2-E Blades for Oscillating



MODEL: **SGO-1** ORDER CODE: **H174034**

• Blade thickness 0.3 mm • Single blade



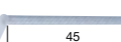
MODEL: **SGO-2** ORDER CODE: **H174044**

• Blade thickness 0.3 mm • Single blade



MODEL: **SGO-3** ORDER CODE: **H174031**

• Blade thickness 0.3 mm • Single blade



MODEL: **SGO-4** ORDER CODE: **H174041**

• Blade thickness 0.3 mm • Single blade



MODEL: **SGO-5** ORDER CODE: **H174032**

• Blade thickness 0.35 mm • Single blade



MODEL: **SGO-6** ORDER CODE: **H174042**

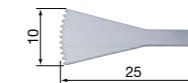
• Blade thickness 0.35 mm • Single blade

SGT2-E Blades for Sagittal



MODEL: **SGT-1** ORDER CODE: **Y900075**

• Blade thickness 0.35 mm • Pack of 10 blades



MODEL: **SGT-2** ORDER CODE: **Y900076**

• Blade thickness 0.35 mm • Pack of 10 blades

*Do not exceed the Maximum Strokes Allowance.
*Blades are sold separately.



Washable in the thermoisinfecteur



Autoclavable up to 135°C

Surgic Pro+ × VarioSurg3

Dual Power and Performance

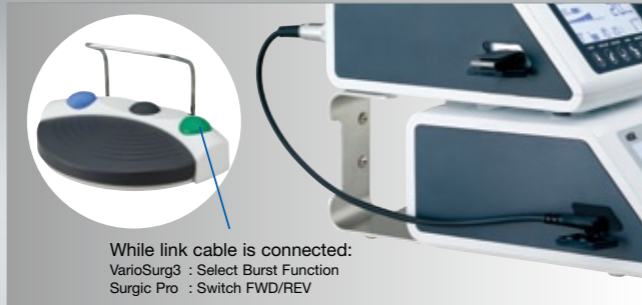
NSK's LINK STAND TECHNOLOGY allows you to conveniently link two supremely powerful and versatile surgical units for convenience and space saving while maintaining independence when needed.

VarioSurg3 is NSK's most powerful ultrasonic surgical unit with 150% power increase compared to its pre-decessor.

Surgic Pro+ is NSK's premium surgical unit for implant placement and general surgical procedures with added peace of mind due to AHC (Advanced Handpiece Calibration system).

The Link Function

You can operate both the implant motor Surgic Pro and VarioSurg3 ultrasonic bone surgery system with a single foot control by linking the two units with the link cable. Put the two units on the Link Stand and create a compact and space saving, all encompassing surgical treatment centre. The two systems can also be installed together compactly with a Link Stand that takes up minimal space.

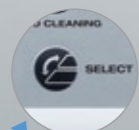


Safe Operation

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



VarioSurg3's display indicates that Surgic Pro is active



Press the 'SELECT' button to switch between VarioSurg3 and Surgic Pro mode.

SG Link Set (Optional)

MODEL: **VarioSurg3 Link set (E)**

ORDER CODE: **Y1002729**

Contents: • SG Link Stand • SG Link Cable

Specifications

- SG Link Stand
- Dimensions : W210 x D300 x H180 (mm)
- Weight : 1.85 kg
- SG Link Cable
- Length 355 (mm)



SG Link Cable



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 safety and productivity.



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



Torque Calibrator



iSD900 Complete Sets

MODEL: **iSD900 (120V)** ORDER CODE: **Y1001357**

MODEL: **iSD900 (230V)** ORDER CODE: **Y1001358**