

PROFESSIONAL PRODUCTS CATALOGUE 2026

NSK

S.E.Asia and MEA Version 1.1

NSK Asia Dental



2026 General Catalogue

DENTAL EDUCATION WEBINARS ONLINE ARCHIVES



Dr Carine Tabarani, UAE

📅 14 Oct 2025

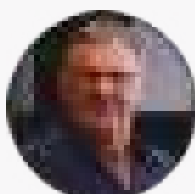
Revolutionizing dentistry: The key role and impact of piezoelectric devices in modern dental practice



Dr Bálint Molnár, Hungary

📅 27 May 2022

Implant placement accuracy in guided implant surgery - Contra-angle handpiece or the torque wrench, which one to choose?



Prof Paul A. Tipton, UK

📅 02 Sep 2025

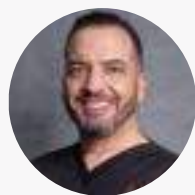
Essentials of tooth preparation



Prof James Prichard, UK

📅 22 Feb 2022

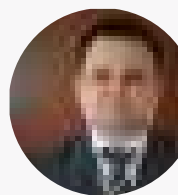
The use of ultrasonics for endodontic treatment – application of different tips



Dr Abdelhakim El Gheriani, UAE

📅 23 Jul 2025

Mini-screw supported orthodontic appliances: What, why, when and how?



Asst Prof Jozsef Szalma, Hungary

📅 12 Nov 2021

Aerosol reducing strategies in the dental offices



Dr Faysal G. Succaria, UAE

📅 27 Apr 2025

Tooth preparation today versus 20 years ago. Science and technique



Dr Miles Reed Cone, USA

📅 27 Oct 2021

Principles of tooth preparation



Dr Maurizio Martini, Italy

📅 20 Sep 2024

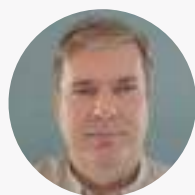
Sinus Lift Crestal approach using the hydraulic pressure: A reliable and predictable technique



Assoc Prof Dr Çağdaş Kışlaoğlu, Turkey

📅 01 Sep 2021

Minimal invasive tooth preparation techniques for veneers



Dr Vályi Péter, Hungary

📅 10 Mar 2023

Role of the proper ultrasonic instrumentation in the treatment of periodontal diseases

... and many more to come

🌐 <https://cappmea.com/nsk-education/>



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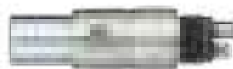
Couplings

LED

- Stainless Steel Body
- Titanium coating
- Non-Retraction Valve
- LED incorporated in coupling



LUX Coupling



Optic MODEL PTL-CL-LED ORDER CODE P1001600

- Standard Type / For NSK

Optic MODEL PTL-CL-LED M ORDER CODE P1001606

- For Higher voltage input / For NSK



LUX Coupling



Optic MODEL PTL-CL-LED III ORDER CODE P1001601

- For NSK with water volume adjuster



LUX Coupling



Optic MODEL KCL-LED ORDER CODE P1005600

- For KaVo® MULTiflex® LUX with water volume adjuster



LUX Coupling



Optic MODEL SCL-LED ORDER CODE P1009600

- For Sirona® Quick Coupling with water volume adjuster

Non-Optic

- Stainless Steel Body
- Non-Retraction Valve



Midwest 4 hole



Non-Optic MODEL FM-CL-M4 ORDER CODE P434051



Borden 2 hole



Non-Optic MODEL FM-CL-B2/B3 ORDER CODE P432051

Non-Optic

- Non-Retraction Valve



Midwest 4 hole



Non-Optic MODEL QD-J M4 ORDER CODE T334051



Borden 2 hole



Non-Optic MODEL QD-J B2/B3 ORDER CODE T332051

Air Turbine Series

Ti-Max Z

Z990L / Z890L



- 100° angled head • Titanium Body DURAGRIP • DYNAMIC POWER SYSTEM
- Cellular Glass Optics • Ceramic Bearings • Clean Head System • Simple Cartridge change
- Push Button Chuck • Quattro Spray • Microfilter • Quick Stop • DURAPOWER CHUCK

Connect to NSK Couplings



Miniature Head : Power : 41 W, Speed : 320,000–440,000 min⁻¹, Head Size : ø10.6 x H 10.8 mm

Standard Head : Power : 44 W, Speed : 280,000–360,000 min⁻¹, Head Size : ø12.1 x H 12.7 mm



Miniature **Optic** MODEL **Z890L** ORDER CODE **PA23720001**

Standard **Optic** MODEL **Z990L** ORDER CODE **PA23730001**

Connect to NSK Couplings

COUPLING TYPE	KaVo®		Sirona®		W&H®	
Head Size	Mini	Standard	Mini	Standard	Mini	Standard
MODEL	Z890KL	Z990KL	Z890SL	Z990SL	Z890WL	Z990WL
ORDER CODE	PA23740001	PA23750001	PA23760001	PA23770001	PA23860001	PA23870001
LIGHT	Optic					



Ti-Max Z Product Highlights

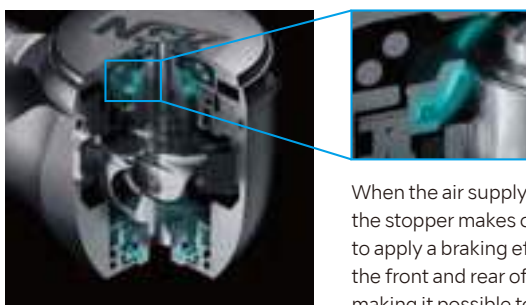
DYNAMIC POWER SYSTEM

Equipped with a new system, the "DYNAMIC POWER SYSTEM" that provides a revolutionary cutting feel. The enlarged exhaust port, optimized nozzle structure, and enlarged rotor bucket achieve the highest rotational power in its category.



Safety & infection control

The Quick-stop function, stops high-speed rotation in around 1 second, is mounted on the front and back of the head. The two Quick-stop functions allow for a abrupt stop to prevent inertial rotation and to reduce the risk of intraoral entrapment and suck-back, enabling safer treatment.

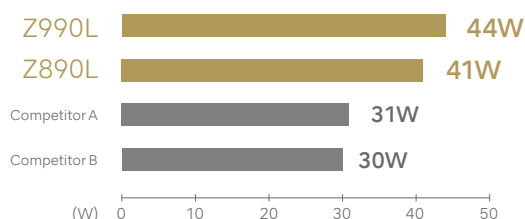


When the air supply is stopped, the rubber of the stopper makes contact with the rotating shaft to apply a braking effect. With stoppers attached to the front and rear of the head, contact is increased, making it possible to abruptly stop the rotation.

Best technologies combined to bring outstanding power.

The "DYNAMIC POWER SYSTEM" has been developed using the latest fluid simulation Software. This enables efficient conversion of air into power to achieve a significant increase in power from 26W to 44W*. Packed with NSK's technologies, such as the fusion of unprecedented high torque and power, head angle and grip, the new model is NSK's flagship turbine. *Z990L

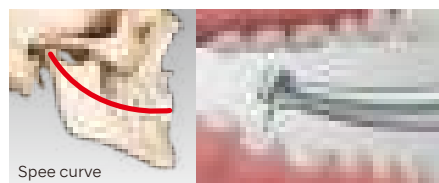
● Power comparison with competitive products (in-house research)*



*Air pressure at 0.42 MPa

Lightweight titanium body and 100° angled head

The internal structure has been revised and the weight has been reduced by 16% compared to the previous model (the lightest metal exterior in major competitive comparisons). Considering the physiological curves of the oral cavity (Curve of Spee and Curve of Wilson), the 100° angled head enables easier access and high-torque cutting for efficient treatment in the oral cavity

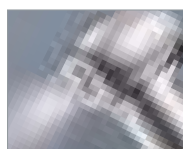


■ Comparison with previous model



S-Max M

- Stainless Steel Body • Cellular Glass Optics • Ceramic Bearings • Clean Head System
- Push Button Chuck • Quattro SpraySimple • Simple Cartridge Change



Quattro Spray

Micro Head : Power : 20W, Speed : 380,000-450,000 min⁻¹, Head Size : ø9.0 x H 10.8 mm 100° Angle Head

*Both standard and short shank burs are applicable.

Miniature Head : Power : 23W, Speed : 380,000-450,000 min⁻¹, Head Size : ø10.6 x H 12.4 mm

*Both standard and short shank burs are applicable.

Standard Head : Power : 26W, Speed : 350,000-430,000 min⁻¹, Head Size : ø12.1 x H 13.3 mm

Connect to NSK Couplings



LED NSK Coupling



Miniature **Optic** MODEL **M micro** ORDER CODE **PA2306**

Miniature **Optic** MODEL **M800L** ORDER CODE **P1253**

Miniature **Non-Optic** MODEL **M800** ORDER CODE **P1255**

Standard **Optic** MODEL **M900L** ORDER CODE **P1254**

Standard **Non-Optic** MODEL **M900** ORDER CODE **P1256**

COUPLING TYPE	KaVo®			Sirona®			W&H®		Bien-Air®	
Head Size	Micro	Mini	Standard	Micro	Mini	Standard	Mini	Standard	Mini	Standard
MODEL	M micro KL	M800KL	M900KL	M micro SL	M800SL	M900SL	M800WL	M900WL	M800BL	M900BL
ORDER CODE	PA2309	P1257	P1258	PA2310	P1261	P1262	P1265	P1266	P1263	P1264
LIGHT	Optic									

006

AT-03



Spare Parts



Washable in the thermodisinfectior



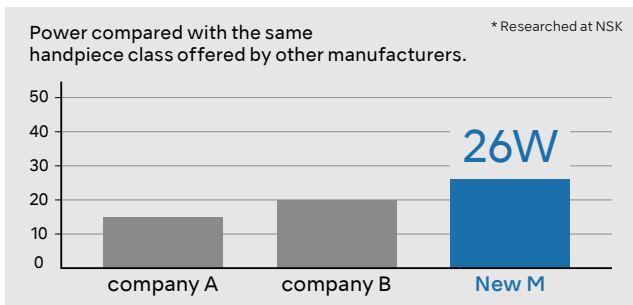
Autoclavable up to 135c

S-Max M Product Highlights

The new rotor shape was developed using a state-of-the-art computer simulation and fluid analysis software. This rotor delivers a significant 6W boost in power from 20W to 26W. Its elegant, slim design is replete with the expertise and technology accumulated over decades by the handpiece experts at NSK.

26W Power

The internal structure is completely redesigned to achieve superior noise and vibration reduction, including the new 26W high power rotor.



The new rotor design is optimized using a rotating air flow simulation, resulting in 26W of power through the efficient use of air supply energy.

All stainless body

The handpiece body is stainless steel, making it corrosion resistant and sturdy. Its satin-like finish fits comfortably in your hand.

Clean Head System

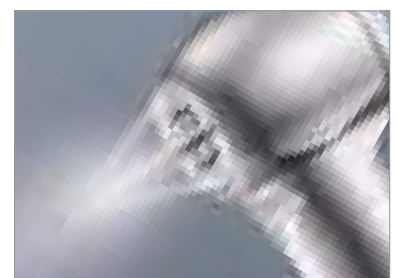
The Clean Head System has an anti-suck back mechanism that stops blood and foreign matter from entering the head from the oral cavity. As a result, the ball bearings and mechanical parts last longer.

Simple cartridge change

The handpiece is designed with barrel type cartridge. The cartridge is easy to replace. Changing the cartridge also eliminates water blockage.

Quattro Spray

Sprays more effectively over the entire bur for better cooling.



Ti-Max X450

Unique 45-degree angled head provides incredible accessibility.

The slim-form Ti-Max X450 series possesses a unique 45-degree angled head specially designed to access hard-to-reach areas for sectioning and extraction of third molars and other impacted teeth. The X450's robust 21 watts of cutting power and effective cooling system - featuring triple water jets - ensure safe and effective treatment during a variety of surgical procedures.



Triple Water Jet

Power : 21 W, Speed : 380,000–450,000 min⁻¹, Head Size : ø11.2 x H 13.5 mm

- For FG extra-long burs (25 mm) only
- Titanium Body with Scratch Resistant DURACOAT
- 45° Angle Head • Cellular Glass Optics • Ceramic Bearings
- Clean Head System • Push Button Chuck • Triple Water Jet

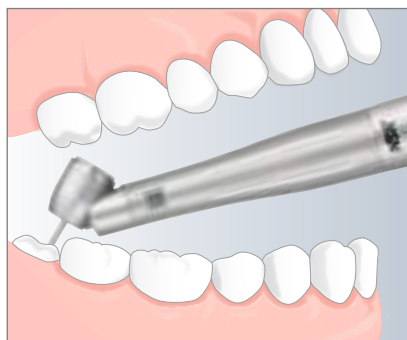


LED NSK Coupling

Optic MODEL X450L ORDER CODE P1078
Non-Optic MODEL X450 ORDER CODE P1088

COUPLING TYPE	NSK Optic	KaVo®	NSK Non-Optic	QD	M4
MODEL	X450L	X450KL	X450	X450QD	X450M4
ORDER CODE	P1078	P1079	P1088	P1086	P1092
LIGHT	Optic		Non-Optic		

Superior accessibility



The 45-degree angled head offers excellent accessibility and visibility during root separation procedures and the removal of hard tissue covering impacted third molars.

The Ti-Max X450 permits optimal access to molars and a diverse range of operative procedures.

Mandibular Right Third Molar Extraction



Ti-Max X450

The labial and cheek mucous membranes do not interfere with treatment, and the bur can be maintained at a safe and optimal angle due to no contact on the turbine body. The X450's slim form factor also provides maximum visibility.



Standard turbine's head angle

Extending the labial or cheek mucous membranes is hard, which makes it difficult to have a delicate, tactile sense while cutting. Maintaining the bur at an optimal angle and direction is also problematic.

S-Max pico

The innovative air turbine with ultra mini head and super slim body shape

The NSK S-Max pico series has been developed for the operation of Minimal Intervention (M.I.). The ultra mini head and super slim handpiece design is the result of fine NSK precision engineering, allowing a wider view of the operational field and greater flexibility for dexterity.



Single Spray

Power : 9 W, Speed : 380,000–450,000 min⁻¹, Head Size : ø8.6 x H 9.0 mm

- For short shank burs / ultra short shank burs • Accessory bur set
- Stainless Steel Body • Cellular Glass Optics
- Ceramic Bearings • Clean Head System
- Push Button Chuck • Single Spray



LED NSK Coupling

Optic MODEL S-Max pico ORDER CODE P1140

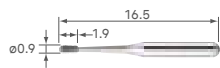
COUPLING TYPE	NSK	KaVo®	QD	M4	B2
MODEL	pico	pico KL	pico QD	pico M4	pico B2
ORDER CODE	P1140	P1142	P1173	P1217	P1218
LIGHT	Optic		Non-Optic		

pico bur

MODEL PC1

ORDER CODE Y1001817

- Pack of 3



MODEL PC2

ORDER CODE Y1001818

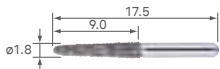
- Pack of 3



MODEL PC3

ORDER CODE Y1001819

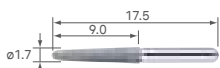
- Pack of 3



MODEL PC3ff

ORDER CODE Y1002019

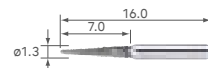
- Extra fine bur • Pack of 3



MODEL PC4

ORDER CODE Y1001820

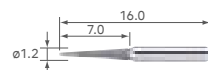
- Pack of 3



MODEL PC4ff

ORDER CODE Y1002020

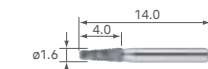
- Extra fine bur • Pack of 3



MODEL PC5

ORDER CODE Y1001821

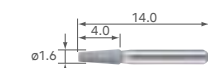
- Pack of 3



MODEL PC5ff

ORDER CODE Y1002021

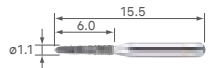
- Extra fine bur • Pack of 3



MODEL PC6

ORDER CODE Y1001822

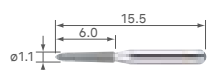
- Pack of 3



MODEL PC6ff

ORDER CODE Y1002022

- Extra fine bur • Pack of 3



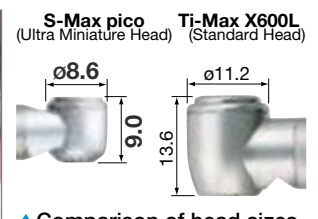
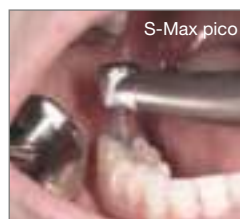
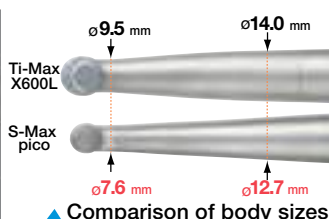
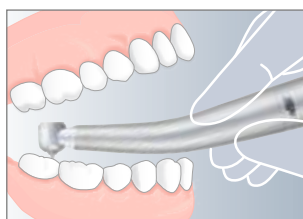
MODEL pico bur set

ORDER CODE Y1001816

- P1-6 / 1 pcs. each



Size specifications of the S-Max pico series



DynaLED

Self-generating LED illumination



Quattro Spray

- Stainless Steel Body • Cellular Glass Optics • Ceramic Bearings
- Clean Head System • Push Button Chuck • Quattro Spray

Miniature Head : Power : 15 W (M4, B2) / 13 W (QD), Speed : 380,000-450,000 min⁻¹,
Head Size : ø10.6 x H 12.4 mm, 25,000 LUX * Both standard and short shank burs are applicable.

Standard Head : Power : 16 W (M4, B2) / 14 W (QD), Speed : 330,000-430,000 min⁻¹,
Head Size : ø12.1 x H 13.3 mm, 25,000 LUX

LED



Miniature MODEL M500LG M4 ORDER CODE P1105

- Midwest 4 hole

Miniature MODEL M500LG B2 ORDER CODE P1107

- Borden 2 hole

LED



Standard MODEL M600LG M4 ORDER CODE P1104

- Midwest 4 hole

Standard MODEL M600LG B2 ORDER CODE P1106

- Borden 2 hole

LED



Miniature MODEL M500LG QD ORDER CODE P1109

LED



Standard MODEL M600LG QD ORDER CODE P1108



QD Coupling



DynaLED Product Highlights

NSK long life micro power generator – high efficiency and long term durability

- NSK has applied the very latest technologies and materials to achieve long term efficiency and reliability.
- Micro power generator is electronically calculated to produce the correct power source for highly effective LED illumination.
- The performance of the handpiece is not influenced by the micro power generator.



DynaLED – a perfectly balanced turbine handpiece

Even with the integrated power generator, NSK DynaLED is a perfectly balanced, high performance turbine handpiece. Clinicians will notice no weight nor balance difference when compared to a conventional turbine handpiece.

LED durability

The LED light source is significantly more durable than quartz, replicating daylight illumination quality.

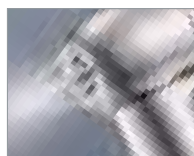


FX Plus

Powerful all the way



- Stainless Steel Body • Ceramic Bearings • Clean Head System
- Push Button Chuck • Quattro Spray • Simple Cartridge Change



Quattro Spray

Miniature Head : Speed : 380,000–450,000 min⁻¹, Head Size : ø10.6 x H 12.4 mm
*Both standard and short shank burs are applicable.

Standard Head : Speed : 325,000–410,000 min⁻¹, Head Size : ø12.1 x H 13.3 mm

Connect to NSK Couplings Non-Optic



QD Coupling

Miniature MODEL **FXP-MU QD** ORDER CODE **PA2304**
 • Power : 23 W

Standard MODEL **FXP-SU QD** ORDER CODE **PA2305**
 • Power : 26 W

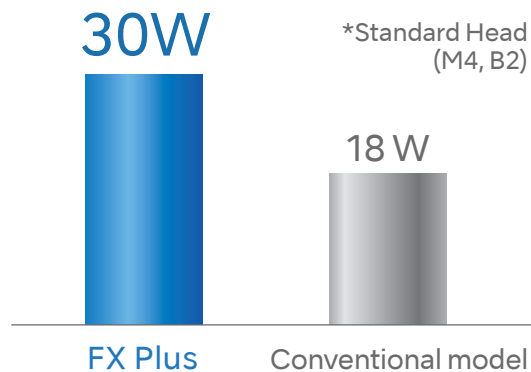
COUPLING TYPE	M4		B2	
Head Size	Mini	Standard	Mini	Standard
MODEL	FXP-MU M4	FXP-SU M4	FXP-MU B2	FXP-SU B2
ORDER CODE	PA2300	PA2301	PA2302	PA2303
POWER	27W	30W	27W	30W
LIGHT	Non-Optic			



FX Plus Product Highlights

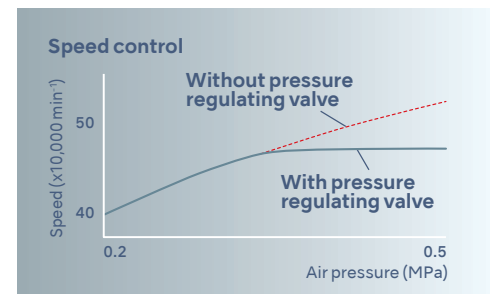
60% Power Boost

FX Plus is dramatically more powerful than its predecessors thanks to the combination of NSK's air turbine simulation technologies. Rated at a maximum of 30 watts, this new model boasts the highest power rating in its class. That concentrated power, along with the bur's high rotational accuracy, creates a synergistic effect that ensures fast, precise treatments.



Air pressure regulating valve

The internal pressure regulating valve maintains a stable supply of pressure to the handpiece head section, preventing premature deterioration of the rotor due to excessive rotational pressure.



DualDefense®

The Clean Head System prevents suck-back into the head and the exhaust line and the Anti-Retraction valve prevents contamination of water supply.

PanaAir FX

Evolution of PANA-Series



- Stainless Steel Body • Ceramic Bearings
- Clean Head System (Push Button Type) • Push Button Chuck (except Wrench Type)
- Single Spray • Air Pressure Regulating Valve (except QD Type)

Push Button Type Non-Optic



Standard Head: Power : 20 W, Speed : 350,000-450,000 min⁻¹, Speed (QD Coupling) : 300,000-400,000 min⁻¹, Head Size : ø11.2 x H 13.4 mm



Standard MODEL PAF-SU M4 ORDER CODE P1225 
• Midwest 4 hole

Standard MODEL PAF-SU B2 ORDER CODE P1226 
• Borden 2 hole



QD Coupling

Standard MODEL PAF-SU QD ORDER CODE P1227

Wrench Type Non-Optic



Standard Head: Power : 17 W, Speed : 350,000-450,000 min⁻¹, Head Size : ø11.2 x H 12.6 mm



Standard MODEL PAF-S M4 ORDER CODE T1069 
• Midwest 4 hole

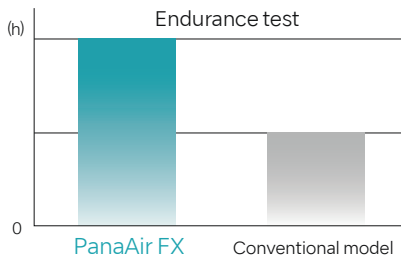
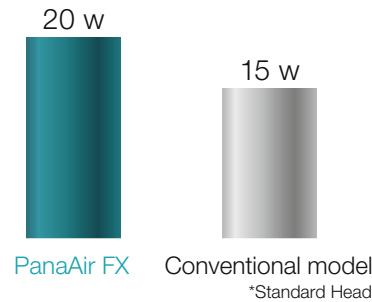
Standard MODEL PAF-S B2 ORDER CODE T1070 
• Borden 2 hole



PanaAir FX Product Highlights

30% power boost

PanaAir FX is dramatically more powerful than its predecessors thanks to the combination of NSK's air turbine simulation technologies. Rated at a maximum of 20 watts, this new model boasts the highest power rating in its class. That concentrated power, along with the bur's high rotational accuracy, creates a synergistic effect that ensures fast, precise treatments.

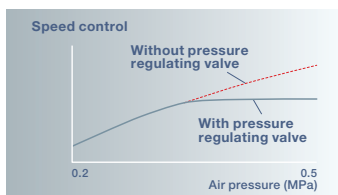


Exceptional longevity

Newly designed bearing structure with greater wear resistance and extended lifespan. Solid stainless steel construction allows it to easily withstand continuous autoclaving and thermo-disinfection.

Unsurpassed durability

Built to excel in clinical situations. Featuring a scratch resistant stainless steel body and head. Thanks to its uniquely designed shock-resistant head design, PanaAir FX's turbine rotor won't get damaged even if dropped onto a concrete floor.

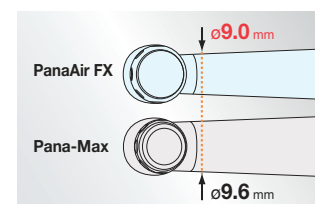


Air pressure regulating valve

The internal pressure regulating valve maintains a stable supply of pressure to handpiece head section preventing premature deterioration of the rotor due to excessive rotational pressure.

Slim-line stainless steel body

PanaAir FX's slim-line body guarantees excellent accessibility to the entire oral cavity. As a result, visibility of the treatment area is maximized, allowing you to work with total efficiency.



Easy-to-change cartridges

PanaAir FX cartridges are long lasting and easy to change, helping you to control cost and minimize downtime. Once the cartridge is changed, the instrument is as good as new.

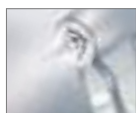
Ti-Max Z

Contra-angle Series

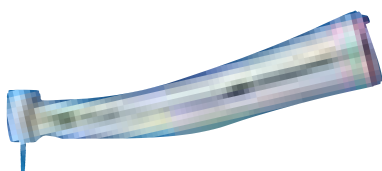


DURABLE

- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics • Clean Head System (exclude Z24L)
- Push Button Chuck • Microfilter



Quattro Spray



MODEL **Z95L** ORDER CODE **C1034**

- 1:5 Increasing** • Exceptional Durability • Quattro Spray
 • For FG burs (ø1.6) • Ceramic Bearings • DLC Coating
 • Anti Heat System • Max Speed : 200,000 min⁻¹



Single Spray



MODEL **Z25L** ORDER CODE **C1038**

- 1:1 Direct Drive** • Single Spray • For CA burs (ø2.35)
 • Max Speed : 40,000 min⁻¹

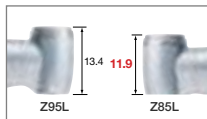


Single Spray



MODEL **Z85L** ORDER CODE **C1062**

- 1:5 Increasing** • Exceptional Durability • Single Spray
 • Miniature Head • For FG burs (ø1.6) • Ceramic Bearings
 • DLC Coating • Anti Heat System • Max Speed : 200,000 min⁻¹
 *Short Shank burs only



Head size comparison
 Z85L offering extraordinary
 visibility and accessibility.



MODEL **Z24L** ORDER CODE **C1126**

- 1:1 Direct Drive** • Single Spray • Miniature Head
 • For CA burs (ø2.35) • Max Speed : 40,000 min⁻¹



MODEL **Z15L** ORDER CODE **C1039**

- 4:1 Reduction** • Single Spray • For CA burs (ø2.35)
 • Max Speed : 10,000 min⁻¹

Ti-Max Z Product Highlights

Two-Way Spray Function (Z95L, Z45L)



The world's first two-way spray function allows you to instantly choose between a mist or jet spray. Choose in an instant depending on the conditions and procedure. Water jet spray prevents subcutaneous emphysema in surgical procedures whilst cooling during restorative procedures. When spray mist can be used again without restriction just switch again. No equipment modification required.

Easy On/Off Switch (Z95L, Z45L)



Switch between water jet (water only) and water spray (water and air mist) in an instant.

Anti Heat System (Z95L, Z85L)

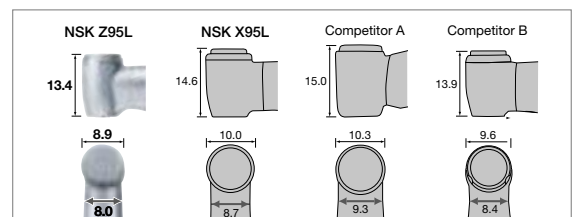
Our proprietary Anti Heat System dramatically reduces the heat typically experienced with speed increasing contra-angles. This feature improves patient safety without compromising manoeuvrability.

The smallest head

The head is angled 2° more than X95L for much better visibility and accessibility even for molars and other areas that are difficult to treat.

The slimmest neck

The slimmer neck provides much better visibility compared to existing products, delivering wide visibility of all treatment areas.



Microfilter

Microfilter works to prevent particles from entering the water spray system in order to guarantee optimum water spray cooling at all times.

Amazingly silent operation

Z95L produces minimal noise and virtually eliminates vibration – a significant advantage for both clinicians and patients. These features are the result of NSK micro precision engineering technology.

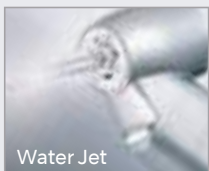


Ti-Max Z45L

45-Degree Angled Head Supplies Superior Accessibility and Maximum Visibility



Two-Way Spray Function



Water Jet



Mist

Easy On/Off Switch



- Titanium Body with Scratch Resistant DURAGRIP
- 45° Angle Head • Cellular Glass Optics
- Ceramic Bearings • Clean Head System
- Push Button Chuck • Quattro Spray (Water Jet / Mist)
- Microfilter • Anti Heat System



Optic MODEL Z45L ORDER CODE C1064

1:4.2 Increasing • For FG burs (Ø1.6)
• Max Speed: 168,000 min⁻¹

Ti-Max Z45L Product Highlights



Superior Accessibility

The 45-degree angled head allows easy access to the molar region, minimizing interference from the front teeth and adjacent teeth.

Superior Accessibility Enables a Vast Variety of Clinical Applications



Sectioning a Mandibular Left Impacted Third Molar

You can gain a comfortable finger rest without stress thanks to the extra space the slim Ti-Max Z45L creates between the front teeth. It is also easy to maintain the bur at an optimal angle and achieve precise sectioning, even when the operating depth is close to apex.



Caries Removal from Maxillary Left Second Premolar on Palatal Side

When working on the palatal side of a second premolar, Ti-Max Z45L ensures that you can operate smoothly and have plenty of working space between the maxillary adjacent teeth.



Caries Removal from a Maxillary Left Lateral Incisor's Cervical Area

Securing a solid finger rest on a front tooth enables stable cutting without interference from other teeth. Since you can also freely control the angle of the bur, minimal intervention treatments are also possible.



Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar

Ti-Max Z45L enables you to prep smoothly without interference from the rubber dam clamp. Its flexibility also makes treatments safer and more precise.

S-Max M



- Stainless Steel Body • Cellular Glass Optics
- Clean Head System • Push Button Chuck (exclude M65)



Optic MODEL M95L ORDERCODE C1023

Non-Optic MODEL M95 ORDERCODE C1026

- 1:5 Increasing • Quattro Spray • For FG burs (ø1,6)
- Ceramic Bearings • Anti Heat System
- Max Speed : 200,000 min⁻¹



Optic MODEL M25L ORDERCODE C1024

Non-Optic MODEL M25 ORDERCODE C1027

- 1:1 Direct Drive • Single Spray • For CA burs (ø2,35)
- Max Speed : 40,000 min⁻¹



Optic MODEL M15L ORDERCODE C1025

Non-Optic MODEL M15 ORDERCODE C1028

- 4:1 Reduction • Single Spray • For CA burs (ø2,35)
- Max Speed : 10,000 min⁻¹



Non-Optic MODEL M65 ORDERCODE H1008

- 1:1 Direct Drive • Single Spray • For HP burs (ø2,35)
- For CA burs (ø2,35)* • Max Speed : 40,000 min⁻¹
- * Need to insert the supplied bur stopper

S-Max M Product Highlights

TOUGHNESS

The S-Max M series contra-angles have dramatically improved durability, and feature an updated internal body design and chuck mechanism. They are NSK's next-generation standard - a marriage of ergonomic sophistication and smooth cutting feel. Experience them for yourself.

Updated internal body design

The all new internal design makes it even more durable, and it can withstand repeated autoclave sterilization and the hostile environment of thermo-disinfection.

Clean Head System

The Clean Head System has an anti-suck back mechanism that stops blood and foreign matter from entering the head from the oral cavity. As a result, the ball bearings and mechanical parts last longer.

All stainless body

The handpiece body is stainless steel, making it rust-proof and sturdy. Its satin-like finish fits comfortably in your hand.

A new chuck mechanism provides even greater holding strength

The bur holding chuck mechanism has been updated further improving operator and patient safety. And because it's easy to use, you can totally focus on the treatment.

Slimmer shape

The grip has been made slimmer in response to requests for a design that avoids contact with the front teeth when accessing molars.

Quattro Spray

Sprays more effectively over the entire bur for better cooling.

*M95L/M95 only



Clinical Report

FX series

A new legend begins



External Water Spray **Non-Optic**

General Applications Handpiece



MODEL **FX25**
ORDER CODE **C1052002**

1:1 Direct Drive

- For CA burs (ø2.35)
- Push Button Chuck
- Clean Head System
- Ball Bearing
- Max Speed : 40,000 min⁻¹



MODEL **FX23**
ORDER CODE **C1056002**

1:1 Direct Drive

- For CA burs (ø2.35)
- Push Button Chuck
- Max Speed : 30,000 min⁻¹



MODEL **FX22**
ORDER CODE **C1129**

1:1 Direct Drive

- For CA burs (ø2.35)
- Latch type
- Max Speed : 30,000 min⁻¹



MODEL **FX15**
ORDER CODE **C1053002**

4:1 Reduction

- For CA burs (ø2.35)
- Push Button Chuck
- Clean Head System
- Ball Bearing
- Max Speed : 10,000 min⁻¹

Endodontic Handpiece



MODEL **FX75**
ORDER CODE **C1055002**

16:1 Reduction

- Miniature Head
- For engine files
- 360° Rotation
- Push Button Chuck
- Max Speed : 1,250 min⁻¹

Prophylaxis Handpiece

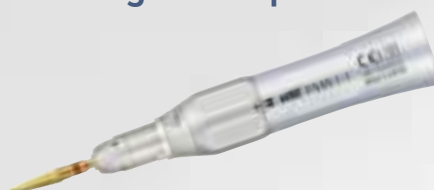


MODEL **FX57**
ORDER CODE **C1054002**

4:1 Reduction

- For screw-in cups and brushes
- 360° Rotation
- Paste Defense System
- w/o Spray
- Max Speed : 2,500 min⁻¹

Straight Handpiece



MODEL **FX65**
ORDER CODE **H1014002**

1:1 Direct Drive

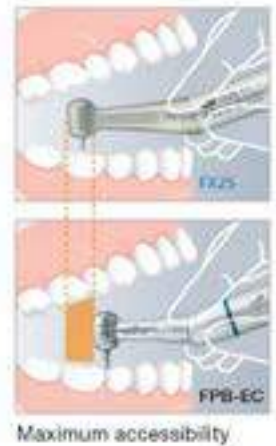
- For HP burs (ø2.35)
- Clean Head System
- Max Speed : 40,000 min⁻¹



FX series Product Highlights

"Stress-free" form

All-round visibility: The super slim neck and body with ultra mini head supply expansive operation views and superior visibility of even hard-to-reach areas in the oral cavity. User-friendliness: You'll enjoy maximum accessibility during procedures thanks to the slim, perfect balance and ergonomic grip, cutting down on the stress associated with various treatments.



Paste Defense System

FX57's head incorporates NSK's original and exclusive dustproof mechanism known as the Paste Defense System. The system prevents polishing paste debris from entering the handpiece, the DLC coating on rotor prevents breakage caused by surface abrasions from polishing paste. These features help to significantly extend the life of the handpiece. (FX57 only)



Easy Cartridge Replacement

Cartridges are easily replaced with accessory tools provided, helping you save on costs and reduce downtime.

High-Precision Gears

The high-precision gears run quiet and are supremely durable, which also reduces uncomfortable vibration.



Push Button Chuck

NSK original Push Button Chuck allows simple one-touch bur insertion and removal without tools.

Hygienic

The seamless and stylish integrated body ensures easy and thorough cleaning after treatment, providing an elevated level of hygienic care.



Head Cap

Push button has been designed not to be pushed in mouth, to prevent bur loosening while treatment.

Highly Durable against Autoclave

FX series handpieces easily withstand repeated autoclaving at up to 135°C.

Ti-Max X205L Internal Water Spray LED

Shorter and lighter - ergonomic comfort & improved balance
Reduced size and weight for unsurpassed balance



Optic MODEL X205L ORDER CODE M1013

- 360° Swivel with LED Illumination • 32,000 LUX
- Titanium body with scratch-resistant DURACOAT
- Non-retraction Valve
- Max Speed : 23,000 min⁻¹ ±10%



S-Max M205 Internal Water Spray



Non-Optic MODEL M205 ORDER CODE M1007

- Non-retraction Valve • Midwest 4 hole
- Max Speed : 22,000 min⁻¹ ±10% • Stainless Steel Body
- B2 is not available



FX205 External Water Spray



Non-Optic MODEL FX205 M4 ORDER CODE M1005002

- Midwest 4 hole • Max Speed : 22,000 min⁻¹ ±10%



Non-Optic MODEL FX205 B2 ORDER CODE M1006002

- Borden 2 hole • Max Speed : 26,000 min⁻¹ ±10%



FX205 Air Motor Sets FX205 + FX65 + FX23 / FX205 + FX65 + FX22 External Water Spray



Non-Optic MODEL FX205 M4 Set ORDER CODE Y1002665

- Midwest 4 hole
- Contents • Air Motor (FX205) • Straight handpiece (FX65)
- Contra-angle handpiece (FX23)



Non-Optic MODEL FX205 B2 Set ORDER CODE Y1002666

- Borden 2 hole
- Contents • Air Motor (FX205) • Straight handpiece (FX65)
- Contra-angle handpiece (FX23)



Non-Optic MODEL FX205 M4 / FX22 Set ORDER CODE Y1003590

- Midwest 4 hole
- Contents • Air Motor (FX205) • Straight handpiece (FX65)
- Contra-angle handpiece (FX22)



Non-Optic MODEL FX205 B2 / FX22 Set ORDER CODE Y1003589

- Borden 2 hole
- Contents • Air Motor (FX205) • Straight handpiece (FX65)
- Contra-angle handpiece (FX22)



Student Kit

FX205 + FX65 + FX23 or FX22 + PanaAir FX



Motor Straight Handpiece



FX205



FX65



Contra-angle (FX Series)



FX23



Air Turbine (PanaAir FX)

Push Button type

Standard Head



M4



MODEL
PRO PAF SU M4 FX23 KIT
ORDER CODE
Y1003601

B2



MODEL
PRO PAF SU B2 FX23 KIT
ORDER CODE
Y1003599



FX22



Push Button type

Standard Head



M4



MODEL
PRO PAF SU M4 FX22 KIT
ORDER CODE
Y1003597

B2



MODEL
PRO PAF SU B2 FX22 KIT
ORDER CODE
Y1003595

Wrench type

Standard Head



M4



MODEL
PRO PAF S M4 FX22 KIT
ORDER CODE
Y1003593

B2



MODEL
PRO PAF S B2 FX22 KIT
ORDER CODE
Y1003591

* The selected connection (M4 or B2) will be applied to both motor and air turbine.

NLZ

THE NEW STYLE ELECTRIC

THE COMPACT MAKES A BIG CHANGE



NLZ E

Complete Set **Optic**

MODEL NLZ E S230

ORDER CODE Y1004004

Contents

- NLZ E U (Control Unit & Main Unit)
- NE180 (AC adaptor)
- NLZ (Motor)
- NLZ CD (Motor Cord)
- NLZ U BRACKET



Specifications

- | | |
|--------------|---|
| Unit | <ul style="list-style-type: none"> • Dimension Control Unit: W 76 × D 87.1 × H 63.4 mm • Dimension Main Unit: W 146 × D 75 × H 48 mm • Power Supply: AC 230 V 50/60 Hz • Programs: General Application Mode / 6 programs Rotary Endo Mode / 6 programs |
| Motor | <ul style="list-style-type: none"> • Motor Type: Brushless Micromotor • Max Torque: 4.2 Ncm • Endodontics Torque: 0.3-6.0 Ncm (Depending on gear ratio) • Motor Speed: 100-40,000 min⁻¹ • Dimension: ø22 × H 68.8 mm • Weight: 59 g (motor only) • Light: White LED |

NLZ Endo

Endodontic Handpiece
6:1 Reduction



Non-Optic MODEL NLZ Endo ORDER CODE C1130

- Max Speed: 1,000 min⁻¹ (Input Max Rotation Speed of the Motor: 6,000 min⁻¹)
- Engine Files (ø2.35) *For Rotary Endo Mode
- Wave-One Reciprocating Files (ø2.35) *For Recipro Endo Mode
- Head Size: ø8.6 × H 11.3 mm • Push Button Chuck

Reciprocating specialist electric attachment NLZ Endo

Newly developed reciprocating specialist electric attachment NLZ Endo. Building on our existing handpiece development technology, we have succeeded in reducing the movement loss during reciprocating operations. As a result, it is possible to correctly transmit reciprocating actions for a smooth endodontic treatment.

FLEXIBLE
INSTALLATION
STYLE
SUPERIOR VISIBILITY &
OPERABILITY



Spare Parts



Washable in the thermosinfector



Autoclavable up to 135°C

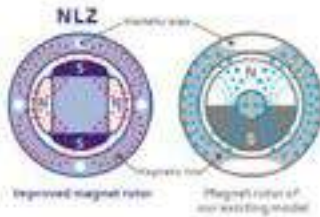
NLZ Product Highlights

Superior* performance of motor with compact size

*Compared to our existing model.

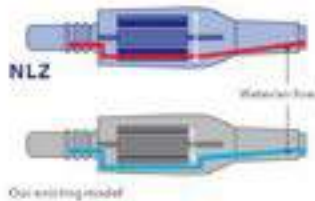
Powerful

The improved magnet motor realized more powerful rotation in the same amount of space by reducing weak magnetic areas.



Efficient

The new, more efficient configuration of water and air lines makes maximum use of the limited space and is lighter, more powerful than before.



Specs comparison

	Our existing model	NLZ - NLZ E
Number of rotations	2,000 - 40,000 min ⁻¹	100 - 40,000 min ⁻¹
Motor Type A		
Max torque	3.6 Ncm	4.2 Ncm
Compatibility with endodontic model	-	○ (NLZ E)

120%
High Torque

For safer and more efficient endodontic treatment * NLZ E only

In addition to the Auto Reverse and Auto Stop functions, a wide range of new features are incorporated for safer and more efficient endodontic treatment.

Endodontic reciprocating function

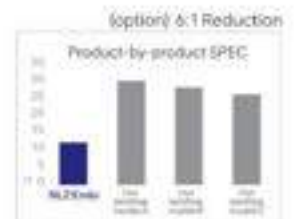
Compatible with the Dentsply Sirona Endodontics reciprocating file: WAVEONE® GOLD. WAVEONE®, from Dentsply Sirona, sets new standards in Endodontics, by bringing simplicity to the root canal shaping procedure, using only one NiTi instrument per root canal in most cases. The global shaping time is thus decreased by up to 40% versus a traditional continuous rotary technique. New NLZ Endo motor has a reciprocating function, allows to work in WAVEONE® reciprocating mode.



Endo torque calibration function

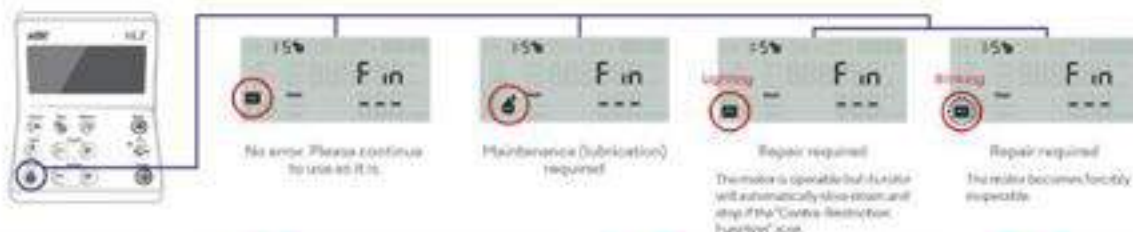
Performing the "Contra-Check Function" shown in the left also enables torque calibration. This function measures the no-load current values and corrects the torque accordingly, resulting in greatly enhanced safety in endodontic treatment.

※ This function cannot completely absorb the individual difference of the actual motor and contra-angle.



Safety functions

"Contra-Check Function" helps detect abnormalities caused by deterioration of the electric attachment and insufficient maintenance before use. Our advanced function is the result of NSK's relentless pursuit of safe treatment. *NSK's Ti-Max Z, X and S-Max M electric attachments are compatible with "Contra-Check Function".



- [Introduction](#)
- [Presentation1](#)
- [Presentation2](#)
- [Installation](#)
- [Clinical Case](#)

NLX nano **LED** **BRUSHLESS**

A new generation of micromotor as well balanced as an air turbine

NLX nano has been designed to minimize weight and size to improve the balance of instrument and motor in the hand of the clinician, reducing fatigue during prolonged procedures. Despite its small size and light weight, the NLX nano is as powerful as traditional micromotors and offers wider range of speeds. Its 180° Vector Control assures smooth and stepless control over the entire speed range. Thanks to LED illumination, it now delivers 32,000 LUX*, natural daylight quality light and assures clearer vision, reducing fatigue during operation. Feel our quality of NLX nano micromotor.



Electric Micromotor Upgrading System **BRUSHLESS**

Speed : 2,000–40,000 min⁻¹, Torque : 3.4 Ncm

MODEL NLX nano S230 (230V)

ORDER CODE Y1001362

Contents

- NLX nano U (Control Unit) • NLX nano (Motor)
- NLX CD (Cord) • NLAC (AC Adaptor) 230V

Specifications (Control Unit)

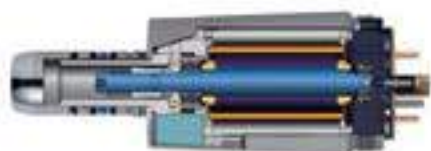
- Rated Input : AC 28 V 50/60 Hz
- Dimensions : W 127 x D 149 x H 54 mm
- Weight : 517 g



NLX nano Product Highlights

High torque, smooth rotation and minimal vibration

Thanks to the NSK 180° Vector Control System, the NLX nano realizes smooth and stepless control over the entire speed range and assures high power. It reduces noise and vibration to the lowest level, resulting in improved comfort for patients and clinicians.



Autoclavable and maintenance free brushless micromotor

The micromotor can be repeatedly autoclaved up to 135°C (with autoclave plug and motor cap). It is brushless micromotor that requires no brush replacement.



135°C
Autoclavable up to 135°C
(Micromotor only)

Wider clinical applications

NLX nano covers a wide speed range and is compatible with your existing optic and non-optic contra-angles. Combined with a wide range of contra-angles, it covers a speed range of 100–200,000 min⁻¹, to make it suitable for any applications.

	100	1,000	2,000	5,000	10,000	20,000	50,000
Z10L 16:1	100-2,500 rpm						
Z20L 1:1				2,000-40,000 rpm			
Z95L 1:5						10,000-200,000 rpm	

Perfect balance

The balance of the motor and instrument combined has been dramatically improved as the weight and size of NLX nano has been reduced drastically. The overall length of instrument and NLX nano micromotor are almost the same as the length of air turbines and couplings, thus enabling practitioners use contra-angles and NLX nano micromotors just like the use of air turbines.



M40 XS Internal Water Spray **BRUSH** **LED**

Easy to connect to Bien-Air® 4VLM and 4VR 400 hoses

Connect direct to existing

• Bien-Air® 4VLM tubing • Bien-Air® 4VR 400 tubing • Bien-Air® B4VLR tubing



Bien-Air® is registered trademark of Bien-Air Dental S.A.



Optic MODEL M40XS ORDER CODE E1135051

Non-Optic MODEL M40N XS ORDER CODE E1136051

- Made Shorter and Lighter for Perfect Balance
- Advantages of using - LED light • Ergonomic Shape



Introduction

*Figures by NSK laboratory.

Built-in Product for Dental Chair Unit



Built-in Product Line-Up

- Micromotor
- Ultrasonic Scaler
- External Control Panel



Multi Control Panel for Built-in System

Multi Pad Multi-Control Panel for built-in system

Integrated into existing equipment
with the latest leading edge technology

Features

- User friendly LCD display and interface to select settings.
- Visual identification on the display is possible even during operation of the handpiece.
- Up to 8 programs (motor only).
- Supports 5 languages (English, Espanol, Italiano, Francals and Deutsch).



Multi Pad Complete Sets

MODEL Multi Pad Auto-Select
ORDER CODE Y1001846

Contents

- Multi Pad Unit
- Angle Plate (Mounting bracket)
- Screws

Specifications

• Input voltage	DC +12 V
• Input connect	: 100 mA
• Max. output power	: 1.2 W
• Dimensions	: W 95 x D 138 x H 31 mm

The Integrated System

Electric Micromotor Integrated System (NLX BF) and Multi Function Ultrasonic Scaler (Varios 170) can be controlled with the system.



(Built-in) Ultrasonic Scaler

Varios 170 Optic / Non-Optic iPiezo engine LED

Integrated Multi Function Ultrasonic Scaler

Specifications

- Power Supply : AC 24 V $\pm$ 10% (or DC 24-36 V)
- Frequency : 28-32 kHz
- Max. Output : 11 W
- Dimensions : W 63 x D 54 x H 26 mm
- Unit weight : 59 g



		MODEL	ORDER CODE	CONTENTS
Optic	Varios 170LUXS1 without Potentiometer & 3 Mode Select Switch	VA170LUXS1	Y1001351	• Built in module • Handpiece • Handpiece cord • 3 Scaling tips (G4, G6, G8)
Non-Optic	Varios 170S1 without Potentiometer & 3 Mode Select Switch	VA170S1	Y1001352	• 3 x Tip replacement wrench with torque limiter • Sterilization case
Optic	Varios 170LUXS2 with Potentiometer & 3 Mode Select Switch	VA170LUXS2	Y1001441	
Non-Optic	Varios 170S2 with Potentiometer & 3 Mode Select Switch	VA170S2	Y1001442	
Optic	VA170LUX-NAS with G2/4/6 without Sterilization Case, only with 1 Tip Wrench, without Potentiometer & 3 Mode Select Switch	VA170LUXNAS	Y1001916	• Built in module • Handpiece • Handpiece cord • 3 Scaling tips (G2, G4, G6)
Non-Optic	VA170-NAS with G2/4/6 without Sterilization Case, only with 1 Tip Wrench, without Potentiometer & 3 Mode Select Switch	VA170NAS	Y1001898	• 1 x Tip replacement wrench with torque limiter

(Built-in) Micromotor

NLXplus Optic Internal Water Spray

Electric Micromotor Integrated System BRUSHLESS

Speed : 100-40,000 min⁻¹, Torque : 4.0 Ncm,
with Endo Function

- Subject to supply approval



NLXnano Optic Internal Water Spray

Electric Micromotor Integrated System BRUSHLESS

Speed : 1,000-40,000 min⁻¹, Torque : 3.4 Ncm

- Please contact NSK dealer for installation inquiry



NBX Optic Internal Water Spray

Electric Micromotor Integrated System BRUSH

Speed : 1,000-40,000 min⁻¹

- Please contact NSK dealer for installation inquiry



Varios 970

Optic / Non-Optic

iPezo engine



Multifunction portable unit
for extreme versatility



Features

- Easily changeable solution bottles
- Designed for easy onsite maintenance
- Touch control mode indicator Peria, Endo, General Mode
- Clear power display for 1 O power and irrigation flow setting
- Easily to use memory function to store user setting
- Touch control irrigation status selection
- Dual water adjustment controls for bottled or external water

Auto cleaning mode

The Auto Cleaning Mode flushes the tubing, handpiece and tips at the push of a button when required. The two channels can be flushed independently.



Sterilization case

The handpiece, tips and tip wrenches can be sterilized together for your convenience.



Varios 970 Complete Sets



Optic Varios 970 Optic Complete Set

MODEL VA970 LUX (230V)

ORDER CODE Y1001168

Non-Optic Varios 970 Non-Optic Complete Set

MODEL VA970 (230V)

ORDER CODE Y1001175

Specifications :

• Power Supply	: AC 230 V 50/60 Hz
• Frequency	: 28-32 kHz
• Max. Pump Output	: 11 W (G mode)
• Dimensions	: W 160 x D 270 x H 190 mm (including bottle)
• Unit weight	: 2.1 kg (except attachment)
• Bottle volume	: 400 ml (x2 bottles)

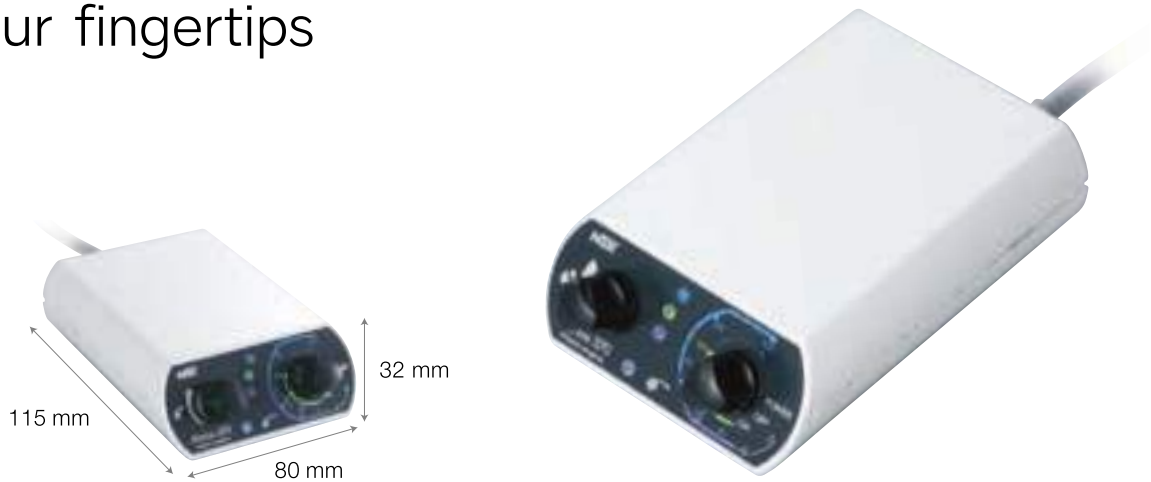
Contents

- Control unit
- Handpiece
- Handpiece cord
- 3 Scaling tips (G4, G6, G8)
- Foot control (FC-70)
- 2 x Irrigation bottles
- 3 x Tip wrench with torque limiter
- AC cord
- Sterilization case



Varios 370 Optic / Non-Optic iPezo engine **LED**

Compact multipurpose control unit
at your fingertips



Varios 370 units installation exanokes



MODEL Control Unit Holder
ORDER CODE Y1001812
(standard accessory)



Under or on the doctor table
with Control Unit Holder



On the dental console arm with
Stand Model 2254 (optional)



Behind or beside the doctor table
with Mounting Bracket Model Z259
(optional)

Varios 370 Complete Sets



Optic Varios 370 Optic Complete Set
MODEL VA370 LUX (230V)
ORDER CODE Y1001343

Non-Optic Varios 370 Non-Optic Complete Set
MODEL VA370 (230V)
ORDER CODE Y1001340

Specifications :

• Power Supply	: AC 100-240 V 50/60 Hz
• Frequency	: 28-32 kHz
• Max. Pump Output	: 11 W (G mode)
• Dimensions	: W80 x D 115 x H 32 mm (without knob and cord)
• Unit weight	: 430 g (without attachment)

Contents

- Control unit with Handpiece cord
- Control Uni Holder
- AC adaptor • Handpiece
- Handpiece Holder
- Water filter set • Foot control (FC-71)
- 3 Scaling tips (G4, G6, G8)
- Tip wrench with torque limiter



Spare Parts

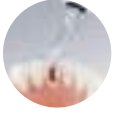
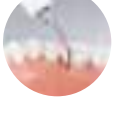
Varios Ultrasonic Scaler Tips Click on the tip image for the 3D View

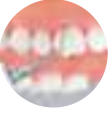
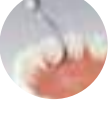
Varios Ultrasonic Scaler Tips

Scaling

Cross Section Diagram

Cross Section Diagram

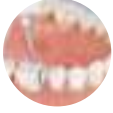
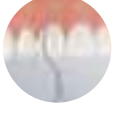
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			MODEL G2 ORDER CODE Z217102 NSK EMS® MODEL G2-E ORDER CODE Z291102
			MODEL G3 ORDER CODE Z217103 NSK EMS® MODEL G3-E ORDER CODE Z291103
			MODEL G4 ORDER CODE Z217104 NSK EMS® MODEL G4-E ORDER CODE Z291104
			MODEL G5 ORDER CODE Z217105 NSK
			MODEL G6 ORDER CODE Z217106 NSK EMS® MODEL G6-E ORDER CODE Z291106

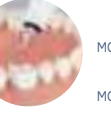
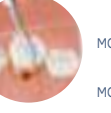
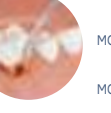
			MODEL G8 ORDER CODE Z217108 NSK
			MODEL G9 ORDER CODE Z217109 NSK
			MODEL G11 ORDER CODE Z217411 NSK
			MODEL G12 ORDER CODE Z217412 NSK
			MODEL G13 ORDER CODE Z217413 NSK

MODEL Scaling G1 Pack ORDER CODE Y900501	Contents • G1 : 6 pcs.
MODEL Scaling G4 Pack ORDER CODE Y900502	Contents • G4 : 6 pcs.
MODEL Scaling G6 Pack ORDER CODE Y900503	Contents • G6 : 6 pcs.
MODEL Scaling G8 Pack ORDER CODE Y1002163	Contents • G8 : 6 pcs.
MODEL Scaling G9 Pack ORDER CODE Y1002164	Contents • G9 : 6 pcs.

Varios Ultrasonic Scaler Tips

Perio (Root planing)

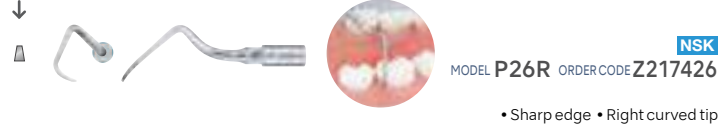
			MODEL P1 ORDER CODE Z217404 NSK P 6
			MODEL P1D ORDER CODE Z217405 NSK P 10 • Diamond coated
			MODEL P2D ORDER CODE Z217402 NSK P 8 • Diamond coated • Right curved tip
			MODEL P3D ORDER CODE Z217403 NSK P 8 • Diamond coated • Left curved tip
			MODEL P10 ORDER CODE Z217410 NSK P 10 • Sharp edge
			MODEL P11R ORDER CODE Z217408 NSK P 10 • Sharp edge • Right curved tip

			MODEL P11L ORDER CODE Z217409 NSK Max. Power P 10 • Sharp edge • Left curved tip
			MODEL P20 ORDER CODE Z217420 NSK P 8 EMS® MODEL P20-E ORDER CODE Z291420
			MODEL P21R ORDER CODE Z217422 NSK P 8 EMS® MODEL P21R-E ORDER CODE Z291422 • Right curved tip
			MODEL P21L ORDER CODE Z217421 NSK P 8 EMS® MODEL P21L-E ORDER CODE Z291421 • Left curved tip
			MODEL P25R ORDER CODE Z217424 NSK P 10 EMS® MODEL P25R-E ORDER CODE Z291424 • Right curved tip
			MODEL P25L ORDER CODE Z217425 NSK P 10 EMS® MODEL P25L-E ORDER CODE Z291425 • Left curved tip

Varios Ultrasonic Scaler Tips Click on the tip image for the 3D View

Perio (Root planing)

Cross Section Diagram



Cross Section Diagram



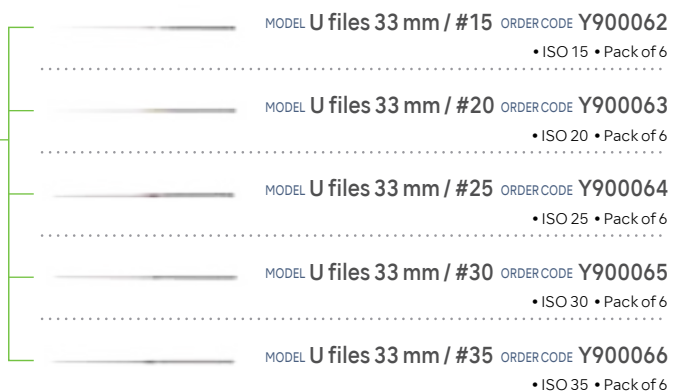
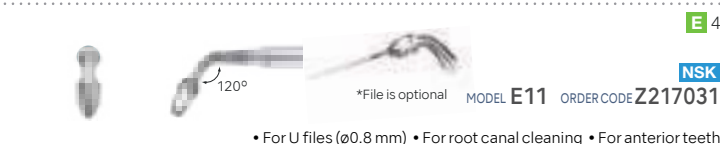
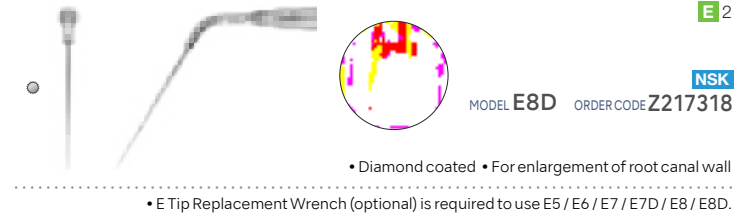
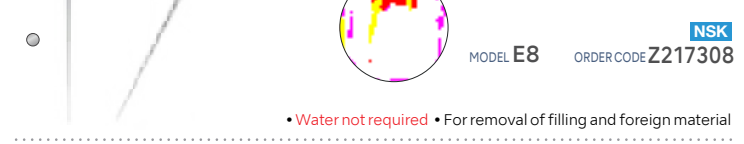
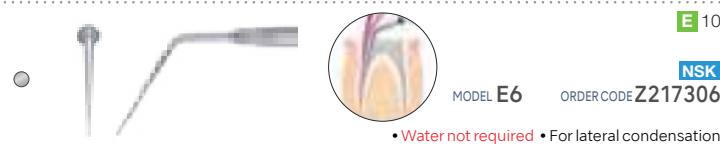
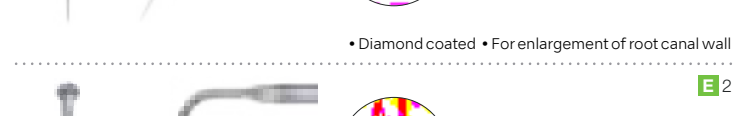
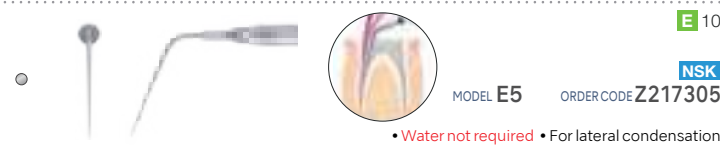
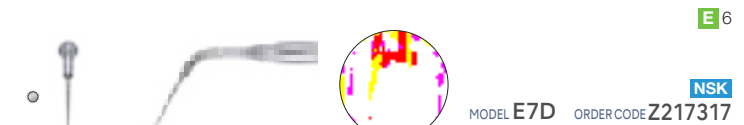
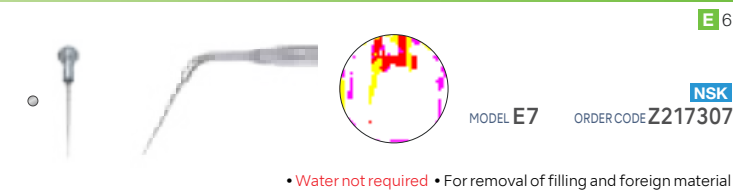
Varios Ultrasonic Scaler Tips

Perio (Irrigation and cleaning)



Varios Ultrasonic Scaler Tips

Endodontics



Each pack of E11, E12, V10 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

Varios Ultrasonic Scaler Tips

Retrograde endo

Cross Section Diagram

Max power **E 6**

Cross Section Diagram

Max power **E 6**



NSK
MODEL **E30RD**
ORDER CODE **Z217212**

• Diamond coated • For posterior teeth (right angled)



NSK
MODEL **E31D**
ORDER CODE **Z217210**

• Diamond coated • For anterior and posterior teeth (70°)



NSK
MODEL **E30LD**
ORDER CODE **Z217213**

• Diamond coated • For posterior teeth (left angled)



NSK
MODEL **E32D**
ORDER CODE **Z217211**

• Diamond coated • For anterior teeth (90°)

Varios Ultrasonic Scaler Tips

Restorative (for minimal intervention)



G 2
NSK
MODEL **G61D** ORDER CODE **Z217601**

• Diamond coated



G 2
NSK
MODEL **G66D** ORDER CODE **Z217606**

• Diamond coated



G 2
NSK
MODEL **G62D** ORDER CODE **Z217602**

• Diamond coated



G 2
NSK
MODEL **G67D** ORDER CODE **Z217607**

• Diamond coated



G 2
NSK
MODEL **G65D** ORDER CODE **Z217605**

• Diamond coated



G 2
NSK
MODEL **G68D** ORDER CODE **Z217608**

• Diamond coated

Varios Ultrasonic Scaler Tips

Extraction

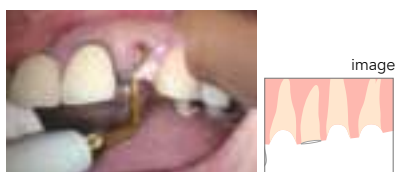


G 10
NSK
MODEL **G95** ORDER CODE **Z217705**

• Tin coated • 0.7 mm thick • A double edge, which is sharp in three directions

Root extraction (upper left No. 2 tooth removal)

Tooth extraction is possible without excessively cutting the alveolar bone around the remaining root, retaining the morphology of the alveolar bone.



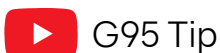
Impacted tooth (lower left No. 8 tooth removal)

The use of the tip prior to extraction will mobilise the tooth and make extraction easier.



Be careful not to apply excessive force, as in cases of using elevators.

Phot credit:
Courtesy of Nishikawa-guchi dental clinic



G95 Tip



Perio Tips

Varios V-Tip System Line-Up



NSK Varios V-Tip holder system is innovative, multi-functional and economical. The V-Tip holder is a separate component to the actual cutting tips and can be easily and inexpensively replaced. NSK V-Tip holder system offers the flexibility and expandability to meet the wide requirements for multi-purpose clinical applications.



- For minimal intervention



- For finishing trimming/polishing



- For caries removal



- For root canal cleaning



- For root canal enlargement



Restorative

Endodontics

V30
120° Angle type



- For prostheses or implant maintenance



Maintenance



V10
Straight



MODEL V30 ORDER CODE Z217030

• Includes E Tip replacement wrench • For Varios series

Varios Ultrasonic Scaler Tips

Restorative (for minimal intervention)



Max power **G 6**
MODEL V-G70 ORDER CODE Y900118
• Diamond coated • Pack of 3



G 6
MODEL V-G71 ORDER CODE Y900119
• Diamond coated • Pack of 3



G 6
MODEL V-G72 ORDER CODE Y900120
• Diamond coated • Pack of 3



Max power **G 6**
MODEL V-G75 ORDER CODE Y900121
• Diamond coated • Pack of 3



G 6
MODEL V-G76 ORDER CODE Y900122
• Diamond coated • Pack of 3

Varios Ultrasonic Scaler Tips

Restorative (for finishing / trimming / polishing)



G 6
MODEL V-G77 ORDER CODE Y900165
• Diamond coated • Normal Grade • Pack of 3



G 6
MODEL V-G78 ORDER CODE Y900166
• Diamond coated • Fine Grade • Pack of 3



G 6
MODEL V-G79 ORDER CODE Y900167
• Diamond coated • Super Fine Grade • Pack of 3

Varios V-Tip System Line-Up



Click on the tip image for the 3D View



MODEL **V30** ORDER CODE **Z217030**

• Includes E Tip replacement wrench • For Varios series

Each pack of E11, E12, V10 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

Varios Ultrasonic Scaler Tips

Endodontics



Max. Power **E** 5
MODEL **V-S50** ORDER CODE **Y900169**
• For root canal cleaning 17 mm • Pack of 3



MODEL **V-S51** ORDER CODE **Y900170**
• For root canal cleaning 23 mm • Pack of 3



MODEL **V-S52** ORDER CODE **Y900171**
• For root canal cleaning 26 mm • Pack of 3



MODEL **V-S53** ORDER CODE **Y900172**
• For root canal cleaning 32 mm • Pack of 3



Max. Power **E** 5
MODEL **V-S51D** ORDER CODE **Y900174**
• Diamond coated • For root canal cleaning 23 mm • Pack of 3



MODEL **V-S52D** ORDER CODE **Y900175**
• Diamond coated • For root canal cleaning 26 mm • Pack of 3



MODEL **V-S53D** ORDER CODE **Y900176**
• Diamond coated • For root canal cleaning 32 mm • Pack of 3

Perio-Control



MODEL **V10** ORDER CODE **Z217041**

• Plastic Tip is not included • Includes E Tip replacement wrench • For Varios series

Varios Ultrasonic Scaler Tips

Maintenance

断面圖



Max. Power **P** 6
MODEL **V-P10** ORDER CODE **Y900184**
• Pack of 3 • V10 holder is not included



MODEL **V-P11R** ORDER CODE **Y900165**
• Right curved type • Pack of 3 • V10 holder is not included



MODEL **V-P11L** ORDER CODE **Y900166**
• Left curved type • Pack of 3 • V10 holder is not included

断面圖



Max. Power **P** 6
MODEL **V-P12** ORDER CODE **Y1002167**
• Pack of 3 • V10 holder is not included



MODEL **V-P26R** ORDER CODE **Y1002168**
• Right curved type • Pack of 3 • V10 holder is not included



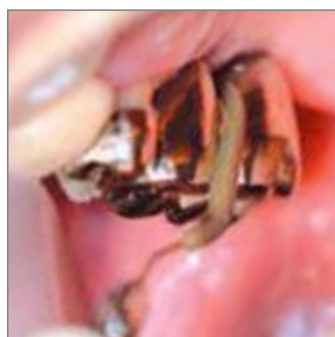
MODEL **V-P26L** ORDER CODE **Y1002169**
• Left curved type • Pack of 3 • V10 holder is not included



V-P10



V-P12



V-P11R



V-P26R

For the maintenance of prosthesis and implants. Produced from special material to allow safe debridement without causing damage to metals and implants.

Application PERIO



For prostheses or implant maintenance

MODEL **Perio-Control Tips Starter Kit** ORDER CODE **Y1002606** **NSK**

Contents

- V10 V-tip holder : 1 pc
- V-P11R, V-P11L, V-P12, V-P26R, V-P26L : 1 pc each



MODEL **Perio Kit A** ORDER CODE **Y900144** **NSK**

Contents

- P1D, P2D, P3D, P10: 1 pc each
- Tip holder: 1 pc



Furcation and curved root face

MODEL **Perio Kit B** ORDER CODE **Y900145** **NSK**

Contents

- P20, P25R, P25L: 1 pc each
- Tip holder: 1 pc

Application ENDODONTICS



For anterior root canal irrigation

MODEL **Endo Kit E11** ORDER CODE **Y900146** **NSK**

Contents

- E11 : 1 pc. 1200 angle header for anterior teeth
- E Tip replacement wrench : 1 pc.
- U files 33 mm #15, #20, #25, #30, #35 : pack of 6 each size



For posterior root canal irrigation

MODEL **Endo Kit E12** ORDER CODE **Y900147** **NSK**

Contents

- E12: 1 pc. 950 angle holder for posterior teeth
- E Tip replacement wrench : 1 pc
- U files 33 mm #15, #20, #25, #30, #35 : pack of 6 each size



4 kinds of retrograde root filling tips

MODEL **Retro Kit** ORDER CODE **Y900149** **NSK**

Contents

- E30RD, E30LD, E31D, E32D : 1 pc each
- Tip holder: 1 pc

Ti-Max S970 series Air Scalers

- Titanium Body with Scratch Resistant DURACOAT
- 3 level Power Ring
- Frequency of oscillation: 5,800-6,200 Hz
- Cellular Glass Optics
- Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)

Connect to NSK Couplings



LED NSK Coupling

Optic MODEL **S970L**
Non-Optic MODEL **S970**

ORDER CODE **T1005**
 ORDER CODE **T1020**

Connect Direct to Other Brand Couplings



LED KaVo® LED Coupling

Optic MODEL **S970KL** ORDER CODE **T1013**



LED Sirona® LED Coupling

Optic MODEL **S970SL** ORDER CODE **T1015**

AS2000 Air Scalers



- Frequency of oscillation: 5,600-5,850 Hz
- Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)



Non-Optic MODEL **AS2000 M4** ORDER CODE **T698**

• For M4

Non-Optic MODEL **AS2000 B2/B3** ORDER CODE **T697**

• For B3 / B3



Air Scaler Tips

Air Scaler Tips For S970/AS2000

Scaling



MODEL S1

ORDER CODE Z252411

• Universal Type



MODEL S2

ORDER CODE Z252413

• Sickle Type



MODEL S3

ORDER CODE Z252412

• Perio Type

Air Scaler Tips For S970

Perio



MODEL S10

ORDER CODE Z252420

• Universal Type Slim Line



MODEL S21R

ORDER CODE Z252442

• Root Planing (Right curved tip)



MODEL S20

ORDER CODE Z252441

• Root Planing (Straight tip)



MODEL S21L

ORDER CODE Z252443

• Root Planing (Left curved tip)

Air Scaler Tips For S970

Restorative (for minimal intervention)



MODEL S65D

ORDER CODE Z252465

• Diamond coated



MODEL S67D

ORDER CODE Z252467

• Diamond coated



MODEL S66D

ORDER CODE Z252466

• Diamond coated



MODEL S68D

ORDER CODE Z252468

• Diamond coated

Air Scaler Tips For S970

Restorative (for preparation of crown cores)



MODEL S81D

ORDER CODE Z252469

• Diamond coated



MODEL S86D

ORDER CODE Z252460

• Diamond coated



MODEL S82D

ORDER CODE Z252462

• Diamond coated



MODEL S71D

ORDER CODE Z252471

• Diamond coated



MODEL S83D

ORDER CODE Z252461

• Diamond coated



MODEL S72D

ORDER CODE Z252472

• Diamond coated

Air Scaler V-Tip System Line-Up



MODEL **S35** ORDER CODE **Z252015**

• Plastic Tip is not included • Includes E Tip replacement wrench

Air Scaler Tips For S970 Perio-Control

Maintenance



MODEL **V-P10** ORDER CODE **Y900184**

• Pack of 3 • S35 holder is not included



MODEL **V-P11R** ORDER CODE **Y1002165**

• Right curved type • Pack of 3 • S35 holder is not included



MODEL **V-P11L** ORDER CODE **Y1002166**

• Left curved type • Pack of 3 • S35 holder is not included



MODEL **V-P12** ORDER CODE **Y1002167**

• Pack of 3 • S35 holder is not included



MODEL **Perio-Control Tips Air Scaler Kit**
ORDER CODE **Y1002754**

• S35 holder: 1pc • V-P10, V-P11R, V-P11L, V-P12: 1pc each • Includes E Tip replacement wrench



MODEL **S75** ORDER CODE **Z252035**

• Includes E Tip replacement wrench

Each pack of S35 or S75 includes 1 x E Tip replacement wrench.
Replacement wrench is not included when ordering other tips.
Please order the replacement wrench separately in this instance.

Air Scaler Tips For S970/AS2000

Restorative (for minimal intervention)



MODEL **V-G70** ORDER CODE **Y900118**

• Diamond coated • Pack of 3



MODEL **V-G71** ORDER CODE **Y900119**

• Diamond coated • Pack of 3



MODEL **V-G72** ORDER CODE **Y900120**

• Diamond coated • Pack of 3



MODEL **V-G75** ORDER CODE **Y900121**

• Diamond coated • Pack of 3



MODEL **V-G76** ORDER CODE **Y900122**

• Diamond coated • Pack of 3

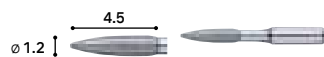
Air Scaler Tips For S970/AS2000

Restorative (for finishing / trimming / polishing)



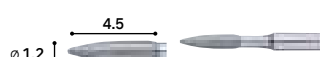
MODEL **V-G77** ORDER CODE **Y900165**

• Diamond coated • Normal Grade • Pack of 3



MODEL **V-G78** ORDER CODE **Y900166**

• Diamond coated • Fine Grade • Pack of 3



MODEL **V-G79** ORDER CODE **Y900167**

• Diamond coated • Super Fine Grade • Pack of 3

Air Scaler Tips For S970/AS2000

Endodontics



MODEL **V-U15** ORDER CODE **Y900177**

• V-file Irrigation 23mm #15 • ISO15 • Pack of 6



MODEL **V-U20** ORDER CODE **Y900178**

• V-file Irrigation 23mm #20 • ISO20 • Pack of 6



MODEL **V-U25** ORDER CODE **Y900179**

• V-file Irrigation 23mm #25 • ISO25 • Pack of 6



MODEL **V-U30** ORDER CODE **Y900180**

• V-file Irrigation 23mm #30 • ISO30 • Pack of 6



MODEL **V-U35** ORDER CODE **Y900181**

• V-file Irrigation 23mm #35 • ISO35 • Pack of 6

Powder Therapy

For long lasting, beautiful and healthy teeth

		 Prophy-Mate neo	 Perio-Mate
Solution			
Powder		 FLASH pearl	 Perio-Mate Powder
Therapy areas		 Supragingival	 Supragingival (Gingival margin) Subgingival
Removal of	Heavy pigmentation and Stain	✓	
	Light pigmentation and Stain	✓	✓
	Biofilm (Plaque)	✓	✓
Use on	Enamel (Inter-proximal areas, fissures and crevices)	✓	✓
	Dentine		✓
	Root surfaces		✓
	Restorations material		✓
	Implant surfaces		✓
Indications	Orthodontic appliances	(✓) *depends on material of the bracket	✓

Prophy-Mate neo

Air powered tooth polishing system



Prophy-Mate neo Complete System

MODEL	ORDER CODE	
PMNG-PTL-P	Y135029	for NSK Coupling
PMNG-KV-P	Y135030	for KaVo® LED Coupling
PMNG-SR-P	Y135031	for Sirona® LED Coupling
PMNG-WH-P	Y135032	for W&H® Roto Quick

MODEL	ORDER CODE	
PMNG-BA-P	Y135033	for Bien-Air® Unifix®
PMNG-M4-P	Y135034	for connect direct to the handpiece tubing MIDWEST
PMNG-B2-P	Y135035	for connect direct to the handpiece tubing BORDEN

*Couplings are not included

Contents

- Handpiece with 60° nozzle head
- 5 pcs. x 15 g sachets of FLASH pearl cleaning powder
- Maintenance kit

FLASH pearl CLEANING POWDER

MODEL FLASH pearl
ORDER CODE Y900693

- Stylishly packaged in a handy original box.
- Contains 100 x 15 g sachets



MODEL FLASH pearl (Bottle)
ORDER CODE Y900698

- 4 bottles packed in a box.
- Comes with a measuring cup for your convenience
- Each bottle contains 300 g



Prophy-Mate neo Product Highlights

Ergo-comfort design

Lightweight, compact design and well-considered weight balance enable easy handling for minimised hand and wrist fatigue, helping to ensure thorough treatment.



Smooth, easy 360° swivel

Twin joints rotate smoothly 360° degrees for easy operability, responding flexibly to minute fingertip movements with effortless adjustment of the nozzle angle.



Simple one-touch connection

The handpiece can be attached to the powder case with one-touch operation.



Improved polishing power

With NSK original twin nozzles, greater polishing power is realized. With powerful jet, cleaning time is greatly shortened thus reduces treatment time.



Easy detachable nozzles with 60° and 80°

Selectable 60° and 80° nozzles maximise the cleaning ability. 60° nozzle works especially well for molar area and occluding surface and 80° nozzle for anterior tooth. (80° nozzle is optional)



FLASH pearl Product Highlights

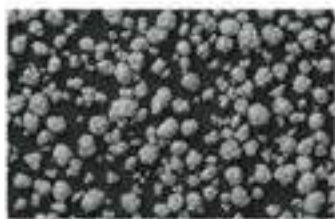
Sparkling results every time

FLASH pearl, is a spherical particulate powder designed to roll smoothly over tooth surfaces and penetrate all corners for rapid cleaning. The spherical shape of the powder granules lessens the likelihood of damage to teeth and soft tissue while removing stains and plaque quickly and safely. * Adverse reactions to this product are rare.



Effective Cleaning System!

Spherical granules remove residues from every corner



FLASH pearl



Conventional Sodium bicarbonate powder

FLASH pearl roll smoothly over tooth surfaces



No damage
FLASH pearl avoids surface damage



Enamel damage
Conventional Sodium bicarbonate is aggressive



Flash pearl

Perio-Mate Biofilm Eraser

Powder therapy, supragingival and subgingival



Perio-Mate Powder

- Subgingival airpolishing powder.
 - Principal ingredient is glycine, an amino acid present in proteins.
 - Highly water soluble to prevent subgingival retention.
 - Lower Mohs hardness than dentin.
- *Glycine ranks 2 on the Mohs hardness scale, while dentin is 2 to 2.5.
- Average powder particle diameter is 25 μm .



MODEL Perio-Mate Powder ORDER CODE Y900938

- Contents: Two bottles (160 g each)

Perio-Mate Nozzle Tip

- Disposable
- Sterile
- Individually packaged

MODEL Perio-Mate Nozzle Tip

ORDER CODE Y1002741

- Contents: 40 nozzles



Coupling Lineup

*Couplings are not included

MODEL	ORDER CODE	
PER-PTL-P	Y1002654	for NSK Coupling
PER-KV-P	Y1002655	for KaVo® Coupling
PER-SR-P	Y1002656	for Sirona® Coupling
PER-WH-P	Y1002657	for W&H® Roto Quick
PER-M4-P	Y1002659	for connect direct to the handpiece tubing MIDWEST
PER-B2-P	Y1002660	for connect direct to the handpiece tubing BORDEN

Contents

- Handpiece
- Powder case
- Nozzle tip (40 pcs)
- Maintenance kit
- Perio-Mate Powder 160 g x1



Perio Mate Product Highlights

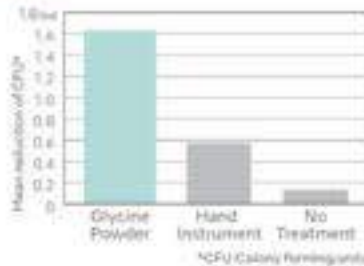
Perio-mate offers a gentle solution in the cleaning of biofilm and light stains. Unlike the harshness of a scaler, especially in those hard to reach areas, the Perio-mate has also been effective in preventing peri-implantitis and mucositis.

Efficient professional care that's kind to teeth. It is easy to install powder therapy alongside existing facilities.

- The "handy type" can be connected to the chair unit during use in one action.
- The nozzle tip is designed for safety and operability.
- The powder flow channel is short and direct with low risk of blockage.
- Fast and effective biofilm removal.

Reduction of bacteria

The air-polish process with Perio-Mate Powder (glycine-based) results in significantly better bacterial reduction than manual plaque removal.



Petersilka GJ, Tunkel J, Barakos K, Heinecke A, Häberlein J, Flemmig TF. Subgingival plaque removal at interdental sites using a low-abrasive air polishing powder. J Periodontol. 2003 Mar;74(3):307-11.

Powder flow volume adjustment

The Perio-Mate's convenient Powder Control Ring makes fine-tuning powder flow simple and intuitive with quick fingertip adjustments. In addition to easily controlling and stopping the flow of powder in this way, you can cleanse the treatment area from biofilm uninterrupted.



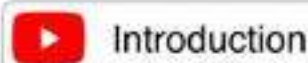
Product maintenance

The user can easily disassemble the nozzle, handpiece and powder case. Powder clogging is unlikely when handled and maintained correctly but is easy to manage by following the maintenance guidelines and the relevant accessories included with the product. All the parts of the handpiece (other than the nozzle tip) can be repeatedly cleaned ultrasonically or sterilized in an autoclave.



Slim nozzle facilitates operation in the narrow confines of the oral cavity

The long, narrow nozzle shape is designed to allow easy access to areas that require inserting the handpiece at an angle, such as between molars.



Perio Mate Powder Product Highlights

Powder particle comparisons The fine Perio-Mate Powder is ideal for periodontal pocket treatment.



Conventional sodium bicarbonate powder

Average particle diameter : 73 μ m
Scanning electron microscope image
magnification of 150x



Perio-Mate Powder (glycine)

Average particle diameter : 25 μ m
Scanning electron microscope image
magnification of 150x



Supragingival

Removal of plaque biofilm from the gingival margin

(up to approximately 3 mm inside the pocket)

*Detach nozzle tip

Removal of plaque biofilm at interdental and gingival margin



Before

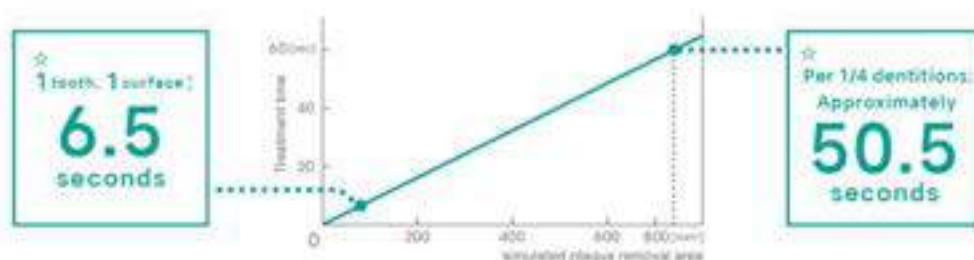


In use

- Easier to remove biofilm plaque and minor stain around supragingival and gingival margin.
- Enable to remove plaque and biofilm from crowded dentition, interdental and pit and fissure, where hardly accessed with rubber cups.
- Removal of minor stain attached extensively.
- Cleaning around dental implants and prosthetic restorations.
- Less of burden to teeth and gums due to non-contact method.
- Less of burden to prosthetic restorations.

Fast and effective removal capability

Biofilm on teeth surface can be removed in app. 50.5 seconds per 1/4 dentition.



② The area treated is approximately 60 mm² per tooth.



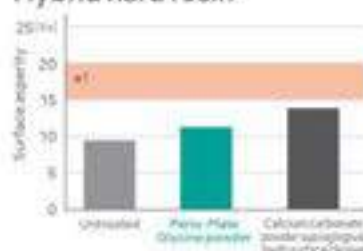
in in-house research

Observation of the treated area at 200-fold with a confocal laser microscope*

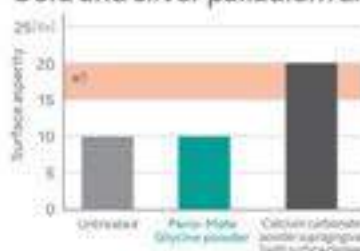
Surface of prosthetic restorations can be treated without damages.

★CLSM Lasertec

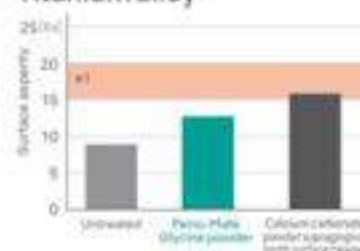
Hybrid hard resin



Gold and silver palladium alloy



Titanium alloy



Source: Oral Health Engineering, School of Oral Health Care Sciences, Tokyo Medical and Dental University

★ Average surface roughness of regular diamond point



Subgingival

Removal of biofilm in periodontal pocket from 3-6 mm below the gingival margin

Removal of biofilm in dental pocket



Before

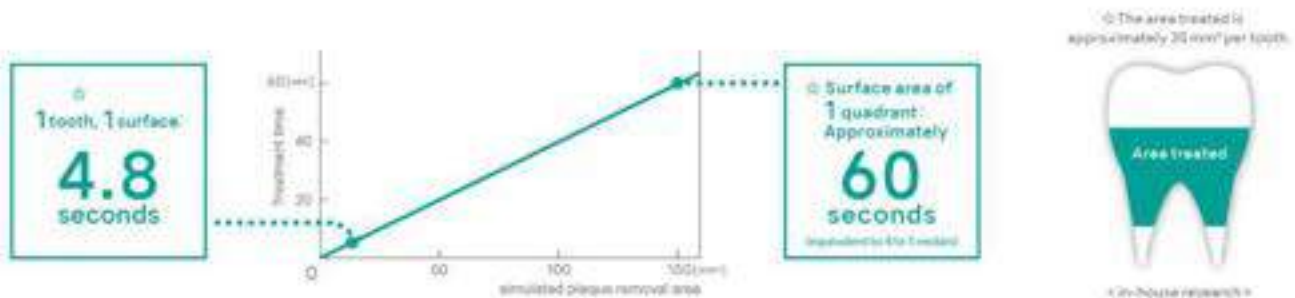


In use

- Biofilm in the periodontal pocket can be removed in approximately 60 seconds per quadrant.
- Deposits can be removed without direct contact with almost none of the extensive biofilm and plaque adhesion remaining and the results are effective. It is possible to clean areas the tip cannot reach with the powder injection effect.
- Optimized the flow of powder based on fluid analysis.
- Compared to other maintenance equipment, less biofilm and plaque remains with wide powder dispersal, even in areas that cannot be seen.
- Smooth powder injection ensures gentle treatment in the periodontal pocket.
- Flexible plastic nozzle tip design ensures accessibility and is gentle to the pocket.

Fast and effective removal capability

Biofilm in the periodontal pocket can be removed in approximately 60 seconds per quadrant.



1. Used for SPT (supportive periodontal therapy) for pockets around 6mm that result from periodontal disease.*
2. Spraying each tooth for 20 seconds (5 seconds per surface) is best to eradicate subgingival biofilm inside delicate periodontal pockets.*
3. Reciprocal motion of the nozzle tip and fine circular movements are vital to remove biofilm effectively.

*Flemmig TF, Hetzel M, Topoll H, Gersch J, Häberlein I, Petersilka G. Subgingival debridement efficacy of glycine powder air polishing. J Periodontol. 2007 Jun;78(6):1002-10. Petersilka GJ, Steinmann D, Häberlein I, Heinecke A, Flemmig TF. Subgingival plaque removal in buccal and lingual sites using a novel low abrasive air-polishing powder. J Clin Periodontol. 2003 Apr;30(4):328-33.

ENDO-MATE TC2

CORDLESS ENDODONTIC HANDPIECE
WITH TORQUE CONTROL AND AUTO REVERSE

Smarter and safer



Advantages

- Slim Head and neck assures higher visibility
- Large LCD panel and access-friendly key
- Lightweight, ergonomic design
- Smart Auto Reverse & Alarm Function
- 5 programs for different file systems
- Last program settings can be memorized
- 90 min. quick charge with non-contact type charger

ENDO-MATE TC2 Complete Sets

ENDO-MATE TC2 Complete Set

MODEL ENDO-MATE TC2 (230V)

ORDER CODE Y1001027

Contents

- MP-F16R Head
- ENDO-MATE TC2 Motor
- Battery charger

Specifications

- Power Supply : AC 230 V 50/60 Hz and Battery pack
- Number of Programs : 5
- Max. Torque : 4 Nm (when using 20:1 head)
- Charge/Continuous use: 90 min / 1.2 h (depending on workload)
- Speed range : 100-2,250 min⁻¹ (With 20:1, 16:1, 10:1, 4:1 geared heads)

ENDO-MATE TC2 Complete MPAS Set

MODEL ENDO-MATE TC2 MPAS (230V)

ORDER CODE Y1001047

Contents

- MPAS-F16R Head
- ENDO-MATE TC2 Motor
- Battery charger

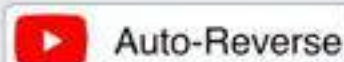
ENDO-MATE TC2 without Head Set

MODEL ENDO-MATE TC2
without Head Set (230V)

ORDER CODE Y1001316

Contents

- ENDO-MATE TC2 Motor
- Battery charger



Spare Parts

ENDO-MATE DT

ENDO MICROMOTOR
WITH TORQUE CONTROL AND AUTO REVERSE

Ultra-slim & compact handpiece

- Smart enough to memorise exact speed and torque settings for up to 9 Ni-Ti files from all major suppliers
- The motor reacts when load reaches the preset level of torque with 3 working modes.
- Full portability with 2-way power supply, either AC or battery driven.
- Optional foot control unit available.



For All Popular Brands of Ni-Ti Files

Up to 9 program settings (speed and torque etc) can be stored in memory at the touch of a button. To switch between stored programs, simply press program button.

Rotation Speed (min ⁻¹)	Gear Ratio	Torque Level (Ncm)
2,000 - 13,000	1:1	
100-3,000	4:1	0.1-0.3
100-650	20:1	0.8-6.5

(ENDO-MATE DT & ENDO-MATE AT)



ENDO-MATE DT Complete Sets

ENDO-MATE DT with 20:1 Head

MODEL ENDO-MATE DT (230V)

ORDER CODE Y141121

Contents

- Control unit • Motor and cord
- AC adaptor • Handpiece stand
- MP-F20R head (20:1)

Specifications

- Power Supply: AC 230 V 50/60 Hz and Battery pack • Number of Programs: 9 • Max. Torque: 7 Ncm (when using 20:1 head)
- Charge/Continuous use: 5 h / 2 h (depending on workload) • Speed range: 100-13,000 min⁻¹ (with 20:1, 4:1, 1:1 geared heads)
- Dimensions: W 92 x D 148 x H 124 mm • Weight: Unit 456 g / Motor handpiece & cord 92 g

ENDO-MATE DT Complete MPAS Set

MODEL ENDO-MATE DTMPAS Set (230V)

ORDER CODE Y1001161

Contents

- Control unit • Motor and cord
- AC adaptor • Handpiece stand
- MPAS-F20R head (20:1)

ENDO-MATE DT without Head

MODEL ENDO-MATE DT W/O (230V)

ORDER CODE Y141124

Contents

- Control unit • Motor and cord
- AC adaptor • Handpiece stand



Spare Parts

iPexII

ADVANCED APEX LOCATOR

Auto-detects the apex accurately in any condition, dry or wet

Based on the results of numerous clinical trials and verification tests, NSK created **SmartLogic**, a next-generation Apex Locator compatible with diverse tooth forms, and that provides superior accuracy in detecting the root apex. At the biologically crucial root apex - the Zone of Precision - the iPexII is able to provide a clear and accurate image of the file tip's location on its LCD panel.

Features

- High-precision root canal measurement generated by using SmartLogic
- Auto-detects the apex accurately in any conditions, dry or wet
- A stylish and compact body consuming very small space
- Three different alert sounds depending on the location of the file tip, ensuring precise procedures
- A three-colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress
- Energy saving and low operation cost



iPexII Complete Set

MODEL iPexII Complete Set ORDER CODE Y1002208

Contents

- Control unit • iPexII Probe (1.8 m) • iPexII File Clip (3 pcs.) • Lip Hook (3 pcs.)
- AAA manganese dry batteries (3 pcs.) • iPexII Tester

Specifications

• Power Supply	For 1.5 V AAA (LR03 or R03) batteries
• Continuous use	Approx. 60 hours
• Dimensions	W60 x D60 x H86 mm
• Weight	76 g (unit without batteries)



Spare Parts

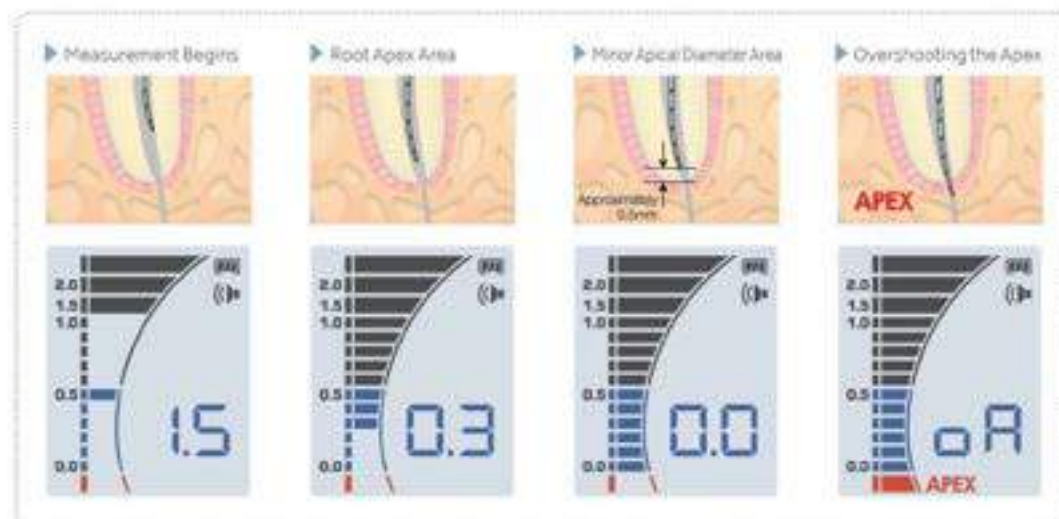
iPexII Product Highlights

Next-generation SmartLogic controller

NSK's SmartLogic controller combines two advanced technologies to accurately analyse signals. iPexII SmartLogic technology removes virtually all signal interference from the root canal itself to precisely detect the location of the apex.

- iPexII SmartLogic alternates between two separate frequencies to take measurements. By reducing the noise that interferes with signal analysis, it generates a high-precision wave system that does not require a filtering circuit.
- iPexII SmartLogic uses the whole wave system to analyse the extracted frequency. This produces steady measurement analysis even under varying conditions in the root canal while retaining a constant link to file insertion progress.

The three-colour LCD visual monitor screen



Monitoring the canal depth

For integration into Endodontic instruments (ENDO-MATE TC2 / ENDO-MATE DT / ENDO-MATE AT / Contra-angle) The NSK endodontics products and iPexII ensure safe, precise and efficient root canal procedures.



Surgic Pro2

Go beyond.



3 Progress Points

OPERABILITY

SAFETY

WIRELESS
EXTENSIBILITY

LINE-UP

COMPLETE SET with X-SG20ML

OPTIC **MODEL : Surgic Pro2 OPT**
ORDER CODE : Y1500515

Contents :

- Control Unit
- SGL80M Optic Micromotor
- X-SG20ML Optic Handpiece (20:1 Reduction)
- FOOT CONTROL WIRELESS
- Irrigation tube (Pack of 3) and other accessories



COMPLETE SET with SG20M

NON-OPTIC **MODEL : Surgic Pro2 NON-OPT**
ORDER CODE : Y1500516

Contents :

- Control Unit
- SG80M Non-Optic Micromotor
- SG20M Handpiece (20:1 Reduction)
- FOOT CONTROL WIRELESS
- Irrigation tube (Pack of 3) and other accessories

Specifications :

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

OPTION

Wireless Link Tools (Surgic Pro2 x VarioSurg 3)
Connecting via the compact Wireless Link Set allows for operation of 2 surgical system with a single wireless foot control

MODEL : Link Module
ORDER CODE : Z1402001
● Link Box ● Link Cable



MODEL : Link Stand2
ORDER CODE : Z1452001



Osseo 100+ (implant Stability Measurement System)

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

MODEL : Osseo 100+
ORDER CODE : Y1004178
Manufacturer
Integratation Diagnostics Sweden AB



Carrying Case for Surgic Pro2

Carrying case for components and accessories of Surgic Pro2

MODEL : Carrying Case
ORDER CODE : Y1500395
● dimensions: W534 x D 427 x H 207 mm



054

SG-01



Spare Parts



Washable in the thermodisinfectior

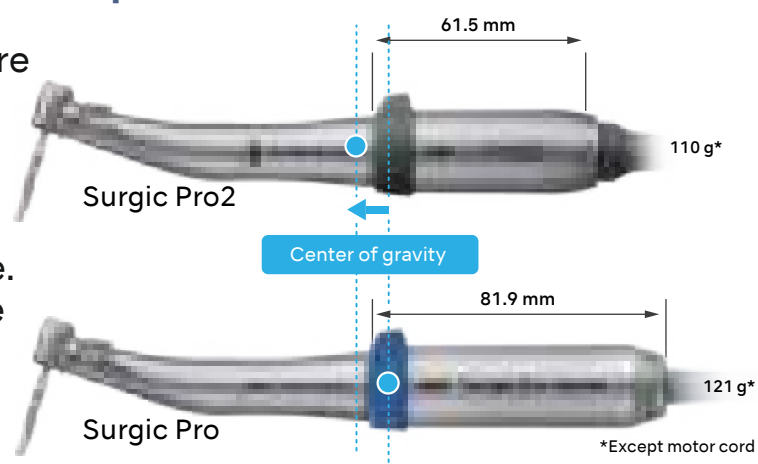


Autoclavable up to 135c

Surgic Pro2 Product Highlights

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

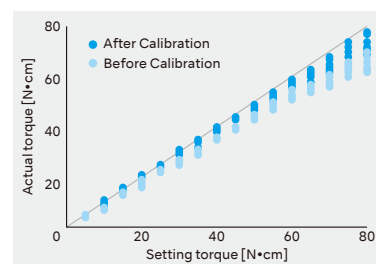
Weight
9.1% DOWN

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 successful 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.



**For Surgic Pro, please see the last supplement pages*

WIRELESS EXTENSIBILITY

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

Variosurg4
Ultrasonic Bone Surgery

FOOT CONTROL
WIRELESS

Surgic Pro2

iPads

Osseo 100+
Osseointegration Monitoring Device

Linked with Osseointegration Monitoring Device, Osseo 100+

The Osseointegration Monitoring Device, "Osseo 100+" measures the implant stability 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+.



Introduction

Linked with the "VarioSurg4" ultrasonic bone surgery system

By wirelessly connecting the oral surgery micromotor system "Surgic Pro2" and the ultrasonic bone surgery system "VarioSurg 4" via Bluetooth®, With the NSK link stand the two units can be safely stacked to save space.



Link Stand 3



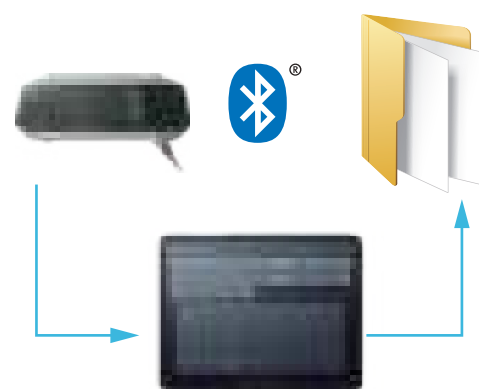
Link with the oral surgery micromotor system "Surgic Pro2"

By connecting with the oral surgery micromotor system "Surgic Pro2" via Bluetooth®, it can be operated with a single foot control. Switching between the two systems is easy, allowing for smooth operation.



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+.



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 (hanger 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

Surgic AP2 **Wireless Foot Control**

The ultimate fusion of precision and simplicity.

Designed specifically for oral and implant surgery, Surgic AP2 delivers all the power and performance you will ever need for these procedures. 80N of torque, together with a wide speed-range of 200-40,000min⁻¹ offers the flexibility and fast response required for a variety of surgical procedures. The compact console is user-friendly, simple to operate, and has been specifically designed for the aseptic theatre environment.



Complete Set Non-Optic

Surgic AP2 Non-Optic Complete Set with S-Max SG20M Handpiece

Model Surgic AP2 (230V)

Order Code Y1500766

Contents

- Control Unit •SG20M Handpeice (20:1 Reduction) CA13020001
- Non-Optic Micromotor (SG80MS) Y1500716
- FC-84 Wireless Foot Control (IPX8 certified) ZF16030001
- Irrigation Tube (5pcs) and Other Accessories Y900113

Specification

Control Unit

- Power Consumption Max.240V
- Torque 5-80N•cm
- Power Supply : AC100-220V 50/60Hz
- Max.Pump Output: 75mL/min
- Number of Programs: 8
- Dimensions: W245 x D235 X H90mm
- Weight 2.1kg

Micromotor (SG80MS)

- Input Voltage DC36V
- Rotation Speed 200-40,000min⁻¹
- Brushless
- Weight 0.3kg (with motor cord)
- Cord Length 2.0m

FC-84 Wireless Foot Control

- Battery operated
- * Three AA/Mignon/LR6 1.5 V alkaline batteries
- Dimensions W155xD155x H149mm
- Weight 0.4kg



Surgic AP2 Product Highlights

SG20M Contra-angle 20:1 Reduction

- Head size is even smaller than conventional SG20 (Mini head)
- Double Sealing system
- Stressless body shape
- Excellent durability



Double Sealing System



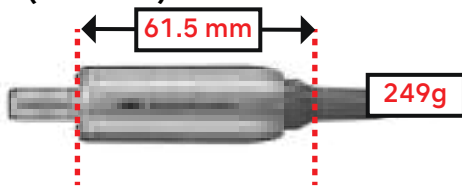
SG80MS Non-Optic

- Powerful torque 80N
- Smaller and lighter than conventional motor
- Excellent durability and autoclavable

SG50MS (Conventional Model)



SG80MS (For AP2)



Newly Designed Pump

The irrigation pump provides consistent and steady flow, operating quietly in the background. Irrigation tube setup is simple and straightforward, fitting seamlessly in the compact and elegant design of Surgic AP2.



Large Colour LED display



8 individual program options

NSK Surgic AP2 can memorise 8 complete program options. Each program includes speed, torque, coolant flow, and rotation direction. Program settings continue to be stored even when supply power is turned off. Each program setting can be easily modified during operation. To save a program parameter, you simply press&hold the Memory button.

Wireless footcontrol (FC-84)

Bluetooth connectivity allows selection of optimal position without worrying about cable length. The energy efficient power supply uses 3 AAA batteries, which last about 6-months.



Carry Case (Optional)

The NSK Carrying Case can accommodate all Surgic AP2 components.

Model Carry Case (Surgic AP2)

Order Code Y1500785

*Dimensions: W534 X D427 X H207 mm



Ti-Max X-DSG20L Dismantling Surgical Handpiece

Dismantlable contra-angle handling up to 80 Ncm of torque



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 (X-DSG20L) • Push Button Chuck
 • External and internal cooling • Double Sealing System
 • Max. Torque : 80 Ncm • Max Speed : 2,000 min⁻¹

Double Sealing System

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



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.



Implant & Surgical Handpieces

Ti-Max X-SG20ML 



Optic MODEL X-SG20ML ORDER CODE CA13030001

- 20:1 Reduction** • Titanium Body with Scratch Resistant DURAGRIP
 • Cellular Glass Optics • Push Button Chuck • Mini Head
 • External water injection • Double Sealing System
 • Max. Torque : 80 Ncm • Max Speed : 2,000 min⁻¹

Ti-Max X-SG93L



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
 • External cooling • Push Button Chuck
 • For FG burs (Ø1.6) • Max Speed : 120,000 min⁻¹

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
 • External cooling • Push Button Chuck
 • For CA burs (Ø2.35) • Max Speed : 40,000 min⁻¹

Ti-Max X-SG65L



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
 • External cooling • For HP burs (Ø2.35)
 • Max Speed : 40,000 min⁻¹



Ti-Max Z-SG45L

The surgical handpiece Ti-Max Z-SG45 with its unique 45° head angle and straight body, allows easy access to previously hard to reach or inaccessible areas. When working on anterior teeth the handpiece angulation makes it easy to use adjacent teeth as finger rests. The newly developed 'DURAGRIP' offers safe and secure handling of the handpiece during surgical procedures as a result of a special surface treatment. Ti-Max Z-SG45 offers a new approach to surgical treatment.



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
 - For FG burs (Ø1.6 / 20-25 mm) • Anti Head System
 - DLC Coating • Max Speed : 120,000 min⁻¹

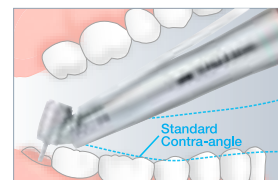
Triple Water Jets

NSK's triple water jets efficiently cool the entire bur and because it is a solid water jet instead of water and air spray there is no risk of emphysema and safe surgical procedures can be guaranteed.



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, using burs of up to 25mm makes instrument ideal for splitting roots.



Implant Handpieces

S-Max SG20M 



Non-Optic MODEL SG20M ORDER CODE CA13020001

- 20:1 Reduction**
- Stainless Steel Body • Push Button Chuck
 - External water injection • Double Sealing System • Mini Head
 - Max. Torque : 80 Ncm • Max Speed : 2,000 min⁻¹



Spare Parts



Washable in the thermodisinfectator



Autoclavable up to 135c

Micro Surgery Handpieces **Non-Optic**

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



Lubrication



Micro Saw Handpieces Non-Optic

1.8 mm Reciprocating



MODEL SGR2-E ORDER CODE SH162
3.2:1 Reduction • With External Spray Nozzle

17° Oscillating



MODEL SGO2-E ORDER CODE SH164
3.5:1 Reduction • With External Spray Nozzle

3° Sagittal



MODEL SGT2-E ORDER CODE SH163
3.2:1 Reduction • With External Spray Nozzle

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

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

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

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

VarioSurg4

POWERFUL ULTRASONIC SURGICAL SYSTEM
FOR BONE SURGERY

Cutting chair time with exceptional proficiency



The Essential Ultrasonic Bone Surgery System for Implant Treatments

The development of the VarioSurg ultrasonic bone surgery system continues with the introduction of the VarioSurg 4. With pioneering high power ultrasonic technology and a diverse lineup of tips for various procedures, the VarioSurg 4 allows for swift and intricate bone removal and shaping. It minimizes damage to surrounding soft tissue and reduces invasiveness compared to conventional bone and micro saws. With new advantages like wireless foot control integration, compatibility with Surgic Pro2, and a refined, stylish design, VarioSurg 4 is set to exceed clinicians' expectations while creating a stress-free environment.

Maximum Output. Minimal Chair Time

Surg Mode delivers maximum power output, controlled through feedback and auto-tuning functions. In conjunction with the precision VarioSurg tips, this contributes to more efficient treatments and reduced chair time for patients.

Complete Sets



Optic

VarioSurg4 Complete Set MODEL VarioSurg4 (230V)

ORDER CODE Y1500706

Contents

- Control unit • LED Handpiece with 2m cord • FC-86 Foot Control
- Sterilisation Cassette • Handpiece Stand • Irrigation tube (3 pcs) and other accessories
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

Optic

VarioSurg4 Complete Set MODEL VarioSurg4 (230V) Non FT
without Foot Control ORDER CODE Y1500712

- Control unit • LED Handpiece with 2m cord • Sterilization Cassette
- Handpiece Stand • Irrigation tube (3 pcs.) and other accessories
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

Specification

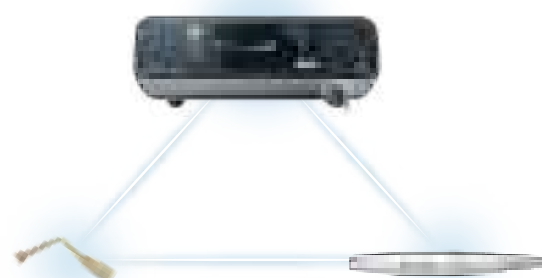
Control Unit

- Frequency : 28-32 kHz
- Power Supply: AC 100-240V 50/60 Hz
- Max. Pump Output : 76 mL/min
- Programs: SURG x 5, ENDO x 2, PERIO x2
- Dimensions: W 245 x D235 x H 90 mm

VarioSurg4 Product Highlights

Outstanding 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.



Surgic Pro2 × VarioSurg4

The Link Function

Both SurgicPro2 / VarioSurg 4 units have built-in Bluetooth, so they can be linked without cables or modules .



Cable / Module			Not Required
Link Stand	 Link Stand MODEL VarioSurg3 Link Set (E) ORDER CODE Y1002729	 Link Stand2 MODEL Link Stand2 ORDER CODE Z1452001	 Link Stand3 MODEL Link Stand 3 ORDER CODE ZA16230001

TiN coated tip

TiN coated bone cutting tips for superior sharpness (for bone cutting / bone resection and bone reshaping / tooth extraction) Sharpening the cutting edge of the tip increases cutting power achieves a sharp cutting edge. It also prevents clogging at the tip.



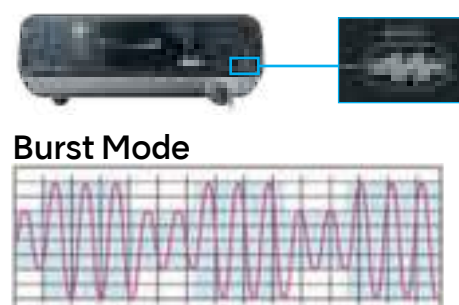
Adjustable LED light

LED light switch effortlessly between three levels of light intensity.



Advanced BURST mode

Burst Mode delivers small, periodic vibrations in response to a consistent vibration, creating a suitable 'hammer effect' for cutting hard cortical bone by introducing variations in vibration. This mode is switchable during procedures, and with three adjustable Burst Mode levels, it allows for easy mode and level selection based on the needs of the surgical procedure and bone conditions.



VarioSurg Ultrasonic Surgery Tips (TiN coating)
Bone Surgery

		Power Setting S 10%-150%	MODEL H-SG1 ORDERCODE Z305151
• Dot mark 3, 6 and 9 mm from top of tip • Five teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG1A ORDERCODE Z305138
• Dot mark 3, 6, 9, 12 and 15 mm from top of tip • Five teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG2R ORDERCODE Z305102
• Right curved tip* • Three teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG2L ORDERCODE Z305103
• Left curved tip* • Three teeth • 0.6 mm thick			
		Power Setting S 10%-150%	MODEL H-SG8 ORDERCODE Z305155
• Dot mark 3, 6 and 9 mm from top of tip • Three teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG8A ORDERCODE Z305139
• Dot mark 3, 6, 9, 12 and 15 mm from top of tip • Three teeth • 0.6 mm thick			
		Power Setting S 10%-150%	MODEL H-SG8R ORDERCODE Z305156
• Right curved tip* • Three teeth • 0.6 mm thick			
		Power Setting S 10%-150%	MODEL H-SG8L ORDERCODE Z305157
• Left curved tip* • Three teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG14R ORDERCODE Z305122
• Right curved tip* • Five teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG14L ORDERCODE Z305123
• Left curved tip* • Five teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG19 ORDERCODE Z305135
• Dot mark 3 mm from top of tip • Five teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG30 ORDERCODE Z305137
• Sharp edge • 0.5 mm thick			
		Power Setting S 10%-80%	MODEL SG58 ORDERCODE Z305141
• Dot mark 3, 6 and 9 mm from top of tip • Three teeth • 0.6 mm thick			
		Power Setting S 10%-80%	MODEL SG68 ORDERCODE Z305143
• Dot mark 2 and 4 mm from top of tip • Three teeth • 0.6 mm thick			
• The direction of the tip's curve is defined by the tip's anterior view.			

VarioSurg Ultrasonic Surgery Tips (TiN coating)
Scraper

		Power Setting S 10%-80%	MODEL SG3 ORDERCODE Z305104
• Triple sided edge spatula tip			
		Power Setting S 10%-80%	MODEL SG4 ORDERCODE Z305105
• Edge spatula tip			
		Power Setting S 10%-80%	MODEL SG5 ORDERCODE Z305106
• Rounded edge spatula tip			

VarioSurg Ultrasonic Surgery Tips (TiN coating)
Extraction

		Power Setting S 10%-80%	MODEL SG17 ORDERCODE Z305132
• 0.7 mm thick			
		Power Setting S 10%-50%	MODEL SG18R ORDERCODE Z305133
• Right angled tip* • 0.7 mm thick			
		Power Setting S 10%-50%	MODEL SG18L ORDERCODE Z305134
• Left angled tip* • 0.7 mm thick			
* The direction of the tip's angle is defined by the tip's anterior view.			

VarioSurg Ultrasonic Surgery Tips Socket Lift (Crestal Approach)

		Power Setting S 10%-50%	MODEL SCL1 ORDERCODE Z305170
• Internal irrigation			
		Power Setting S 10%-80%	MODEL SCL1D ORDERCODE Z305171
• Internal irrigation • Diamond coated			
		Power Setting S 10%-50%	MODEL SCL2D ORDERCODE Z305182
• Internal irrigation • Diamond coated			
		Power Setting S 10%-50%	MODEL SCL3 ORDERCODE Z305172
• Internal irrigation			
		Power Setting S 10%-80%	MODEL SCL3D ORDERCODE Z305173
• Internal irrigation • Diamond coated			
		Power Setting S 10%-80%	MODEL SCL4D ORDERCODE Z305184
• Internal irrigation • Diamond coated			
		Power Setting S 10%-50%	MODEL SCL5 ORDERCODE Z305174
• Internal irrigation			
		Power Setting S 10%-80%	MODEL SCL5D ORDERCODE Z305175
• Internal irrigation • Diamond coated			


Connective Tissue Graft

Apicoectomy


VarioSurg Ultrasonic Surgery Tips (Diamond coating)

Sinus Lift

Power Setting **S** 10%-80%



MODEL SG6D ORDER CODE Z305107

S 10%-50%



MODEL SG7D ORDER CODE Z305108

VarioSurg Ultrasonic Surgery Tips Sinus Membrane Detachment

S 10%-50%



MODEL SG9 ORDER CODE Z305110

• Flat circular convex elevator • Angled at 90°

S 10%-50%



MODEL SG10 ORDER CODE Z305111

• Flat circular convex elevator • Angled at 135°

S 10%-50%



MODEL SG11 ORDER CODE Z305112

• Cone compressor

VarioSurg Ultrasonic Surgery Tips (Diamond coating) Implant Preparation

S 10%-50%



MODEL SG15A ORDER CODE Z305124

• Diameter of the tip end: 0.7 mm

S 10%-50%



MODEL SG15B ORDER CODE Z305125

• Diameter of the tip end: 1.3 mm

S 10%-50%



MODEL SG15C ORDER CODE Z305126

• Diameter of the tip end: 0.9 mm

S 10%-50%



MODEL SG15D ORDER CODE Z305127

• Diameter of the tip end: 1.3 mm

S 10%-50%



MODEL SG16A ORDER CODE Z305128

• Diameter: 2.0 mm

S 10%-50%



MODEL SG16B ORDER CODE Z305129

• Diameter: 2.0 mm

VarioSurg Ultrasonic Tips

Scaling

Power Setting **S** 10%-50%



MODEL G1-S ORDER CODE Z305113

VarioSurg Ultrasonic Tips

Perio (Root Planing)

P 5%-100%



MODEL P20-S ORDER CODE Z305114

• Straight tip

P 5%-100%



MODEL P25R-S ORDER CODE Z305115

• Right curved tip*

P 5%-100%



MODEL P25L-S ORDER CODE Z305116

• Left curved tip*

* The direction of the tip's curve is defined by the tip's anterior view.

VarioSurg Ultrasonic Tips Perio-Control Maintenance (V-Tip)

P 5%-100%



MODEL V10-S ORDER CODE Z305117

• Plastic Tip is not included • Includes E-Tip replacement wrench



MODEL V-P10 ORDER CODE Y900184

• Pack of 3 • V10-S holder is not included



MODEL V-P11R ORDER CODE Y1002165

• Right curved type* • Pack of 3 • V10-S holder is not included



MODEL V-P11L ORDER CODE Y1002166

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



MODEL V-P12 ORDER CODE Y1002167

• Pack of 3 • V10-S holder is not included

■ V-P11R/L, V-P12 can not be used for VarioSurg (Previous model)

* The direction of the tip's curve is defined by the tip's anterior view.

VarioSurg Ultrasonic Surgery Tips (Diamond coating)

Endodontics

E 5%-50%



MODEL E30RD-S ORDER CODE Z305118

• For posterior teeth (right angled)

E 5%-50%



MODEL E30LD-S ORDER CODE Z305119

• For posterior teeth (left angled)

E 5%-50%



MODEL E31D-S ORDER CODE Z305120

• For anterior and posterior teeth (70°)

E 5%-50%



MODEL E32D-S ORDER CODE Z305121

• For anterior teeth (90°)



Autoclavable up to 135c



Washable in the thermidisinfector

iSD900

Faster and Safer

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.



Advantages

- Universal to major implant systems
- Reliable and durable contra-angle handpiece with excellent accessibility
- Audible beeping noise to indicate reverse rotation
- Standard battery (AAA Ni-MH) is easily replaced on site
- LCD control panel offering outstanding visibility and operability

iSD900 Product Highlights

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.



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⁻¹, 20 min⁻¹, and 25 min⁻¹ speeds according to procedure requirements.



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 Calibrator

iSD900 Complete Set

MODEL iSD900 (230V) ORDER CODE Y1001358

Contents

- iSD900 Motor • iSD-HP • Quick Charger for iSD900
- Torque Calibrator • On / Off Switch Lever

Specifications

- Torque : 10-40 Ncm in 1 or 5 Ncm increments
- Speed : 15, 20, 25 min⁻¹
- Weight : 148 g (iSD900 Motor + iSD-HP)
- Charging Time : Around 90 min*
- Continuous Operation Time : Max 72 min*

* These may change according to the usage environment.

Osseo 100

Removes Doubt

Osseointegration Monitoring Device

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

Reduce treatment time

One stage, immediate loading, early loading.

Manage higher risk patients

Compromised bone, smokers, bruxism, diabetes, cancer, osteoporosis, grafts, membranes etc.

Puts higher demand on more accurate diagnostic techniques to avoid failures.



3-step procedure

1. The MultiPeg™ 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™. 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 universal ISQ scale – from 1 to 99. The higher the ISQ value, the more stable the implant.



Osseo 100 Product Highlights

The uncomplicated operation that measures ISQ allows the implant loading period to be planned in advance. The reconstruction of crowns and bridges can be predicted 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.

About ISQ

Decreasing micro mobility with increasing ISQ values

The below is not a clinical recommendation from NSK

ISQ Value

60

70

More time
required for implant
osseo-integration

ISQ values measured
for one or two stage full or
partial cases

ISQ values
measured for single tooth
one stage and/or
immediate loading cases

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REUSABLE MultiPeg™

- For all major implant systems *
- Tissue friendly, durable titanium
- Autoclavable appx. 20 times
- Optimal platform fit
- ISQ Standard Calibrated

*There are different MultiPegs™ available made to fit different implant system and types. Please scan the QR code to access the updated MultiPeg™ List.



Please scan the QR code
to access the updated
MultiPeg™ List.

MODEL Osseo 100 REF Y1004175

Contents

- Osseo 100 Instrument
 - MultiPeg Driver
 - Mains adapter and plugs
- MultiPeg™ is not included, sold separately.

Specifications

- Power input: 5VDC, 1 VA
- Battery full charge time: appx. 3 hours *
- Charger input: 100-240 VAC, 5VA
- Battery continuous drive time: appx. 1 hour *
- Instrument weight: 100 g

*Varies depending on usage situations.



Accessories & Spare Parts

MODEL	MultiPeg Driver	Sterile cover	Mains adapter	EU plug	UK plug	AU plug	US plug
REF	55003	55105	55093	55094	55095	55096	55097



Autoclavable up to 135c



Washable in the thermodisinfectant

Automatically lubricates

iCare sets a new standard for handpiece maintenance systems. In one stylish and compact body, it offers you both ease of use and multiple functions to achieve complete lubrication. The proper solution volume is preset based on handpiece type, and maintenance can be initiated at the touch of a button.

The chuck lubrication system removes dirt and cutting powder from the chuck to increase durability. The Air Purge Select Mode lets you alter purge time depending on the situation for truly comprehensive maintenance. iCare is also its stylish and compact body, iCare is also space efficient and totally in harmony with your working environment.



iCare Complete Sets

Dual Standard connectors + Dual Rotation Connectors

MODEL iCare C2 Type

ORDER CODE Y1002787

Contents

- iCare unit • Power cord
- Chuck Lubricating Nozzle
- Maintenance oil for iCare (1L)
- Oil absorber sheet • Air tube

Specification

- Power Supply : AC 100-240V 50/60Hz
- Air Pressure : 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
- Weight : 6.5kg (C2 Type / C3 Type)
- Dimension : W280 x D240 x H250 mm
- Solution Tank Capacity : 1.2L

single Standard Connector + Triple Totation Connectors

MODEL iCare C3 Type

ORDER CODE Y1002788

- Connects only to Midwest 4-hole type
- Air piping is necessary (5.0-6.0 kgf/cm²)
- Do not use iCare to lubricate air scalers and Phatelus air motors. The iCare lubricating system is not designed to lubricate those particular products. Maintain air scalers* and Phatelus air motors as described in the operation manual for each product.
- If blood infiltrates inside a handpiece, iCare may not totally lubricate the internal handpiece components, and internal blood coagulation may cause product failure. In this case, NSK recommends to immediately lubricate those handpieces with PANASPRAY Plus.

* except Ti-Max S970

iCare Adaptors

MODEL PTL Adaptor	ORDER CODE Z257010	• For NSK High Speed Handpieces for PTL-CL-LED Coupling
MODEL QD ADAPTOR	ORDER CODE 257011	• For NSK high speed handpieces for QD connection
MODEL B2/M4 Adaptor	ORDER CODE T904	• For Borden 2 hole High Speed Handpieces
MODEL KV Adaptor	ORDER CODE Z257020	• For KaVo* High Speed Handpieces for MULTiflex* LUX Coupling
MODEL SR Adaptor	ORDER CODE Z257023	• For Surona* High Speed Handpieces for Quick Coupling
MODEL WH Adaptor	ORDER CODE Z257021	• For W&H* High Speed Handpieces for Roto Quick Coupling
MODEL BA Adaptor	ORDER CODE Z280022	• For Bien-Air* High Speed handpieces for Unifix* Coupling
MODEL F-Type Adaptor	ORDER CODE Z280042	• For ENDO-MATE TC2, DT, AT Heads

Check with the dealer for the adaptors to mount other manufacture's handpieces



iCare Product Highlights

Purging select mode

After lubrication, you can select from appropriate modes offering different purge lengths.



Chuck lubrication function

The chuck lubrication function completely removes dirt and cutting powder from the chuck.



HP head filter prevents mist leaks (Optional)

HP Head Filter is made to absorb any spray mist generated, which prevents mist leaks.



Easy to clean

iCare's front door can be completely removed to allow fast, easy cleaning of the system.



Safe operation with a range of alarm functions

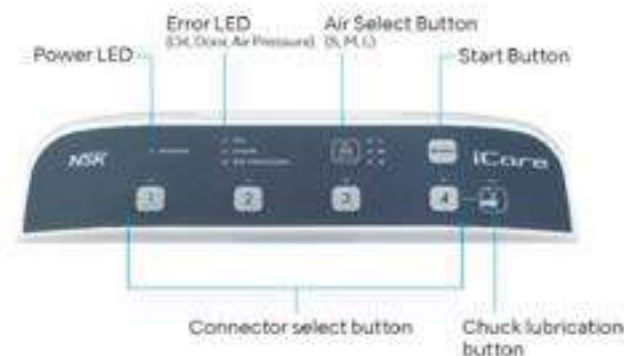
The alarm LED ensures safe and secure maintenance by alerting you to various situations, including inadequate solution, air pressure and an unlocked front door.

Advantages

- Preset solution volume based on handpiece type (high-speed handpieces, low-speed handpieces)
- Thorough lubrication with simple operation
- Chuck lubrication function ensures that the chuck is thoroughly lubricated
- Purging select mode ensures complete removal of excess oil
- Integrated large oil tank (1.2 L) reduces burden of refill

Ergonomic and easily readable large panel

Simple One-Touch Operation to Start Lubrication.



High speed handpieces

iCare meticulously lubricates the components of high speed handpieces.



Low speed handpieces

Low speed handpieces incorporate gearing systems that require extra solution penetration. NSK rotation system guarantees optimum oil delivery to the internal components of all low-speed handpieces.



Installation

iClave 24

The new autoclave with a 24-litre chamber encapsulates top performance, the ultimate user experience and technology, resulting in effective, worry-free sterilisation.



The Comfort You Wanted

Sterilising dental instruments is crucial for patients' and operators' safety. The new iClave 24 autoclave perfectly combines performance, user experience, and technology, ensuring an effective, comfortable, and worry-free experience. Its 24-litre stainless steel chamber with 5 trays of 2 different dimensions maximises the actual capacity. In addition, the new high-efficiency steam generator allows for superior performance, resulting in perfectly sterilised equipment in less time.

iClave 24 Complete Sets

MODEL iClave 24 (MADE IN ITALY)

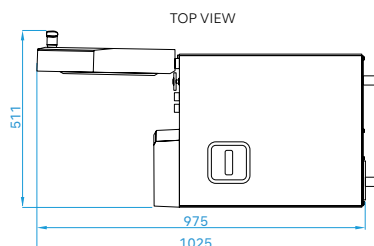
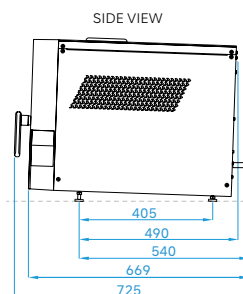
ORDER CODE 92412B0100P (Including printer)

ORDER CODE 92412B0100 (Excluding printer)

Specification

- Supply Voltage CE : 230 V - 50/60Hz
- Chamber Dimensions : Φ 265 x 475 mm
- Chamber Capacity: 24 L
- External Dimension : W 451 x H 492 x D 669 mm
- Weight : 55 kg
- Maximum Power Consumption : 2,350 W
- Cycle Water Consumption*: 700 ~ 800 cc
- Tank Capacity: 5 litres each
- Sound Level: 60 dB(A)

* Water consumption varies depending on device operating conditions (e.g. chamber temperature, cycle selected, etc.).



Sterilisation Cycles

Cycle	Temperature	Sterilisation	Drying	Typical Load	Typical Load Cycle Time	Max Load	Max Load Cycle Time
B Universal	134°C	4' 00"	10'	2 kg	41 mins	7 kg	59 mins
B Prion	134°C	18' 30"	14'	2 kg	62 mins	7 kg	78 mins
B Fast	134°C	3' 30"	5'	-	-	0.7 kg**	29 mins
B 121	121°C	20' 30"	16'	2 kg	67 mins	7 kg	82 mins
S Fast	134°C	3' 30"	7'	-	-	2 kg	32 mins

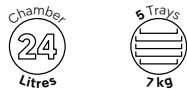
** Use only one tray in the second slot, starting from the bottom. Only for solids, hollow wrapped and unwrapped.



iClave24 Product Highlights

Optimised load capacity

Not all autoclaves with a 24-litre chamber are the same. With iClave 24, that is the actual capacity: up to 7 kg –at the top of its category –thanks to its 5-tray system that allows you to exploit all the room inside the chamber.



Fast cycle, excellent performance

The new high-efficiency steam generator with stainless steel coil injects the steam into the chamber, into the middle of the tray holders, which act as heat accumulators, enabling a more even distribution of heat and lessening its impact on the instruments. The heat accumulated by the tray holders is released to the load during the drying phases, guaranteeing perfect, rapid drying. Together with the design of the chamber, the trays and the water circuit, this system enables rapid Class B and Class S cycles.



Internal ventilation

The internal ventilation system is effective and durable. It is also a very quiet ventilation system, which translates into long-lasting performance and more comfort for the operator.



A next-generation experience



iClave 24's 4.3" capacitive colour touchscreen is extremely straightforward, and can even be used while wearing gloves. This way, managing every function –from programming cycles to running tests –is a safe and satisfying experience, ensuring perfect sterilisation.

Ergonomic down to the tiniest details

An ergonomic design is essential to work comfortably and effectively. Every detail, every function of iClave 24 is designed to meet this need: the design of the interior, how the autoclave is easy to open for cleaning and maintenance, and the capacitive touchscreen. Everything works towards the same goal: maximum comfort for the operator.



Efficient Versatile Practical

New Demin30 demineralization system

Demin30 is a demineralization system with mixed-bed and ion-exchange resin, which enables the complete demineralization of the water.

Easy to install on various autoclave models, offering optimal performance and protection of sterilised instruments, extending the life of autoclaves or other reprocessing devices.

The filter can be positioned on the worktop or inside the sterilisation cabinet.

Demin30 can also supply demineralized water to a second autoclave.



1 EFFICIENCY



Demin30 filters up to 580 litres* of water with a single cartridge, guaranteeing an excellent level of purification. Its automatic water loading and unloading feature saves time, maximising efficiency and convenience.

*Calculated based on water with a conductivity of 250µS/cm

2 VERSATILITY



Modular system for supplying one or two autoclaves, also available in an EN 1717 compliant version for water back-flow prevention. Installation adaptable to various autoclave models.

3 USABILITY



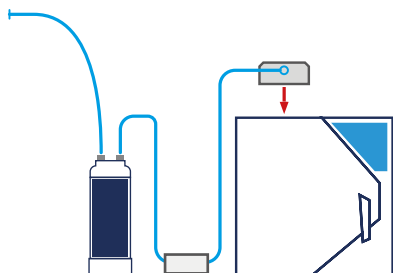
Cartridges can be replaced quickly with no need for tools. The cartridge must be replaced when the water conductivity exceeds 15 µS/cm.

The 24L autoclaves from NSK Dental Italy give an automatic warning when this value is reached to indicate that the filter needs to be replaced.

Demin30

SYSTEM FOR THE COMPLETE DEMINERALIZATION OF WATER

NEW

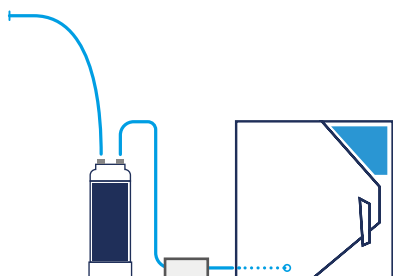


MODEL **Demin30 - Kit EN 1717**
CODE **98001010**

MODEL **Demin30 - Kit 2nd Autoclave EN 1717**
CODE **98001030**

Kit supplied with a top-loading water system, in accordance with EN 1717.

EN 1717 Standard: "Protection against pollution of potable water in water installations and general requirements for devices to prevent pollution caused by back-flow"



MODEL **Demin30 - Kit**
CODE **98001000**

MODEL **Demin30 - Kit 2nd Autoclave**
CODE **98001020**

Kit supplied with a direct connection system at the back of the autoclave using the supplied water filling hose (Ø 1/4") and solenoid valve (24 VDC and 0.5 A).



MODEL **Demin30 Demineralization Resin Filter**
CODE **230000**

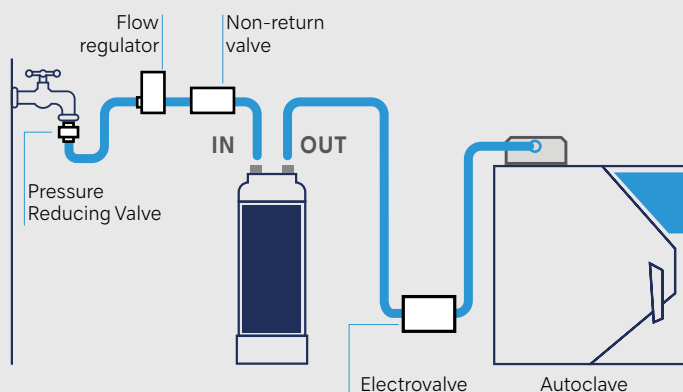
Demin30 Cartridge
Dimensions: diameter 135 mm, height 385 mm

USE AND INSTALLATION

Demin30 is a system for the automatic supply of demineralized water for autoclaves. The filter must only be supplied with potable water, with an inlet pressure between 2 and 3 bar. Thanks to the supplied hose, it is possible to drain used water automatically.

REPLACING THE CARTRIDGE

Cartridge replacement can be carried out by the clinic staff without the use of tools. It must be replaced within a maximum of one year after installation, even if the cartridge is not spent. Dispose of the used cartridge according to Decision 2014/955/EU (CER 15 02 03).



PANA SPRAY Plus

PANA SPRAY Plus is a specially formulated, highly effect general handpiece and air motor lubrication. Frequent application of PANA SPRAY Plus will assure handpiece and air motor performance and durability. Apply PANA SPAY Plus every time before autoclaving any handpiece / air motor.



MODEL Pana Spray Plus **ORDER CODE** Z182100

- For High & Low speed handpieces, and air motors
- 480 mL • Alcohol-contained lubricant

MODEL Pana Spray Plus Package **ORDER CODE** Y900630

- PANA SPRAY Plus pack of 6

PANA SPRAY Plus Nozzles

135°C
SSS

MODEL Phatelus Spray Nozzle **ORDER CODE** P183090

- For High speed attachments and air motors which attach to PTL and FM Couplings

MODEL KV Nozzle **ORDER CODE** Z090051

- For Kavo® MULTIflex® LUX

MODEL SR Nozzle **ORDER CODE** Z090052

- For Sirona® Quick Coupling

MODEL WH Nozzle **ORDER CODE** Z090054

- For W&H® Roto Quick

MODEL BA Nozzle **ORDER CODE** Z090053

- For Bien-Air® Uniflex®

MODEL MHL Splay Nozzle **ORDER CODE** Z090056

- For Morita TwinPower turbine 4H Coupling

MODEL QD Splay Nozzle **ORDER CODE** Z096090

- For QD Coupling

MODEL E-Type Spray Nozzle **ORDER CODE** Z019090

- For E-Type* attachments

MODEL F-Type Spray Nozzle **ORDER CODE** Z256090

- For ENDO-MATE TC2, DT, AT heads

MODEL Tip Nozzle **ORDER CODE** Z020010

- For M4, B2

M4 / B2

* E-Type: conformable to ISO3964.



Care & Maintenance

Multi Stands

NSK Multi Stand is the convenient way to organize and store NSK high and low speed handpieces and heads.



MODEL Multi Stand Complete
ORDER CODE Z036

- For NSK high speed and low speed attachments



MODEL Multi Stand for Phatelus
ORDER CODE Z036002

- For 3 x Adaptor A • 2 x Adaptor C



Multi Stand Handpiece Adaptors



MODEL Adaptor A **ORDERCODE Z036201**
• For High speed handpieces and Phatelus air motors



MODEL Adaptor B **ORDERCODE Z036202**
• For E-Type*Low speed handpieces and Phatelus air motor heads



MODEL Adaptor C **ORDERCODE Z036203**
• For Phatelus and Mach couplings



MODEL Adaptor KV **ORDERCODE Z036204**
• For KaVo®MULTIflex®LUX



MODEL Adaptor SR **ORDERCODE Z036205**
• For Sirona®Quick Coupling



MODEL Adaptor WH **ORDERCODE Z036207**
• For W&H®Roto Quick



MODEL Adaptor BA **ORDERCODE Z036206**
• For Bien-Air® Unifix®



MODEL Adaptor F **ORDERCODE Z036209**
• For ENDO-MATE TC2 / DT / AT, iSD900 heads



MODEL Adaptor CJ **ORDERCODE Z036210**
• For Midwest 4 hole & Borden 2/3 hole

* E-Type: Conformable to ISO3964.

Air Gauge

This gauge measures the drive air pressure of each handpiece turbine. The figure shown on this gauge should correspond with the required air pressure stated on the operation manual of the handpiece. Use of this gauge ensures longer life-time of your handpieces.



MODEL SG-4H **ORDER CODE Z327001**
• For Midwest 4 hole & LUX Coupling

MODEL SG-2/3H **ORDER CODE Z327002**
• For Borden 2/3 hole

ULTIMATE XL Series

BRUSHLESS

Experience unprecedented smoothness and power

The world's leading laboratory micromotor just got better. The ULTIMATE range has evolved to run even smoother and be more powerful. With 180° vector control system, it assures you to work more efficiently and stress-free. The handpiece shape has been designed extremely carefully with ergonomics and functionality, always being at the forefront of the designer's mind. The result is a handpiece which considerably reduces hand fatigue and makes it easier to work on even the most delicate pieces of work for extended periods of time. Experience the next-generation performance the ULTIMATE XL has to offer.



Features

- Ripple-free smooth rotation with 180° vector control system
- Powerful and stable torque across the entire speed range
- Easy-to-hold handpiece design ensures precision
- Lightweight compact body reduces hand fatigue and improves balance
- Unique dust-proof mechanism prevents contamination therefore achieving higher durability
- Minimal vibration, and noise from hermetically shielded micromotor unit
- Approximately 30% increased chuck strength enables you to work on a wider variety of materials



ULTIMATE XL Series Product Highlights



ULTIMATE XL Systems

Torque MODEL UMXL-GT (230V)
ORDER CODE Y141469

Compact MODEL UMXL-GC (230V)
ORDER CODE Y141470



Contents

- Control unit
- Micromotor
- Handpiece
- Foot Control
- Handpiece Stand

Specifications

- Power Supply: AC 230 V 50/60 Hz
- Weight: 2.8 kg
- Dimensions: W 167 x D 247 x H 77 mm



ULTIMATE XL-D Systems

Torque MODEL UMXL-DT (230V)
ORDER CODE Y141504

Compact MODEL UMXL-DC (230V)
ORDER CODE Y141505



Contents

- Control unit
- Micromotor
- Handpiece
- Foot Control
- Handpiece Stand

Specifications

- Power Supply: AC 230 V 50/60 Hz
- Weight: 3.3 kg
- Dimensions: W 81 x D 270 x H 230 mm



ULTIMATE XL-K Systems

Torque MODEL UMXL-KT (230V)
ORDER CODE Y141495

Compact MODEL UMXL-KC (230V)
ORDER CODE Y141496



Contents

- Control unit
- Micromotor
- Handpiece
- Handpiece Stand

Specifications

- Power Supply: AC 230 V 50/60 Hz
- Weight: 3.2 kg
- Dimensions: W 90 x D 270 x H 230 mm



ULTIMATE XL-F Systems

Torque MODEL UMXL-FT (230V)
ORDER CODE Y141513

Compact MODEL UMXL-FC (230V)
ORDER CODE Y141514



Contents

- Control unit
- Micromotor
- Handpiece
- Handpiece Stand

Specifications

- Power Supply: AC 230 V 50/60 Hz
- Weight: 3.8 kg
- Dimensions: W 230 x D 292 x H 113 mm



Contents

- Control unit
- E type Micromotor Only (No Attachment)
- Foot Control
- Handpiece Stand

ULTIMATE XL-E Type

MODEL UMXL-GE (230V)

ORDER CODE Y1002113

Torque Micromotor & Cord

- Speed : 1,000-50,000 min⁻¹
- Max. Torque : 8.7 Ncm



MODEL UMXL - T 2M

ORDER CODE Y141441

- Dimensions : L 151 x ø29 mm
- Weight : 215 g (Cord not included)
- Cord Length : 2 m

Compact Micromotor & Cord

- Speed : 1,000-50,000 min⁻¹
- Max. Torque : 6.0 Ncm



MODEL UMXL - C 2M

ORDER CODE Y141445

- Dimensions : L 144 x ø27 mm
- Weight : 181 g (Cord not included)
- Cord Length : 2 m

E-type Micromotor & Cord

- Speed : 1,000-50,000 min⁻¹
- Max. Torque : 6.0 Ncm



MODEL UMXL - EM 2M

ORDER CODE E342002

- Dimensions : L 118 x ø27 mm
- Weight : 129 g (Cord not included)
- Cord Length : 2 m



Spare Parts

VOLVERE i7

Coreless Micromotor

The VOLVERE i7 is another advance in NSK's quest to provide dental technicians access to its globally renowned dental laboratory engines. The stylish VOLVERE i7 delivers a compact, advanced design, all essential features and excellent value for money.

Features

- Light and compact to fit into the smallest space.
- Microcomputer Control
- Auto Cruise Function

Specifications

- | | |
|----------------|---------------------------|
| • Power Supply | : AC 230 V 50/60 Hz |
| • Dimensions | : W 69 x D 185 x H 167 mm |
| • Weight | : 930 g |



Powerful Torque and High Efficiency Micromotor

- Comfort grip
- Built-in Special dust proof mechanism
- High Precision
- Lightweight and compact
- Low vibration and noise

Specifications (Standard Type)

- | | | | |
|--------------|----------------------------------|---------------|------------------------|
| • Speed | : 1,000-35,000 min ⁻¹ | • Weight | : 192 g (without cord) |
| • Max Torque | : 4.1 Ncm | • Cord Length | : 1.2 m |
| • Dimensions | : L 145 x ø24.5 mm | | |

Standard Micromotor



E-Type Micromotor

VOLVERE i7 Complete Sets

Standard

MODEL VOLVERE i7 RM (230V) ORDER CODE Y1002890

E-Type Without Handpiece

MODEL VOLVERE i7 E (230V) ORDER CODE Y1003523

Contents

• Control unit • Micromotor Handpiece • Foot control (FC-76) • Handpiece Stand



Spare Parts

PRESTO AQUA LUX & AQUA II

Lube Free Air Turbine Handpiece With Water Coolant Spray

LED

Optic PRESTO AQUA LUX Complete Set

MODEL PRESTO AQUA LUX ORDER CODE Y1001151

Contents

- PRESTO AQUA LUX Control unit • PRESTO AQUA LUX handpiece
- PR-AQL Hose • Foot control (AFC-40) • Secondary hose for PRESTO
- Handpiece stand • PRESTO AQUA LUX Cord (230 V) • AC Adaptor

Non-Optic PRESTO AQUA II Complete Set

MODEL PRESTO AQUA II ORDER CODE Y150023

Contents

- PRESTO AQUA II unit • PRESTO AQUA handpiece
- QD-J B3 coupling • Hose for PRESTO AQUA II
- Foot control (AFC-40) • Secondary hose for PRESTO

Specifications

- 320,000 min⁻¹ • Coolant water spray • Bottle / tap water switching function
- Unique dust-proof mechanism • Lubrication free



PRESTO II

Lube Free Air Turbine Handpiece

Non-Optic PRESTO II Complete Set

MODEL Presto II ORDER CODE Y150022

Contents

- PRESTO II unit • PRESTO handpiece • Handpiece stand • Hose for PRESTO
- Foot control (AFC-40) • Secondary hose for PRESTO

Specifications

- 320,000 min⁻¹ • Lubrication free • Unique dust-proof mechanism



Turbine Adaptor TA50

For ULTIMATE XL-D, XL-K and XL-F

TA50 air turbine adaptor allows you to quickly switch power source between air turbine handpiece and electric micromotor. Both handpieces are equally controllable with a single foot control or knee control.

MODEL TA50 ORDER CODE U375

- Turbine adaptor
- W 75 x D 100 x H 30 mm

Airturbine



PRESTO AQUA LUX



PRESTO AQUA II



PRESTO II



* The air turbine is operated via the ULTIMATE XL foot control.



ULTIMATE XL-D



ULTIMATE XL-K



ULTIMATE XL-F



Spare Parts

083

DL-04

Couplings

Pages 002

MODEL	PRODUCTS	ORDER CODE
Non-Retraction Valve		P401054
LED Assy		P1001066
TA Bulb Pack of 3		Y900132

MODEL	PRODUCTS	ORDER CODE
PTL Bulb Pack of 3		Y900529
O-ring Set For KCL / LED		Y900211
SCL O-ring		D0312055100

Ti-Max Z2 Series

Pages 004-005

TiZ9-MU03 Cartridge for Miniature head		PA2380X001
TiZ9-SU03 Cartridge for Standard head		PA2381X001
PTL O-ring Set Pack of 4		Y900580
LED Assy		P1001066

TiZ9-MU04 Head cap for Miniature head		PA2380X050
TiZ9-SU04 Head cap for Standard head		PA2381X050
TiZ9-SU05 Head cap wrench for Std/ MIN head		PA2381X765

Ti-Max Z1 Series

TiZ-MU03 Cartridge for Miniature head		Y1002075
TiZ-SU03 Cartridge for Standard head		Y1002076
PTL O-ring Set Pack of 5		Y900580
LED Assy		P1001066

TiZ-MU04 Head cap for Miniature head		P1051050
TiZ-SU04 Head cap for Standard head		P1052050
TiZ-MU05 Head cap wrench for miniature head		Z265006
TiZ-SU05 Head cap wrench for standard head		Z265007

S-Max M Series

Pages 006-007

SX3-NU03 Cartridge for M micro		PA2307X001
SX3-MU03 Cartridge for Miniature head		P1280
SX3-SU03 Cartridge for Standard head		P1281
SX-NU04 Head cap for M micro		PA2307X050
SX-MU04 Head cap for Miniature head		P1001500
SX-SU04 (YOS) Head cap for Standard head		P1027500

SX-NU05 Head cap wrench for M micro		PA2307X765
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535
PTL O-ring Set Pack of 5		Y900580
TA Bulb Pack of 3		Y900132
LED Assy		P1001066

Ti-Max X450 Series

Page 008

MODEL	PRODUCTS	ORDER CODE
TiX45-SU03 Cartridge for Standard head		Y1001906
TiX45-SU04 Head cap for Standard head		P1078500
CQ45 Head cap wrench for Standard head		P624765

MODEL	PRODUCTS	ORDER CODE
PTL O-ring Set Pack of 5		Y900580
LED Assy		P1001066

S-Max pico Series

Page 009

SX-PU03 Cartridge for S-Max pico		P1140200
PTL O-ring Set Pack of 5		Y900580
LED Assy		P1001066

SX-PU04 Head cap for S-Max pico		P1140500
SX-PU05 Head cap wrench for S-Max pico		20002803

DynaLED

Pages 010-011

SX-MU03 Cartridge for Miniature head		P1001250
SX-SU03 Cartridge for Standard head		P1002250
SX-MU04 Head cap for M500LG B2		P1001500
SX-SU04 Head cap for M600LG B2		P1002500

SX-MU04 (YOS) Head cap for M500LG M4		P1026500
SX-SU04 (YOS) Head cap for M600LG M4		P1027500
SX-MU04 (DQD) Head cap for M500LG QD		P1109500
SX-SU04 (DQD) Head cap for M600LG QD		P1108500

FX Plus Series

Page 012-013

SX3-MU03 Cartridge for Miniature head		P1280
SX3-SU03 Cartridge for Standard head		P1281
SX-MU04 Head cap for Miniature head		P1001500

SX-SU04 (YOS) Head cap for Standard head		P1027500
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535

PanaAir FX Series

Pages 014-015

PAX2-SU03 Cartridge for PAF-SU		P1190
PAX2-TU03 Cartridge for PAF-TU		P1216
PAX2R-S03 Cartridge for PAF-S		T1040
PAX2R-T03 Cartridge for PAF-T		T1066
PAX2-SU04 Head cap for PAF-SU		P1190050

PAX2-TU04 Head cap for PAF-TU		P1216050
PAX2R-S04 Head cap for PAF-S		T1040050
PAX2R-T04 Head cap for PAF-T		T1066050
Head Cap Wrench		P1190765
Bur Wrench		T100702

Ti-Max 450

MODEL	PRODUCTS	ORDER CODE
NCH-SU03 Cartridge for Standard head		P041
NCH-MU04 Head cap for Standard head		P040050
CQ45 Head cap wrench for Standard head		P624765

MODEL	PRODUCTS	ORDER CODE
TA Bulb Pack of 3		Y900132
PTL O-ring Set Pack of 5		Y900580

PANA-MAX Series

PAX-SU03 Cartridge for Standard head, includes O-ring & Wave washer		Y900772
PAX-TU03 Cartridge for Torque head, includes O-ring & Wave washer		Y900773
PAX-SU04 Head cap for Standard Head		P074050

PAX-TU04 Head cap for Torque Head		P075050
PAX-SU05 Head cap wrench for Standard and Torque Head		P074765

Ti-Max X Series

TiX-MU03 Cartridge for Miniature Head		Y900200
TiX-SU03 Cartridge for Standard Head		Y1001022
TiX-TU03 Cartridge for Torque Head		Y1001023
PTL O-ring Set Pack of 5		Y900580
LED Assy		P1001066
TA Bulb Pack of 3		Y900132

TiX-MU04 Head cap for Miniature Head		P067050
TiX-SU04 Head cap for Standard Head		P068050
TiX-TU04 Head cap for Torque Head		P069050
Head Cap Wrench for X500		Z265005
Head Cap Wrench for X600		Z265004
Head Cap Wrench for X700		Z265003

FX Series

Pages022-023

MODEL	PRODUCTS	ORDER CODE
FX25-04 Head cap for FX25 FX23		C1052500
FX25-03 Cartridge for FX25		C1052700
FX23-03 Cartridge for FX23		C1056700
FX Spray Nozzle For FX25, FX23, FX15		C1052702

MODEL	PRODUCTS	ORDER CODE
Spray Nozzle For FX65		H019711
FX-Wrench For FX25, FX23		C1052701
Tube (RSM)		Z166101

NLZ

Pages 26-27

O-ring Set		Y1003728
O-ring		D0312010 050
NLZ		E1152051
NLZ E U		U1142002
NLZ CD		E1152061
Purge Nozzle		P1027500

NLAC		U499001
AC Cord		U439550
NLZ STAY		Z1321
NLZ U BRACKET		Z1322
NLZ MOUNTING PLATE		Z1323

EX Series Head (for General Application)

MODEL	PRODUCTS	ORDER CODE
FPB - Y For CA burs (ø2.35), Push Button Chuck, Ball Bearing Max Speed : 40,000 min ⁻¹		C875
NAC - Y For CA burs (ø2.35), Latch type, Max Speed : 30,000 min ⁻¹		C032002

MODEL	PRODUCTS	ORDER CODE
BB - Y For CA burs (ø2.35), Latch type, Ball Bearing, Max Speed : 40,000 min ⁻¹		C037

EX Series Head (for Prophylaxis Application)

AR - Y (S) For screw-in cups and brushes Max Speed : 5,000 min ⁻¹		C187
AR - Y (K) For snap-on cups, Max Speed : 5,000 min ⁻¹		C188

EVA - Y For Eva tips, Max Speed : 10,000 min ⁻¹	 Vertical Reciprocating Stroke Length 1.4 mm	C235
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EX Series Head (for Endodontic Application)

MP - Y Miniature Head, Push Button Chuck Max Speed : 20,000 min ⁻¹	 360° Rotation	C547
MPAS - Y Connection for Apex locator (for short shank) Miniature Head Push Button Chuck, Max Speed : 20,000 min ⁻¹	 360° Rotation	C882

TEQ - Y For engine files (ø2.35), Push Button Chuck, Max Speed : 4,000 min ⁻¹	 80° Twist	C849001
TEP - Y For hand files, Push Button Chuck Max Speed : 4,000 min ⁻¹	 60° Twist	C837001

EX Series Headpieces

EC - 30		C100008
EC - 30M 		C100007
ER16		C636
ER10		C635

ER4		C634
ER4M 		C634002
ER64		C637

EX Series / Ti-Max X95EX

FPB - 03 Cartridge for FPB		C875060
NAC - 03 Cartridge for NAC		C030011
BB - 03 Cartridge for BB		C037015
NBB - 03 Cartridge for NBBW		C210015
FFB - 03 Cartridge for FFB		C884060
Spray Nozzle For NAC, BB, FPB, FFB, TEP		C032701

Spray Nozzle For EX-5B, EX-6B		H019711
FPB - 02 Middle Gear		C875012
NAC - 02 Middle Gear		C032012
Cap Wrench For AR-Y(S)		C185751
Cap Wrench Black		C071751
Tube		Z166101

Built-in

Pages030-031

MODEL	PRODUCTS	ORDER CODE
Potentiometer Set Potentiometer for Varios 170/Lux		Y1001440
3 Mode Select Switch Set 3 Model Select Switch for Varios 170/Lux		Y1001793

MODEL	PRODUCTS	ORDER CODE
Solenoid Valve		U387014

Micromotors

TA-LED Assy		10001791
TA Bulb Pack of 3 for Ti40, Ti205L		Y900132
TM Bulb Pack of 3 for Tim40, Ti205L		Y900078

O-ring Set Pack of 3 for all models		M154060
O-ring		D0313084070
O-ring Set Pack of 4 for all models		E1135083

Varios 970 / 570 / 370 / 170

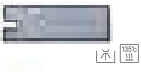
Pages032-035

MODEL	PRODUCTS	ORDER CODE
VA2-LUX-HP Optic Handpiece		E351050
VA2-HP Non-Optic Handpiece		E350050
VA970LUX-SC Handpiece Cord for Varios 970 LUX		E351055
VA970-SC Handpiece Cord for Varios 970		E350055
VA170LUX-SC Handpiece Cord for Varios 170 LUX		E351056
VA170-SC Handpiece Cord for Varios 170		E350056
FC-70 Foot Control, 2.5 m		Z1008001
FC-71 Foot Control, 5 m for Varios 370		Z1008002
AC Adaptor 2 m for Varios 570		Y1001762
VA370/370Lux AC Adaptor 5 m		Y1001790
Water Supply Connector		U387030
Water Filter Set (2m) 2 water supply tube, water filter, water filter case		U387040
Water Filter Set (4m) for Varios 370, 2 water supply tube, water filter, water filter case		U1007080
Water Supply Tube (2 m)		U387580
Water Supply Tube (4 m) for Varios 370		D0914406 040
Water Filter Case		Y900069
Water Filter		U387042

MODEL	PRODUCTS	ORDER CODE
Tube Ring Pack of 2		Y900077
Tip Wrench CR-10		Z221076
E Tip Replacement Wrench		Z217399
Tip Holder		Z221080
Tip Cover L		Z217850
Tip Cover S		Z217851
Sterilization case		Z1035001
Handpiece Holder for Varios 370		10001505
VA Bottle 400 400 mL for Varios 970		Z1047002
Irrigation Pump for Varios 970		10000643
O-ring for Handpiece Cord		D0310020 080
O-ring (Thin section) for VA Bottle 400		D0312090 100
O-ring (Thick section) for VA Bottle 400		D0310075 150
Varios 350/370 Stand		Z254
Varios 350/370 Mounting Bracket		Z259
Control Unit Holder for Varios 370		Y1001812
Spanner Wrench 5 x 8, Pack of 2		Y1001301

S970 / AS2000 Air Scaler

Page040

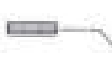
MODEL	PRODUCTS	ORDER CODE
CR-20 Tip Replacement Wrench with Torque Limiter		Z1090001
E Tip Replacement Wrench		Z217399
Tip Holder		Z252080
Lubrication Oil		Z016112

MODEL	PRODUCTS	ORDER CODE
Tip Cover L		Z217850
Tip Cover S		Z217851
S970 O-ring Set Pack of 4, for S970		Y1001953
PTL O-ring Set Pack of 5		Y900580

Prophy-Mate neo

Pages044-045

PMN-HP Handpiece with 60° nozzle head		T797010
Nozzle 60°		T797012
Nozzle 80°		T797013
Powder Case Cover		T798133
Gasket		T798135
O-ring Front Nozzle		D0312039 070
O-ring (neo) Rear Nozzle		D0312029 070
PTL O-ring Set Pack of 5		Y900580
PM O-ring Set Pack of 3		Y900054
Ring Wrench		T797601
Blower Nozzle- PTL (neo)		T798094

Blower Nozzle- KV (neo)		T886094
Blower Nozzle- SR (neo)		T887094
Blower Nozzle- WH (neo)		T888094
Blower Nozzle- BA (neo)		T889094
Blower Nozzle- M4 (neo)		T884094
Blower Nozzle- B2 (neo)		T885094
Lubrication Oil		Z016112
Cleaning Wire (L)		T798091
Cleaning Wire (S)		T798095
Cleaning File		T798092
Cleaning Brush		T798093

Perio-Mate

MODEL	PRODUCTS	ORDER CODE
PER-HP		T1043010
Nozzle		T1043012
Powder Case Cover		T798133
Gasket		T798135
O-ring Front Nozzle		D0312039 070
O-ring (PER) Rear Nozzle		D0312023 060
PTL O-ring Set Pack of 5		Y900580
PM O-ring Set Pack of 3		Y900054
Ring Wrench		T797601
Nozzle Tip Remover		T1043751
Blower Nozzle-PTL (PER)		T1042094

MODEL	PRODUCTS	ORDER CODE
Blower Nozzle-KV (PER)		T1044094
Blower Nozzle-SR (PER)		T1046094
Blower Nozzle-WH (PER)		T1048094
Blower Nozzle-BA (PER)		T1050094
Blower Nozzle-M4 (PER)		T1052094
Blower Nozzle-B2 (PER)		T1054094
Lubrication Oil		Z016112
Cleaning Wire (L)		T798091
Cleaning Wire (S)		T798095
Cleaning File		T798092
Cleaning Brush		T798093

ENDO-MATE TC2

Page050

MODEL	PRODUCTS	ORDER CODE
ENDO-MATE TC2 Motor		E346
Battery Charger		U614
Cord for MPA, MPAS		C876021B

MODEL	PRODUCTS	ORDER CODE
Connection Cord Clip		C876509
Power Cord		U439550
Ni-MH Rechargeable Battery Pack of 2		Y900103

* Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride). Never attempt to use a non rechargeable battery.

ENDO-MATE DT

Page051

ENDO-MATE DT Unit		U421002
ENDO-MATE DT Motor & Cord		E275
Handpiece Stand		Z095206
Cord for MPA, MPAS		C876021

ENDO-MATE DT Adaptor		U480
Connection Cord Clip		C876509
Rechargeable Batteries		U421070
FC-15 Foot Control		Z248

* Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride). Never attempt to use a non rechargeable battery.

ENDO-MATE AT

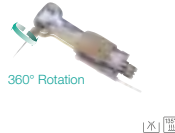
Page052

Cord for MPA, MPAS		C876021
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Connection Cord Clip		C876509
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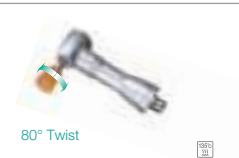
ENDO-MATE TC2 / ENDO-MATE DT / ENDO-MATE AT Heads Heads for Endodontic Application Page050-053

MP-Y Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck		C547
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MPAS-Y Connection for Apex locator (for short shank), Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck		C882
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ENDO-MATE TC2 / ENDO-MATE DT / TASKAL Wizard Heads Heads for Prophylaxis Application Page050-051

MODEL	PRODUCTS	ORDER CODE
AR-Y (S) Prophy head, for screw-in cups		C187
AR-Y (K) Prophy head, for snap-on cups		C188
NAC-Y Prophy head, for CA bur (ø2.35), Latch type		C032002

MODEL	PRODUCTS	ORDER CODE
TEQ-Y Prophy head, for CA bur (ø2.35), Push Button Chuck	 80° Twist	C849001
EVA-Y For Eva tips	 Vertical Reciprocating Action	C235

ENDO-MATE TC2 / ENDO-MATE DT / ENDO-MATE AT Heads Endodontic / Prophylaxis Application Page050-051

F10R 10:1 Reduction		C398
F16R 16:1 Reduction		C871

F20R 20:1 Reduction		C399
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iPex II Page052-053

iPexII File Clip		U1109351
iPexII Tester		U1109353

iPexII Probe		U1109352
Lip Hook		U501513

Surgic Pro2

Pages 054-055

MODEL	PRODUCTS	ORDER CODE
SGL80M (Optic Motor & Cord)		Y1004211
SG80M (Non-Optic Motor & Cord)		Y1004212
FC-81 (FOOT CONTROL WIRELESS)		Z1401001
Coolant Solution Hanger Post		U370152
Protection Plug		10001595

MODEL	PRODUCTS	ORDER CODE
Irrigation Tube (Pack of 5)		Y900113
Handpiece Stand		Z1402110
Tube Holder (Pack of 7)		Y900083
Tube Holder		E1198105

Surgic AP2

Pages 058-059

SG80MS Non-Optic Motor & Cord		Y1500716
Motor cord		E1198061
FC-84 (FOOT CONTROL WIRELESS)		ZF16030001
Coolant Solution Hanger Post		U370152
Protection Plug		10001595

Irrigation Tube (Pack of 5)		Y900113
Handpiece Stand		Z1402110
Tube Holder (Pack of 7)		Y900083
Tube Holder		E1198105

Surgic Pro / Surgic Pro+

Tube Holder		E295105
Motor Cord		E1023061
Handpiece Stand		Z1029201
Irrigation Tube Pack of 5		Y900113
Coolant Solution Hanger Post		U370152

Handle Set		Z1027001
Protection Plug		10001595
Tube Holder Pack of 7		Y900083
Calibration Bur		Z1057101

Surgic Pro / VarioSurg3

Page056-057

MODEL	PRODUCTS	ORDER CODE
SG Link Stand		Z1176

MODEL	PRODUCTS	ORDER CODE
SG Link Cable		Z1189

VarioSurg3

Page064-065

VA3-LED-HPSC		E1133
E Tip Replacement Wrench For V10-S		Z217399
VS Tip Wrench For SG1A, SG8A CR-40		Z305350
Tip Wrench CR-30		10000977
Tips Holder		20001327

Saline Solution Hanger Post		U564152
Irrigation Tube Pack of 5		Y900113
Tube Holder Pack of 7		Y900767
VA-SG-CASE Sterilization Cassette		20001326
Handpiece Stand		Z1029201

VarioSurg

VS-LED-HPSC Cord 2 m		E1084
VA-SGN-HPSC Cord 2 m		E377
E Tip Replacement Wrench		Z217399
Tip Wrench CR-30		10000977
Tips Holder		20001327
Handpiece Stand		Z1029201

FC-51 Foot Control		Z316001
Irrigation Tube Pack of 5		Y900113
VA Bulb Pack of 3		Y900107
Tube Holder Pack of 7		Y900767
VA-SG-CASE Sterilization Cassette		20001326

Surgic AP

MODEL	PRODUCTS	ORDER CODE
SG50MS		E290
Irrigation Tube Pack of 5		Y900197
Irrigation Pump Pack of 2		Y1002196

MODEL	PRODUCTS	ORDER CODE
Protection Plug		10001595
Tube Holder Pack of 7		Y900083

Surgical Handpieces

Pages062-063

Internal Spray Nozzle		10000324
Nozzle Holder X-SG20L X-DSG20L, X-DSG20		20000396
Nozzle Holder For SG20		20000357

Y-Connector		C823752
Cleaning Wire		20000512

Surgical Handpieces Ti-SG20L / Ti-SG25L

Internal Spray Nozzle		C495035
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Y-Connector		C823752
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Micro Surgery Hanpieces

Page062-063

MODEL	PRODUCTS	ORDER CODE
Spray Nozzle For SGS, SGA		H263018

MODEL	PRODUCTS	ORDER CODE
Bur Stopper		Y900160

Micro Saw Handpieces

Spray Nozzle For SGR, SGT, SGO		SH162035
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Spanner 8x5		K040751
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iSD900

Page068-069

Quick Charger for iSD900		U1070001
iSD900 Motor		E1060001
iSD-HP		C1060
Power Cord		U439550

Torque Calibrator		Z1056001
Calibration Bur		Z1057101
On/Off Switch Lever		Z1070001
Ni-MH Rechargeable Battery Pack of 2		Y900103

* Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride). Never attempt to use a non rechargeable battery.

iCare

Pages072-073

Maintenance Oil 1 Bottle, 1 L		Z016130
Chuck Lubrication Nozzle		Z257301
Mist Filter Set Pack of 12		Y900159

Air Filter		U508352
HP Head Filter Pack of 200		U1120118
Oil Absorber Sheet Pack of 10		U433135

iClave 24

Pages074-075

Printer		9900009
Roll of Labels 1950 labels 60x30mm	-	9900010

Helix Test		9900059
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Care3 Plus / Care3

MODEL	PRODUCTS	ORDER CODE
Maintenance Oil 1 Bottle, 1 L		Z016117
Maintenance Oil Pack of 6 Bottles		Y900138
Oil Replenish Funnel with Filter		U433090

MODEL	PRODUCTS	ORDER CODE
Oil Absorber Sheet Pack of 20		Y900186
Oil Absorber Sheet Pack of 10		U433135

Care3 Plus

Mist Filter Set Pack of 12		Y900159
Air Filter		U508352
Air Filter Element		U508353

Oil Absorber Sheet Pack of 20		Y900186
Oil Absorber Sheet Pack of 10		U433135

ULTIMATE XL / XL-D / XL-K / XL-F

Pages080-081

UMXL-TM Motor Torque type with 1.2 m cord		E355
UMXL-CM Motor Compact type with 1.2 m cord		E356
UMXL-TM 2M Motor Torque type with 2 m cord		E355002
UMXL-CM 2M Motor Compact type with 2 m cord		E356002
UHRXL-T Attachment Torque type		H269
UHRXL-C Attachment Compact type		H271
Motor Cord T Torque type 1.2 m		E355051
Motor Cord C Compact type 1.2 m		E356051
Motor Cord T 2M Torque type 2 m		E355055
Motor Cord C 2M Compact type 2 m		E356055

FC-64 Foot Control for XL, XL-D		Z304
Handpiece Stand Wrench is not included		Z095201
Chuck-2.35A		H203A180A
Handpiece Holder For XL		Y900770
Wrench for Locking Rotation		H269751
Wrench for Adjusting Chuck		K015751
Bracket Set For XL-D, XL-K		U364090
Fuse-T1.6A		D1200116010
UMXL-TM Armature Assy		E367011
UMXL-CM Armature Assy		E368011

VOLVERE i7

Page082

MODEL	PRODUCTS	ORDER CODE
GX35RM-B & SCD Motor + cord		E1179
GX35EM-B & SCD E-type motor + cord		E1180
UHR45C Handpiece for GX35RM-B		H203002
VR-EB E-Type Handpiece		H1062
Carbon Brush For GX35RM-B, GX35EM-B Pack of 2		E023011S

MODEL	PRODUCTS	ORDER CODE
Chuck-2.35 A		H203A180A
FC-76 Foot Control		Z1082
Handpiece Stand		Z095206
Wrench for Adjusting Chuck		K015751

PRESTO II

Page083

PRESTO II Unit		Z307015
PR-HP PRESTO Handpiece Includes 2 m hose		T815
AFC-40 Foot Control		Z127
Handpiece Stand		Z010134
PR-03 PRESTO Cartridge		T815016
Chuck		T815019

Hose for PRESTO 2 m		T815220
Secondary Hose for PRESTO 2 m		Z101240
LAB Spanner Wrench		H005751
Chuck Wrench		C034751
Bur-inserting Tool		T815030

PRESTO AQUA LUX

Page083

MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA LUX Control Unit		Z1038A002
PRA-LUX-HP PRESTO AQUA LUX Handpiece		T1002
PR-AQL Hose Coupling Hose		Z1050
PR-AQL03 PRESTO AQUA LUX Cartridge		T1002250

MODEL	PRODUCTS	ORDER CODE
Handpiece Stand		Z095206
AC Adaptor PR-AQL		U1044
PRESTO AQUA LUX Cord		U439550
PTL O-ring Set Pack of 5		Y900580

PRESTO AQUA II

Page083

PRESTO AQUA II Unit		Z308015
PRA-HP PRESTO AQUA Handpiece		T816
Hose for PRESTO AQUA II		Z308050

QD-J B3 Coupling		T354051
PR-AQ03 PRESTO AQUA Cartridge		T816016

PRESTO AQUA LUX / PRESTO AQUA II

Page083

Bottle Gasket		U379112
Chuck		T815019
AFC-40 Foot Control		Z127
Secondary Hose for PRESTO 2 m		Z101240
Water Filter Set 2 water supply tube, water filter, water filter case		U387040
Water Filter with Case		Y900069
Water Filter		U387042
Tube Ring Pack of 2		Y900077

PRA II Bottle Set		Z308040
PRA II Bottle Lid		Z308041
PRA II Bottle		Z308601
PRA II Bottle O-ring set Pack of 2		Y900327
Bracket Set		Z308060
Chuck Wrench		C034751
Bur-inserting Tool		T815030

Operation and Daily Maintenance Guide

NSK High Speed Air Turbine

INSTALLATION



Air Pressure:

DO NOT exceed $2.5\text{kg/cm}^2 = 2.5\text{bar} = 0.25\text{MPa}$ (Coupling Type)

DO NOT exceed $2.2\text{kg/cm}^2 = 2.2\text{bar} = 0.22\text{MPa}$ (B2/M4 Direct Type)



May be different from other brand products



Remove moisture in the air

- Always drain water from the air compressor.



Remove dust in the air

- Always use an air filter in the air hose.

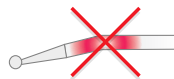
AIR GAUGE ONE STOP SOLUTION



SG-4H for M4 Type
SG-2/3H for B2 Type

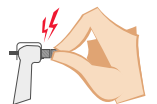
OPERATION

 Standard Shank
for Torque/Standard head



Use a **FRESH BUR**. Do not use a bent, worn or damaged bur.

 Short Shank
for Miniature head

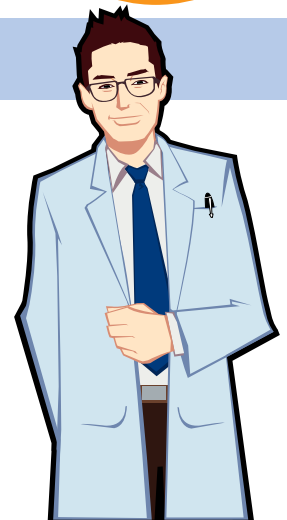


For wrench type chuck, do not fasten the knob too tightly.

 **Insert the bur all the way into the chuck until it stops.**



Do not overload. Observe a **"Feather Touch Cutting Method"** for effective excavation.



LUBRICATION

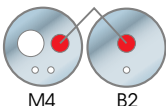


- Use only a **Special Oil Spray** designed for air turbine handpieces, such as NSK's Pana Spray Plus.

Spray Nozzle



Drive Air Hole



M4

B2

- For **Coupling Type**, use **NSK's SPRAY NOZZLE** enclosed in the set box. For M4/B2 Type, blow the spray from the Drive Air Hole.

- Spray for 2-3 seconds until the liquid comes out from the head for complete lubrication.



At least **TWICE A DAY**, and **EVERYTIME BEFORE AUTOCLAVING**.
(After morning session and evening session)

iCare

ONE STOP SOLUTION



For Lubrication



STERILIZATION



Never use any chemical solution for sterilization.



Never use ultrasonic bath.



Brush off excess dirt and wipe clean with alcohol soaked cloth.



For Autoclaving :

- Spray lubricate every time prior to autoclaving.

- Put the handpiece into a pouch and seal it completely.

- Autoclave for 20min. at 121°C , or 15min. at 132°C .

Say **NO!** to
Counterfeit

حاربوا الغش
والتقليد

NO! **NCK**
NO! **FSK**
NO! **MSK**

...and even **NSK** copy
product with similar
packaging!

Beware of fake NSK products imported by third parties.
Please contact local authorized agent and its reliable sub-dealers
for genuine NSK products with full after-sales services.

www.nsk-dental.com

YES!

All **NSK** products are MADE IN JAPAN

* FLASH pearl and Perio-Mate powder are made in Germany

USEFUL LINKS

AIR TURBINES

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Reprocessing Guide
-  Maintenance Guide
-  User Guide

CLINICAL MICROMOTORS

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Reprocessing Guide
-  Maintenance Guide
-  Troubleshooting
-  User Guide

ENDODONTICS

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Troubleshooting
-  User Guide

CONTRA ANGLES

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Reprocessing Guide
-  Maintenance Guide
-  User Guide

ORAL HYGIENE

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Reprocessing Guide
-  Maintenance Guide
-  Troubleshooting
-  Clinical Case
-  User Guide

SURGICAL

-  Videos from NSK Japan
-  Videos from NSK Asia Channel
-  Reprocessing Guide
-  Maintenance Guide
-  Troubleshooting
-  Clinical Case
-  User Guide

USEFUL LINKS

HYGIENE & MAINTENANCE

- 📺 Videos from NSK Japan
- 📺 Videos from NSK Asia Channel
- 🔧 Troubleshooting
- 📖 Maintenance Guide
- 📖 User Guide

DENTAL LABORATORY

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- 🔧 Troubleshooting
- 📖 Maintenance Guide
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- 18: DCI International. LLC

Varios Combi Pro

Two Maintenance Systems in One

Combining ultrasonic scaling and powder therapy for more effective and comfortable oral hygiene and biofilm control.



Innovative new design enables clinicians to safely and efficiently combine two applications

Two systems in one

NSK has combined ultrasonic treatment and powder therapy into a single professional treatment unit that streamlines procedures and saves time and space.

Automatically sets powder therapy functions for supragingival or subgingival applications

The clinician simply attaches the relevant powder chamber, and the unit automatically selects the functions for supragingival or subgingival applications. This prevents selection errors.

Independent unit and chamber

The detachable chamber and handpiece make it possible to easily switch between supragingival and subgingival applications and make the unit extremely user and maintenance friendly.

No more clogging

By keeping the control unit, handpiece and handpiece hose separate the risk of powder blockages inside the unit has been completely eliminated. The components carrying powder and water are all easily accessible for maintenance and service.

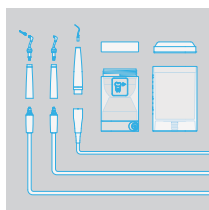
Keeps both powder types separate

Separate chambers, handpieces, and handpiece hoses for supragingival and subgingival procedures eliminate the risk of powder mixing or powder entering the control unit.

Easy Maintenance

Auto-cleaning function

Auto-cleaning automatically cleans the handpiece and hose after powder or ultrasonic applications. During the cleaning cycle, the display shows the time remaining to complete the process which takes approximately 45 seconds from start to finish.



Easy maintenance

The nozzle, handpiece, handpiece hose and chamber are easy to disassemble.

Powder function

Following treatment, simply press the auto-cleaning button to discharge water from the hose and handpiece to prevent possible powder blockages.

Ultrasonic function

Press the auto-cleaning button to flush the handpiece, tip and handpiece cord tip. This lowers the risk of corrosion especially when corrosive irrigants have been used.

Smooth surfaces for easy cleaning

The body is seamless and smooth, making it easy to remove powder residues. The display material has been treated with a scratch resistant coating.

Powder particle comparisons

The fine Perio-Mate Powder is ideal for periodontal pocket treatment.



Conventional sodium bicarbonate powder

Average particle diameter : 73 µm
Scanning electron microscope image magnification of 150x



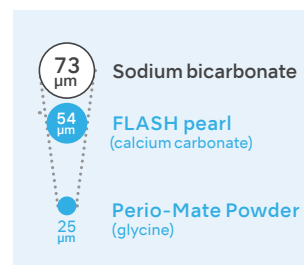
FLASH pearl (calcium carbonate)

Average particle diameter : 54 µm
Scanning electron microscope image magnification of 150x



Perio-Mate Powder (glycine)

Average particle diameter : 25 µm
Scanning electron microscope image magnification of 150x



Optional PERIO-SYSTEM

MODEL Varios Combi Pro Perio Set

ORDER CODE Y1003042

Contents

- PERIO-CHAMBER • PERIO-Hose • PERIO-Handpiece
- Perio-Mate Nozzle tip • Perio-Mate Nozzle tip remover
- Perio-Mate powder



Accessories

MODEL FLASH pearl

ORDER CODE Y900693

- Stylishly packaged in a handy, original box.
- Contains 100 x 15 g sachets



MODEL FLASH pearl (Bottle)

ORDER CODE Y900698

- 4 bottles packed in a box
- Comes with a measuring cup for your convenience
- Each bottle contains 300 g



Varios Combi Pro Basic Set

MODEL Varios Combi Pro Basic Set

ORDER CODE Y1002843

Contents

- PROPHY-Handpiece with 60° Nozzle
- PROPHY-Hose • PROPHY-CHAMBER
- FLASH pearl (5pcs. x 15 g sachets)
- Maintenance kit • VA2LUX-Handpiece
- VA2LUX Hose • 3 Scaling tips
- Sterilization case
- Irrigation bottle (400 mL) • Foot control



Specifications

• Power Supply : AC 100-240 V 50/60 Hz	• Unit weight : 2.6 kg
• Frequency : 28-32 kHz	(except attachment)
• Dimensions : W 225 x D 290 x H 162 mm	• Bottle volume : 400 mL
(including chamber)	

Multi-Foot Control

NSK extensively researched foot movement and sensory feeling when developing the Multi-Foot Control to enable clinicians to operate the unit hands-free to facilitate uninterrupted procedures. Just using the foot the user can switch ultrasound or powder modes on or off and change power settings. Combined with a hanger, this offers complete hands-free operations.



Please scan the QR code to access the Varios Scaler Tip Guide.

Viva ace Mobile Dentistry System

WHEREVER POSSIBLE.

For more comfortable & more advanced home visits for dental treatment



Quick set up and storage

Set up and storage is straight forward, simple and quick, making work more efficient and easier. The instrument holders and arm can be set at 4 different levels. Remove the handpieces for easy storage.



Simple Storage



Easy Maintenance



Advanced functionality in a compact body

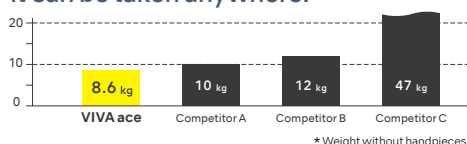
Intuitive easy to read control panel



Foot controls



Lightweight at 8.6 kg,* it can be taken anywhere.



Highly functional portable dental system just like a treatment centre

Excellent efficiency and safety are achieved via both the intuitive and highly visible large LCD control panel and the superb functionality provided by each individual instrument. A high functionality system just like a treatment centre.

High functionality micromotor

Full endodontic functionality

NLX plus



Ideally suited for all requirements of state of the art dentistry

	Rotation speed (min ⁻¹)	Torque (Ncm)
General mode	1,000 - 40,000	4.0
Endodontic mode	100 - 5,000	0.3 - 3.0

Multipurpose ultrasonic scaler

Comprehensive tip range

Varios2 Lux



NSK iPiezo ultrasonic engine

Provides the appropriate power at the tip end adapting to tooth conditions for firm or soft tartar. Safe scaling is possible even when removing hard tartar.

Foot controls

For treatments performed by just one practitioner

The micromotor, ultrasonic scaler and suction can be switched ON/OFF using one foot control in Sync mode.



Micromotor, Scaler & Suction

For treatment performed by 2 operators, 1 dentist/hygienist and 1 dental nurse

Switch micromotor, ultrasonic scaler and suction ON/OFF using two foot controls. The two in combination lets the dentist concentrate on operating the micromotor and scaler.

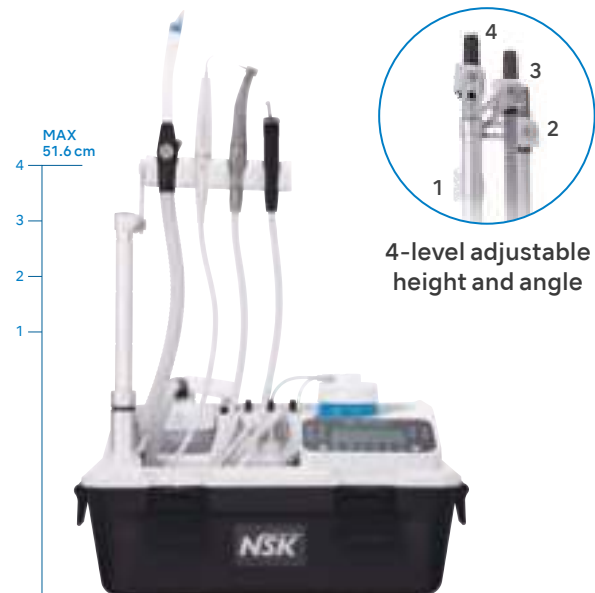


Micromotor & Scaler



Suction

Adjustable working positions



4-level adjustable height and angle

MODEL VIVA ace 230 Complete Set ORDER CODE Y1003773

Contents

- VIVA ace 230 Basic Set
- VIVA ace Motor Kit • VIVA ace Scaler Kit

Specifications (Control Unit)

- Dimensions : W 462 × D 298 × H 284 mm
- Unit weight : 8.6 kg
- Power supply : AC 100-240 V 50/60 Hz
- Power source input : 130 VA



MODEL VIVA ace 230 Basic Set ORDER CODE Y1003774

Contents

- Control Unit • AC Cord • Foot Control (FC-76S)
- Foot Control (FC-70S) • Top Case • V-ace Vacuum Hose Set
- V-ace Vacuum Bottle Set • V-ace Vacuum Nozzle* (10)
- V-ace Water Bottle Set • V-ace 3 way Syringe Set
- Shoulder Belt

*Design is subject to change.

MODEL VIVA ace Motor Kit ORDER CODE E1040002

Contents

- Motor NLX plus
- Motor Cord
- Motor Cap
- Protection Plug



MODEL VIVA ace Scaler Kit ORDER CODE E351006

Contents

- VA2-LUX Handpiece
- Scaler Cord
- Tip (G6, G8)
- Tip Wrench
- Tip Holder



Ti-Max Z (Discontinued)

Air Turbine Series

POWERFUL

- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics • Ceramic Bearings • Clean Head System
- Push Button Chuck • Quattro Spray • Microfilter • Air Pressure Regulating Valve

Connect to NSK Couplings



Quattro Spray

Miniature Head : Power : 23 W, Speed : 360,000-440,000 min⁻¹, Head Size : ø10.8 x H 12.1 mm

*Both standard and short shank burs are applicable.

Standard Head : Power : 26 W, Speed : 320,000-400,000 min⁻¹, Head Size : ø12.5 x H 13.1 mm



LED NSK Coupling

Miniature **Optic** MODEL Z800L ORDER CODE P1110

Standard **Optic** MODEL Z900L ORDER CODE P1111

Connect to NSK Couplings

Miniature Head : Power : 21 W, Speed : 360,000-440,000 min⁻¹, Head Size : ø10.8 x H 12.1 mm

*Both standard and short shank burs are applicable.

Standard Head : Power : 24 W, Speed : 320,000-400,000 min⁻¹, Head Size : ø12.5 x H 13.1 mm

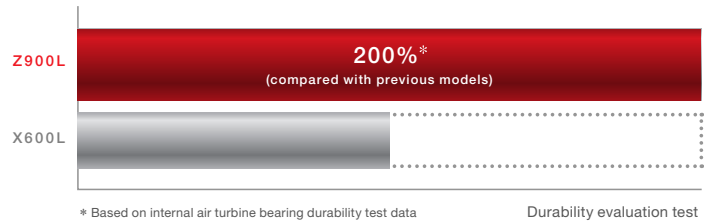
COUPLING TYPE	KaVo®		Sirona®		W&H®	
Head Size	Mini	Standard	Mini	Standard	Mini	Standard
MODEL	Z800KL	Z900KL	Z800SL	Z900SL	Z800WL	Z900WL
ORDER CODE	P1112	P1113	P1114	P1115	P1120	P1121
LIGHT	Optic					



Ti-Max Z Product Highlights (Discontinued)

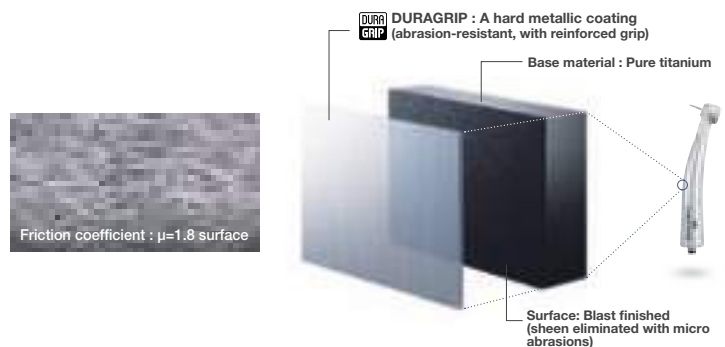
Advanced technology a key factor In significantly increased durability of Ti-Max Z

We have completely redesigned the shape and sourced improved materials for the bearing retainer to reduce frictional resistance and developed a new type of bearing to almost double the durability to accommodate constant thermodisinfectant and autoclave usage.



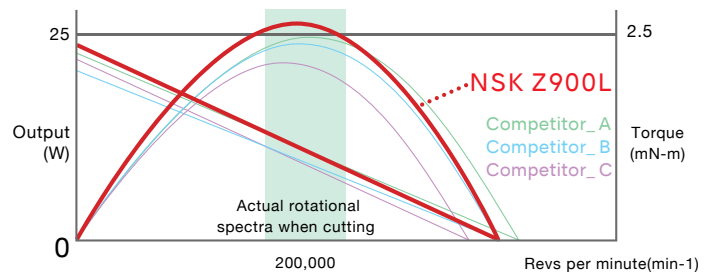
DURAGRIP non-slip, scratch-resistant surface treatment technology

We blast-finish the pure titanium body surface utilising micro-abrasion before applying the DURAGRIP surface finish. The micro-abrasion enhances resistance to scratches and contributes to the firm, reliable non-slip grip.



High output for smoother cutting

The 26 watts power output from the new rotor significantly enhances the performance during clinical applications. This can dramatically reduce treatment time and noticeably improve treatment comfort for the clinician and patient alike.



New three-dimensional rotor

We harnessed the latest computer analysis software to develop a rotor with higher output. We created a new three-dimensional curved shape after relentless simulations and pilot production. The blade is 50% larger than that of the Ti-Max X Air Turbine. With this new rotor, the air turbine delivers an amazing 26 watts* of power.

*With the Z900L

Ti-Max Z Cartridge



Ti-Max X Cartridge



Blade surface 50% larger



Surgic Pro (Discontinued)

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.



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.

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.



Memorises eight different implant systems

The Surgic Pro memorises eight different implant systems, a total of 64 programs. The programmable parameters are gear ratio, speed, rotation direction, torque limit, coolant solution volume, 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.

Advanced irrigation pump

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



Surgic Pro Product Highlights (Discontinued)

NSK's drive for accuracy ensures safe treatment through accurate torque correction



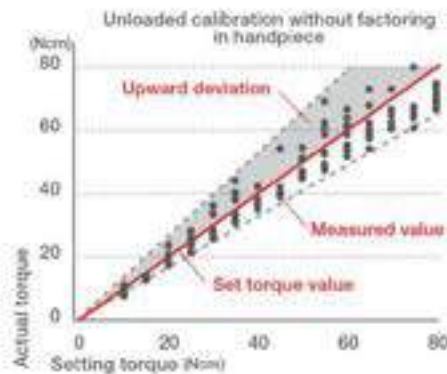
Maintaining accurate torque with AHC

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, 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

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



SGL70M / 81.9 mm, 280 g*

SGL50M / 98.1 mm, 322 g*

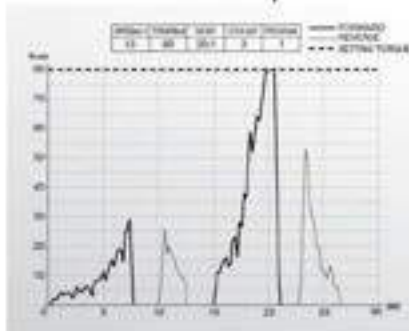
*including motor cord

Data Storage Function (*Surgic Pro*)

Easy treatment data handling

No specific software is required to display CSV or bitmap files.

*File formats : csv or bmp



Display permanently showing memory status

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

Clock display USB memory Display showing USB stick is inserted



Memory time Display showing capacity can be recorded

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⁺ **Optic** Complete Set with data storage facility **(Discontinued)**



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

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 : AC 230 V 50/60 Hz
- Max. Pump Output : 75 mL / min
- Programs : 8 Programs / Implant Systems
- Dimensions : W 268 x D 220 x H 100 mm

- USB / V : 1 port
- Built in Memory : 100 min

Micromotor

- Torque : 5-80 Ncm
- 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 Flow Volume Button, Forward / Reverse Button

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



Optic Surgic Pro Complete Set with X-SG20L Optic Handpiece

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

Non-Optic Surgic Pro Complete Set with SG20 Handpiece

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

Control Unit with AHC

- Power Supply : AC 230 V 50/60 Hz
- Max. Pump Output : 75 mL / min
- Programs : 8 Programs / Implant System
- Dimensions : W 265 x D 220 x H 100 mm

Micromotor

- Torque : 5-80 Ncm
- 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 Flow Volume Button, Forward / Reverse Button

Foot Control Stay in control



MODEL FC-78
ORDER CODE Z1102001
• With 2 m cord

MODEL FC-78(3.5)
ORDER CODE Z1102002
• With 3.5 m cord

Handle Set (Optional)



MODEL Handle Set
ORDER CODE Z1027001

Carrying Case (Optional)



MODEL Carrying Case (Surgic Pro)
ORDER CODE Y1001952
• Dimensions : W 534 x D 427 x H 207 mm



Surgic Pro × VarioSurg3

Surgical Micromotor System

Ultrasonic Bone Surgery System

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 VarioSurg3 generating synergies through link function

The Link function allows operation between the Surgic Pro oral surgery and implant micromotor system and the VarioSurg3 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 VarioSurg3 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.



Large and clear display for enhanced safety

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



Introduction

Surgic AP (Discontinued)

Provides solid performance for surgical and implant procedures

Designed specifically for oral and implant surgery, Surgic AP delivers all the power and performance you ever need for these procedures. 210 watts power and 50 Ncm torque, together with a wide speed range of 200-40,000 min⁻¹ offers the flexibility and fast response required for a variety of surgical procedures. The compact console is user-friendly, simple to operate and has been specifically designed for the aseptic theatre environment.



Complete Set Non-Optic Surgic AP Non-Optic Complete Set With S-Max SG20 Handpiece

MODEL Surgic AP (230V) ORDER CODE Y1002184

Contents

- Control Unit • Non-Optic Micromotor (SG50MS)
- SG20 Handpiece (20:1 Reduction)
- FC-55 Foot Control (IPX8 certified) • Handpiece Stand
- Irrigation Tube (5 pcs.) and Other Accessories

Specifications

Control Unit

- Max. Output/Max. Torque : 210 W / 50 Ncm
- Power Supply : AC 230 V 50/60 Hz
- Max. Pump Output : 75 mL/min
- Programs : 8 Programs
- Dimensions : W 275 x D 207 x H 101 mm

Micromotor (SG50MS)

- Motor Speed : 200-40,000 min⁻¹
- Non-optic
- Brushless

Foot Control (FC-55)

- Speed Control: Variable
- IPX8 certified



Surgic AP Product Highlights (Discontinued)

S-Max SG20 Contra-angle 20:1 Reduction

- Double sealing system
- Stressless body shape
- Excellent durability

SG50MS Micromotor

- Compact, short and lightweight micromotor
- High power 210 W / powerful torque 50 Ncm
- Excellent durability and autoclavability



Double Sealing System



8 individual program options

NSK Surgic AP can memorise 8 complete program options. Each program includes speed, torque, coolant flow, and rotation direction. Program settings continue to be stored even when supply power is turned off. Each program setting can be easily modified during operation. To save a program parameter you simply press & hold Memory button.

Large user friendly LCD

The Large LCD display offers immediate recognition of the selected operational program data.



Powerful external pump

Surgic AP guarantees you optimum irrigation capacity and simple mounting with an external powerful water pump. The Surgic AP pump is easily detachable, can be repeatedly autoclaved.



User friendly foot control

The Surgic AP foot control (FC-55) is simple to operate and conforms to IPX8 - the standard for medical foot control devices, certification for operating theatre use. (forward direction only)



Carrying Case (Optional)

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



MODEL Carrying Case (Surgic AP)

ORDER CODE Y1002197

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

Surgic Pro2 (Old Set)

Go beyond.

3 Progress Points

OPERABILITY

SAFETY

WIRELESS
EXTENSIBILITY

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
- SG80M Non-Optic Micromotor
- SG20 Optic Handpiece (20:1 Reduction)
- FOOT CONTROL WIRELESS
- Irrigation tube (Pack of 3) and other accessories

Specifications :

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

OPTION

Wireless Link Tools (Surgic Pro2 x VarioSurg 3)
Connecting via the compact Wireless Link Set allows for operation of 2 surgical system with a single wireless foot control

MODEL : Link Module
ORDER CODE : Z1402001
● Link Box ● Link Cable



MODEL : Link Stand2
ORDER CODE : Z1452001

Osseo 100+ (implant Stability Measurement System)

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

MODEL : Osseo 100+
ORDER CODE : Y1004178
Manufacturer
Intergration Diagnostics Sweden AB



Carrying Case for Surgic Pro2

Carrying case for components and accessories of Surgic Pro2

MODEL : Carrying Case
ORDER CODE : Y1500395
● dimensions: W534 x D 427 x H 207 mm



54

SG-01



Spare Parts



Washable in the thermodisinfector

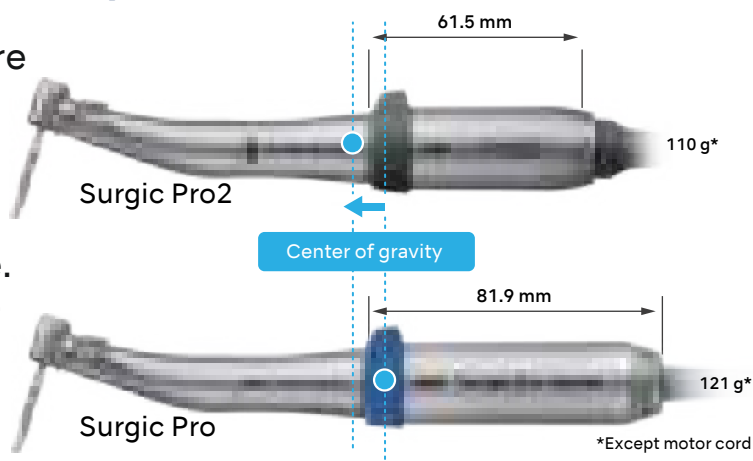


Autoclavable up to 135c

Surgic Pro2 Product Highlights (Old Set)

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

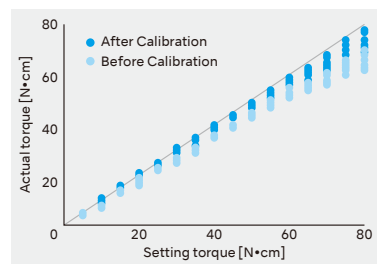
Weight
9.1% DOWN

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 successful 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.



**For Surgic Pro, please see the last supplement pages*

WIRELESS EXTENSIBILITY

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

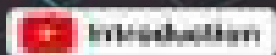
Variosurg3
Ultrasonic Bone Surgery

FOOT CONTROL
WIRELESS

Surgic Pro2

Osseo 100+
Osseointegration Monitoring Device

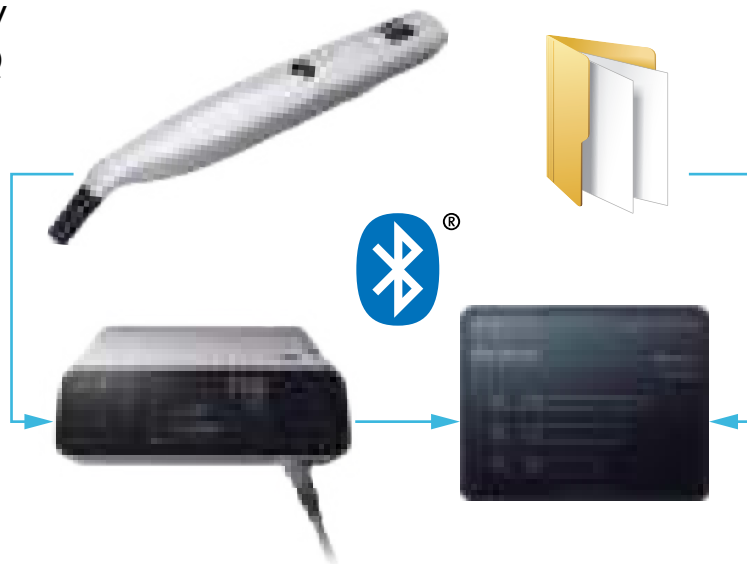
iPads



Linked with Osseointegration Monitoring Device, Osseo 100+

The Osseointegration Monitoring Device, "Osseo 100+" measures the implant stability 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 "VarioSurg3" ultrasonic bone surgery system

Surgic Pro2 can easily be linked with the NSK ultrasonic surgical system Variosurg3 by adding our bluetooth link module. With the NSK link stand the two units can be safely stacked to save space.



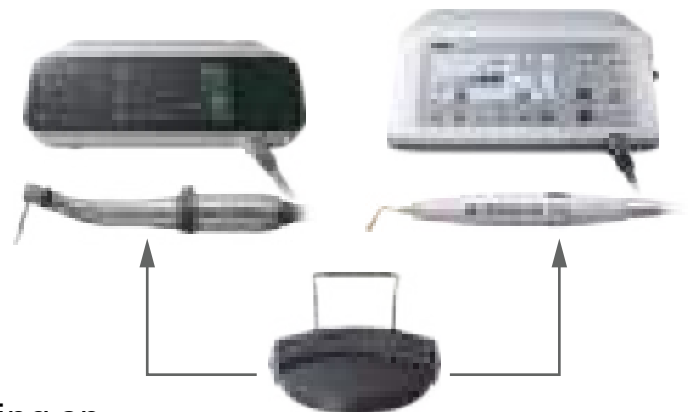
Link Stand 2



Link Module

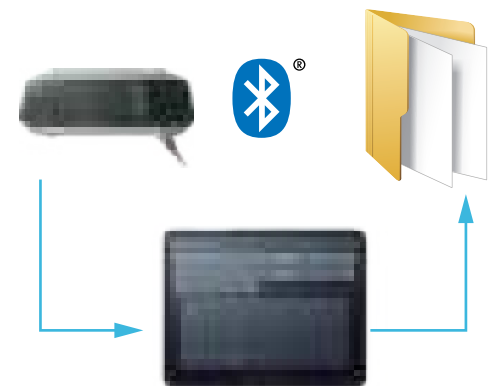
Two devices can be controlled with only one Foot Control.

You can easily switch between Surgic Pro2 and 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 (hanger 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

VarioSurg3

POWERFUL ULTRASONIC SURGICAL SYSTEM
WITH LED ILLUMINATION

Evolved potential

Embodying the pursuit of perfection

Ultrasonic bone surgery systems are essential in modern surgical and implant treatment. The powerful VarioSurg3 handpiece features a slim and lightweight body that ensures minimal hand fatigue and outstanding visibility. A variety of tips makes procedures easier and stress-free to help provide more precise and efficient treatment.

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.

Features

- Major Power Boost
- 3 Modes (SURG, ENDO, PERIO)
- Selectable Burst Mode
- 9 Programs (SURG x 5, ENDO x 2, PERIO x 2)
- Adjustable LED Light intensity
- Automatic Cleaning Mode
- Feedback Function
- Auto Tuning Function
- Dynamic Link Feature

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.

Complete Sets



Optic

VarioSurg3 Complete Set MODEL VarioSurg3 (230V)
ORDER CODE Y1002726

Contents

- Control unit • LED Handpiece with 2 m cord • FC-78 Foot Control • Sterilisation Cassette
- Handpiece Stand • Irrigation tube (5 pcs.) and other accessories
- Tip holder • Tips (H-SG1, SG3, SG5, SG6D, SG7D, SG11 : 1 pc. each)

Optic

VarioSurg3 Complete Set without Foot Control MODEL VarioSurg3 (230V) Non FT
ORDER CODE Y1002248

Contents

- Control unit • LED Handpiece with 2 m cord • Sterilization Cassette • Handpiece Stand
- Irrigation tube (5 pcs.) and other accessories
- Tip holder • Tips (H-SG1, SG3, SG5, SG6D, SG7D, SG11 : 1 pc. each)

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



VarioSurg3 Product Highlights

Trinity - Outstanding ultrasonic performance

Wattage is not the only factor determining cutting efficiency, 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. VarioSurg3 balances these three elements for the ultimate in ultrasonic performance.



Surgic Pro × VarioSurg3

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. By simply placing the two units on the Link Stand, adequate space and complete surgical treatment centre can be secured. The two systems can also be installed together compactly with a Link Stand that takes up minimal space.



Press the "SELECT" button to switch between VarioSurg3, Surgic Pro mode.

Stabilizing the power balance for more efficient procedures



The VarioSurg3 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.

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.



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.



SG Link Set (Optional)

MODEL VarioSurg3 Link set (E)
ORDER CODE Y1002729

Contents • SG Link Stand • SG Link Cable

Specifications

SG Link Stand • Dimensions: W 210 x D 300 x H 180 mm • Weight: 1.85 kg
SG Link Cable • Length: 355 mm



Carrying Case (Optional)

The Carrying Case neatly stores all VarioSurg3 components.

MODEL Carrying Case (VarioSurg3)
ORDER CODE Y1002768

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



Testimonial 1



Testimonial 2

Ti-Max X-DSG20L Dismantling Surgical Handpiece

Dismantlable contra-angle handling up to 80 Ncm of torque



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 (X-DSG20L) • Push Button Chuck
 • External and internal cooling • Double Sealing System
 • Max. Torque : 80 Ncm • Max. Speed : 2,000 min⁻¹

Double Sealing System

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



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.



Implant & Surgical Handpieces

Ti-Max X-SG20L 



(Old Model)

Optic MODEL X-SG20L ORDER CODE C1003

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

Ti-Max X-SG93L



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 • External cooling
 • Max. Speed : 120,000 min⁻¹ • For FG burs (ø1.6)

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 • External cooling
 • Max. Speed : 40,000 min⁻¹ • For CA burs (ø2.35)

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



Ti-Max Z-SG45L

The surgical handpiece Ti-Max Z-SG45 with its unique 45° head angle and straight body, allows easy access to previously hard to reach or inaccessible areas. When working on anterior teeth the handpiece angulation makes it easy to use adjacent teeth as finger rests. The newly developed 'DURAGRIP' offers safe and secure handling of the handpiece during surgical procedures as a result of a special surface treatment. Ti-Max Z-SG45 offers a new approach to surgical treatment.



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
• For FG burs (ø1.6 / 20-25 mm) • Anti Head System
• DLC Coating • Max. Speed : 120,000 min⁻¹

Triple Water Jets

NSK's triple water jets efficiently cool the entire bur and because it is a solid water jet instead of water and air spray there is no risk of emphysema and safe surgical procedures can be guaranteed.



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, using burs of up to 25mm makes instrument ideal for splitting roots.



Implant Handpieces

S-Max SG20



(Old Model)

Non-Optic MODEL SG20 ORDER CODE C1010

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

SGMS-ER20i

with Depth Indicator



Non-Optic MODEL SGMS-ER20i ORDER CODE Y110147

20:1 Reduction • External and internal cooling
• with two Depth Indicators, Wrench for
handpiece attachment, Ruler • Max. Speed :
2,000 min⁻¹

