

PROFESSIONAL PRODUCTS

2017/18



PROFESSIONAL PRODUCTS 2017/18



CREATE IT.

MESSAGE



Creating value that exceeds customer expectations

It is 87 years since Keiichi Nakanishi founded Nakanishi Manufacturing the original name of NSK. Over the years, we have drawn on our high-speed rotational know how to continuously innovate our growing range of dental equipment. We have built solid trust amongst customers in more than 135 countries supported by our 13 worldwide offices, securing NSK the No. 1 share of the global market for rotational dental instruments.

NSK is a top brand committed to serving the needs of dental practitioners, technicians and hygienists. Our continued development offers innovative design and unrivalled quality as well as outstanding value and performance all of which is supported by NSK's global sales network and first-class after-sales service.

We strive to continue to create value, to exceed expectations and to become an indispensable partner for our customers.



President & CEO
Eiichi Nakanishi

CREATE IT.

NSK exists to collaborate with people around the world to pursue technological innovations that create additional value by delivering superior products and service for our customers. Enhancing the lifestyles of the patients under their care. We are determined to remain a consistently creative partner in the years ahead.

RELEVANCE

PRECISION

CONFIDENCE

INNOVATION

SMILE

TOMORROW

PROFESSIONALISM





GLOBAL NETWORK

Setting up business units worldwide to satisfy local needs

Europe is NSK's biggest market. Over the past decade or so, we have established sales subsidiaries in Germany, France, the United Kingdom and Spain to bolster sales and support. In 2008 we constructed our European headquarters in Frankfurt. We also set up centralised warehousing and logistics capabilities to deliver products promptly to European customers and enhance their satisfaction.

Our global network encompasses subsidiaries that began operations in Dubai in 2000, Shanghai 2005 Russia and Oceania in 2007 and Singapore 2009. In 2011 we built a facility in suburban Chicago to oversee sales and service in the United States and Canada. The latest addition to our network is a subsidiary which we established in Brazil in 2013.

NSK Product Lineup

NSK AIR TURBINES



Ti-Max Z / S-Max M / Pana-Max2

NSK CONTRA-ANGLES



Ti-Max Z / Ti-Max Z45L / Ti-Max X / S-Max M

NSK CLINICAL MICROMOTORS



Multi Pad



NLX nano / NLX plus



NBX / M40 XS

NSK ORAL HYGIENE



Varios Combi Pro



Varios 970



Ti-Max S970



Prophy-Mate neo Perio-Mate

NSK ENDODONTICS



ENDO-MATE TC2



ENDO-MATE DT



iPexII

NSK MOBILE DENTISTRY



Dentalone



VIVA ace



VIVAMATE G5

NSK SURGICAL



Surgic Pro



X-DSG20L / SG20



VarioSurg3

NSK AUTOCLAVE



iClave plus



iClave mini

NSK MAINTENANCE



iCare+



iCare



PANA SPRAY Plus

NSK DENTAL LABORATORY



ULTIMATE XL



VOLVERE i7



PRESTO AQUA LUX

NSK Advantages

NSK Cellular Glass Optic

Cellular Glass Optic delivers brilliant illumination, is highly durable and will not deteriorate due to repeated sterilization.



NSK Ceramic Bearings

Ceramic Bearings are 25% harder than conventional steel bearings but are only half the weight. Because frictional wear between the ball bearings and the bearing retainer is significantly reduced the efficiency and durability is significantly increased.



NSK Clean Head System

The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings.



NSK Push Button Chuck

Push Button Chuck is NSK's original push button auto-chuck mechanism that tightens the bur grip during rotation. It allows one-touch bur insertion and removal without tools. The bur lock mechanism is designed so that bur retention strength increases when high loads are applied to the bur.



NSK Quattro Water Spray

The NSK Quattro Water Spray effectively cools the entire surface of the bur with a high cooling effect, leaving no areas uncovered.



NSK Non-Retraction Valve

A Non-Retraction Valve is integrated inside the coupling and inside air motors. It prevents retraction of contaminated fluids into the handpiece water lines. In combination with the Clean Head System, the Non-Retraction Valve provides an effective method to effectively reduce possible internal contamination.



NSK Ergonomic Comfort Grip

NSK is dedicated to designing handpieces that adapt comfortably to the human hand form, even during extended treatment periods. This is relevant to all hand sizes. Titanium is the optimum material to especially offer lightweight comfort, tactile sensitivity, and the ideal grip texture even for gloved hands.



NSK Scratchless DURAGRIP

Special surface processed body pursuing usability and operability is designed to improve comfortability of holding while equal scratch resistancy as DURACOAT is maintained.



NSK Scratchless DURACOAT

DURACOAT, NSK's latest surface enhancement technology, takes advantage of the non allergic and biocompatible properties of titanium to further improve durability. DURACOAT creates a smooth, scratch resistant surface which is comfortable to hold.



Autoclavable

All NSK handpieces offer superior durability and continued performance, even when frequently autoclaved. All handpieces may be autoclavable up to 135°C.



Thermo-disinfector Ready

Disinfecting handpieces prior to autoclaving is a recommendable practice for more effective infection control. The symbol mark on your NSK product means you can cleanse and disinfect the handpiece using a thermo-disinfector.



LED : Indicates with LED illumination

Optic : Indicates with optic illumination **Non-Optic** : Indicates without optic illumination

Contents

MESSAGE	1
CREATE IT.	2-3
GLOBAL NETWORK	4-5
NSK Product Lineup	6-7
NSK Advantages	8
NSK Couplings	10-12

NSK AIR TURBINES 14-47

Ti-Max Z Series / S-Max M Series	16-31
S-Max pico Series / Ti-Max X450 Series	32-39
Pana-Max PLUS / Pana-Max2 / PHATELUS Optic Control System	40-46

NSK CONTRA-ANGLES 48-81

Ti-Max Z Series / Ti-Max Z45L / nano Series	50-65
Ti-Max X Series / Ti-Max X95EX / S-Max M Series	66-71
FX Series / EX Series / isoE-LUX	72-80

NSK CLINICAL MICROMOTORS 82-97

Multi Pad / NLX nano / NLX plus / NBX / M40 XS	84-93
Air Motors	94-97

NSK ORAL HYGIENE 98-155

Varios Combi Pro / Varios 970 / 570 / 370 / 170	100-110
Varios Ultrasonic Scaler Tips	112-133
Ti-Max S970 Air Scalers / AS2000 Air Scalers / Air Scaler Tips	134-145
Prophy-Mate neo / FLASH pearl / Cleaning Powder	146-150
Perio-Mate / Perio-Mate Powder	152-155

NSK ENDODONTICS 156-165

ENDO-MATE TC2 / ENDO-MATE DT / iPexII	158-163
Ti-Max Ti-ENDO / EX-ENDO 128	164

NSK MOBILE DENTISTRY 166-179

Dentalone / VIVA ace / VIVAMATE G5	168-179
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NSK SURGICAL 180-227

Surgic Pro / Surgic Pro+	182-193
Implant Handpieces / Micro Surgery Handpieces / Micro Saw Handpieces	194-203
iSD900	204-205
VarioSurg3 / VarioSurg Ultrasonic Surgery Tips	206-227

NSK AUTOCLAVE 228-243

iClave plus / iClave mini	230-242
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NSK MAINTENANCE 244-261

iCare+ / iCare / Multi Stands	246-257
PANA SPRAY Plus / Spray Mist Absorber / PANA SPRAY Plus Nozzles / Multi Gauge	258-259
Handpieces Air Pressures	260-261

NSK DENTAL LABORATORY 262-277

ULTIMATE XL / XL-D / XL-K / XL-F	264-271
VOLVERE i7	272-273
PRESTO AQUA LUX / PRESTO AQUA II / PRESTO II	274-277

Spare Parts / Turbine Cartridges Quick Guide	278-299
THE ENVIRONMENT / NSK Companies Worldwide	300-302

LED Couplings

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



LUX Coupling



Optic MODEL PTL-CL-LED ORDER CODE P1001600



- For NSK



LUX Coupling



Optic MODEL PTL-CL-LEDIII 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

NSK Couplings

- Stainless Steel Body
- Non-Retraction Valve



Midwest 4 hole



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



Borden 2 / 3 hole



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



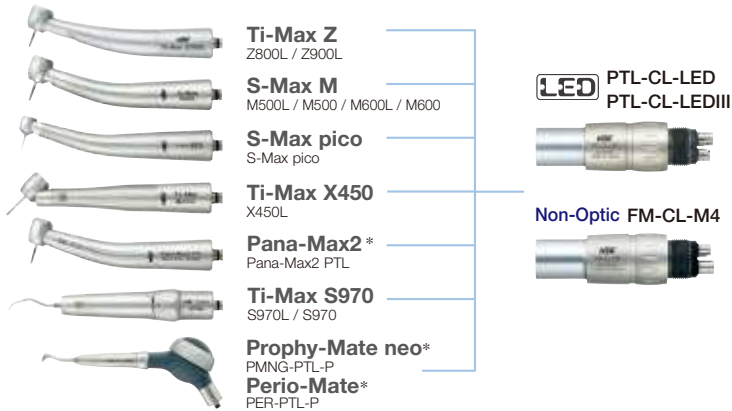
Midwest 4 hole



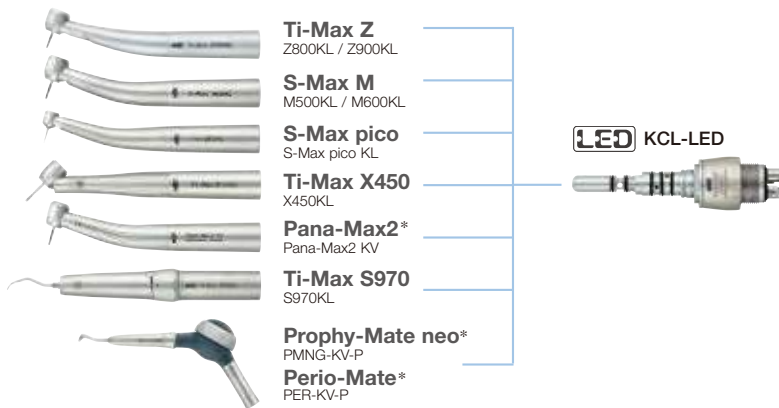
Non-Optic MODEL QD-J M4 ORDER CODE T334051

NSK Coupling System

NSK



KaVo®

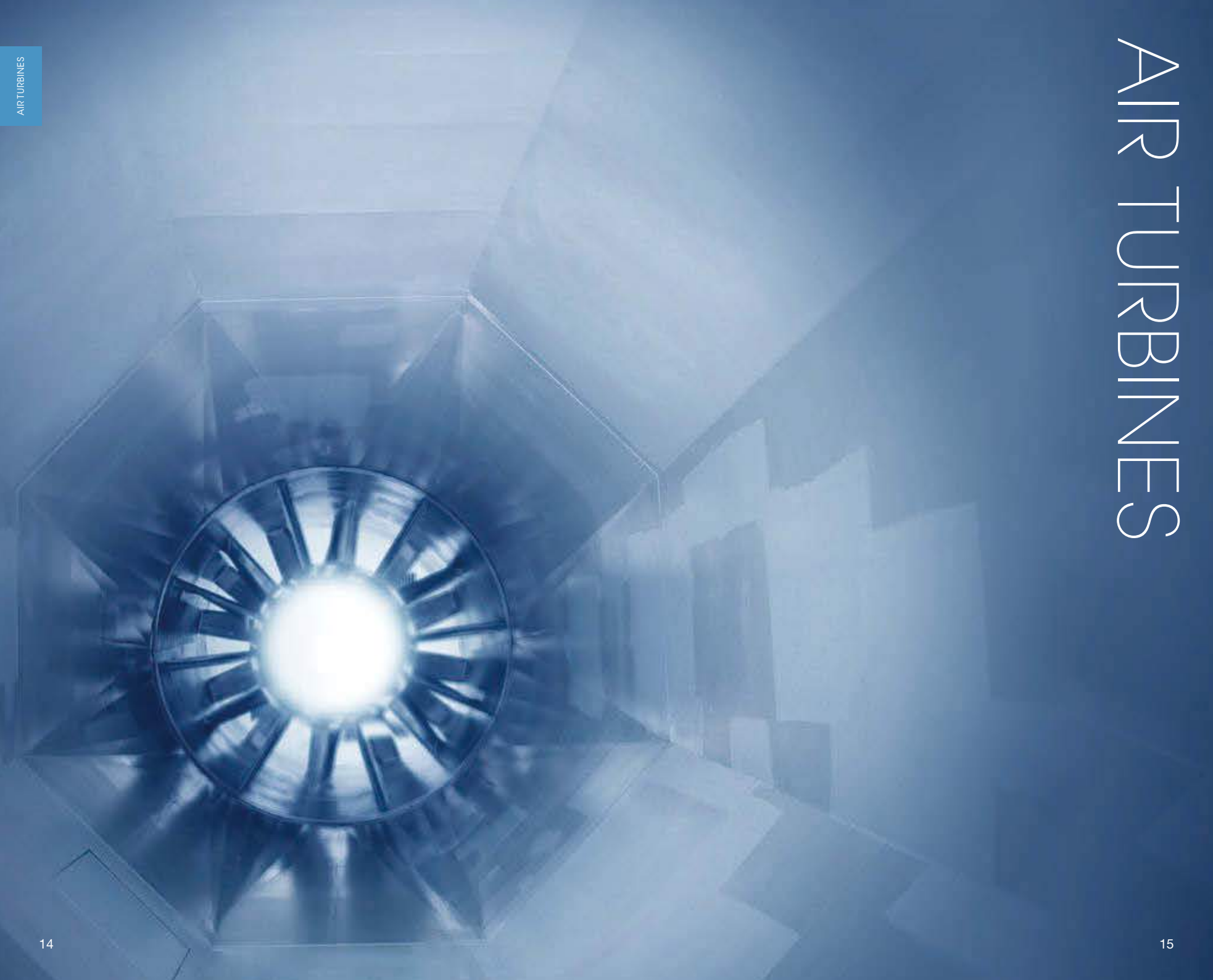


Sirona®



* Handpiece will operate without optic illumination

AIR TURBINES



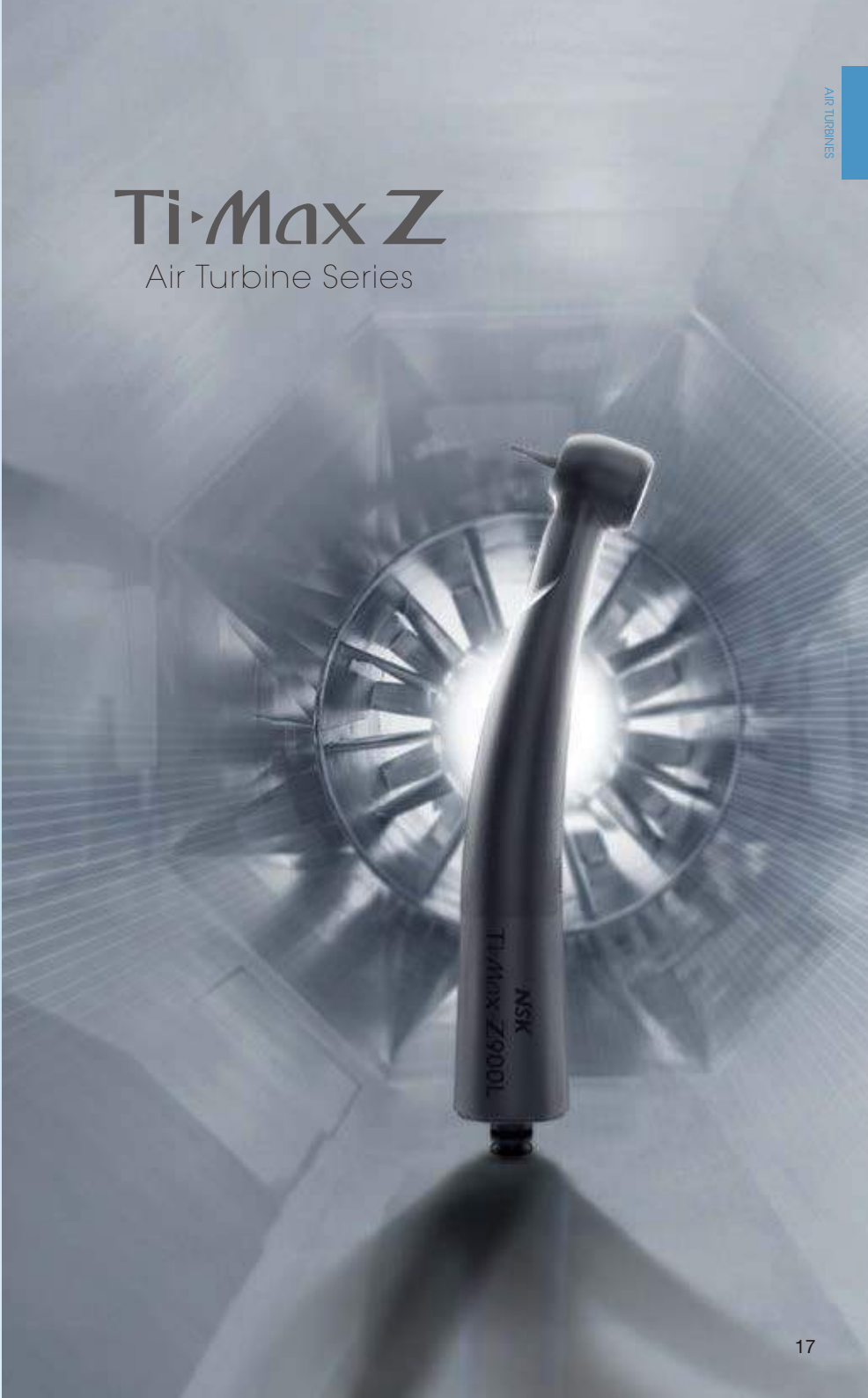
Which Handpiece?

Choose the handpiece that matches your hand.

	Ti·Max Z	S·Max M	Ti·Max X450	S·Max pico	Pana·Max PLUS	Pana·Max2
						
Grade	PREMIUM	ADVANCED	SPECIAL	SPECIAL	BASIC	BASIC
Body	Titanium	Stainless	Titanium	Stainless	Stainless	Stainless
DURAGRIP	●					
DURACOAT			●			
Ceramic Bearings	●	●	●	●	●	●
Cellular Glass Optics	●	●	●	●		
Clean Head System	●	●	●	●	●	●
Push Button Chuck	●	●	●	●	●	●
Water Spray	Quattro	Quattro	Triple	Single	Quattro	Single
Microfilter	●					
Ergo Grip	●	●	●	●	●	●

Ti·Max Z

Air Turbine Series



POWERFUL

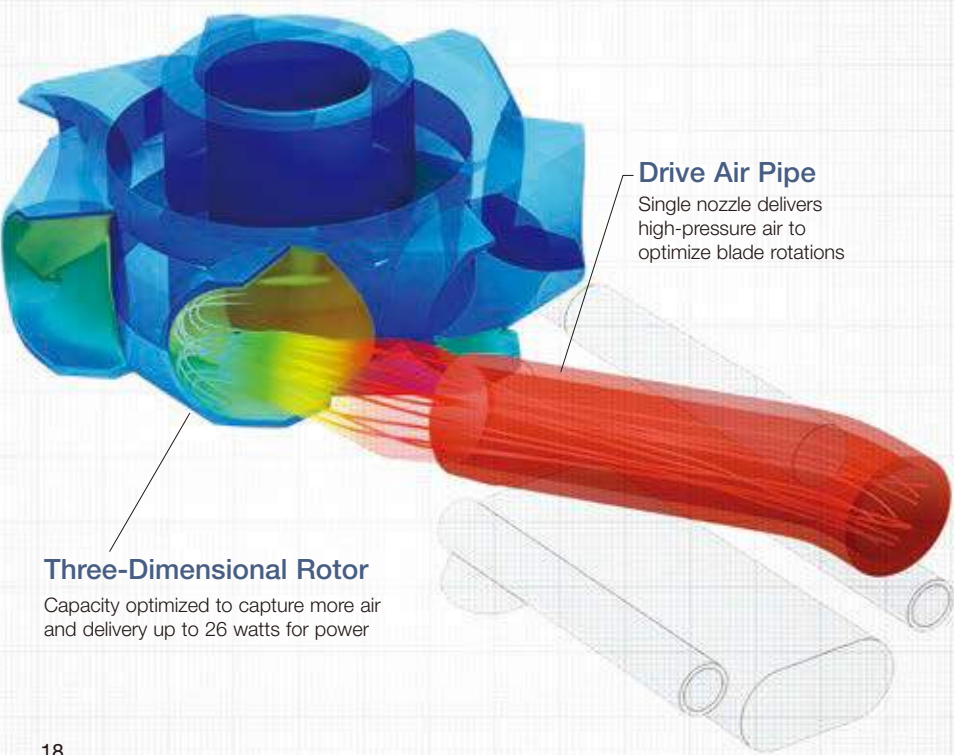
Evolving to Redefine Performance

Z turbines deliver consistent power, and due to their ergonomic design they are easier to handle and give a more comfortable patient experience. Z series turbines deliver everything and more than you would expect from a high performance air turbine.

All of this is the result of our ethos of consistently aiming to exceed expectations, uncompromising product design and ultra precision manufacturing technology to deliver ever improving levels of comfort for clinicians and patients.

With up to an incredible 26 watts* of output, our air turbines will revolutionize your dental practice.

*With the Z900L

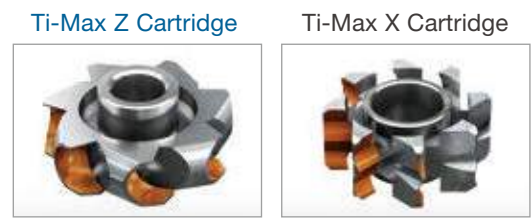


Miniature Parts for Maximum Power, Reflecting NSK's Pursuit of The Optimum Rotor Shape

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.

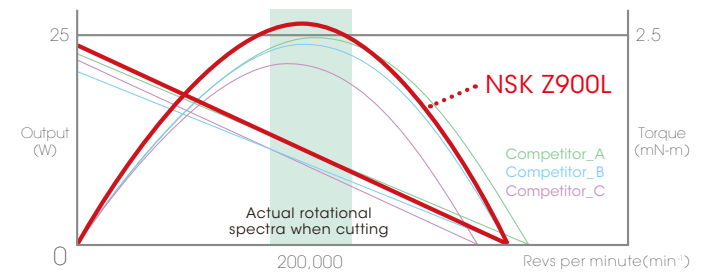
*With the Z900L



Blade surface 50% larger

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.

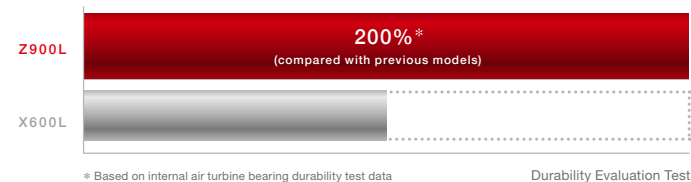


DURABLE

Our Powerful and Durable Air Turbines
Maintain Long-term Comfort and Stability



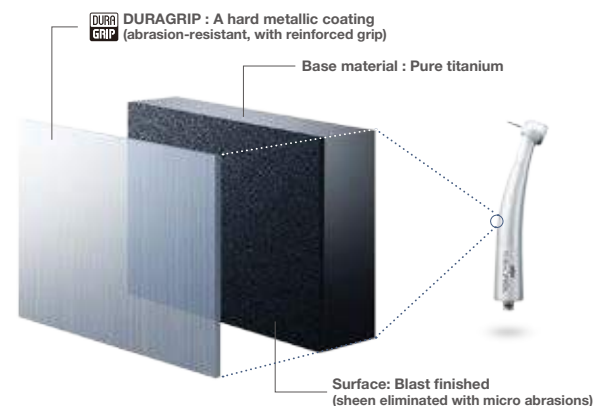
Advanced Technology a Key Factor in Significantly Increased Durability of Ti-Max Z



We completely redesigned the shape and found better materials for the bearing retainer to reduce frictional resistance and developed a new type of bearing to almost double the durability to accommodate constant thermodisinfector 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.



TECHNOLOGY & FUNCTION

New Bearings

These bearings enable outstanding high-speed rotation and stability and are twice as durable as existing counterparts.

New Three-Dimensional Rotor

We created a three-dimensional curved rotor to deliver an impressive 26 watts power output.

DURAGRIP

Our proprietary scratch- and abrasion-resistant surface treatment increases durability and ensures a reliable grip.

Microfilter

A 0.3 mm diameter microfilter keeps contaminants out of the water spray system, dramatically reducing blockages and enhancing treatment hygiene.

Clean Head System

The patented NSK Clean Head System automatically keeps oral fluids and other contaminants out of the instrument head, prolonging the life of the bearing and ensuring more hygienic treatment.

Compatible with Other Couplings

The line-up features models that are compatible with most coupling systems currently available in the market.

Ti-Max Z PREMIUM

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

Connect to NSK Couplings 



Quattro Spray



Optic MODEL **Z800L** ORDER CODE **P1110**

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



Optic MODEL **Z900L** ORDER CODE **P1111**

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

Connect Direct to KaVo® Coupling 



Optic MODEL **Z800KL** ORDER CODE **P1112**

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



Optic MODEL **Z900KL** ORDER CODE **P1113**

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



Washable in the thermoisinfecteur



Autoclavable up to 135°C



Washable in the thermoisinfecteur



Autoclavable up to 135°C

Ti-Max Z PREMIUM

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

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

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

Connect Direct to Sirona® Coupling



Connect Direct to Bien-Air® Coupling



Connect Direct to W&H® Coupling



S-Max M



Slim Ergonomic Design and Unrivalled Cutting Performance

S-Max M series air turbines feature unrivalled cutting performance, a slim ergonomically designed body and excellent visibility. It has been developed to realize what dentists need in their practice.

For easy maintenance of S-Max M air turbines, cartridges can be replaced easily in your practice helping you to control cost and down-time. S-Max M series has been designed without compromise to pay attention to every detail.

S-Max M

ADVANCED

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

Connect to NSK Couplings



Quattro Spray



Optic MODEL **M500L** ORDER CODE **P1001**
Non-Optic MODEL **M500** ORDER CODE **P1003**

Miniature Head : Power : 16 W, Speed : 380,000~450,000 min⁻¹, Head Size : ø10.6 x H 12.4 mm



Optic MODEL **M600L** ORDER CODE **P1002**
Non-Optic MODEL **M600** ORDER CODE **P1004**

Standard Head : Power : 20 W, Speed : 360,000~430,000 min⁻¹, Head Size : ø12.1 x H 13.3 mm



Washable in the
thermodisinfectant



135°C Autoclavable
up to 135°C

S-Max M

ADVANCED

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

Connect Direct to KaVo® Coupling



Optic MODEL M500KL ORDER CODE P1005
Non-Optic MODEL M500K ORDER CODE P1007

Miniature Head : Power : 16 W, Speed : 380,000~450,000 min⁻¹, Head Size : ø10.6 x H 12.4 mm



Optic MODEL M600KL ORDER CODE P1006
Non-Optic MODEL M600K ORDER CODE P1008

Standard Head : Power : 20 W, Speed : 360,000~430,000 min⁻¹, Head Size : ø12.1 x H 13.3 mm

Standard Head : Power : 20 W, Speed : 360,000~430,000 min⁻¹, Head Size : ø12.1 x H 13.3 mm

Connect Direct to Sirona® Coupling



Standard **Optic** MODEL M600SL ORDER CODE P1010

Connect Direct to W&H® Coupling



Standard **Optic** MODEL M600WLED* ORDER CODE P1096

Connect Direct to Bien-Air® Coupling



Standard **Optic** MODEL M600BLED* ORDER CODE P1057



Washable in the thermodisinfectant



Autoclavable up to 135°C

*Compatible Turbines with Integral LED



Washable in the thermodisinfectant



Autoclavable up to 135°C

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 body design is the result of fine NSK precision engineering allowing a wider view of the operational field, and greater flexibility for dexterity.



Comparison of head sizes



Improve The Accuracy of Operation with The Microscope

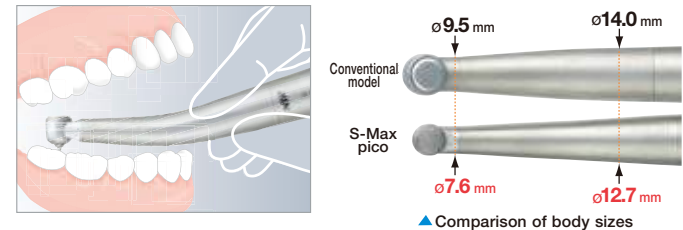


The ultra mini head delivers expanded operational visibility and greater flexibility. Patient comfort is increased.

In combination with mirror technique



Size Specifications of The S-Max pico Series



Dedicated Burs for S-Max pico Series

NSK has developed special ultra short shank burs to operate specifically with the pico handpiece. These high quality precision burs are concentric and durable. Use of NSK ultra short shank burs maximises the mini advantage of the pico handpiece.



Original bur of high precision (Rotational speed: 400,000 min⁻¹)

S-Max pico

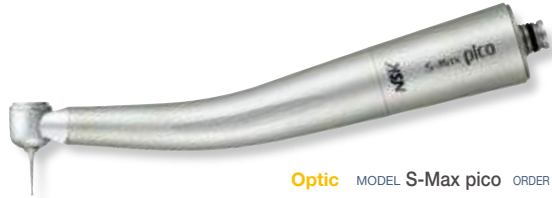
SPECIAL

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

Connect to NSK Couplings



Single Spray



Optic MODEL S-Max pico ORDER CODE P1140

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

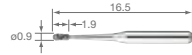
Power : 9 W, Speed : 380,000~450,000 min⁻¹, Head Size : ø8.6 x H 9.0 mm
• For short shank burs / ultra short shank burs

Connect Direct to KaVo® Coupling



Optic MODEL S-Max pico KL ORDER CODE P1142

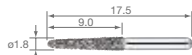
pico bur product lineup



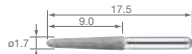
MODEL PC1 ORDER CODE Y1001817
• Pack of 3



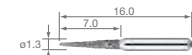
MODEL PC2 ORDER CODE Y1001818
• Pack of 3



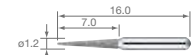
MODEL PC3 ORDER CODE Y1001819
• Pack of 3



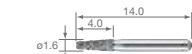
MODEL PC3ff ORDER CODE Y1002019
• Extra fine bur • Pack of 3



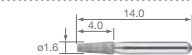
MODEL PC4 ORDER CODE Y1001820
• Pack of 3



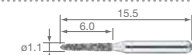
MODEL PC4ff ORDER CODE Y1002020
• Extra fine bur • Pack of 3



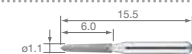
MODEL PC5 ORDER CODE Y1001821
• Pack of 3



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

Connect Direct to Sirona® Coupling



Optic MODEL S-Max pico SL ORDER CODE P1143

Connect Direct to W&H® Coupling



Optic MODEL S-Max pico WLED* ORDER CODE P1145

Connect Direct to Bien-Air® Coupling



Optic MODEL S-Max pico BLED* ORDER CODE P1144

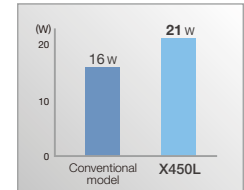
Ti-Max X450

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.

A Potent 21 W of Cutting Power

NSK's original twin-nozzle head fully transmits the power of the air turbine to the X450's rotor, generating the high torque needed for powerful, consistent cutting.



Triple Water Jets & Cellular Glass Optics

NSK's Triple Water Jet system efficiently bathes the bur at all operating speeds, providing maximum cooling.



The Ti-Max X450 Permits Optimal Access to Molars and a Diverse Range of Operative Procedures.

Mandibular Right Third Molar Extraction



Ti-Max X450



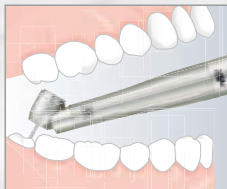
Standard Turbine's Head Angle

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.

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

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.



Ti-Max X450 SPECIAL

- Titanium Body with Scratch Resistant DURACOAT
- 45° Angle Head • Cellular Glass Optics
- Ceramic Bearings • Clean Head System
- Push Button Chuck • Triple Water Jet

Connect to NSK Couplings 



Triple Water Jet



Optic MODEL X450L ORDER CODE P1078

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

Power : 18 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

Connect Direct to KaVo® Coupling



Optic MODEL X450KL ORDER CODE P1079

Connect Direct to Sirona® Coupling



Optic MODEL X450SL ORDER CODE P1080

Connect Direct to W&H® Coupling



Optic MODEL X450WLED* ORDER CODE P1082

Connect Direct to Bien-Air® Coupling



Optic MODEL X450BLED* ORDER CODE P1081



Washable in the
thermodisinfecteur



135°C Autoclavable
up to 135°C

*Compatible Turbines with Integral LED



Washable in the
thermodisinfecteur



135°C Autoclavable
up to 135°C

Pana-Max PLUS

BASIC

- Stainless Steel Body
- Ceramic Bearings
- Clean Head System
- Push Button Chuck
- Quattro Spray

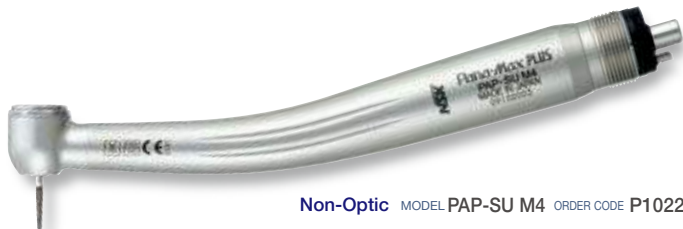


Quattro Spray



Non-Optic MODEL PAP-MU M4 ORDER CODE P1021

Miniature Head : Speed : 380,000~450,000 min⁻¹
Head Size : ø10.6 x H 12.4 mm • Midwest 4 hole



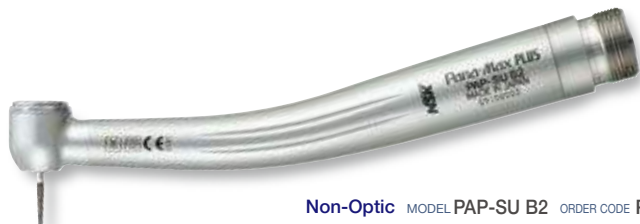
Non-Optic MODEL PAP-SU M4 ORDER CODE P1022

Standard Head : Speed : 340,000~410,000 min⁻¹
Head Size : ø12.1 x H 13.3 mm • Midwest 4 hole



Non-Optic MODEL PAP-MU B2 ORDER CODE P1023

Miniature Head : Speed : 380,000~450,000 min⁻¹
Head Size : ø10.6 x H 12.4 mm • Borden 2 hole



Non-Optic MODEL PAP-SU B2 ORDER CODE P1024

Standard Head : Speed : 340,000~410,000 min⁻¹
Head Size : ø12.1 x H 13.3 mm • Borden 2 hole



Connect to NSK Couplings



Non-Optic MODEL PAP-QD MU ORDER CODE P1015

Miniature Head : Speed : 380,000~450,000 min⁻¹
Head Size : ø10.6 x H 12.4 mm



Non-Optic MODEL PAP-QD SU ORDER CODE P1016

Standard Head : Speed : 340,000~410,000 min⁻¹
Head Size : ø12.1 x H 13.3 mm



Washable in the thermoisinfector



Autoclavable up to 135°C



Washable in the thermoisinfector



Autoclavable up to 135°C

Pana·Max2

Evolution of PANA-MAX

Pana-Max2 offers much more endurance and power than previous models, while being just as easy to handle. Its sleek design provides maximum visibility of the operating field, easily reaching all areas of the oral cavity.



Slim-Line Stainless Steel Body

Pana-Max2'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.

Unsurpassed Durability

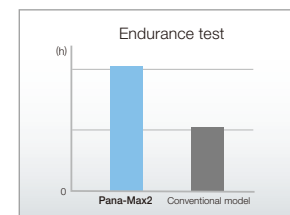
Built to Excel in Clinical Situations. Featuring a Scratch-resistant Stainless Steel Body and Sturdier Turbine Head.

Thanks to its uniquely designed shock-resistant head design, Pana-Max2's turbine rotor won't get damaged even if dropped from two meters onto a concrete floor.



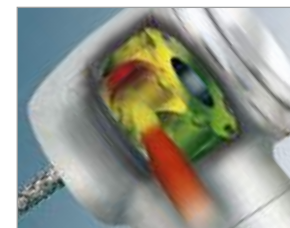
Exceptional Longevity.

Newly designed bearing structure with greater wear resistance and extended lifespan.



30% Power Boost

Pana-Max2 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.



Pana-Max2

BASIC

- Stainless Steel Body
- Ceramic Bearings
- Clean Head System
- NSK Ultra Push Chuck
- Single Spray

Connect to NSK Couplings



Single Spray



Non-Optic MODEL Pana-Max2 PTL ORDER CODE P1211

Speed : 350,000~450,000 min⁻¹, Head Size : ø11.2 x H 13.4 mm

Connect Direct to KaVo® Coupling



Non-Optic MODEL Pana-Max2 KV ORDER CODE P1212

Speed : 350,000~450,000 min⁻¹, Head Size : ø11.2 x H 13.4 mm

Direct-connect / Screw-on Type



Non-Optic MODEL Pana-Max2 M4 ORDER CODE P1154

Speed : 350,000~450,000 min⁻¹, Head Size : ø11.2 x H 13.4 mm

- Midwest 4 hole



Non-Optic MODEL Pana-Max2 B2 ORDER CODE P1155

Speed : 350,000~450,000 min⁻¹, Head Size : ø11.2 x H 13.4 mm

- Borden 2 hole



Washable in the thermoisinfector



Autoclavable up to 135°C



Washable in the thermoisinfector



Autoclavable up to 135°C

PHATELUS LIGHT PACK

Compact Unit For Illumination Control of 2 Optic Handpieces.
For Integration Into All Dental Equipment.

Features

- Special integrated circuitry to increase the bulb life.
- Illumination intensity is adjustable individually for 2 optic handpieces.
- Automatic activation of handpiece illumination.
- Illumination delay (adjustable between 0.5-4.5 seconds) can be set individually for 2 handpieces.
- Illumination can remain active after the handpiece has stopped rotation.
- Simple installation into any brand of new or existing dental unit.
- Indicator lamp confirms correct operation of the system.
- Phatelus optic hoses fit directly to all brands of LUX handpiece couplings.
- Lightweight Phatelus hose reduces hand fatigue.
- The Phatelus hose may be cleaned with reputable disinfectants.
- Operates all brands of optic handpieces.



Phatelus Optic Complete Sets



MODEL PTL Optic Pack (120 V) ORDER CODE Y103722
MODEL PTL Optic Pack (230 V) ORDER CODE Y103723

Contents

- PTL Control Module
- Hose (PTL-4HP)
- PTL Adaptor

Individual Components



MODEL PTL Control Module ORDER CODE U360011

- Dimension : W 50 x D 90 x H 26 (mm)
- Weight : 120 g



MODEL PTL Adaptor (120 V) ORDER CODE U360033

MODEL PTL Adaptor (230 V) ORDER CODE U360032



MODEL PTL-4HP ORDER CODE P421



- Optic Hose
- LUX Coupling

CONTRA-ANGLES

CONTRA-ANGLES

Which Handpiece?

Choose the handpiece that matches your hand.

	Ti·Max Z	Ti·Max Z45L	nano series	Ti·Max X	S·Max M	FXseries
						
	Ti·Max Z95L	Ti·Max Z45L	Ti·Max nano95L	Ti·Max X95L	S·Max M95L	FX25m
Grade	PREMIUM	SPECIAL	SPECIAL	ADVANCED	ADVANCED	BASIC
Head Size	ø8.9 x H 13.4 mm (Super mini)	ø9.6 x H 14.5 mm	ø8.9 x H 13.4 mm (Super mini)	ø10.0 x H 14.6 mm	ø10.0 x H 14.6 mm	ø9.6 x H 13.4 mm
Body	Titanium	Titanium	Titanium	Titanium	Stainless	Stainless
DURAGRIP	●	●	●			
DURACOAT				●		
DLC Coating	●	●	●			
Anti Heat System	●	●	●	●	●	
Ceramic Bearings	●	●	●	●	●	
Cellular Glass Optics	●	●	●	●	●	
Clean Head System	●	●	●	●	●	●
Push Button Chuck	●	●	●	●	●	●
Water Spray	Quattro	Quattro (Water Jet / Mist)	Quattro	Quattro	Quattro	
Microfilter	●	●	●	●		
Ergo Grip	●	●	●	●	●	●



Ti·Max Z
Contra-angle Series

DURABLE

A Stunningly Durable and Reliable Handpiece

NSK has combined advanced design and world-class processing technology to create incredibly durable instruments. The gear is coated with special diamond-like carbon to make wear resistance up to five times greater than on previous models. NSK's advanced technologies have boosted sterilization resistance, delivering even better reliability for dental practices.



COMFORT

The Ultimate in Handpieces The Result of Invaluable Clinical Feedback

The handpiece is more user-friendly, cleaner, and safer. By reviewing everything from the shape of the instrument, to hygiene aspects and safety features using the most advanced technologies, we have made the contra-angle more ergonomic and comfortable for the clinician and safer for the patient, reducing stress for clinicians and patients alike. Only NSK's Ti-Max Z premium range offers these unique features.



ADVANCED TECHNOLOGY

Amazingly Silent Operation

Amazing silence and minimal vibration: The marriage of micro-precision parts and gears has lowered noise and vibration even more to provide comfort for clinicians and patients alike.



Anti Heat System (Z95L, Z85L, Z84L)

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

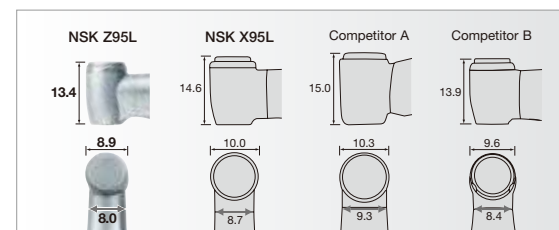
OUTSTANDING OPERABILITY

The Smallest Head

The head is angled 2° more than on the 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.



TECHNOLOGY & FUNCTION

Anti Heat System

Our proprietary Anti Heat System dramatically reduces heat generation to prevent burning.

(With Z95L/Z85L/Z84L)

DLC Coating

We have boosted anti-wear performance by coating the gear with special diamond like carbon.

(Only in models with increasing gear ratios.)

DURAGRIP

Our proprietary scratch- and abrasion-proof surface treatment increases durability and ensures a secure grip.

Microfilter

A 0.3 mm diameter microfilter keeps contaminants out of the water spray system, dramatically reducing blockages and enhancing treatment hygiene.

Clean Head System

The patented NSK Clean Head System automatically keeps oral fluids and other contaminants out of the instrument head, prolonging the life of the bearing and ensuring more hygienic treatment.

Amazing Silence and Minimal Vibration

The marriage of micro-precision parts and gears has lowered noise and vibration even more.

Ti-Max Z PREMIUM

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



Quattro Spray



Optic 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

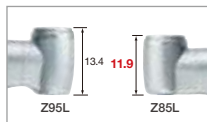


Single Spray



Optic MODEL Z85L ORDER CODE C1062

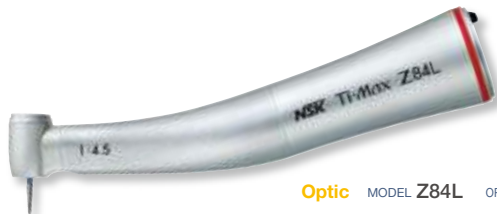
- 1:5 Increasing** • Exceptional Durability • Single Spray • Miniature Head
• For FG burs (ø1.6) • Ceramic Bearings • DLC Coating
• Anti Heat System • Max Speed: 200,000 min⁻¹
*Short Shank burs only



Head size comparison
Z85L offering extraordinary
visibility and accessibility.

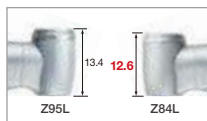


Quattro Spray

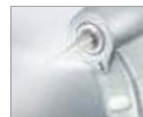


Optic MODEL Z84L ORDER CODE C1135

- 1:4.5 Increasing** • Exceptional Durability • Quattro Spray • Miniature Head
• For FG burs (ø1.6) • Ceramic Bearings • DLC Coating
• Anti Heat System • Max Speed: 180,000 min⁻¹
*Short Shank burs only



Head size comparison
Z84L offering extraordinary
visibility and accessibility.



Single Spray



Optic MODEL Z25L ORDER CODE C1038

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



Optic MODEL Z24L ORDER CODE C1126

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



Optic MODEL Z15L ORDER CODE C1039

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



Optic MODEL Z10L ORDER CODE C1040

- 16:1 Reduction** • Single Spray • For CA burs (ø2.35)
• Max Speed: 2,500 min⁻¹

Ti-Max Z45L SPECIAL

45-degree Angled Head Supplies Superior Accessibility and Maximum Visibility

The world's first 45-degree contra-angle, Ti-Max Z45L provides effortless access to hard-to-reach molars that a standard contra-angle simply can't match. The slim-form Ti-Max Z45L also offers excellent visibility and high operability, creating more space between adjacent teeth and the handpiece body. Ti-Max Z45L's powerful and consistent cutting shortens treatment time for time-consuming sectioning and third-molar extractions compared to standard contra-angles, dramatically reducing stress for both clinicians and patients.



2015 Edison Awards Gold Award Winner

The Ti-Max Z45L, the premium model in NSK's Contra-angle Series, won the gold in the newly-established "Dental & ENT Surgical Tools" category of the 2015 Edison Awards as the world's first 45-degree contra-angle.

- Titanium Body with Scratch Resistant DURAGRIP
- 45° Angle Head
- Cellular Glass Optics
- Ceramic Bearings
- Clean Head System
- Push Button Chuck
- Quattro Spray (with two way spray function)
- Microfilter
- Anti Heat System
- DLC Coating



Optic MODEL **Z45L** ORDER CODE **C1064**

1:4.2 Increasing • For FG burs (ø1.6)
• Max Speed: 168,000 min⁻¹



Superior Accessibility

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



Sectioning a Mandibular Left Impacted Third Molar



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



Caries Removal from a Maxillary Left Second Premolar on Palatal Side



Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar



Two-Way Spray Function

The world's first two-way spray function allows you to instantly choose between a mist or jet spray depending on the conditions and procedure. The water jet spray prevents subcutaneous emphysema in surgical procedures, and the mist spray effectively cools the bur while cutting.

nano series

Shorter, Perfectly Balanced

Shorter, lighter and perfectly balanced, "nano series" instruments are designed to be natural extensions of the clinician's hand, ensuring smoother procedures. Even during implant operations that require delicate and precise movements, a "nano series" faithfully mirrors the user's intent. NSK continues to challenge the limits of manufacturing and pioneer next-generation contra-angles.



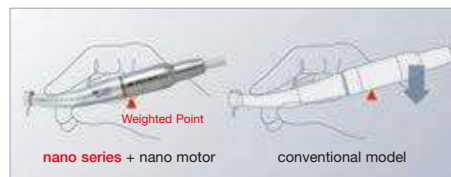
Features

- Perfect Balance
- Exceptionally Small Head and Slim Body
- Clear Visibility and Easy Access
- Amazingly Quiet Operation

Perfect Balance

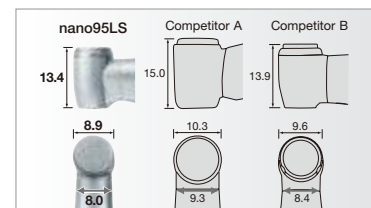
NSK's nano series preserves the high performance NSK contra-angles are known for, while these new instruments are approximately 10 percent smaller and lighter than conventional models. Yet, in combination with NLX nano micromotor nano series gives you the ease of manoeuvrability and accuracy you are used to from your air-turbine.

Reducing size and weight shifts the center of gravity to an optimal position, dramatically reducing fatigue during procedures and improving your fingertip dexterity.



Smaller and Slimmer

nano95LS has smaller head and slimmer neck dimensions.



Outstanding Durability

The nano95LS gear shapes have been designed using High Spec 3D simulation software to achieve optimal results in terms of durability and noise level minimization. In addition, special DLC Coating (Diamond-Like-Carbon) is applied to the gears, dramatically increasing durability.

nano Series instruments are compatible with NSK motor line up (NLX nano, NLX plus, M40LED, NBX, NBX N, X205L, M205LG and SGL70M micromotors) and other motors with insert less than 23 mm.

nano series SPECIAL

- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics • Clean Head System
- Push Button Chuck (Exclude nano65LS)



Quattro Spray



Optic MODEL nano95LS ORDER CODE C1099

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



Single Spray



Optic MODEL nano25LS ORDER CODE C1100

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



Optic MODEL nano15LS ORDER CODE C1101

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

Straight Handpiece



Optic MODEL nano65LS ORDER CODE H1048

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

*Need to insert the supplied bur stopper



Washable in the
thermodisinfector



135°C Autoclavable
up to 135°C



Washable in the
thermodisinfector



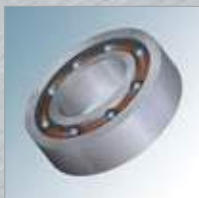
135°C Autoclavable
up to 135°C

Ti-Max X



Clean Head System

The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings.



Ceramic Bearings

Ceramic Bearings are 25% harder than conventional steel bearings but are only half the weight. Because frictional wear between the ball bearings and the bearing retainer is significantly reduced the efficiency and durability is significantly increased. (X95L / X95)

Ti-Max X ADVANCED

- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics • Clean Head System
- Push Button Chuck (Exclude X65L / X65)
- Microfilter (Exclude X65L / X65)



Quattro Spray



Optic MODEL X95L ORDER CODE C600
Non-Optic MODEL X95 ORDER CODE C610

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



Single Spray



Optic MODEL X25L ORDER CODE C601
Non-Optic MODEL X25 ORDER CODE C611

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



Optic MODEL X15L ORDER CODE C602
Non-Optic MODEL X15 ORDER CODE C612

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

Straight Handpiece



Optic MODEL X65L ORDER CODE H273
Non-Optic MODEL X65 ORDER CODE H274

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

Ti-Max X ADVANCED

- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics
- Microfilter (Exclude X57L / X57 / X95EX)



Single Spray



Optic MODEL X12L ORDER CODE C606
Non-Optic MODEL X12 ORDER CODE C616

- 10:1 Reduction**
- Single Spray
 - For CA burs (ø2.35)
 - Clean Head System
 - Push Button Chuck
 - Max Speed: 4,000 min⁻¹

External Water Spray



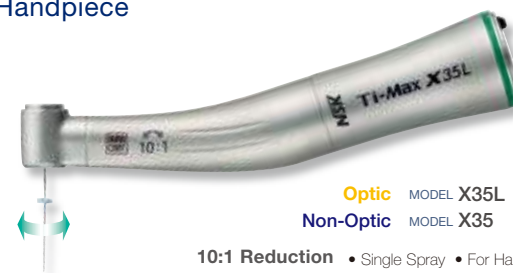
Quattro Spray



Non-Optic MODEL X95EX ORDER CODE C1072

- 1:5 Increasing**
- Clean Head System
 - Ceramic Bearings
 - Push Button Chuck
 - Quattro Spray
 - For FG burs (ø1.6)
 - Max Speed: 200,000 min⁻¹

Endodontic Handpiece



Optic MODEL X35L ORDER CODE C620
Non-Optic MODEL X35 ORDER CODE C624

- 10:1 Reduction**
- Single Spray
 - For Hand File & Engine File
 - 60° Twist
 - Push Button Chuck
 - Max Speed: 4,000 min⁻¹



MODEL QF Adaptor ORDER CODE C877701

Prophylaxis Handpiece



Special Dust Proof



Optic MODEL X57L ORDER CODE C609
Non-Optic MODEL X57 ORDER CODE C619

- 16:1 Reduction**
- For Screw-in Cups and Brushes
 - 360° Rotation
 - w/o Spray
 - Max Speed: 2,500 min⁻¹



With Tip Lock Mechanism



Optic MODEL X55L ORDER CODE C608
Non-Optic MODEL X55 ORDER CODE C618

- 4:1 Reduction**
- Single Spray
 - For Profin / EVA Tips
 - Vertical Reciprocating (Stroke Length 1.4 mm)
 - Lamineer Tips not included
 - Max Speed: 10,000 min⁻¹



Washable in the
thermodisinfectant



135°C Autoclavable
up to 135°C

■ Please keep the rotation speed with your file
manufactures designate. (X35L/X35)



Washable in the
thermodisinfectant



135°C Autoclavable
up to 135°C

S·Max M

Incomparable Powerful Cutting and Superb Grip

S-Max M Series contra-angles allow cost-effective powerful cutting. Durable and quiet the ergonomic and well balanced instrument allows good accessibility and has superb grip. The NSK S-Max M Series has been designed without compromise. Experience it for yourself.



S·Max M

ADVANCED

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



Quattro Spray



Optic MODEL **M95L** ORDER CODE **C1023**
Non-Optic MODEL **M95** ORDER CODE **C1026**

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



Single Spray



Optic MODEL **M25L** ORDER CODE **C1024**
Non-Optic MODEL **M25** ORDER CODE **C1027**

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



Optic MODEL **M15L** ORDER CODE **C1025**
Non-Optic MODEL **M15** ORDER CODE **C1028**

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

Straight Handpiece



Non-Optic MODEL **M65** ORDER CODE **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

FX series

Integrated Handpieces : Ergonomic : Functional : Reliable

After 35 years of outstanding global success, the classic NSK EX handpiece series has now evolved into a new stage. - NSK FX handpiece series - a modernization of the EX series. The traditional NSK simple design technology, functional reliability, durability, and cost effective pricing still remains, but FX has been updated to an integrated design in response to modern demands.



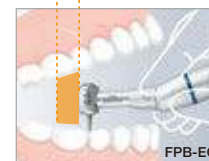
Durable Stainless Steel Body

Stainless is lighter and more durable than brass. Handpiece weight is considerably reduced and ergonomic hand comfort is greatly enhanced with a realistic tactile sense.

Improved Visibility : Ideal Balance

The extra slim head and body design greatly improves direct and indirect visibility to the oral operational field. This includes increased visibility of even difficult access areas in the oral cavity.

The slim, lighter weight design delivers an entirely comfortable ergonomic balance, especially when used in conjunction with the new NSK FX Mini Air motor.



Maximum accessibility

Easy Cartridge Replacement

In some instances cartridges are easily replaced in surgery with the accessory tools supplied with the new product. Service costs and downtime are reduced (FX25m).



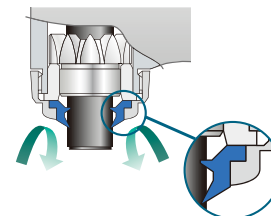
Clean Head System

The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings. (FX25m / FX15m / FX65m)



FX57m Paste Defense System

The prophylaxis handpiece head incorporates the unique NSK Paste Defense System which prevents dust and polishing paste debris from entering the handpiece. In addition, the NSK DLC coating on the rotor prevents possible breakage caused by surface abrasions from the polishing paste. These are some features that illustrate extended FX handpiece durability.



FX series BASIC

General Applications Handpiece

External Water Spray

1:1 Direct Drive



Non-Optic MODEL **FX25m** ORDER CODE **C1052001**

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

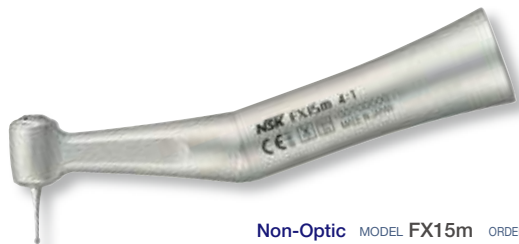
1:1 Direct Drive



Non-Optic MODEL **FX22** ORDER CODE **C1129**

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

4:1 Reduction



Non-Optic MODEL **FX15m** ORDER CODE **C1053001**

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

Endodontic Handpiece

External Water Spray

16:1 Reduction



Non-Optic MODEL **FX75m** ORDER CODE **C1055001**

- Miniature Head • For engine files • Stainless Steel Body
- 360° Rotation • Push Button Chuck
- Max Speed: 2,300 min⁻¹

Prophylaxis Handpiece

4:1 Reduction



Paste Defense System



Non-Optic MODEL **FX57m** ORDER CODE **C1054001**

- For screw-in cups and brushes • Stainless Steel Body
- 360° Rotation • w/o Spray • Paste Defense System
- Max Speed: 5,000 min⁻¹

Straight Handpiece

1:1 Direct Drive



Non-Optic MODEL **FX65m** ORDER CODE **H1014001**

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



Washable in the thermoisinfecteur
(FX25m, FX15m)



135°C Autoclavable
up to 135°C



Washable in the
thermoisinfecteur



135°C Autoclavable
up to 135°C

EX Series

BASIC

Heads for General Application

Non-Optic External Water Spray



MODEL FPB-Y ORDER CODE C875

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



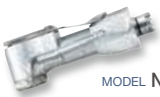
MODEL NAC-Y ORDER CODE C032002

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



MODEL BB-Y ORDER CODE C037

- For CA burs (ø2.35) • Latch type
- Ball Bearing • Max Speed: 40,000 min⁻¹



MODEL NBBW-Y ORDER CODE C211

- For CA burs (ø2.35) • Latch type • Ball Bearing
- With Water Nozzle • Max Speed: 40,000 min⁻¹



MODEL NM-Y ORDER CODE C247

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



MODEL FFB-Y ORDER CODE C884

- For FG burs (ø1.6) • Clean Head System
- Push Button Chuck • Max Speed: 40,000 min⁻¹



MODEL NRS2-Y ORDER CODE C549

- 10:1 Reduction • For CA burs (ø2.35)
- Clean Head System • Push Button Chuck
- Max Speed: 3,000 min⁻¹

Heads for Prophylaxis Application

Non-Optic



MODEL AR-Y (S) ORDER CODE C187

- For screw-in cups and brushes
- Max Speed: 5,000 min⁻¹



MODEL AR-Y (K) ORDER CODE C188

- For snap-on cups
- Max Speed: 5,000 min⁻¹



MODEL EVA-Y ORDER CODE C235

- For Eva tips • Vertical Reciprocating (Stroke Length 1.4 mm)
- Max Speed: 10,000 min⁻¹

Heads for Endodontic Application

Non-Optic



MODEL MP-Y ORDER CODE C547

- Miniature Head • Push Button Chuck
- Max Speed: 20,000 min⁻¹



MODEL MPA-Y ORDER CODE C548

- Connection for Apex locator (For long shank)
- Miniature Head • Push Button Chuck
- Max Speed: 20,000 min⁻¹



MODEL MPAS-Y ORDER CODE C882

- Connection for Apex locator (For short shank)
- Miniature Head • Push Button Chuck
- Max Speed: 20,000 min⁻¹



MODEL TEQ-Y ORDER CODE C849

- 80° Twist • For engine files (ø2.35)
- Push Button Chuck
- Max Speed: 4,000 min⁻¹



MODEL TEP-Y ORDER CODE C837

- 60° Twist • For hand files
- Push Button Chuck
- Max Speed: 4,000 min⁻¹

Shanks



MODEL EC-30 ORDER CODE C100008



MODEL EC-30M ORDER CODE C100007

- 1:1 Direct Drive



MODEL ER4 ORDER CODE C634



MODEL ER4M ORDER CODE C634002

- 4:1 Reduction



MODEL ER10 ORDER CODE C635

- 10:1 Reduction



MODEL ER16 ORDER CODE C636

- 16:1 Reduction



MODEL ER64 ORDER CODE C637

- 64:1 Reduction

■ Shanks and heads are sold separately. You can combine Shanks and heads according to your wishes and the indication.



FPB-Y, FFB-Y, NRS2-Y, AR-Y (S), AR-Y (K) and EVA-Y can be washed in the thermoisinfector.



Autoclavable up to 135°C



MP-Y, MPA-Y, MPAS-Y, TEP-Y, EC-30M and ER4M can be washed in the thermoisinfector.



Autoclavable up to 135°C

EX Series

BASIC

External Water Spray

1:1 Direct Drive



Non-Optic MODEL NAC-EC ORDER CODE Y110148

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



MODEL Spray Nozzle ORDER CODE C032701

- For NAC (Optional)

Straight Handpieces

1:1 Direct Drive



Non-Optic MODEL EX-6B ORDER CODE H260001

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



Non-Optic MODEL EX-6D ORDER CODE H267001

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

4:1 Reduction



Non-Optic MODEL EX-5B ORDER CODE H262

- For HP burs (ø2.35) • Clean Head System • Max Speed: 10,000 min⁻¹



MODEL Spray Nozzle ORDER CODE H019711

- For EX-6B, EX-5B (Optional)

isoE-LUX Light Probe



- Optic MODEL isoE-LUX ORDER CODE Z1265
- E-Type Optic Motor Connection
 - Glass Fiber Optics
 - Stainless Steel Body



CLINICAL MICROMOTORS

Multi Pad

Multi-Control Panel for Built-in System

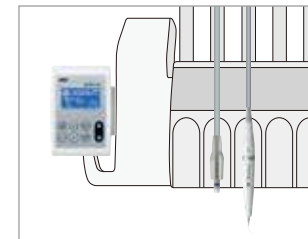
Integrated into Existing Equipment with The Latest Leading Edge Technology

NSK's Multi Pad uniquely enables control of the NLX nano and NLX plus electric micromotors and the Varios 170 ultrasonic scaler in one system. When partnered with Multi Pad, the NLX nano reaches speeds of 1,000 - 40,000 min⁻¹ and delivers a powerful 3.4 Ncm torque, whilst the NLX plus additionally offers 3 user-friendly endo modes; auto-reverse on, auto-stop and auto-reverse off. NSK's Multi Pad can also be used to control all functions of the Varios 170 ultrasonic scaler.



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, Español, Italiano, Français and Deutsch).



CLINICAL
MICROMOTORS

The Integrated System

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



Multi Pad Complete Sets

MODEL Multi Pad ORDER CODE Y1001845

MODEL Multi Pad Auto-Select ORDER CODE Y1001846

- 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)

NLX nano

A New Generation of Micromotor as Well Balanced as an Air Turbine

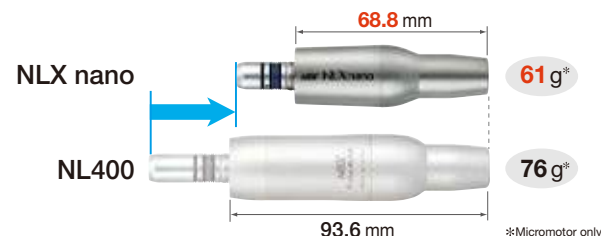
NLX nano has been designed to minimize weight and size to improve the balance of instrument and motor in the hand of the clinician, reducing fatigue during prolonged procedures.

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.



More Than 25% Shorter and 20% Lighter

Thanks to NSK know how, NLX nano has been designed to reduce weight by 20% and size by more than 25% compared with the current NSK micromotor. Despite its smaller size and lighter weight, NLX nano is as powerful and offers the same speed range as the current brushless NSK clinical micromotors.



CLINICAL
MICROMOTORS

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.



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	2,500	10,000	40,000	200,000
Z10L 16:1				100-2,500 min ⁻¹			
Z25L 1:1					2,000-40,000 min ⁻¹		
Z95L 1:5						10,000-200,000 min ⁻¹	



Contra-angles

NLX nano

- System : 180° Vector Control System
- Motor Type : Sensorless DC Brushless Micromotor
- Motor Speed : 2,000 – 40,000 min⁻¹ (NLX nano U)
: 1,000 – 40,000 min⁻¹ (NLX BF)
- Torque : Max. 3.4 Ncm
- Weight : 61 g (micromotor only)
- Light : White LED

NLX nano

Optic
Internal Water Spray

Electric Micromotor Portable System

BRUSHLESS

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

MODEL NLX nano S120 (120 V) ORDER CODE Y1001361

MODEL NLX nano S230 (230 V) ORDER CODE Y1001362

Contents

- NLX nano U (Control Unit) • NLX nano (Motor)
- NLX CD (Cord)
- NLAC (AC Adaptor) 120 V or 230 V

Specifications (Control Unit)

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



Portable System Individual Components



MODEL NLX nano ORDER CODE E1044051

- NLX nano micromotor only (Cord not included) • Solid Titanium Body
- Autoclavable up to 135°C



MODEL NLX CD ORDER CODE E1044061

- NLX nano micromotor cord for portable system (2.2 m)



MODEL NLAC (120 V) ORDER CODE Y141133

MODEL NLAC (230 V) ORDER CODE Y141135

- AC Adaptor for NLX nano micromotor
- For NLX nano portable system only

NLX nano

Optic
Internal Water Spray

Electric Micromotor Integrated System

BRUSHLESS

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



Integrated System Individual Components



MODEL NLX BF ORDER CODE Y1002122

- Power module with lamp and air function for integrated system
- Dimensions with case : W 115 x D 68.5 x H 40 (mm)



MODEL NLS-A ADP ORDER CODE U1020050

- 24 Vac - 32 Vdc converter for integrated system
- Dimensions : W 60.2 x D 81.4 x H 45.2 (mm)



MODEL NLS-A SEL ORDER CODE Y1010403

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



MODEL NLX nano ORDER CODE E1044051

- NLX nano micromotor only (Cord not included) • Solid Titanium Body
- Autoclavable up to 135°C



MODEL nano CDB ORDER CODE E1044066

- NLX nano micromotor cord for integrated system (2.2 m)



MODEL Multi Pad ORDER CODE Y1001845

MODEL Multi Pad Auto-Select ORDER CODE Y1001846

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)

NLXplus Optic

Internal Water Spray

Electric Micromotor Integrated System

BRUSHLESS

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



Features

- Torque control & Auto reverse feature
3 working modes: Auto-reverse on, Auto-stop or Auto-reverse off
- Autoclavable titanium body
- LED illumination
- Installable built-in type conforms to most dental equipments by employing original NLX BF power module

Integrated System Individual Components



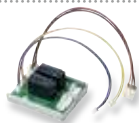
MODEL **NLX BF** ORDER CODE **Y1002122**

- Power module with lamp and air function for integrated system
- Dimensions with case :
W 115 x D 68.5 x H 40 (mm)



MODEL **NLS-A ADP** ORDER CODE **U1020050**

- 24 Vac - 32 Vdc converter for integrated system
- Dimensions : W 60.2 x D 81.4 x H 45.2 (mm)



MODEL **NLS-A SEL** ORDER CODE **Y1010403**

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



LED

135°C
55s

MODEL **NLX plus** ORDER CODE **E1040051**

- NLX plus micromotor only (Cord not included) • Solid Titanium Body
- Autoclavable up to 135°C



MODEL **plus CD** ORDER CODE **E1040062**

- NLX plus micromotor cord for integrated system (2.2 m)



MODEL **Multi Pad** ORDER CODE **Y1001845**

MODEL **Multi Pad Auto-Select** ORDER CODE **Y1001846**

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)

NBX Optic

Internal Water Spray

Electric Micromotor Integrated System

BRUSH

Speed : 60 – 40,000 min⁻¹



Integrated System Individual Components



MODEL **iMD BS** ORDER CODE **Y1002845**

- Power module for integrated system
- Dimensions : W 86 x D 57 x H 33 (mm)



MODEL **iMD SEL** ORDER CODE **Y1002848**

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



LED

MODEL **NBX** ORDER CODE **E1059051**

- Micromotor only (Cord not included)
- Solid Titanium Body



MODEL **NBX CDB** ORDER CODE **E1059061**

- NBX micromotor cord for integrated system



MODEL **Multi Pad** ORDER CODE **Y1001845**

MODEL **Multi Pad Auto-Select** ORDER CODE **Y1001846**

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)

NBX

Internal Water Spray **BRUSH**

Ultracompact LED Electrical Micromotor

Ultracompact and lightweight body as a result of applying the latest materials and know-how



Key Features

- Quiet smooth operation to maximum of 40,000 min⁻¹
- Minimum heat generation
- LED incorporated in micromotor (only NBX OPTIC)
- Solid Titanium outer Body



Optic MODEL NBX ORDER CODE **E1059051**
Non-Optic MODEL NBX N ORDER CODE **E1074051**

- Max. 40,000 min⁻¹ • Micromotor only (Cord not included)
- Ultracompact and lightweight outer titanium body

Motor Cord



Optic MODEL NBX CDB ORDER CODE **E1059061**
Non-Optic MODEL NBX N CDB ORDER CODE **E1074061**

- With constant current • Motor Cord only

M40 XS

Internal Water Spray **BRUSH**

Easy to Connect to Bien-Air® 4VLM and 4VR 400 Hoses



Features

- Quiet smooth operation from 60 to 40,000 min⁻¹
- Minimal heat generation
- Compact and light coreless electric micromotor
- LED illumination is incorporated inside the optic micromotor (M40 XS)
- Titanium body with Scratch Resistant DURACOAT

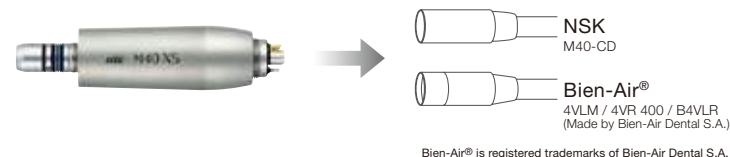


Optic MODEL M40 XS ORDER CODE **E1135051**
Non-Optic MODEL M40N XS ORDER CODE **E1136051**

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

Connect Direct to Existing

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



NSK Motor Cord



MODEL M40-CD ORDER CODE **S900100**

Ti-Max X205L Optic Air Motor Internal Water Spray

Shorter and Lighter -
Ergonomic Comfort & Improved Balance



Advantages

- Shorter and lighter unsurpassed balance Air motor
- 360° Swivel with LED illumination (32,000 LUX)

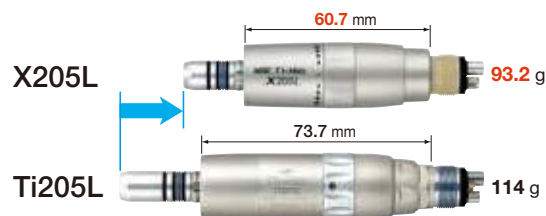


MODEL **X205L** ORDER CODE **M1013**

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



Reduced Size and Weight for Unsurpassed Balance



DynaLED M205LG Optic Air Motor Internal Water Spray

Generates Its Own LED Illumination -
Another NSK Technology 1st



Advantages

- For instant LED illumination simply connect DynaLED Air motor to an existing non-optic handpiece tubing.
- Delivers a stable supply of natural daylight-quality LED illumination rated at 25,000 LUX.



MODEL **M205LG M4** ORDER CODE **M1018**

- LED Air Motor with Micro Power Generator • 25,000 LUX
- Non-Retraction Valve • Midwest 4 hole
- Max Speed: 22,000 min⁻¹ ±10%



MODEL **M205LG B2** ORDER CODE **M1019**

- LED Air Motor with Micro Power Generator • 25,000 LUX
- Non-Retraction Valve • Borden 2 hole
- Max Speed: 25,000 min⁻¹ ±10%



NSK's Long Life Micro Power Generator - Exceptional Efficiency and Durability

- The micro power generator is electronically calibrated to produce the correct power source for highly effective LED illumination.
- Does not impair air motor performance in any way.
- NSK has applied the very latest technologies and materials to achieve long-term efficiency and reliability.



S·Max M205 **Non-Optic** Air Motor Internal Water Spray



MODEL **M205** ORDER CODE **M1007**

- Stainless Steel Body
- Non-Retraction Valve
- Midwest 4 hole
- Max Speed: 22,000 min⁻¹ ±10%



FX205m **Non-Optic** Air Motor External Water Spray



MODEL **FX205m M4** ORDER CODE **M1005001**

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



MODEL **FX205m B2** ORDER CODE **M1006001**

- Stainless Steel Body
- Borden 2 hole
- Max Speed: 25,000 min⁻¹ ±10%



Air Motor Set **Non-Optic**



MODEL **FX205m M4 Set** ORDER CODE **Y1002752**

- Midwest 4 hole



MODEL **FX205m B2 Set** ORDER CODE **Y1002753**

- Borden 2 hole



Contents

- Air Motor (FX205m)
- Straight handpiece (FX65m)
- Contra-angle handpiece (FX25m)



ORAL HYGIENE

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.

Varios Combi Pro

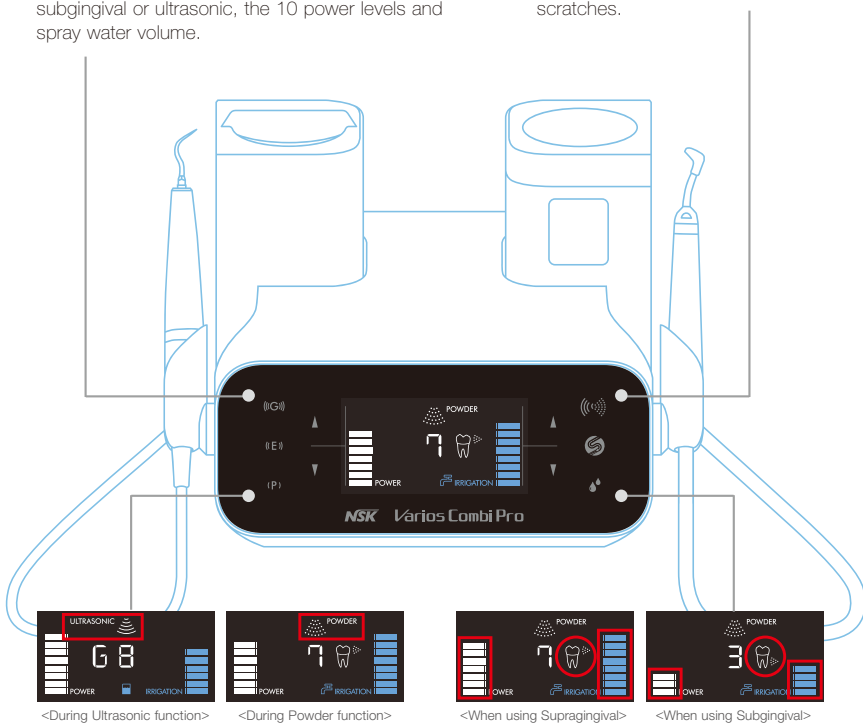
Optimizing Manoeuvrability

Clear Display

A clear function display enhances safety and efficiency by enabling clinicians to quickly confirm which programme is in use: supragingival, subgingival or ultrasonic, the 10 power levels and spray water volume.

Large LCD Panel

The LCD panel offers excellent visibility and contrast and is specially coated to resist powder scratches.



Automatic Switching from Ultrasonic to Powder Function

An automatic recognition sensor switches from ultrasonic to powder function when a handpiece is picked up from the holder.

Store Previous Settings

The system memory can store such treatment parameters as water volume, air pressure and ultrasonic power settings. Simply pick up the handpiece to switch settings.

*For powder functions, settings change when replacing the chamber.

Controls all Key Operations for Procedures

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 ultrasonic or powder modes on or off and change power settings. Combined with a hanger, this offers complete hands-free operations.



ORAL HYGIENE

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



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 (5 pcs. x 15 g sachets)
- Maintenance kit • VA2LUX-Handpiece
- VA2LUX-Hose • 3 Scaling tips • Sterilization case
- Irrigation bottle (400 mL) • Foot control

Specifications

- | | |
|--|--|
| <ul style="list-style-type: none"> • Power Supply : AC 100-240 V 50/60 Hz • Frequency : 28-32 KHz • Dimensions : W 225 x D 290 x H 162 (mm) (including chamber) | <ul style="list-style-type: none"> • Unit weight : 2.6 kg (Except attachment) • Bottle volume : 400 mL |
|--|--|

iPiezo engine®

The Unique Ultrasonic AI engine Responds Intelligently to Tooth Surface Conditions

"I'd like to be better at scaling", "I'd like an easier way to remove deposits"
We carefully considered the opinions of clinicians in the development of our unique next-generation AI ultrasonic engine which is at the heart of the NSK ultrasonic series.
The actions of the operator are transmitted accurately to the tip, as if it were an extension of the hand. This allows treatment to match tooth surface conditions.
The result is faster and gentler treatment for patients and at the same time eco friendly as it operates efficiently with low power consumption.



Fitted with The Next-generation Ultrasonic AI engine, The iPiezo engine®



NSK's unique high-performance ultrasonic iPiezo engine allows for smooth operation as it transmits the operator's movements to the tip.

Feedback Function

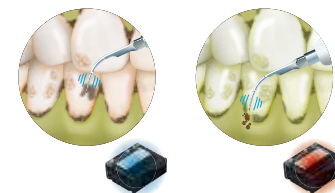
The NSK iPiezo engine supplies the appropriate power to the tip depending on the condition of the tooth surface. iPiezo engine provides a stable frequency output without dropping the power, even when removing hard calculus.

Auto Tuning Function

The Auto Tuning Function provides stable frequency to the tip at the selected power range. It allows the operator to feel the power output which ensures the optimum result.

Allows for Steady Scaling

Conventional ultrasonic scalers lose power when moving from soft to hard tartar. The load on the end of the tip is automatically detected by the action of the iPiezo engine allowing for steady scaling without power-loss.



A Slim Highly-ergonomic LED Handpiece

The ø9.5 mm slim tip of the Varios LUX handpiece makes it easy to operate throughout the entire oral cavity. The slim handpiece facilitates a smooth approach to difficult to access areas such as the molars. This provides freedom of movement in the oral cavity allowing the tip to be applied at the correct angle. The easy to grip ultra-light handpiece reduces strain on the hands and fingers. With a wide spectrum of close to natural light LED illumination, the view is always bright with high recognition capability.



Varios 970 **Optic / Non-Optic** iPiezo engine® Multifunction Portable Unit for Extreme Versatility

The Smart Compact Design Provides High-performance

The functionality required for ultrasonic applications is available in the most-advanced model in our compact series, the Varios 970. Our high-capacity 2 bottle system allows users to focus on safe treatment without worrying about water irrigation. Simple daily maintenance with auto rinse function and seamless body design. Through intensive study of user feedback we have managed to achieve high operability and safety.



Large LED Display

The large LED display has a 10 stage numeric power display and bar graph to show the irrigation volume. Beyond this, intuitive layout of operating keys minimize user errors. Power adjustment and function selection can be performed easily and reliably.



Large Solution Bottles

The two bottles can be placed and removed easily and can be used for any type of irrigation to complement treatment. Large 400 mL bottles deliver ample irrigation capacity and reduced chair time. Repeated tests of our components and material studies ensure high durability even when used extensively with antiseptic irrigation solutions.



Improved Durability Against Antiseptic Solutions

The introduction of the resin based water pipe of the bottle, pump and handpiece, assures dramatically improved durability as it substantially reduces the corrosion and rust caused by the residuum of antiseptic solutions.



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.



Varios 970 Complete Sets



Optic Varios 970 Optic Complete Sets

MODEL VA970 LUX (120 V) ORDER CODE Y1001166

MODEL VA970 LUX (230 V) ORDER CODE Y1001168

Non-Optic Varios 970 Non-Optic Complete Sets

MODEL VA970 (120 V) ORDER CODE Y1001174

MODEL VA970 (230 V) ORDER CODE Y1001175

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 power cord • Sterilization case

Specifications

- | | |
|---|--|
| • Power Supply : AC 120 V or 230 V 50/60 Hz | • Dimensions : W 160 x D 270 x H 190 (mm) (Including Bottle) |
| • Frequency : 28-32 KHz | • Unit weight : 2.1 kg (Except attachment) |
| • Max. output : 11 W (G mode) | • Bottle volume : 400 mL (x 2 bottles) |

Varios 570 **Optic** iPiezo engine®

Compact and Versatile

Varios 570 offers three power modes selectable to the tip connected to the handpiece; "G"(general), "E"(endo) and "P"(perio). Power level can be fine-turned within the range of given power mode. In particular, P mode offers minimal yet steady power for more effective periodontic treatment.

Advantages

- Powered by iPiezo engine
- Compact and appropriate-sized body design
- User friendly and intuitive operation control panel



Specifications

- Power Supply : AC 100-240 V 50/60 Hz
- Frequency : 28-32 KHz
- Max. output : 11 W (G mode)
- Dimensions : W 160 x D 135 x H 65 (mm)
- Unit weight : 0.43 kg



Varios 570 Complete Sets

Optic Varios 570 Optic Complete Sets

- MODEL VA570 LUX (120 V) ORDER CODE Y1001432
MODEL VA570 LUX (230 V) ORDER CODE Y1001273

Contents

- Control unit with handpiece cord
- AC adaptor
- Handpiece
- Water filter set
- Water supply connector
- Foot control (FC-70)
- 3 Scaling tips (G4, G6, G8)
- Tip wrench with torque limiter

Varios 370 **Non-Optic** iPiezo engine®

Compact Multipurpose Control Unit at Your Fingertips

Varios 370 has been especially developed to offer a compact, portable control unit allowing easy installation into any dental unit. It is simple to operate and suitable for a variety of clinical procedures.

Advantages

- Powered by iPiezo engine
- Potable ultra compact body
- Simple and intuitive operation control panel



Specifications

- Power Supply : AC 100-240 V 50/60 Hz
- Frequency : 28-32 KHz
- Max. output : 11 W (G mode)
- Dimensions : W 80 x D 115 x H 32 (mm) (without knob and cord)
- Unit weight : 0.43 kg (without attachment)

Varios 370 Units Installation Examples



On the dental console arm with Stand (optional).

On/Under the dental bracket table with Control Unit Holder



Varios 370 Complete Sets

Non-Optic Varios 370 Non-Optic Complete Sets

- MODEL VA370 (120 V) ORDER CODE Y1001958
MODEL VA370 (230 V) ORDER CODE Y1001340

Contents

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

Varios 170 Optic / Non-Optic iPiezo engine®

Integrated Multi Function Ultrasonic Scaler

The Smallest Module for Easy Integration into New and Existing Dental Equipment

Varios 170 is the world's smallest built-in optic control module. It features the NSK iPiezo engine which ensures stable power output all the times. The slimmer and extremely lightweight handpiece with twin LED is easily added to the existing handpiece delivery unit and is controlled via the existing foot control.



Specifications

- Power Supply : AC 24 V ±10% (or DC 24-36 V)
- Frequency : 28-32 KHz
- Max. output : 11 W
- Dimensions : W 63 x D 54 x H 26 (mm)
- Module weight : 59 g

Sterilization Case

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



Varios 170 Complete Sets

Optic Varios 170 Optic Complete Set

MODEL VA170LUXS1 ORDER CODE Y1001351

Non-Optic Varios 170 Non-Optic Complete Set

MODEL VA170S1 ORDER CODE Y1001352

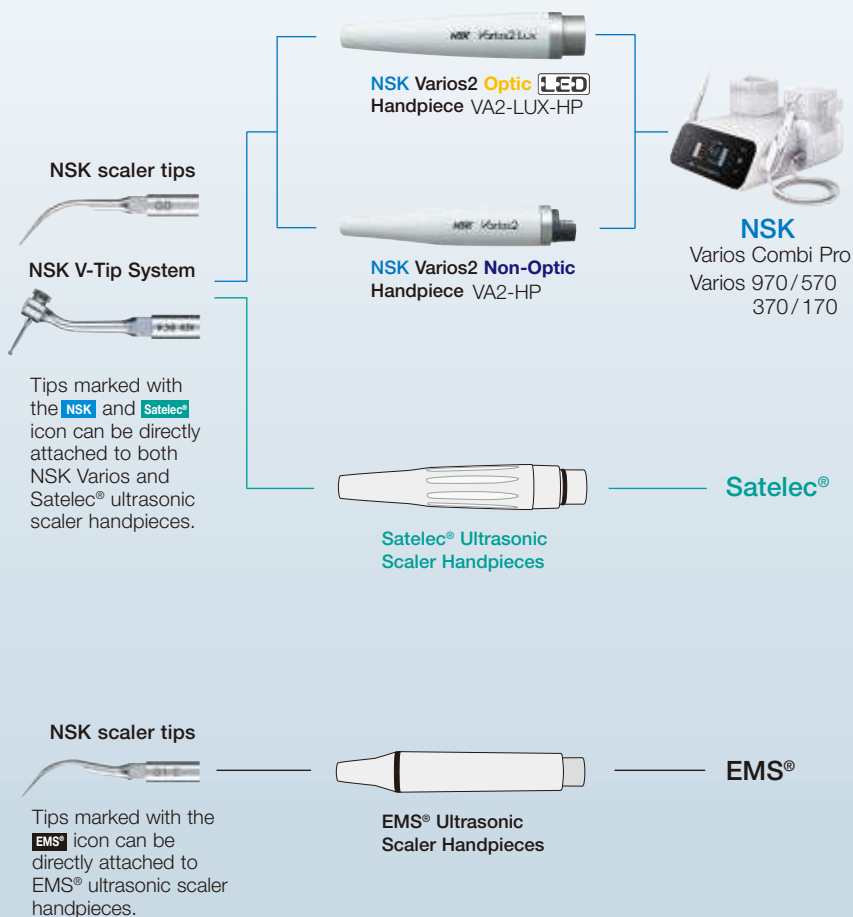
Contents

- Built in module • Handpiece • Handpiece cord • 3 Scaling tips (G4, G6, G8)
- 3 x Tip replacement wrench with torque limiter • Sterilization case

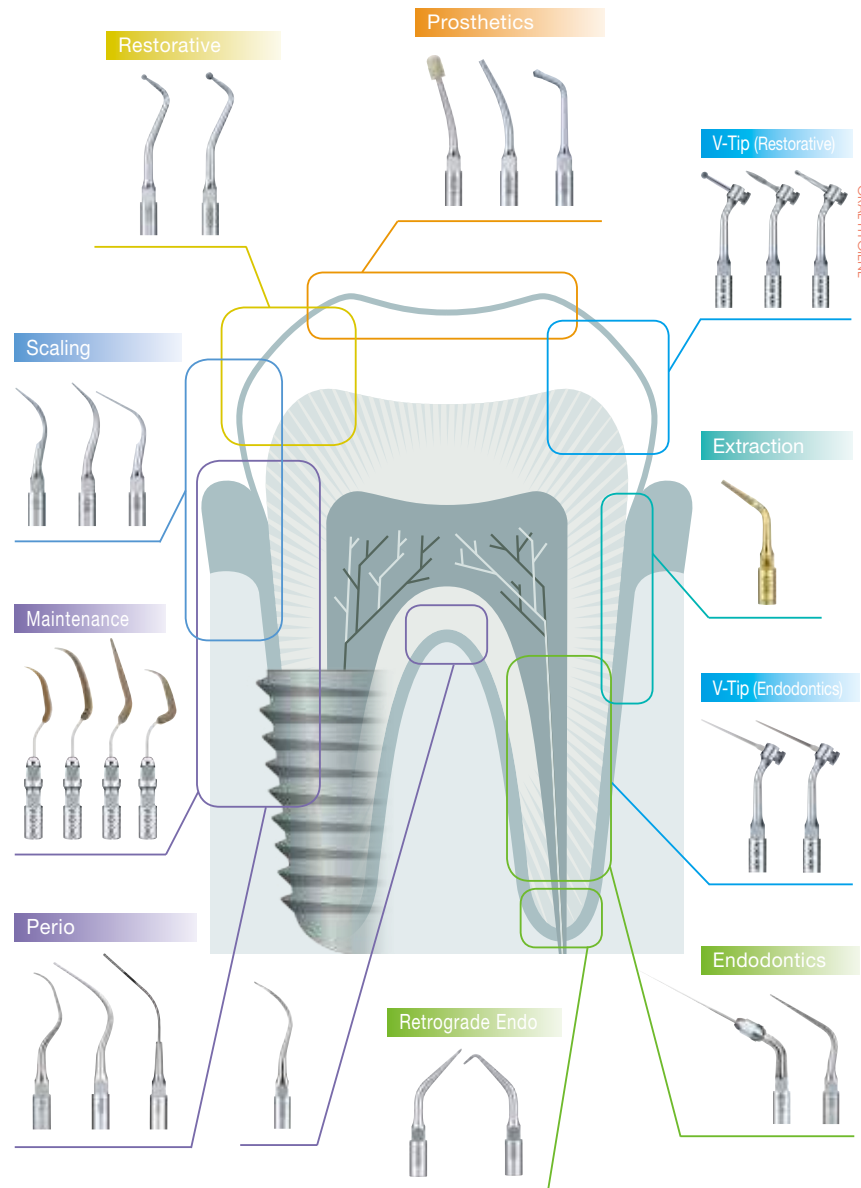
Varios Tips

NSK tips fit Varios2 ultrasonic scaler handpieces as well as Satelec® ultrasonic scaler handpieces. NSK make a number of tips which will fit on EMS® ultrasonic scaler handpieces.

The following is a guide to illustrate all NSK Varios tips, their applications and connectivity.



























































NSK Offers a Wide Choice of Varios Ultrasonic Scaler Tips for Clinical Applications.




























Varios Ultrasonic Scaler Tips

Scaling

Cross Section Diagram 				MODEL G1	NSK Satelec® ORDER CODE Z217101
				MODEL G1-E	EMS® ORDER CODE Z291101
				MODEL G2	NSK Satelec® ORDER CODE Z217102
				MODEL G2-E	EMS® ORDER CODE Z291102
				MODEL G3	NSK Satelec® ORDER CODE Z217103
				MODEL G3-E	EMS® ORDER CODE Z291103
				MODEL G4	NSK Satelec® ORDER CODE Z217104
				MODEL G4-E	EMS® ORDER CODE Z291104
				MODEL G5	NSK Satelec® ORDER CODE Z217105
				MODEL G6	NSK Satelec® ORDER CODE Z217106
				MODEL G6-E	EMS® ORDER CODE Z291106
				MODEL G8	NSK Satelec® ORDER CODE Z217108
				MODEL G9	NSK Satelec® ORDER CODE Z217109
				MODEL G11	NSK Satelec® ORDER CODE Z217411
				MODEL G12	NSK Satelec® ORDER CODE Z217412
				MODEL G13	NSK Satelec® ORDER CODE Z217413



















Varios Ultrasonic Scaler Tips

Perio (Root Planing)

Cross Section Diagram 				MODEL P1	NSK Satelec® ORDER CODE Z217404
				MODEL P1D	NSK Satelec® ORDER CODE Z217405 • Diamond coated
		 (From above)		MODEL P2D	NSK Satelec® ORDER CODE Z217402 • Diamond coated • Right curved type
		 (From above)		MODEL P3D	NSK Satelec® ORDER CODE Z217403 • Diamond coated • Left curved type
				MODEL P10	NSK Satelec® ORDER CODE Z217410 • Sharp edge
				MODEL P11R	NSK Satelec® ORDER CODE Z217408 • Sharp edge • Right curved type
				MODEL P11L	NSK Satelec® ORDER CODE Z217409 • Sharp edge • Left curved type

Varios Ultrasonic Scaler Tips

Perio (Root Planing)

Cross Section Diagram				MODEL P20	NSK Satelec® ORDER CODE Z217420
				MODEL P20-E	EMS® ORDER CODE Z291420
		(From above)		MODEL P21R	NSK Satelec® ORDER CODE Z217422
				MODEL P21R-E	EMS® ORDER CODE Z291422 • Right curved type
		(From above)		MODEL P21L	NSK Satelec® ORDER CODE Z217421
				MODEL P21L-E	EMS® ORDER CODE Z291421 • Left curved type
		(From above)		MODEL P25R	NSK Satelec® ORDER CODE Z217424
				MODEL P25R-E	EMS® ORDER CODE Z291424 • Right curved type
		(From above)		MODEL P25L	NSK Satelec® ORDER CODE Z217425
				MODEL P25L-E	EMS® ORDER CODE Z291425 • Left curved type
				MODEL P26R	NSK Satelec® ORDER CODE Z217426 • Right curved type
				MODEL P26L	NSK Satelec® ORDER CODE Z217427 • Left curved type

Varios Ultrasonic Scaler Tips

Perio (Irrigation and Cleaning)

Cross Section Diagram				MODEL P40	NSK Satelec® ORDER CODE Z217550 • Tip diameter ø0.6 mm
				MODEL P41	NSK Satelec® ORDER CODE Z217555 • Tip diameter ø0.8 mm

Varios

Ultrasonic Scaler Tips

Maintenance (V-Tip)

Perio-Control

V-Tip Holder

MODEL V10

ORDER CODE Z217041

NSK

Satelec®

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

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

Cross Section Diagram

MODEL V-P10

ORDER CODE Y900184

- Pack of 3
- V10 holder is not included

V-P12 is a longer version of the popular V-P10 tip. It serves a wide range of applications, including the maintenance of implants and other prosthetic devices. Its shape offers easy access to all treatment areas.

MODEL V-P12

ORDER CODE Y1002167

- Pack of 3
- V10 holder is not included



Varios

Ultrasonic Scaler Tips

Maintenance (V-Tip)

V-P11R/L left and right are double bent tips. This tip is extra long to easily access difficult to reach areas and to avoid interference with neighbouring teeth or contours. Its shape was designed to best fit different tooth morphologies, making this a versatile tip for a wide range of uses from anterior teeth to premolars.

Cross Section Diagram

MODEL V-P11R

ORDER CODE Y1002165

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

MODEL V-P11L

ORDER CODE Y1002166

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

V-P26R/L is a double-bent tips. The wide angles offer access to areas that cannot be reached with V-P11R/L tips or other conventional instruments. These tips are ideally suited to access the distal surfaces of molars and corner areas as, the end of the tip fits tooth morphology very closely.

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

Varios Ultrasonic Scaler Tips

Endodontics

Cross Section Diagram				MODEL E4	NSK Satelec® ORDER CODE Z217428	• For root canal cleaning
				MODEL E4D	NSK Satelec® ORDER CODE Z217528	• Diamond coated • For root canal enlargement
				MODEL E5	NSK Satelec® ORDER CODE Z217305	• Water not required • For lateral condensation
				MODEL E6	NSK Satelec® ORDER CODE Z217306	• Water not required • For lateral condensation
				MODEL E7	NSK Satelec® ORDER CODE Z217307	• Water not required • For removal of filling and foreign material
				MODEL E7D	NSK Satelec® ORDER CODE Z217317	• Diamond coated • For enlargement of root canal wall

Varios Ultrasonic Scaler Tips

Endodontics

Cross Section Diagram				MODEL E8	NSK Satelec® ORDER CODE Z217308	• Water not required • For removal of filling and foreign material
				MODEL E8D	NSK Satelec® ORDER CODE Z217318	• Diamond coated • For enlargement of root canal wall
				MODEL E15D	NSK Satelec® ORDER CODE Z217319	• Diamond coated • For locating root canals and removal of calcifications

Varios Ultrasonic Scaler Tips **Endodontics**

120° Angle Holder for U files



MODEL E11 ORDER CODE **Z217031**
• For U files (ø0.8 mm) • For root canal cleaning
• For anterior teeth • File is optional

95° Angle Holder for U files



MODEL E12 ORDER CODE **Z217032**
• For U files (ø0.8 mm) • For root canal cleaning
• For posterior teeth • File is optional



MODEL U files 33 mm / #15 ORDER CODE **Y900062**
• ISO 15 • Pack of 6



MODEL U files 33 mm / #20 ORDER CODE **Y900063**
• ISO 20 • Pack of 6



MODEL U files 33 mm / #25 ORDER CODE **Y900064**
• ISO 25 • Pack of 6



MODEL U files 33 mm / #30 ORDER CODE **Y900065**
• ISO 30 • Pack of 6

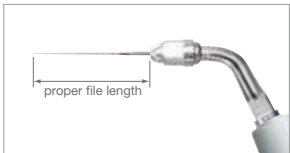


MODEL U files 33 mm / #35 ORDER CODE **Y900066**
• ISO 35 • Pack of 6

Each pack of E11, E12 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.

Always refer to this reference chart to ensure correct and accurate proper file length to avoid file breakage.

	#15	#20	#25	#30	#35
E11	22 mm	24.5 mm	22 mm	22 mm	22 mm
E12	22 mm	24.5 mm	24.5 mm	24.5 mm	22 mm



Varios Ultrasonic Scaler Tips **Retrograde Endo**

Cross
Section
Diagram



MODEL E30RD ORDER CODE **Z217212**
• Diamond coated • For posterior teeth (right angled)



MODEL E30LD ORDER CODE **Z217213**
• Diamond coated • For posterior teeth (left angled)



MODEL E31D ORDER CODE **Z217210**
• Diamond coated • For anterior and posterior teeth (70°)



MODEL E32D ORDER CODE **Z217211**
• Diamond coated • For anterior teeth (90°)



Varios Ultrasonic Scaler Tips

Extraction

Because the tip and the bilateral edges of the G95 tip are sharp it can be inserted without applying excessive force.
Furthermore, because the abrasion of the periodontal ligaments using the tip creates a space between the tooth root surface and alveolar bone, tooth extraction can be conducted without injuring the bone around the root.

Features

- Access to a surgical site is improved by thinning the tip apex shape and sharpening both edge flanks.
- Adhesion areas of periodontal membrane can be removed smoothly.
- Tooth removal can be performed smoothly so that patient discomfort can be reduced.
- Approaches from angles hard to reach with hand instruments are also possible.

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.
Nishikawa-guchi dental clinic

Cross
Section
Diagram



MODEL G95

ORDER CODE Z217705

NSK

- TiN coating • 0.7 mm thick
- A double edge, which is sharp in three directions

Varios Ultrasonic Scaler Tips

Restorative (For Minimal Intervention)

0.9 1.2				MODEL G61D	NSK Satelec® ORDER CODE Z217601	• Diamond coated
1.23 1.6				MODEL G62D	NSK Satelec® ORDER CODE Z217602	• Diamond coated
1.33 0.85				MODEL G65D	NSK Satelec® ORDER CODE Z217605	• Diamond coated
1.33 0.85				MODEL G66D	NSK Satelec® ORDER CODE Z217606	• Diamond coated
1.63 1.1				MODEL G67D	NSK Satelec® ORDER CODE Z217607	• Diamond coated
1.63 1.1				MODEL G68D	NSK Satelec® ORDER CODE Z217608	• Diamond coated



Varios

Ultrasonic Scaler Tips

Condensation



MODEL G21

ORDER CODE Z217010

NSK

Satelec®

• Water not required

• For anterior teeth

• 3 caps supplied



MODEL G22

ORDER CODE Z217020

NSK

Satelec®

• Water not required

• For posterior teeth

• 3 caps supplied



MODEL Tip Cap

ORDER CODE Y140751

• Autoclavable

• For G21 / G22 (Pack of 10)

Varios

Ultrasonic Scaler Tips

Loosening / Plugging



MODEL G26

ORDER CODE Z217206

NSK

Satelec®

• For post removal



MODEL G28

ORDER CODE Z217208

NSK

Satelec®

• Water not required

• For amalgam condensation

Varios V-TIP System Lineup



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.

Restorative

Pages 130-131

- For Minimal Intervention
- For Finishing / Trimming / Polishing
- For Caries Removal



Endodontics

Page 129

- For Root Canal Cleaning
- For Root Canal Enlargement



V30
120° Angle type

Maintenance

Pages 118-119

- For Prostheses or Implant Maintenance

Perio-Control



V10
Straight

Varios Ultrasonic Scaler Tips

Endodontics V-Tip



V-Tip Holder



MODEL V30

NSK Satelec®
ORDER CODE Z217030

• Tip is optional



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



MODEL V-S50D ORDER CODE Y900173

• Diamond coated • For root canal enlargement 17 mm • Pack of 3



MODEL V-S51D ORDER CODE Y900174

• Diamond coated • For root canal enlargement 23 mm • Pack of 3



MODEL V-S52D ORDER CODE Y900175

• Diamond coated • For root canal enlargement 26 mm • Pack of 3



MODEL V-S53D ORDER CODE Y900176

• Diamond coated • For root canal enlargement 32 mm • Pack of 3

Each pack of E11, E12 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.



* In order to reduce the incidence of ledge formation, there is no diamond coating on the end of the tip. (1.0 mm)



Varios Ultrasonic Scaler Tips Restorative (For Minimal Intervention)

 V-Tip Holder




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

• Tip is optional

  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

 MODEL **Assorted Tip Kit** ORDER CODE **Y900158**

• Pack of 1 each

Each pack of E11, E12 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 Restorative (For Finishing / Trimming / Polishing)

 V-Tip Holder




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

• Tip is optional

  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

 MODEL **Assorted Tip Kit** ORDER CODE **Y900168**

• Pack of 1 each

Varios Ultrasonic Scaler Tips Restorative (For Caries Removal)

 V-Tip Holder




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

• Tip is optional

  MODEL **V-S1** ORDER CODE **Y900161**

• Stainless Tip • Pack of 3

  MODEL **V-S3** ORDER CODE **Y900162**

• Stainless Tip • Pack of 3

  MODEL **V-S33** ORDER CODE **Y900163**

• Stainless Tip • Pack of 3

 MODEL **Assorted Tip Kit** ORDER CODE **Y900164**

• Pack of 1 each

Varios Ultrasonic Scaler Tips

Tip Kits

Application PERIO



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

Contents

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

Application PERIO Furcation and curved root face



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

Contents

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

Application MAINTENANCE For Prostheses or Implant Maintenance



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

Contents

- V10 holder : 1 pc.
- V-P11R, V-P11L, V-P12, V-P26R, V-P26L : 1 pc. each
- E Tip replacement wrench : 1 pc.

Application ENDODONTICS For anterior root canal irrigation



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

Contents

- E11 : 1 pc. 120° angle holder for anterior teeth
- E Tip replacement wrench : 1 pc.
- U files 33 mm #15, #20, #25, #30, #35 : Pack of 6 each size

Includes 5 types of U files (ø0.8 mm) plus 120° angle holder



Washable in the thermosinfector

135°C Autoclavable up to 135°C

Varios Ultrasonic Scaler Tips

Tip Kits

Application ENDODONTICS For posterior root canal irrigation



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

Contents

- E12 : 1 pc. 95° 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

Includes 5 types of U files (ø0.8 mm) plus 95° angle holder

Application ENDODONTICS 4 kinds of Retrograde Root filling tips



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

Contents

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

Application MINIMAL INTERVENTION Starter kit for Minimal Intervention - with V-Tip holder



MODEL **MI Starter Kit** ORDER CODE **Y900150**

Contents

- V30 V-tip holder : 1 pc.
- E tip replacement wrench : 1 pc.
- V-G70, V-G71, V-G72 : 1 pc. each
- V-S1, V-S3, V-S33 : 1 pc. each
- V-G77, V-G78, V-G79 : 1 pc. each



Washable in the thermosinfector

135°C Autoclavable up to 135°C

Ti-Max S970 Air Scalers

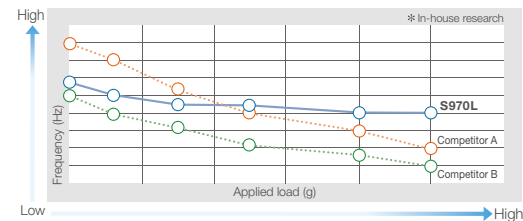
Air Scaler Evolution Supporting a Broad Spectrum of Care

The S970 air scaler offers a wide power range with easy swivel power adjustment and an extensive tip range for a wide variety of applications ranging from general scaling and root canal irrigation to minimally invasive procedures. The wide range of applications, comfortable grip and ease of maintenance makes the S970 air scaler the instrument of choice for dentists and hygienists alike. A titanium body and sleek, seamless design make the S970 really comfortable to hold even during long procedures whilst allowing for excellent visibility of the operating site at all times.



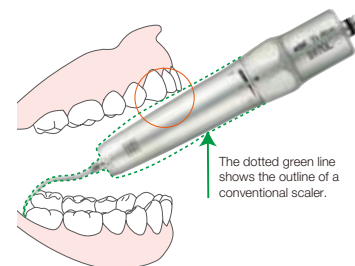
Steady Power Supply to The Tip

S970 air scalers provide stable power output and constant oscillating movement across the entire power range at approximately 6,000 Hz. S970 air scalers are extremely gentle and therefore very popular in cases involving perio or high sensitivity.



Excellent Visibility

The sleek design of the S970 allows for unrestricted visibility of the treatment area and excellent access to even the most hard to reach areas.



Smooth and Easy Power Control Ring

NSK Power Ring offers three different power level settings for diverse clinical needs. While the gentle minimum mode is for delicate procedures, the maximum power mode is good for general scaling.



APPLICATIONS	TIPS	POWER RING SETTING		
		1	2	3
Scaling	S1, S2, S3	←	←	←
Perio	S10, S20, S21R, S21L	←	←	←
Perio (Maintenance Tip)	S35+V-Tip (V-P10, V-P11R, V-P11L, V-P12)	←	←	←
Restorative (For Preparation of crown cores)	S81D, S82D, S83D, S86D, S71D, S72D	←	←	←
Restorative (For Minimal Intervention)	S65D, S66D, S67D, S68D	←	←	←
V-TIP SYSTEM (Restorative)	S75+V-Tip (V-G70, V-G71, V-G72, V-G75, V-G76)	←	←	←
V-TIP SYSTEM (Restorative)	S75+V-Tip (V-G77, V-G78, V-G79, V-S1, V-S3, V-S33)	←	←	←
V-TIP SYSTEM (Enamel bonding)	S75+V-Tip (V-N50, V-N51)	←	←	←

The above power level is standard. Please start use from a low level to correspond to the symptoms.

Ti-Max S970 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



Optic MODEL S970L ORDER CODE T1005
Non-Optic MODEL S970 ORDER CODE T1020

Connect Direct to KaVo® Coupling



Optic MODEL S970KL ORDER CODE T1013

Connect Direct to Sirona® 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 Midwest 4 hole • Weight : 67 g

Non-Optic MODEL AS2000 B2/3 ORDER CODE T697

- For Borden 2/3 hole • Weight : 64 g



Air Scaler Tips

Scaling

Cross
Section
Diagram



MODEL **S1**

ORDER CODE **Z252411**

- Universal Type



MODEL **S2**

ORDER CODE **Z252413**

- Sickle Type



MODEL **S3**

ORDER CODE **Z252412**

- Perio Type

Air Scaler Tips

Perio

Cross
Section
Diagram



MODEL **S10**

ORDER CODE **Z252420**

- Universal Type Slim Line



MODEL **S20**

ORDER CODE **Z252441**

- Root Planning (Straight tip)



MODEL **S21R**

ORDER CODE **Z252442**

- Root Planning (Right curved tip)



MODEL **S21L**

ORDER CODE **Z252443**

- Root Planning (Left curved tip)

Air Scaler Tips

Maintenance (V-Tip)

Perio-Control



V-Tip Holder



MODEL **S35**

ORDER CODE **Z252015**

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

Cross
Section
Diagram



MODEL **V-P10**

ORDER CODE **Y900184**

- Pack of 3
- S35 holder is not included



MODEL **V-P12**

ORDER CODE **Y1002167**

- Pack of 3
- S35 holder is not included



(From above)

MODEL **V-P11R**

ORDER CODE **Y1002165**

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



(From above)

MODEL **V-P11L**

ORDER CODE **Y1002166**

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

Air Scaler Kit



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

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



Washable in the
thermodisinfectant



135°C Autoclavable
up to 135°C



Washable in the
thermodisinfectant



135°C Autoclavable
up to 135°C

Air Scaler Tips

Restorative (For Minimal Intervention)

Unlike rotary instruments these tips oscillate and are designed to only cut on one surface allowing minimally invasive site preparation and thereby greatly reducing the risk of damaging adjacent teeth and soft tissue. The spherical shape of these tips make them suitable for delicate adjustments as well as caries removal in the cervical and interproximal region.

			MODEL S65D	ORDER CODE Z252465 • Diamond coated
			MODEL S66D	ORDER CODE Z252466 • Diamond coated
			MODEL S67D	ORDER CODE Z252467 • Diamond coated
			MODEL S68D	ORDER CODE Z252468 • Diamond coated



S65D



S81D



S72D

Air Scaler Tips

Restorative (For Preparation of Crown Cores)

The tips can be used for finishing margins after prepping the area with a conventional dental bur. That enables you to finish minute sharp edges and gingival sulcus without damage, something that cannot be accomplished with rotary instruments alone. Three types of tips are available for deep chamfer, light chamfer and shoulder work, respectively.

			MODEL S81D	ORDER CODE Z252469 • Diamond coated
			MODEL S82D	ORDER CODE Z252462 • Diamond coated
			MODEL S83D	ORDER CODE Z252461 • Diamond coated
			MODEL S86D	ORDER CODE Z252460 • Diamond coated

These tips are safe sided and flat for minimal mesial or distal preparations.

			MODEL S71D	ORDER CODE Z252471 • Diamond coated
			MODEL S72D	ORDER CODE Z252472 • Diamond coated

V-TIP System Lineup



NSK V-Tip 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.

Restorative

Pages 144-145

- For Minimal Intervention
- For Finishing / Trimming / Polishing
- For Caries Removal



Endodontics

Page 143



S75

120° Angle type

Maintenance

Page 139

- For Prostheses or Implant Maintenance

Perio-Control



S35

Straight

Air Scaler Tips

Endodontics V-Tip



V-Tip Holder



MODEL **S75**

ORDER CODE **Z252035**

- Includes E-Tip replacement wrench



MODEL **V-U15**

ORDER CODE **Y900177**

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



MODEL **V-U20**

ORDER CODE **Y900178**

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



MODEL **V-U25**

ORDER CODE **Y900179**

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



MODEL **V-U30**

ORDER CODE **Y900180**

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



MODEL **V-U35**

ORDER CODE **Y900181**

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



MODEL **V-N50**

ORDER CODE **Y900182**

- Ni-Ti Irrigation 17 mm • Pack of 3



MODEL **V-N51**

ORDER CODE **Y900183**

- Ni-Ti Irrigation 21 mm • Pack of 3



Washable in the thermosinfector



Autoclavable up to 135°C

Air Scaler Tips

Restorative (For Minimal Intervention)



V-Tip Holder



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

- Includes E-Tip replacement wrench
- Tip is optional

ø0.8



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

- Diamond coated • Pack of 3

ø1.2



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

- Diamond coated • Pack of 3

ø1.6



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

- Diamond coated • Pack of 3

0.6



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

- Diamond coated • Pack of 3

0.9



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

- Diamond coated • Pack of 3



MODEL **Assorted Tip Kit** ORDER CODE **Y900158**

- Pack of 1 each



Washable in the thermoisinfecteur



135°C Autoclavable up to 135°C

Air Scaler Tips

Restorative (For Finishing / Trimming / Polishing)



V-Tip Holder



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

- Includes E-Tip replacement wrench
- Tip is optional

ø1.2



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

- Diamond coated • Normal Grade • Pack of 3

ø1.2



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

- Diamond coated • Fine Grade • Pack of 3

ø1.2



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

- Diamond coated • Super Fine Grade • Pack of 3



MODEL **Assorted Tip Kit** ORDER CODE **Y900168**

- Pack of 1 each

Air Scaler Tips

Restorative (For Caries Removal)



V-Tip Holder



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

- Includes E-Tip replacement wrench
- Tip is optional

ø0.8



MODEL **V-S1** ORDER CODE **Y900161**

- Stainless Tip • Pack of 3

ø1.1



MODEL **V-S3** ORDER CODE **Y900162**

- Stainless Tip • Pack of 3

ø0.8



MODEL **V-S33** ORDER CODE **Y900163**

- Stainless Tip • Pack of 3



MODEL **Assorted Tip Kit** ORDER CODE **Y900164**

- Pack of 1 each



Washable in the thermoisinfecteur



135°C Autoclavable up to 135°C

Prophy-Mate neo Air Powered Tooth Polishing System

Prophy-Mate neo, The Best Polishing Tool for Beautiful White Teeth

Supragingival powder polishing is highly effective when used in combination with "FLASH pearl." NSK's unique twin nozzle achieves powerful powder discharge.

The long and slim handpiece in conjunction with the small nozzle tip dramatically improves accessibility around all tooth surface. Cleaning can be performed quickly even in interproximal areas teeth and in usually difficult to reach areas.

The ergonomically designed grip is comfortable to hold and allows for flexible 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 maximize the cleaning ability. 60° nozzle works especially well for molar area and occluding surface and 80° nozzle for anterior tooth.



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 Prophy-Mate neo is designed for a one-touch attachment to NSK couplings and other major coupling brands. The handpiece also can be attached to the powder case with one-touch operation.










Prophy-Mate neo Air Powered Tooth Polishing System



60° and 80° nozzles



Prophy-Mate neo Complete System

NSK	MODEL PMNG-PTL-P	ORDER CODE Y135029		NSK Coupling
KaVo®	MODEL PMNG-KV-P	ORDER CODE Y135030		KaVo® Coupling
Sirona®	MODEL PMNG-SR-P	ORDER CODE Y135031		Sirona® Coupling
W&H®	MODEL PMNG-WH-P	ORDER CODE Y135032		W&H® Roto Quick
Bien-Air®	MODEL PMNG-BA-P	ORDER CODE Y135033		Bien-Air® Unifix®
M4	MODEL PMNG-M4-P	ORDER CODE Y135034		Connect direct to the handpiece tubing MIDWEST
B2	MODEL PMNG-B2-P	ORDER CODE Y135035		Connect direct to the handpiece tubing BORDEN

■ No light during use (when using optic coupling).

Contents

- Handpiece with 60° nozzle head
- Powder case
- Replacement nozzle head 80°
- 5 pcs. x 15 g sachets of FLASH pearl cleaning powder
- Maintenance kit



The handpiece can be washed in the thermidisinfector

135°C Autoclavable up to 135°C

FLASH pearl Cleaning Powder

Outstanding Cleaning Results with Gentle Powder

Not salty! The powder has less impact due to the delicate flavour and provides patients with gentle tooth surface cleaning. The secret behind intense cleaning and a smooth finish? Calcium-based spherical particles.

Fine powder with an average particle size of 54 µm move as if rolling across the surface of the tooth, limiting damage to the tooth surface and rapidly removing plaque and staining.

The "FLASH pearl" treatment is effective in a short space of time which encourages patients to schedule regular cleaning appointments.

Features

- Fast cleaning in tight spaces
- Zero salinity, gentle ingredients with low impact on patients
- Clogging is also minimized

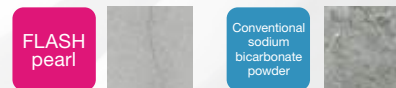
Sparkling Results Every Time

FLASH pearl, a cleaning powder for Prophy-Mate neo and Varios Combi Pro, 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.



Plaque and Stains
Enamel



The surface of the tooth after powder polishing under an electron microscope

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



Cleaning Powder

Whiter Teeth for a Brilliant Smile

Fresh lemon flavored Cleaning Powder removes stains, plaque, and calculus quickly and effectively. Put a shine on your clients' smiles with Cleaning Powder.

Features

- Cleaning powder tastes like fresh lemon
- Humidity-resistant sodium bicarbonate content
- Quickly removes persistent plaque and stains



Cleaning Powder

MODEL Cleaning Powder ORDER CODE Y900052

- Contains 100 x 12 g sachets

Perio-Mate Biofilm Eraser

Extensive Range of Applications Ranging from Supragingival to Subgingival Use

By removing the Perio-Mate nozzle tip, the subgingival area up to 3 mm from the gum line that requires the most frequent maintenance can be treated. In addition, there is a powder flow rate adjustment function to match operational site conditions, to enable a wide range of possible treatments from fast precise removal of biofilm to gentle and efficient biofilm removal around implants and in the delicate periodontal pocket.



Features

- 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.

Flexible Plastic Nozzle Tip Design Ensures Accessibility and is Gentle to The Pocket

The slim nozzle tip possesses just the right degree of flexibility to pass smoothly over tooth surfaces, and can be easily inserted into tight pockets and the root surfaces of adjacent teeth without causing the patient discomfort.



Optimize Dusing Powder Flow Analysis

Turbine development technology uses accumulated fluid analysis which allows 'spraying' that takes into account the powder flow in the pocket. It is not mono-directional, rather the flow is even and all-directional, minimising soft-tissue damage and subgingival plaque and biofilm can be removed efficiently. With respect to potential damage, powder (air) and water are separately discharged onto periodontal tissue.



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.



Smooth 360-degree Rotation for Safe and Accurate Operation

The handpiece can easily be rotated using the fingertips even while performing complex operations. The nozzle tip allows easy access to difficult to reach areas, and does not adversely affect neighbouring teeth and contours.



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 uninterruptedly.



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.



Perio-Mate Biofilm Eraser



Perio-Mate Complete System

NSK	MODEL PER-PTL-P	ORDER CODE Y1002654		NSK Coupling
KaVo®	MODEL PER-KV-P	ORDER CODE Y1002655		KaVo® Coupling
Sirona®	MODEL PER-SR-P	ORDER CODE Y1002656		Sirona® Coupling
W&H®	MODEL PER-WH-P	ORDER CODE Y1002657		W&H® Roto Quick
Bien-Air®	MODEL PER-BA-P	ORDER CODE Y1002658		Bien-Air® Unifix®
M4	MODEL PER-M4-P	ORDER CODE Y1002659		Connect direct to the handpiece tubing MIDWEST
B2	MODEL PER-B2-P	ORDER CODE Y1002660		Connect direct to the handpiece tubing BORDEN

Contents

- Handpiece • Powder case • Nozzle tip (40 pcs) • Maintenance kit
- Perio-Mate Powder 160 g x 1

■ No light during use (when using optic coupling).

Perio-Mate Nozzle Tip

Hygienic disposable nozzle tips

MODEL Perio-Mate Nozzle Tip

ORDER CODE Y1002741

- 40 pcs per pack

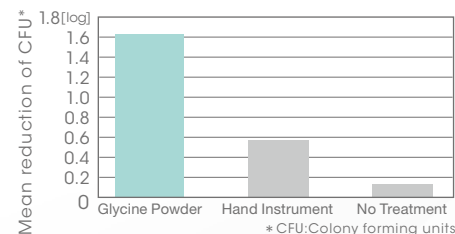


Perio-Mate Powder

Features

- 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.

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 I, Flemmig TF. Subgingival plaque removal at interdental sites using a low-abrasive air polishing powder. J Periodontol. 2003 Mar;74(3):307-11.

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 150 X



Perio-Mate Powder (glycine)

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

MODEL Perio-Mate Powder ORDER CODE Y900938

- Contents : Two bottles (160 g each)



ENDODONTICS

ENDO-MATE TC2 Cordless Endodontic Micromotor

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 Sets

MODEL ENDO-MATE TC2 (120 V) ORDER CODE Y1001036

MODEL ENDO-MATE TC2 (230 V) ORDER CODE Y1001027

Contents

- MP-F16R Head • ENDO-MATE TC2 Motor • Battery Charger

ENDO-MATE TC2 Complete MPA Set

MODEL ENDO-MATE TC2 MPA (230 V) ORDER CODE Y1001028

Contents

- MPA-F16R Head • ENDO-MATE TC2 Motor • Battery Charger

ENDO-MATE TC2 & ENDO-MATE DT Heads

- Miniature Head • For Ni-Ti files (ø2.35) • Push Button Chuck



○ MODEL MP-F20R ORDER CODE Y110044

● MODEL MP-F16R ORDER CODE Y110096

● MODEL MP-F10R ORDER CODE Y110048

- 20:1 / 16:1 / 10:1 Reduction

○ MODEL MPAS-F20R ORDER CODE Y110046

● MODEL MPAS-F16R ORDER CODE Y110098

- Connection for Apex locator (for short shank)
- 20:1 / 16:1 Reduction

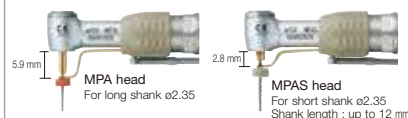
The icons shown beside each of the models indicates the reduction gear ratio of the head. All heads pictured in this brochure are the 20:1 model type.

- White = 20:1 Reduction
- Gray = 16:1 Reduction
- Navy = 10:1 Reduction

Apex Locator Capability

MPA and MPAS heads are equipped with built in probe ring which enable to use your Apex locator with the ENDO-MATE TC2 & DT systems. By combining an Apex Locator with NSK ENDO-MATE TC2 & DT, clinicians will be able to perform more accurate root canal preparations. All contra angle heads are autoclavable up to 135°C.

2 types of file holders are available relevant to the shank length of the file selected.



Attach the Apex Locator Monitor by moving it forward to contact the file. Release by moving away from the file.



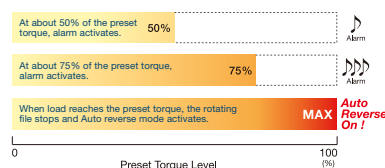
ENDO-MATE TC2 Motor



ENDO-MATE DT Motor & Cord

Two kinds of alarm sound for safer and efficient treatment

(For ENDO-MATE TC2)



Suitable for Use with Most Major Brands of Ni-Ti Files

Rotation Speed (min ⁻¹)	Gear Ratio	Torque Level (Ncm)
200 ~ 900	10 : 1	0.2 ~ 2.2
140 ~ 550	16 : 1	0.3 ~ 3.0
100 ~ 450	20 : 1	0.4 ~ 4.0



The heads can be washed in the thermocycler



The heads are autoclavable up to 135°C

ENDO-MATE DT Endodontic Micromotor

Smart and Portable



Advantages

- Fits all popular brands of Ni-Ti files
- Wide screen provides clear visibility
- 9 adjustable program selection
- Operates on electrical power or battery
- Small head adjustable to 6 positions

Fits All Popular Brands of Ni-Ti Files

Up to 9 settings (speed and torque etc) can be programmed simply by pushing the memory function button. It's easy to switch between each preset program allowing work with all popular Ni-Ti file manufacturer's required procedures.

Gear	Head Speed (min ⁻¹)
20 : 1	100-650
16 : 1	120-800
10 : 1	200-1,300
4 : 1	500-3,200
1 : 1	2,000-13,000

Features

- Easy to use flat control panel
- Torque control from 0.1 to 6.5 Ncm (Depending on the gear ratio of the head selected)
- Lightweight comfortable handpiece
- Dual function on/off switch
- Auto-reverse on, Auto-Stop, Auto-reverse off functions
- Compact and portable desktop unit

2 Way ON / OFF Switch

Micromotor On / Off operation is activated via the convenient finger switch located on the micromotor. An Optional foot control is available.



ENDO-MATE DT Complete Sets



ENDO-MATE DT with 20:1 Head

MODEL ENDO-MATE DT (120 V) ORDER CODE Y141120

MODEL ENDO-MATE DT (230 V) ORDER CODE Y141121

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

ENDO-MATE DT without Head

MODEL ENDO-MATE DT W/O (120 V) ORDER CODE Y141123

MODEL ENDO-MATE DT W/O (230 V) ORDER CODE Y141124

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

Specifications

- Power Supply : AC 120 V 60 Hz or 230 V 50/60 Hz and Battery pack
- Number of Programs : 9
- Max. Torque : 7 Ncm (when using 20:1 head)
- Speed range : 100-13,000 min⁻¹ (With 20:1, 4:1, 1:1 geared heads)
- Charge / Continuous use : 5 h / 2 h (depending on workload)
- Dimensions : W 92 x D 148 x H 124 (mm)
- Weight : Unit 456 g / Motor handpiece & cord 92 g

iPexII

Advanced Apex Locator

Using the results of numerous clinical trials and verification tests as a base, 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, accurate image of the file tip's location on its LCD panel.



Features

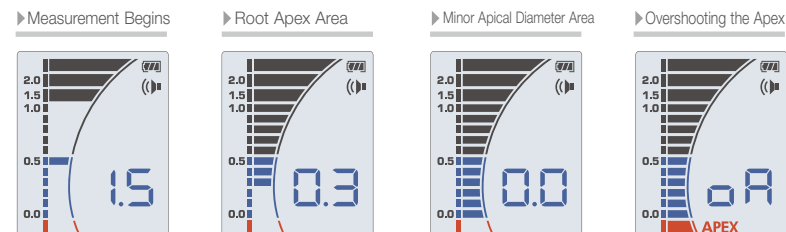
- High-precision root canal measurement generated by using **SmartLogic**
- Auto-detects the apex accurately in any conditions, dry or wet
- A stylish and compact body requiring only a small space
- 3 different alert sounds depending on the location of the file tip, ensuring precise procedures
- A 3 colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress
- Energy saving and low operation cost

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 3 Colour LCD Visual Monitor Screen



Monitoring the Canal Depth

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



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 : W 60 x D 60 x H 86 (mm)
- Weight : 76 g (unit without batteries)

Ti-Max Ti-ENDO Endodontic Handpiece with Adjustment Ring

With an easy-to-set adjustment ring, Ti-ENDO provides the precise torque control for sensitive endodontics procedures. Noticeably small head offers great access even in the molar area. Root-canal preparation can not be easier and safer! Applicable to all major brands' Ni-Ti files.

Advantages

- 4-level of torque settings (0.25, 0.5, 1.0, 3.0 Ncm)
- Exceptionally small head
- Push Button Chuck



EX Series Endodontic Handpiece

With one of the smallest heads available to endodontic handpiece, EX-ENDO 128 offers superb access even in the molar area. 128:1 reduction speed helps to provide safe and precise endodontic procedures. The compact body and Push Button Chuck reduces clinician's hand fatigue.

Advantages

- Exceptionally small head
- Push Button Chuck



MOBILE DENTISTRY

MOBILE
DENTISTRY

Dentalone

Mobile Dental Unit Cart

Helping You Care. Anywhere.*

Dentalone offers a large range of instruments and extended functionalities, thus practitioners can realise dental treatments outside any dentist's office:

Advantages

- Compact
- Simple to use
- Mobile
- Plug and Play system
- Easy to carry
- User-friendly
- Extensible to Cart function
- Large range functionalities

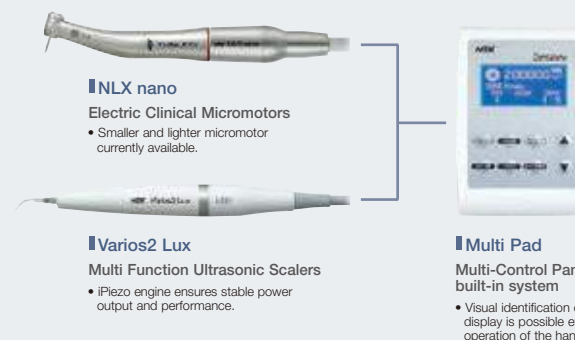


*electricity supply required

Features

- All components pack into case with carrying handle
- Up and down function of control unit and instrument carrier which is barrier fully for treatment position
- Small and light complete unit.
- Instrument carrier with automatic selection of instruments and easy positioning
- Integrated compressor for irrigation & syringe
- Universal voltage switchable (AC 100-230 V)

- Illuminated LCD control panel Multi Pad
- 40,000 min⁻¹ autoclavable brushless NLX nano micromotor with LED light, internal water and titanium body
- Integrated multi function ultrasonic scaler Varios 170 with LED light, slim and light weight VA2-LUX-HP handpiece
- 3-way air / water / spray syringe with LED light
- Saliva complete suction
- 500 mL water tank
- 1 Liter waste container



Dentalone

Mobile Dental Unit Cart

The Dentist's Office Mobile Cart

Dentalone is the dentist's office mobile cart which is provided for operative or preventive dentistry in the field such as Humanitarian, Home Care, Schools, and Army & Hospitals.



Dentalone

Complete Set



Dentalone Complete Set

MODEL **Dentalone** ORDER CODE **S9070**

Contents

- 1 Carrying Case • 1 Water tank for spray • 1 Tank for vacuum • Built in compressor
- Built in suction pump • 1 Variable Foot Control • 1 Extendable Tablet

Specifications

- Dimensions : Case with trolley (unpulled trolley handle) : W 351 x D 405 x H 545 (mm)
Case with trolley (pulled trolley handle) : W 351 x D 405 x H 1,075 (mm)
Without case : W 350 x D 405 x H 496 (mm)
- Working height : 766 mm
- Weight with case : 18.5 kg
- Power Supply : AC 100-230 V 50/60 Hz

VIVAace Mobile Dentistry System

Wherever Possible

For more comfortable & more advanced home visits for dental treatment

As societies age more rapidly, there is an ever greater need for mobile dental treatment. Today's ageing population keeps more of their natural teeth, which means a wider range of treatments is required nearer to the patient. VIVA ace combines the functionality of a dental treatment centre in a compact body with multipurpose micromotor, ultrasonic scaler and more. Its lightweight build means it is easy to carry and straight forward to set up in different locations. The first of its kind with high-functionality, supports more comfortable dental treatment wherever the patient.



Lightweight and Compact Body



High Functionality, Just Like a Treatment Centre



Straight Forward Set-up and Breakdown



Lightweight and Compact Body

Highly manoeuvrable and lightweight, weighing only 8.6 kg. Its compact size is ideal for stowing in a car, is easily carried up and down stairs and fits into compact spaces. Simple to transport from one patient to another. The small size has been achieved by making each component lightweight and compact without compromising functionality.

All-in-one Package

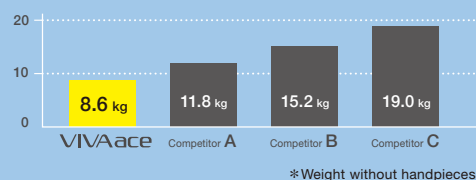
A micromotor, ultrasonic scaler, 3 in 1 syringe and suction combined in a single compact body including storage space for all instruments.

Height
28.4 cm

Depth
29.8 cm

Width 46.2 cm

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.

Advanced Functionality in a Compact Body



High Functionality Micromotor

Full endodontic functionality



NLXplus

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.

3 in 1 syringe



Lightweight and simple operating 3 in 1 syringe. The syringe nozzle uses a simple quick release mechanism.

Suction



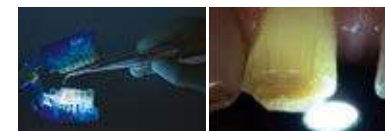
Built in ball lever valve to adjust suction power.

Light Probe (optional)



isoE-LUX

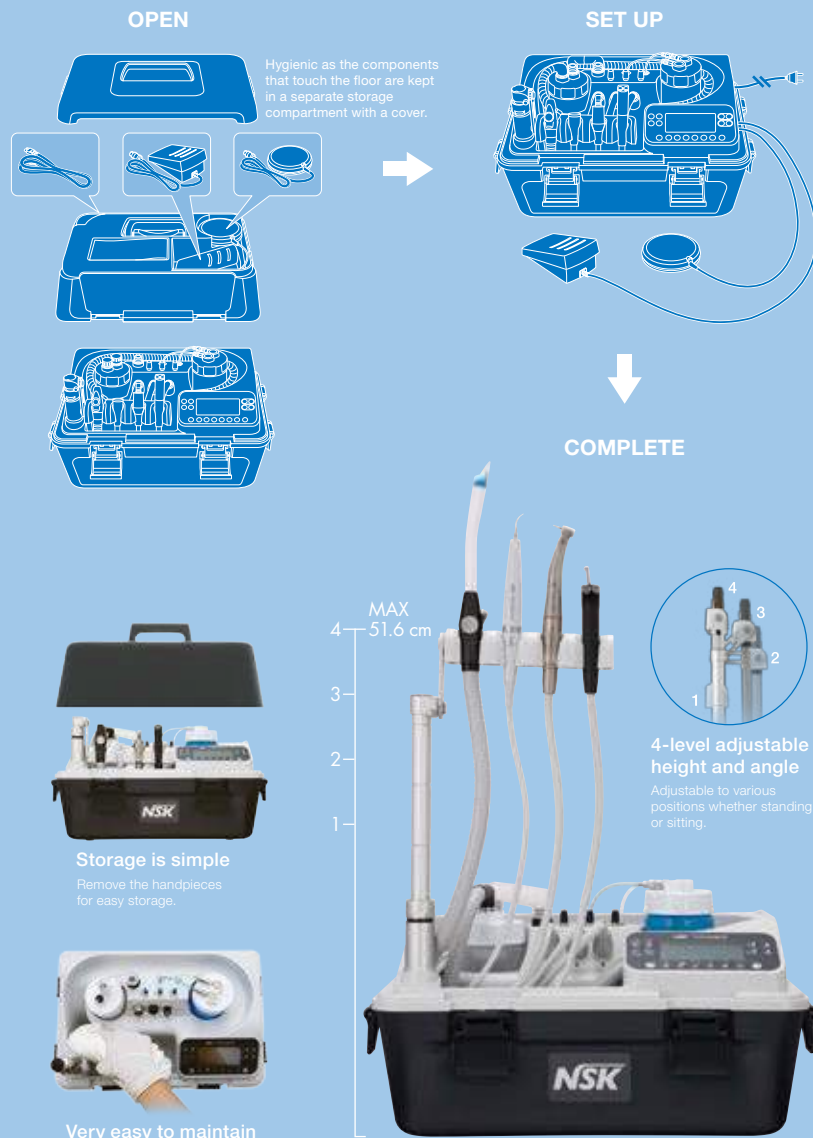
Bright illumination of the oral cavity in any treatment environment. Good accessibility with a slim body that also makes it possible to access hard-to-see areas.





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.



MODEL VIVA ace Complete Set

ORDER CODE **Y1003773**

Contents

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



Specifications (Control unit)

- Dimensions : W 462 x D 298 x 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 Basic Set

ORDER CODE **Y1003774**

Contents

- Control unit
- AC Power 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



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



OPTIONS

MODEL isoE-LUX

ORDER CODE **Z1265**



MODEL V-ace Vacuum Nozzle

ORDER CODE **U1144088**

- 10 pcs



VIVAMATE G5 Portable Micromotor Unit

Portable LED Micromotor; From Denture Adjustment to General Applications

As the latest member of pioneer portable micromotor for mobile dentistry, VIVAMATE series, VIVAMATE G5 provides various functions to meet doctors' mobile dentistry needs.



Control Panel Offers Simple and Intuitive Operation

Easy to see necessary information, such as rotation speed setting, power on/off and battery remaining levels. The control panel that allows intuitive operation greatly reduces stress to operate the instrument.

Internal Spray LED Micromotor

The compact size micromotor has been specifically developed for mobile dentistry and weighs only 148 g (w/cord) and features internal spray and LED light. Although fully portable it performs like an in-surgery system meeting a wide range of clinical requirements and is compatible with your existing contra-angles and straight handpieces*1 helping you to manage the cost of a mobile dentistry set-up.

*1 Conformable to ISO 3964.



Able to Use Both Rechargeable Battery and AC Adaptor for The Compact Control Unit

Able to operate with rechargeable batteries anywhere. When battery power level is low, just plug in AC adaptor into outlet; bring the unit to patient visits without worry. It is very easy to carry since the control unit is palm-size (W 72 x D 180 x H 36 mm) and weighs only 370 g.

Foot Control (Optional)

Conveniently adjust the motor speed by depressing the pedal of the foot control without taking your eyes of the treatment.



Carrying Case

Comes with a carrying case designed for storing VIVAMATE G5 unit and its attachments.



VIVAMATE G5 Complete Set **LED**

MODEL VIVAMATE G5 230 V SET ORDER CODE Y1002801

Contents

- Control unit
- Handpiece Stand
- Motor (Including Motor Cord)
- AC Adaptor
- AC Power Cord
- Carrying Case

Specifications

[Control Unit]

- Dimensions : W 72 x D 180 x H 36 (mm)
- Weight : 370 g
- Battery recharge time: appx. 2 hours.*
- Battery contentious drive time: appx. 1 hour.*

[Micromotor]

- Dimensions : ø22 x L 68.6 (mm)
- Weight : 148 g (Include Motor cord)
- Speed : 3,000~30,000 min⁻¹
- Torque : 3 Ncm (30,000 min⁻¹ while rotating)

*Varies depending on usage situations.

SURGICAL

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.

Surgic Pro

Surgical Micromotor System

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.



Calibration

NSK's Drive for Accuracy Ensures Safe Treatment Through Accurate Torque Correction



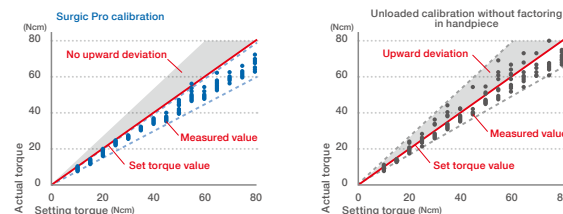
Maintaining Accurate Torque with AHC

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 and 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



Surgic Pro Surgical Motor

Shorter, Lighter and More Powerful
Consistently Excellent Clinical Performance



An Advanced Surgical Motor for Demanding Clinical Environments

NSK developed the Surgic Pro SGL70M by analyzing feedback from clinicians to ensure that this 5th generation surgical micromotor satisfies professional requirements. The light and compact Surgic Pro SGL70M features an LED light for high visibility, with up to 80 Ncm of torque for diverse surgical procedures, paving the way for an advanced treatment environment.



SGL70M / 81.9 mm, 280 g*

SGL50M / 98.1 mm, 322 g*

*Including motor cord

Well-balanced, with a Compact and Lightweight Micromotor

Streamlining efforts reduced the size by 16.2 mm and the weight by 42 g to improve balance during use the Surgic Pro motor, greatly reducing any strain on clinicians.

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.



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

• Solid titanium body • with Cord 2 m

Surgic Pro Control Unit

Control Unit Incorporating an Array of Sophisticated Functions



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.

Advanced Irrigation Pump

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



Memorises Eight Different Implant Systems

The Surgic Pro memorises eight different implant systems and a total of 64 programs. The programmable parameters are gear ratio, speed, rotation direction, torque limit, coolant solution volume and illumination intensity. This is extremely useful when using two or more implant brands. Once you complete programming, simply push a button to call procedures up.

Data Log Function

The Surgic Pro's data log function can record and store speed, torque values, and other patient treatment data. Such efficient data management helps ensure safe clinical practices.

*Maximum internal memory capacity is 100 minutes

Data Management

Treatment data can be easily accessed and downloaded using a USB stick. Files can be transferred and added to patient records.

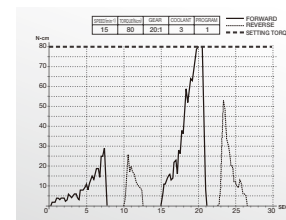
*USB memory stick not included.



Easy Treatment Data Handling

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

*File formats : csv or bmp



Surgic Pro⁺

Optic

Complete Sets

with data storage facility



X-DSG20L Optic Handpiece

Optic

Surgic Pro+ Complete Sets
with X-DSG20L Optic Handpiece

- MODEL Surgic Pro+ OPT-D (120 V)

ORDER CODE Y1002095
- MODEL Surgic Pro+ OPT-D (230 V)

ORDER CODE Y1002096
- MODEL Surgic Pro+ OPT-D (230 V) For EU

ORDER CODE Y1003585

Contents

- Control Unit with data storage facility
- SGL70M LED Micromotor
- FC-78 Foot Control
- X-DSG20L Optic Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Specifications

Control Unit with AHC

- Power Supply : AC 120 V or 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 I/F : 1 port
- Built in Memory : 100 min

Micromotor

- Torque : 5-80 Ncm
- Motor Speed : 200~40,000 min⁻¹
- Light Power (LED Micromotor) : over 32,000 LUX

Foot Control

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

Surgic Pro

Complete Sets

Optic / Non-Optic



X-SG20L Optic Handpiece

Optic

Surgic Pro Complete Sets
with X-SG20L Optic Handpiece

- MODEL Surgic Pro OPT (120 V)

ORDER CODE Y1001949
- MODEL Surgic Pro OPT (230 V)

ORDER CODE Y1001933
- MODEL Surgic Pro OPT (230 V) For EU

ORDER CODE Y1003586

Contents

- Control Unit without data storage facility
- SGL70M LED Micromotor
- FC-78 Foot Control
- X-SG20L Optic Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Non-Optic

Surgic Pro Complete Sets
with SG20 Handpiece

- MODEL Surgic Pro NON-OPT (120 V)

ORDER CODE Y1001950
- MODEL Surgic Pro NON-OPT (230 V)

ORDER CODE Y1001934
- MODEL Surgic Pro NON-OPT (230 V) For EU

ORDER CODE Y1003587

Contents

- Control Unit without data storage facility
- SG70M Non-Optic Micromotor
- FC-78 Foot Control
- SG20 Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Specifications

Control Unit with AHC

- Power Supply : AC 120 V or 230 V 50/60 Hz
- Max. Pump Output : 75 mL/min
- Programs : 8 Programs / Implant Systems
- Dimensions : W 265 x D 220 x H 100 (mm)

Micromotor

- Torque : 5-80 Ncm
- Motor Speed : 200~40,000 min⁻¹
- Light Power (LED Micromotor) : over 32,000 LUX

Foot Control

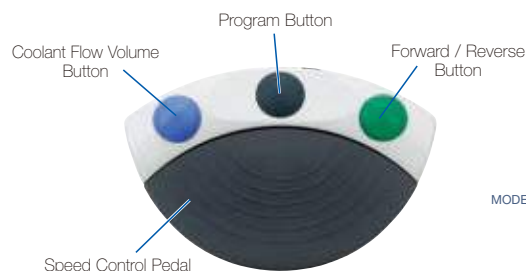
- Foot Control Functions : Program Button, Speed Control Pedal
Coolant Flow Volume Button
Forward / Reverse Button

Surgic Pro Accessories

Foot Control

Stay in Control

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



MODEL **FC-78** ORDER CODE **Z1102001**

- With 2 m cord



Handle Set (Optional)

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

MODEL **Handle Set** ORDER CODE **Z1027001**

Sterilization Cassette (Optional)

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



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

- Dimensions : W 281 x D 171.5 x H 47 (mm)

Carrying Case (Optional)

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



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

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

Install Both Systems on a Special Cart

iCart Duo (Optional)

Install the control unit and accessories on the cart.

MODEL **iCart Duo**

ORDER CODE **S9090**

Specifications

- Dimensions : H 101.65 cm
- Weight : 16.5 kg



SG Link Set (Optional)

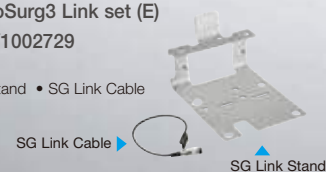
Surgic Pro x VarioSurg3

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)

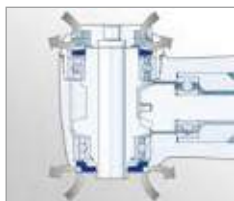
Implant Handpieces

Dismantlable Contra-angle Handling up to 80 Ncm of Torque

The Ti-Max X-DSG20 series can be easily disassembled for internal cleaning.

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.



Double Sealing System

NSK's unique double sealing system prevents blood and other contaminants from entering the instrument head to ensure longevity of the instruments.

Ti-Max X-DSG20L

Dismantling Surgical Handpiece



Optic MODEL X-DSG20L ORDER CODE C1068
Non-Optic MODEL X-DSG20 ORDER CODE C1067

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

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



Washable in the thermoisinfector



135°C Autoclavable up to 135°C



Can be use up to 80 Ncm



Washable in the thermoisinfector



135°C Autoclavable up to 135°C

Implant Handpieces

Ti-Max X-SG20L



Optic MODEL X-SG20L ORDER CODE C1003

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

S-Max SG20



Non-Optic MODEL SG20 ORDER CODE C1010

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

Ti-Max nanoSG20LS

Shorter, Perfectly Balanced Surgical Handpiece



Optic MODEL nanoSG20LS ORDER CODE C1103

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

nano Series instruments are compatible with NSK motor line up (NLX nano, NLX plus, M40LED, NBX, NBX N, X205L, M205LG and SGL70M micromotors) and other motors with insert less than 23 mm.

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

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

Implant Handpieces

Ti-Max X-SG93L



Triple Spray



Optic MODEL X-SG93L ORDER CODE C1004
Non-Optic MODEL X-SG93 ORDER CODE C1007

- 1:3 Increasing**
- Titanium Body with Scratch Resistant DURACOAT
 - For FG burs (ø1.6)
 - Cellular Glass Optics (X-SG93L)
 - Clean Head System
 - Push Button Chuck
 - External cooling
 - 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
 - For CA burs (ø2.35)
 - Cellular Glass Optics
 - Clean Head System
 - Push Button Chuck
 - External cooling
 - Max. Speed : 40,000 min⁻¹

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
 - For HP burs (ø2.35)
 - Cellular Glass Optics (X-SG65L)
 - Clean Head System
 - External cooling
 - Max. Speed : 40,000 min⁻¹

Ti-Max Z-SG45L



Triple Spray



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 Heat System
 - DLC Coating
 - Max. Speed : 120,000 min⁻¹



Implant Handpieces Non-Optic

SGM-ER20i



MODEL **SGM-ER20i** ORDER CODE **Y110127**
20:1 Reduction • Max. Speed : 2,000 min⁻¹
 • External and internal cooling (Kirschner and Meyer)
 • with Wrench for handpiece attachment

SGMS-ER20i With Depth Indicator



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



MODEL **SGMS-ER20i** ORDER CODE **Y110147**
20:1 Reduction • Max. Speed : 2,000 min⁻¹
 • External and internal cooling (Kirschner and Meyer)
 • with two Depth Indicators, Wrench for handpiece attachment, Ruler



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



Micro Saw Handpieces Non-Optic

1.8 mm Reciprocating



MODEL SGR2-E ORDER CODE SH162

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

17° Oscillating



MODEL SGO2-E ORDER CODE SH164

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

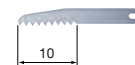
3° Sagittal



MODEL SGT2-E ORDER CODE SH163

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

SGR2-E Blades for Reciprocating



MODEL SGR-1 ORDER CODE Y900072

- Blade thickness 0.35 mm • Pack of 10 blades



MODEL SGR-2 ORDER CODE Y900073

- Blade thickness 0.35 mm • Pack of 10 blades



MODEL SGR-3 ORDER CODE Y900074

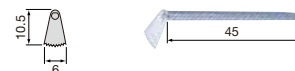
- Blade thickness 0.35 mm • Pack of 10 blades

SGO2-E Blades for Oscillating



MODEL SGO-1 ORDER CODE H174034

- Blade thickness 0.3 mm • Single blade



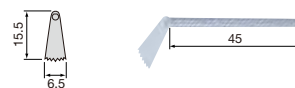
MODEL SGO-2 ORDER CODE H174044

- Blade thickness 0.3 mm • Single blade



MODEL SGO-3 ORDER CODE H174031

- Blade thickness 0.3 mm • Single blade



MODEL SGO-4 ORDER CODE H174041

- Blade thickness 0.3 mm • Single blade



MODEL SGO-5 ORDER CODE H174032

- Blade thickness 0.35 mm • Single blade



MODEL SGO-6 ORDER CODE H174042

- Blade thickness 0.35 mm • Single blade

SGT2-E Blades for Sagittal



MODEL SGT-1 ORDER CODE Y900075

- Blade thickness 0.35 mm • Pack of 10 blades



MODEL SGT-2 ORDER CODE Y900076

- Blade thickness 0.35 mm • Pack of 10 blades

iSD900

Cordless Prosthodontic Screwdriver

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



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.



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 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.

iSD900 Complete Sets

MODEL iSD900 (120 V) ORDER CODE Y1001357

MODEL iSD900 (230 V) 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.



The heads can be washed in the thermos disinfectant



The heads are autoclavable up to 135°C

VarioSurg3

Ultrasonic Bone Surgery System

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.



Trinity

Out Standing 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. The VarioSurg3 effortlessly balances these three elements for the ultimate in ultrasonic performance.



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.

VarioSurg



150% High Power!

VarioSurg3



Stable Cutting Through Feedback and Auto-tuning Functions

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.

Auto-Tuning function

The oscillating frequency is automatically controlled to ensure the set output values are always accurately delivered at the tip to maintain ideal vibration.

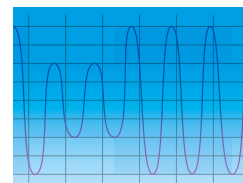
VarioSurg3 Control Unit

Advanced Control Unit to Manage High Power



Compact Body and Large LCD Panel

The compact control unit features a sophisticated design including a large, high visibility backlight LCD panel and intuitive control buttons to contribute to a safe and user-friendly working environment.



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.



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.



Three Modes

There is a choice of P (PERIO), E (ENDO) and S (SURG) modes to cover a wide range of applications, from bone cutting to post-surgical maintenance.

Adjustable Irrigation Flow Rate

You can choose from five coolant flow levels with a maximum output of up to 75 mL per minute, to suit operating requirements and tips. Effective irrigation protects bone cells by controlling tip heat.

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.

VarioSurg3 Handpiece

Super-Slim Design for Maximum Potential

Super-slim Ergonomic Handpieces

NSK's super-slim LED handpiece offers superior access and outstanding visibility. Excellent balance and ergonomic design facilitate the most accurate procedures and minimise hand and finger fatigue, especially during long procedures.

Effective Power Transmission with Minimal Heat Generation

By using innovative materials, the VarioSurg3 handpiece delivers appropriate power from the generator to the tip without loss while minimising heat generation.

LED Illumination for More Precise Treatments

NSK LEDs generate natural daylight-quality light to perfectly illuminate the treatment area, enabling more precise treatments and shortening treatment times. LEDs are safe and do not overheat, even during extended use, and are economical due to their long life. Proprietary twin LED lights eliminate shadows in the treatment area, allowing excellent visibility.



Optic MODEL VS3-LED-HPSC ORDER CODE E1133

• with 2 m cord



The tips are designed to preserve tissue, maintain cutting speed and easily cut into bone. Saw like teeth on an uneven blade edge enhances bone cutting. This also reduces clogging to maintain cutting speed.

VarioSurg3 Complete Sets Optic



VarioSurg3 Complete Sets

MODEL VarioSurg3 (120 V) ORDER CODE Y1002725
MODEL VarioSurg3 (230 V) ORDER CODE Y1002726

Contents

- Control Unit • LED Handpiece with 2 m cord • FC-78 Foot Control • Sterilization Cassette
- Handpiece Stand • Irrigation tube (5 pcs.) and other accessories
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

VarioSurg3 Complete Sets without Foot Control

MODEL VarioSurg3 (120 V) Non FT ORDER CODE Y1002247
MODEL VarioSurg3 (230 V) 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
- Basic H-S Kit (H-SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

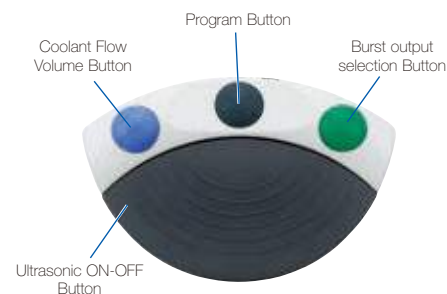
Specifications

Control Unit	
• Frequency	: 28-32 kHz
• Power Supply	: AC 120 V or 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)

Foot Control

Hands-Free Program Adjustments Via Foot Control

The VarioSurg3 foot control conforms with the IPX8 standard for medical foot control systems. All functions are clearly marked and allow accurate and hands-free operation of the unit within the pre-set parameters. Using the metal bar the foot control can easily be re-positioned at any time.



MODEL FC-78 ORDER CODE Z1102003

- With 2 m cord

Sterilization Cassette



The Sterilization Cassette is designed for the safe processing and storage of VarioSurg3 components.



MODEL VA-SG-CASE ORDER CODE 20001326

- Dimensions : W 281 x D 171.5 x H 47 (mm)
- Has dedicated compartments for handpiece, cord, tip replacement wrench and tip holders

Carrying Case (Optional)

The Carrying Case neatly stores all VarioSurg3 components.



MODEL Carrying Case ORDER CODE Y1002768 (VarioSurg3)

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

VarioSurg Tip Lineup

Ultrasonic Surgery Tips

Choose from over 50 ultrasonic tips according to the clinical procedure.

Scraper



Sinus Lift



Sinus Membrane Detachment



Scaling



Maintenance (V-Tip)

Perio-Control



Bone Surgery



Extraction



Socket Lift Tips (Crestal Approach)



Implant Preparation



Perio (Root Planing)



Endodontics



VarioSurg Ultrasonic Surgery Tips (TiN coating)

Bone Surgery



MODEL SG1

ORDER CODE Z305101

150% MODEL H-SG1

ORDER CODE Z305151

• Dots mark 3, 6 and 9 mm from top of tip • Five teeth; 0.6 mm thick



MODEL SG1A

ORDER CODE Z305138

• Dots mark 3, 6, 9, 12 and 15 mm from top of tip • Five teeth; 0.6 mm thick



MODEL SG2R

ORDER CODE Z305102

• Right curved tip* • Three teeth; 0.6 mm thick



MODEL SG2L

ORDER CODE Z305103

• Left curved tip* • Three teeth; 0.6 mm thick



MODEL SG8

ORDER CODE Z305109

150% MODEL H-SG8

ORDER CODE Z305155

• Dots mark 3, 6 and 9 mm from top of tip • Three teeth; 0.6 mm thick



MODEL SG8A

ORDER CODE Z305139

• Dots mark 3, 6, 9, 12 and 15 mm from top of tip • Three teeth; 0.6 mm thick



150% MODEL H-SG8R

ORDER CODE Z305156

• Marking every 2 and 4 mm from top of tip (Single side)
• Right curved tip* • Three teeth; 0.6 mm thick



150% MODEL H-SG8L

ORDER CODE Z305157

• Marking every 2 and 4 mm from top of tip (Single side)
• Left curved tip* • Three teeth; 0.6 mm thick

150% Tips that correspond to high power can be used up to 150% power setting.

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



Washable in the
thermosinfector



Autoclavable
up to 135°C

VarioSurg Ultrasonic Surgery Tips (TiN coating)

Bone Surgery



MODEL SG14R ORDER CODE Z305122

- Right curved tip*
- Five teeth; 0.6 mm thick



MODEL SG14L ORDER CODE Z305123

- Left curved tip*
- Five teeth; 0.6 mm thick



MODEL SG19 ORDER CODE Z305135

- Dot mark 3 mm from top of tip
- Five teeth; 0.8 mm thick



MODEL SG30 ORDER CODE Z305137

- Sharp edge
- 0.5 mm thick



MODEL SG58 ORDER CODE Z305141

- Dots mark 3, 6 and 9 mm from top of tip
- Three teeth; 0.6 mm thick



MODEL SG68 ORDER CODE Z305143

- Marking every 2 and 4 mm from top of tip (Single side)
- Three teeth; 0.6 mm thick

VarioSurg Ultrasonic Surgery Tips (TiN coating)

Scraper



MODEL SG3 ORDER CODE Z305104

- Triple sided edge spatula tip



MODEL SG4 ORDER CODE Z305105

- Edge spatula tip



MODEL SG5 ORDER CODE Z305106

- Rounded edge spatula tip

VarioSurg Ultrasonic Surgery Tips (TiN coating)

Extraction



MODEL SG17 ORDER CODE Z305132

- 0.7 mm thick



MODEL SG18R ORDER CODE Z305133

- Right angled tip*
- 0.7 mm thick



MODEL SG18L ORDER CODE Z305134

- Left angled tip*
- 0.7 mm thick



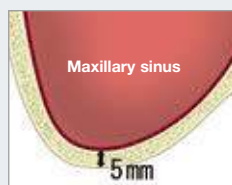
New Specialty Tips Exclusively for Sockets

Used as part of the socket lift method to swiftly perform sinus lift procedures, NSK's new tip lineup is designed for minimal surgical invasiveness.

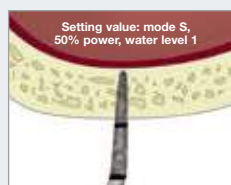
Process example for elevation of maxillary sinus membrane

A type of implant preparation site for a regular size implant $\phi 4.0$ mm.

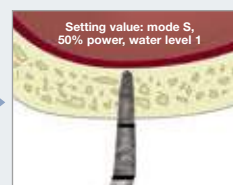
At the case of using VarioSurg



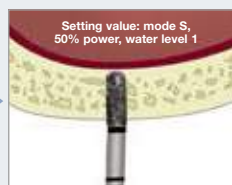
*A case of around 5 mm from the base of cortical bone to maxillary sinus.
*Bone tissue is type 3 and good condition.
*In addition to positive diagnosis by CT image, the vertical bone width should be diagnosed well and the implant preparation site could be formed until the base of maxillary antrum.



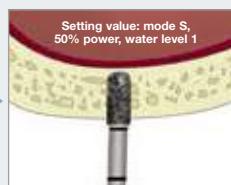
1. Bone cutting to within 1 mm to the base of maxillary antrum by using **SG15A** tip. Please be careful not to push the tip too much.



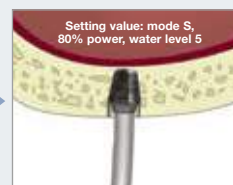
2. Repeat bone cutting using **SG15B** tip to increase width. Please be careful not to push the tip too much.



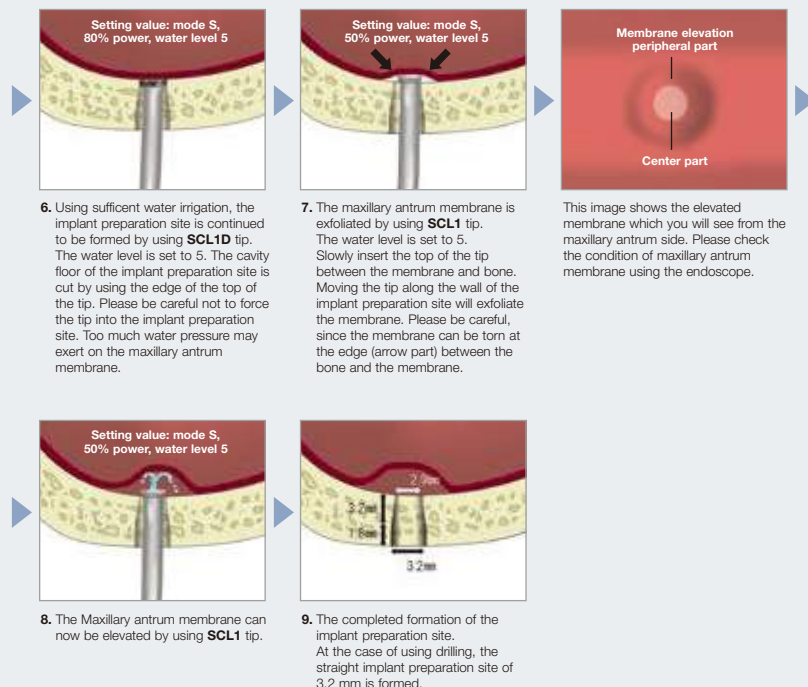
3. Bone cutting by using **SG16A** tip. The implant preparation site is formed until little of the base of cortical bone remains.



4. Repeat bone cutting by using **SG16B** tip. The implant preparation site is formed until little of the base of cortical bone remains.



5. Using sufficient water irrigation, the implant preparation site is formed by using **SCL2D** tip. The water level is set to 5. Please be careful not to force the tip into the implant preparation site. Too much water pressure may exert on the maxillary antrum membrane. At the case of using drilling, this step is excluded.



VarioSurg Ultrasonic Surgery Tips Socket Lift Tips (Crestal Approach)



MODEL **SCL1** ORDER CODE **Z305170**

• Internal irrigation



MODEL **SCL1D** ORDER CODE **Z305171**

• Internal irrigation • Diamond coating

VarioSurg Ultrasonic Surgery Tips **Socket Lift Tips (Crestal Approach)**



MODEL **SCL2D** ORDER CODE **Z305182**

- Internal irrigation • Diamond coating



MODEL **SCL3** ORDER CODE **Z305172**

- Internal irrigation



MODEL **SCL3D** ORDER CODE **Z305173**

- Internal irrigation • Diamond coating



MODEL **SCL4D** ORDER CODE **Z305184**

- Internal irrigation • Diamond coating



MODEL **SCL5** ORDER CODE **Z305174**

- Internal irrigation



MODEL **SCL5D** ORDER CODE **Z305175**

- Internal irrigation • Diamond coating



The estimated depth of the implant preparation site can be measured with the scale on the Tip.

VarioSurg Ultrasonic Surgery Tips (Diamond coating)

Sinus Lift



MODEL **SG6D** ORDER CODE **Z305107**



MODEL **SG7D** ORDER CODE **Z305108**

VarioSurg Ultrasonic Surgery Tips **Sinus Membrane Detachment**



MODEL **SG9** ORDER CODE **Z305110**

- Flat circular convex elevator • Angled at 90°



MODEL **SG10** ORDER CODE **Z305111**

- Flat circular convex elevator • Angled at 135°



MODEL **SG11** ORDER CODE **Z305112**

- Cone compressor

VarioSurg

Ultrasonic Surgery Tips (Diamond coating)

Implant Preparation



MODEL SG15A ORDER CODE Z305124

- Diameter of the tip end; 0.7 mm



MODEL SG15B ORDER CODE Z305125

- Diameter of the tip end; 1.3 mm



MODEL SG15C ORDER CODE Z305126

- Diameter of the tip end; 0.9 mm



MODEL SG15D ORDER CODE Z305127

- Diameter of the tip end; 1.3 mm



MODEL SG16A ORDER CODE Z305128

- Diameter; 2.0 mm



MODEL SG16B ORDER CODE Z305129

- Diameter; 2.6 mm

VarioSurg

Ultrasonic Surgery Tips

Scaling



MODEL G1-S ORDER CODE Z305113

VarioSurg

Ultrasonic Surgery Tips

Perio (Root Planing)



MODEL P20-S ORDER CODE Z305114

- Straight tip



MODEL P25R-S ORDER CODE Z305115

- Right curved tip*



MODEL P25L-S ORDER CODE Z305116

- Left curved tip*



Washable in the thermodisinfectant



Autoclavable up to 135°C

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



Washable in the thermodisinfectant



Autoclavable up to 135°C

VarioSurg Ultrasonic Surgery Tips

Maintenance (V-Tip)

Perio-Control



V-Tip Holder



MODEL **V10-S** ORDER CODE **Z305117**

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



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

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



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

- 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

■ V-P11R, V-P11L, V-P12 can be used only for VarioSurg3.



Washable in the thermodisinfectant



Autoclavable up to 135°C

VarioSurg Ultrasonic Surgery Tips (Diamond coating)

Endodontics



MODEL **E30RD-S** ORDER CODE **Z305118**

- For posterior teeth (right angled)



MODEL **E30LD-S** ORDER CODE **Z305119**

- For posterior teeth (left angled)



MODEL **E31D-S** ORDER CODE **Z305120**

- For anterior and posterior teeth (70°)



MODEL **E32D-S** ORDER CODE **Z305121**

- For anterior teeth (90°)

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



Washable in the thermodisinfectant



Autoclavable up to 135°C

VarioSurg

Ultrasonic Surgery Tips

Tip Kits



- Bone Surgery
- Scrapar
- Sinus Lift
- Sinus Membrane Detachment

MODEL

Basic H-S Kit

ORDER CODE

Y1002775

- Contents
- H-SG1, SG3, SG5, SG6D, SG7D, SG11
 - Tip holder



Bone Surgery

MODEL

Bone Cut Kit

ORDER CODE

Y900688

- Contents
- SG1, SG2R, SG4, SG2L, SG6D
 - Tip holder



Sinus Lift

MODEL

Sinus Lift Kit

ORDER CODE

Y900689

- Contents
- SG1, SG3, SG6D, SG9, SG10, SG11
 - Tip holder



Endodontics

MODEL

Endo-S Kit

ORDER CODE

Y900691

- Contents
- G1-S, E30RD-S, E30LD-S, E31D-S, E32D-S
 - Tip holder



Implant Preparation

MODEL

Implant Preparation Kit

ORDER CODE

Y900774

- Contents
- SG15A, SG15B, SG16A, SG16B
 - Tip holder

VarioSurg

Ultrasonic Surgery Tips

Tip Kits



Socket Lift Tips (Crestal Approach)

MODEL

Socket Lift Kit for Regular Size Implant

ORDER CODE

Y1002841

- Contents
- SCL1D, SCL2D, SCL1
 - VS Tip Wrench
 - Tip holder
 - Manual



Socket Lift Tips (Crestal Approach)

MODEL

Socket Lift Kit for Wide Size Implant

ORDER CODE

Y1002842

- Contents
- SCL2D, SCL3D, SCL4D, SCL3
 - VS Tip Wrench
 - Tip holder
 - Manual

AUTOCLAVE

AUTOCLAVE

iClave

More Safety, More Capacity

Optimizing Handpiece Performance with The Long-Awaited Debut of NSK's Autoclave Series

Even the best handpiece means nothing if you cannot use and decontaminate it safely. NSK leveraged the advanced know-how it has gained as a trusted global handpiece manufacturer to realize the potential of a handpiece friendly autoclave through the launch of the long awaited iClave series.



iClave plus

Deploying a Copper Chamber to Match
The Advanced Class B Cycle Sterilization
Capacity and Efficiency Standards



Air turbines, contra-angles, and other dynamic dental instruments consist of high-precision micro mechanisms and therefore benefit from careful sterilization to maintain performance. NSK chose to use a highly conductive copper chamber to satisfy Class B, Europe's strictest sterilization standard. The system delivers outstanding efficiency despite its large capacity.



Copper chamber



Stainless steel chamber

50% More Capacity Than Conventional Autoclaves

The iClave plus can fully use its 17.5 Liter capacity because it maintains even temperatures throughout the autoclave chamber and constantly controls the surface temperature. The iClave plus offers 50% more sterilization space than a conventional stainless steel chamber of the same size, ensuring greater safety by reducing instrument overcrowding.

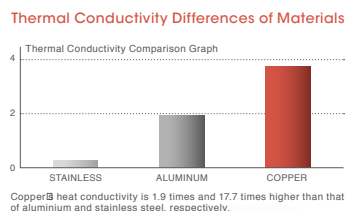
iClave

The Copper Chamber's Superior Thermal Conductivity Delivers Outstanding Performance

COPPER CHAMBER

Highly Thermal Conductive Copper Chamber with Even Temperatures

Using copper to construct the chamber gives 17.7 times more heat conductivity than stainless steel. The copper chamber retains even internal temperature levels throughout despite its large capacity.



ADAPTIVE HEAT SYSTEM

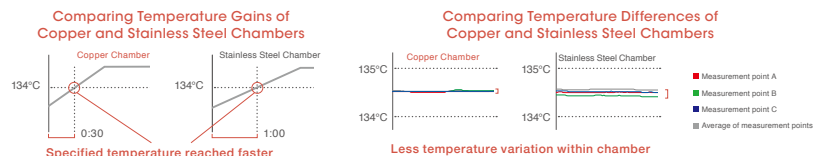
Advanced Heating System Leveraging Excellent Thermal Conductivity

NSK's innovative heating system optimizes the high heat conductivity of copper. Enveloping the copper chamber is a special heater which is also used in satellites, incorporating electro-thermal material embedded in silicone to heat the entire chamber evenly without heat loss.



TEMPERATURE CHARACTERISTICS

In temperature measurements at three points inside the chamber, the copper model reached 134°C, the standard sterilization temperature, in about half the time of a stainless steel counterpart. There were no temperature variations at the three points measured in the copper chamber.



NSK Autoclave Benefits Include Combining High Heat Conductivity of Copper Chamber with Proprietary Heating System

CLASS B



Super fast

CLASS S



Super fast

Faster Sterilization

The copper chamber and adaptive heat system allows sterilization in 18 and 35 minutes under Class S and B standards, respectively. (Including drying phase.)

More Efficient Drying Phase

In a conventional chamber, uneven temperatures cause condensation inside instruments, reducing drying efficiency. This issue is almost non-existent in the iClave plus when temperatures rise or fall.

More Economical and Environmentally Friendly

A key factor in the greater efficiency of the iClave plus is that it can sterilize more instruments at a time. The iClave plus also lowers environmental impact because it consumes less electricity and water.

Gentle Handpiece Sterilization

Consistently even internal temperatures resulting from the use of a copper chamber and the adaptive heat system make it possible to control steam flow and eliminate heat fluctuations. With less thermal impact, sterilization of air turbines, contra-angles and other instruments is gentler and safer.

iClave

Safety & Durability

Advanced Safety and Durability Through User-friendly Functions



Vacuum Sterilization for All Types of Instrument

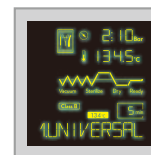
A vacuum pump removes air from the chamber and handpiece cavities before sterilization.

User-friendly, Easy to Read Operating Panel

With a sophisticated design and excellent visibility, the panel is easy to operate and maintain, with colors changing according to conditions, enhancing sterilization reliability.



Selection screen



During operation



Sterilization complete



Error

Sterilization Cycle Data Recording

All sterilization cycles are recorded on a USB flash drive, and no special software is required to view and print records of all cycles. The system records all relevant cycle parameters against a unique date and time stamp.



Bacterial Filter for Greater Safety

The iClave plus ventilates air through a bacterial filter during the drying phase, eliminating the possibility of re-contamination.



Designed to Boost Product Reliability

Consistent temperatures inside the chamber eliminate fluctuation stresses and reduce the risk of problems. NSK initially reviewed product reliability to ensure safe treatment. There are three thermometers to control temperatures in the iClave plus and two in the iClave mini. An annual maintenance service alert helps prevent breakdowns and boosts product reliability.

Stainless Steel Body Enhances Durability

The stainless steel body work, which is rare for an autoclave these days, makes iClave plus more robust. Together with the copper chamber it delivers outstanding durability.

Constantly Monitoring Working Parameters for Safe Operation

The process evaluation system constantly monitors pressure, temperature, water quality and steam. Additional features include cycle counter, altitude set-up, maintenance monitoring, triple safety lock, auto switch-off, and double water tank.

iClave plus

EN 13060 : Class B

An 17.5 Liter Model Complying with the Top Sterilization Standard

Employing a copper chamber to minimise internal temperature fluctuations. Efficiently sterilizing more instruments while minimising wasted space.

iClave plus Complete Set

MODEL iClave plus 230 V ORDER CODE Y1003077



Technical characteristics

- External dimensions : W 445 x D 585 x H 440 (mm)
- Chamber dimensions : ø240 x 384 (mm)
- Chamber capacity : 17.5 Liter
- Net weight : 47 kg
- Maximum power consumption : 1,920 W
- Supply Voltage CE : AC 230 V - 50/60 Hz
- Air expulsion system : Vacuum pump 2, 3, 4 vacuum
- Max Load : 4 kg (solid), 1.5 kg (porous)

External dimensions exclude protrusions.

PROGRAMS		PARAMETERS			CLASS
1	UNIVERSAL	134°C	5 min	3 vacuum	B
2	DELICATE	121°C	20 min	3 vacuum	B
3	FLASH	134°C	3 min	2 vacuum	S
4	SMALL LOAD**	134°C	4 min	3 vacuum	B
5	PRION	134°C	18 min	3 vacuum	B
6	CRITICAL 134°C	134°C	5 min	4 vacuum	B
7	CRITICAL 121°C	121°C	20 min	4 vacuum	B
8	SPECIAL	105-135°C	3-90 min	2-4 vacuum	-

• Bowie & Dick : 134°C / 3.5 min / 3 vacuum • Vacuum test : 20 min
*1 small load : included hollow instruments type A and B (MAX 0.5 kg)

OPTIONAL ACCESSORIES

Sealer Newseal Plus

With high output, easily and automatically seals envelopes before sterilization.

- Self adjusting sealing from 10 mm
- Retracting blade cutter
- Reel holder
- Visual and acoustic seal indication
- Pre-set for wall attachment



MODEL Sealer Newseal Plus

ORDER CODE Z1279001

USB Data Logger

Store all cycle information directly onto a file without a paper report. The 2 GB USB drive, supplied with the USB LOG interface, allows storage of more than 10,000 cycles.



MODEL USB Flash drive (2.0 GB)

ORDER CODE Z1280001

Barcode Label Writer

Increases traceability levels by combining sterile instruments and patients.



MODEL Barcode Label Writer

ORDER CODE Z1281001

DX Labeller

Designed for fast, easy traceability. The label shows production and expiration dates, operator name, cycle number and other information.



MODEL DX Labeller

ORDER CODE Z1282001

Helix Test

Kit to test steam penetration in handpiece cavities.



MODEL Helix Test

ORDER CODE Z1283001

Purity

High quality water is essential to improve sterilization quality. We offer an optional automatic water supply device with a desalination feature.



MODEL Purity

ORDER CODE Z1284001

iClave mini

The Smallest and Lightest in the Series
A Handpiece Autoclave Small Enough to Use Anywhere



A handpiece autoclave from a handpiece manufacturer, complying with Europe's Class S sterilization standard. The iClave mini sterilizes even the invisible parts of handpieces and is completely portable to use anywhere.

Small Enough to Fit in Any Space

The iClave mini weighs only 15.5 kg. Just plug it in and start sterilizing. Its compact and elegant design makes it an ideal fit for any clinic interior.



Effective Sterilization of Hollow Instruments

The iClave mini complies with Europe's Class S sterilization standard. It repeatedly deaerates to sterilize even the inside of a handpiece.



Fast and Compact But with Large Capacity

The new direct-heating technology around the 2.5 Liter chamber aims to work and perform like the combination of copper chamber and adaptive heat system. iClave mini is compact in size yet large in capacity while at the same time running fast and efficient cycles.



User-friendly, Easy to Read Operating Panel

With a sophisticated design and excellent visibility, the iClave mini panel is easy to operate and maintain, enhancing sterilization reliability.



A User-friendly Design

The iClave mini is designed with ease of use and day-to-day maintenance in mind. The smooth, seamless design inside and out as well as with the design of the control panel make it extremely user friendly in every respect.



iClave mini

EN 13060 : Class S

Smallest and Lightest in the Series
Usable Anywhere

Developed exclusively for handpieces. Portable and usable anywhere.

iClave mini Complete Set

MODEL iClave mini 230 V ORDER CODE Y1003074



Technical characteristics

- External dimensions : W 210 x D 320 x H 360 (mm)
- Chamber dimensions : ø130 x 200 (mm)
- Chamber capacity : 2.5 Liter
- Net weight : 15.5 kg
- Maximum power consumption : 750 W
- Supply Voltage CE : AC 230 V - 50 Hz
- Air expulsion system : Pressure deaeration
- Max Load : 1 kg (solid), 0.5 kg (porous)

External dimensions exclude protrusions.

PROGRAMS		PARAMETERS		CLASS
1	134°C SOLID	134°C	4 min	S
2	134°C POROUS	134°C	14 min	S
3	121°C SOLID	121°C	20 min	S
4	121°C POROUS	121°C	30 min	S

MAINTENANCE



MAINTENANCE

iCare+

Automatic System for Cleaning, Disinfecting and Lubricating Rotary Instruments

Manual cleaning of instruments does not remove all deposits and residues. Dynamic instruments that are poorly maintained or not adequately cleaned may become damaged and pass on infections to both patients and practitioners. Any instrument used in dentistry must be perfectly cleaned, disinfected and maintained. NSK is aware of the requirements in the daily practice of dentistry and, after many years of research, it has come up with a simple and effective solution thanks to iCare+.

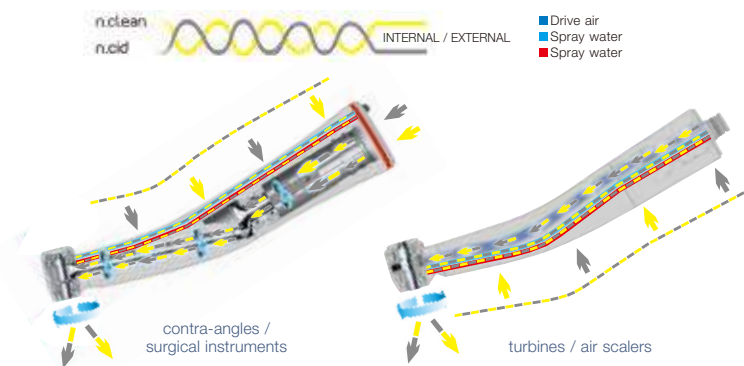
Advantages

- Simplicity
- Automatic
- Speed
- Constant monitoring of working parameters for consistent performance
- Universal connection of dynamic instruments
- Validation
- Traceability
- Detects instrument type spray/water external or internal
- Consistent repetition of cycles



Intelligence at The Service of Your Instruments

iCare+ is smart and detects the type of instrument attached to the ports (internal/external spray or without spray) when canals are blocked or the wrong cycle has been selected for a specific instrument to ensure cycle efficiency. During the different cycles, iCare+ starts the rotation of instruments and injection of treatment products into all the internal mechanisms and tubing of the instruments to provide deep cleaning and disinfection; a pressure spray simultaneously cleans and disinfects the external surfaces. Each cycle lasts for a specific duration in compliance with EN ISO 15883/15883-5 to guarantee maximum effectiveness of the n.clean and n.cid solution for the perfect treatment of every instrument.



Security

Tests performed by the Dr Brill Institute conducted on extremely dirty instruments (containing sheep's blood with heparine, protamine, bacteria and yeast) prove that iCare+ treatment cycles together with n.clean cleaning and n.cid disinfection guarantee proven effectiveness of the results. The validated tests realized in germany by this accredit laboratory were done according to RKI recommendations (Robert Koch Institute) and EN ISO 15883.

99.999% of Bacteria is Eliminated

iCare+ makes it possible to reduce proteins to less than 100 mg per instrument after treatment. Thus, the reduction in the level of microbial contamination (> 5-log step) of the instruments treated is equivalent to eliminating over 99.999% of the bacteria.

Guaranteed Consistent Repetition of Cycles

iCare+'s internal control system has sensors, which ensure consistency of every cycle in accordance with the parameters which were determined during the laboratory tests. iCare+'s Medicals device witch are a protocol, an analyse method and a result of certification.

iCare+

Cleaning and Disinfection

Two Products Inextricably Linked to iCare+

iCare+ working hand in hand with n.clean and n.cid products. n.clean and n.cid have been specifically developed for rotary instruments in compliance with laboratory protocols as well European and International standards.

Validated Association of Certified Products

Extensive laboratory tests have been conducted on NSK turbines, handpieces and contra-angles, as well as on instruments from other brands: the results are identical for all tested instruments and always in compliance with EN ISO 15883. It is therefore crucial that iCare be used together with n.clean for cleaning and n.cid for disinfection of rotary instruments to guarantee optimal results validated by laboratories.

Targeted Action

n.clean, a cleaning and rinsing solution, acts as a detergent and has bacteriostatic and fungistatic effects. It prevents proteins from attaching to internal and external surfaces of instruments. Disinfection prior to sterilization is carried out by n.cid, a bactericidal, fungicidal and virucidal* disinfectant solution effective against wrapped viruses, as well as unwrapped Adenoviruses.

*Bactericidal: TBC, MRSA. - Fungicidal: Candida albicans - Virucidal: HBV, HCV, HIV, Herpes simplex, Influenza, H1N1 + H5N1.



Complete Traceability

Internal Traceability Software

In addition to the permanent internal validation process software is available to log all cycle data on an external device. iCare+ generates a serial number for every cycles. Once the data has been transferred to a computer you can add serial numbers of individual instruments to specific cycle records in order to establish total traceability.

Data Storage

To allow traceability and external storage of the iCare+ cycle data an easily accessible USB port is built into iCare+ unit*.

User-friendly Interface

The user friendly software interface allows easy and efficient management of all cycle data with the option of adding specific records for individual instruments at the push of a button.



iCare+

Easy to Use

The clearly and intuitively arranged control panel together with the LED indicators and the internally lit treatment chamber makes it really easy to operate iCare+ the treatment chamber:

- Yellow for cleaning
- White for disinfection
- Blue for lubrication
- When the green LED lights up at the end of has been completed correctly and rest assured and maintained to the highest standards

Cleaning



Disinfection



Lubrication



iCare+ Complete Sets

Dual Standard Ports + Dual Rotation Ports

MODEL iCare+ C2 ORDER CODE S102001

Single Standard Port + Triple Rotation Ports

MODEL iCare+ C3 ORDER CODE S103001

Contents

- iCare+ unit
- Power cord with L-shaped plug
- Air tube
- Notice on DVD

Specifications

- Power Supply : AC 100-230 V 50/60 Hz
- Capacity : up to 4 instruments
- Air Pressure : 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
- Weight : 14 kg
- Dimension : W 400 x D 405 x H 355 (mm)
- Capacity of the oil tank : 500 mL
- Capacity of the bottles for the cleaning and disinfection product : 500 mL

* Connects only to Midwest 4-hole type
* Air piping is necessary (5.0-6.0 kgf/cm²)



iCare+ Adaptors

MODEL iCare+ Adaptor PTL ORDER CODE Z1127010 • For NSK High Speed Handpieces for PTL-CL-LED Coupling

MODEL iCare+ Adaptor KV ORDER CODE Z1127011 • For KaVo® High Speed Handpieces for MULTiflex® LUX Coupling

MODEL iCare+ Adaptor SR ORDER CODE Z1127013 • For Sirona® High Speed Handpieces for Quick Coupling

MODEL iCare+ Adaptor WH ORDER CODE Z1127012 • For W&H® High Speed Handpieces for Roto Quick Coupling

MODEL iCare+ Adaptor BA ORDER CODE Z1127014 • For Bien-Air® High Speed Handpieces for Unifix® Coupling

Check with the dealer for the adaptors to mount other manufactures' handpieces.

Pressure regulator

MODEL Pressure regulator for iCare+ ORDER CODE S103500

Refill Maintenance Oil

MODEL n.Clean, 500 mL PEHD bottle (6 pcs)
ORDER CODE ACL600



MODEL n.Cid, 500 mL PEHD bottle (6 pcs)
ORDER CODE ACD600



MODEL Maintenance Oil, 1 L PEHD bottle
ORDER CODE Z016117



iCare

Automatically Clean & 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 cleaning and lubrication. The proper solution volume is preset based on handpiece type, and maintenance can be initiated at the touch of a button. The chuck cleaning system keeps chucks pristine, and the purging select mode lets you alter purge time depending on the situation for truly comprehensive maintenance. Thanks to its stylish and compact body, iCare is also space efficient and totally in harmony with your working environment.

Advantages

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



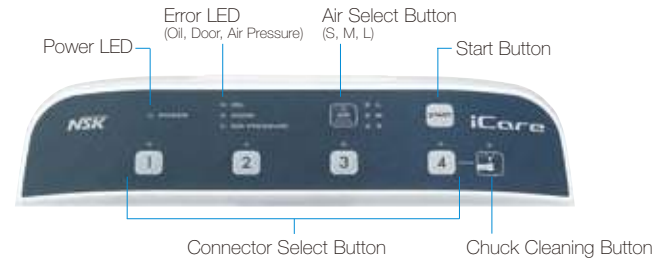
Preset Proper Solution Volume Based on Handpiece Type

The proper solution volume is preset based on high speed and low speed handpieces, ensuring precise and thorough lubrication at the touch of a button.



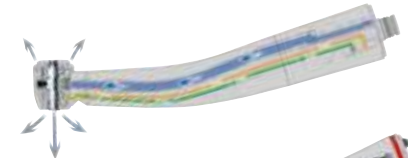
Ergonomic and Easily Readable Large Panel

Simple One-Touch Operation to Start Lubrication.



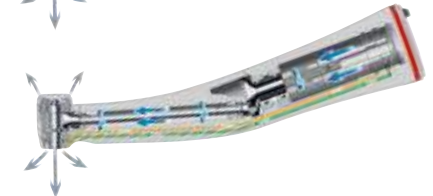
High Speed Handpieces

iCare meticulously cleans the components of high speed handpieces.



Low Speed Handpieces

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



iCare

Purging Select Mode

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



Chuck Cleaning Function

The chuck cleaning 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.



Solution Tank

iCare's big solution tank has a capacity of 1.2 Liters, allowing you to pour in a full one-liter bottle of maintenance solution at once, reducing the necessity for frequent refilling. The enclosed nozzle enables clean and easy refills.



Accommodates Both NSK Handpieces and Those of Other Brands

NSK and all other brands of low speed handpieces connect directly to the coupling supplied. NSK high speed handpieces require the PTL adaptor. Adaptors are available for direct connection of most other brands of high speed handpieces.

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 quantity and an un locked front door.

Stylish and Compact

In the pursuing ultimate ease of use, NSK has given iCare the power to perform automatic maintenance for up to four handpieces at once. iCare is also designed to be simple to set up and space efficient, you can install it virtually anywhere.



iCare Complete Sets

Dual Standard Connectors + Dual Rotation Connectors

MODEL iCare C2 Type (120 V) ORDER CODE Y1002796

MODEL iCare C2 Type (230 V) ORDER CODE Y1002787

Single Standard Connector + Triple Rotation Connectors

MODEL iCare C3 Type (120 V) ORDER CODE Y1002797

MODEL iCare C3 Type (230 V) ORDER CODE Y1002788

Contents

- iCare unit
- Power cord
- Chuck Cleaning Nozzle
- Maintenance oil for iCare (1 Liter)
- Mist filter set
- Oil absorber sheet
- Air tube

Specifications

- Power Supply : AC 100-240 V 50/60 Hz
 - Air Pressure : 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
 - Weight : 6.5 kg (C2 type / C3 type)
 - Dimension : W 280 x D 240 x H 350 (mm)
 - Solution Tank Capacity : 1.2 L
- Connects only to Midwest 4-hole type
 - Air piping is necessary (5.0-6.0 kgf/cm²)
 - Do not use iCare to lubricate air scalars and Phatelus air motors.
The iCare lubricating system is not designed to lubricate those particular products. Maintain air scalars and Phatelus air motors as described in the operation manual for each product.
 - If blood infiltrates inside a handpiece, iCare may not totally clean the internal handpiece components, and internal blood coagulation may cause product failure. In this case, NSK recommends to immediately lubricate those handpieces with PANA SPRAY Plus.

iCare Adaptors

MODEL PTL Adaptor	ORDER CODE Z257010	• For NSK High Speed Handpieces for PTL-CL-LED Coupling
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 Sirona® 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 Heads

Check with the dealer for the adaptors to mount other manufactures' handpieces.

Refill Maintenance Oil

MODEL Maintenance Oil for iCare
(1 Bottle, 1 Liter)

ORDER CODE Z016130

MODEL Maintenance Oil for iCare
(Pack of 6 Bottles)

ORDER CODE Y1002783

MODEL Mist Filter Set
ORDER CODE Y900159

- Pack of 12

MODEL Oil Absorber Sheet
ORDER CODE U433135

- Pack of 10

Multi Stands

135°C
111

NSK Multi Stand is the convenient way to organize and store NSK high and low speed handpieces and heads. Autoclavable at 135°C.

MODEL Multi Stand Complete ORDER CODE Z036

- For NSK high speed and low speed attachments

MODEL Multi Stand for Phatelus ORDER CODE Z036002

- 3 x Adaptor A
- 2 x Adaptor C

Multi Stand Handpiece Adaptors

135°C
111

MODEL Adaptor A ORDER CODE Z036201

- For High speed handpieces and Phatelus air motors

MODEL Adaptor B ORDER CODE Z036202

- For E-Type* Low speed handpieces and Phatelus air motor heads

MODEL Adaptor C ORDER CODE Z036203

- For Phatelus and Mach couplings

MODEL Adaptor KV ORDER CODE Z036204

- For KaVo® MULTIflex® LUX

MODEL Adaptor SR ORDER CODE Z036205

- For Sirona® Quick Coupling

MODEL Adaptor WH ORDER CODE Z036207

- For W&H® Roto Quick

MODEL Adaptor BA ORDER CODE Z036206

- For Bien-Air® Unifix®

MODEL Adaptor F ORDER CODE Z036209

- For ENDO-MATE TC2 / DT & iSD900 heads

*E-Type: Conformable to ISO 3964.

PANA SPRAY Plus

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

MODEL **Pana Spray Plus** ORDER CODE **Z182100**

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

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

- PANA SPRAY Plus pack of 6



MODEL **Tip Nozzle** ORDER CODE **Z020201**



Spray Mist Absorber

A convenient way to contain mist spray from escaping into the environment. Simply insert the handpiece into the Absorber Pack then apply the spray lubricant.



MODEL **Spray Mist Absorber** ORDER CODE **Y900084**

- Pack of 10



PANA SPRAY Plus Nozzles

135°C
551



MODEL **Phatelus Spray Nozzle** ORDER CODE **P183090**

- For High speed attachments and air motors which attach to Phatelus and Mach 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® Unifix®



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 & iSD900 heads

Multi Gauge

Measures handpiece tubing pressure. This includes drive air and water pressures. Where applicable it also measures exhaust air and coolant air. Midwest 4 hole and Borden 2/3 hole fittings are available.



MODEL **MG-4H** ORDER CODE **Z109400**





- For Midwest 4 hole & LUX Coupling

MODEL **MG-2/3H** ORDER CODE **Z109200**

- For Borden 2/3 hole

Handpieces Air Pressures

Air Turbine		Air Pressures MPa (kgf/cm ²)
	Ti-Max Z	0.25~0.30 MPa (2.5~3.0 kgf/cm ²)
	S-Max M	PTL : 0.20~0.25 MPa (2.0~2.5 kgf/cm ²) K, KL, SL, WLED, BLED : 0.25~0.30 MPa (2.5~3.0 kgf/cm ²)
	S-Max pico	
	Ti-Max X450	0.25~0.30 MPa (2.5~3.0 kgf/cm ²)
	Pana-Max PLUS	M4, B2 : 0.18~0.22 MPa (1.8~2.2 kgf/cm ²) QD : 0.22~0.25 MPa (2.2~2.5 kgf/cm ²)
	Pana-Max2	PTL, M4, B2 : 0.20~0.25 MPa (2.0~2.5 kgf/cm ²) KV : 0.25~0.30 MPa (2.5~3.0 kgf/cm ²)
	PRESTO AQUA LUX	0.25~0.30 MPa (2.5~3.0 kgf/cm ²)
	PRESTO AQUA II	
	PRESTO II	0.20~0.25 MPa (2.0~2.5 kgf/cm ²)
Air Motor		
	Ti-Max X205L	0.20~0.25 MPa (2.0~2.5 kgf/cm ²)
	DynaLED M205LG	
	S-Max M205	
	FX205m	

Oral Hygiene		Air Pressures MPa (kgf/cm ²)
	Ti-Max S970	0.30 MPa (3.0 kgf/cm ²)
	AS2000	0.28 MPa (2.8 kgf/cm ²)
	Prophy-Mate neo	0.27~0.40 MPa (2.7~4.0 kgf/cm ²)
	Perio-Mate	0.30~0.40 MPa (3.0~4.0 kgf/cm ²)

DENTAL LABORATORY

263

262

DENTAL
LABORATORY

ULTIMATE XL Series

Great Hands Need Great Tools

The superior creative engine from NSK, as preferred by dental technicians worldwide.

Letting skilled hands turn technique into form.

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 Brushless Micromotor

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

ULTIMATE XL Series

The ULTIMATE XL Series offers a choice of four control units, according to space and user requirements. All functions are controlled by NSK's microcomputer which maintains smooth starting and stopping ensuring excellence in overall operability.

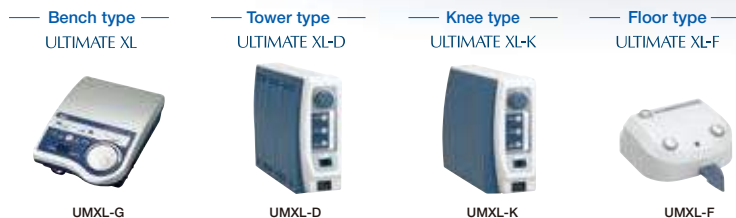
Advantages

- Lightweight and compact body
- Long-term durability
- Ergonomic shaped handpiece
- Minimal noise and vibration
- Special dust proof mechanism



ULTIMATE XL Series

Choice of 2 micromotors and 4 control units are available.



ULTIMATE XL

BRUSHLESS



Bench Top System

Features

- Speed of 1,000~50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function

*Not applicable to connect with an air turbine handpiece



Specifications

- Power Supply : AC 120 V or 230 V 50/60 Hz
- Weight : 2.8 kg
- Dimensions : W 167 x D 247 x H 77 (mm)



ULTIMATE XL Systems

Torque	MODEL UMXL-GT (120 V)	ORDER CODE Y141466
	MODEL UMXL-GT (230 V)	ORDER CODE Y141471
Compact	MODEL UMXL-GC (120 V)	ORDER CODE Y141467
	MODEL UMXL-GC (230 V)	ORDER CODE Y141472

Contents

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

ULTIMATE XL-D

BRUSHLESS



Bench Top Tower System

Features

- Speed of 1,000~50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function
- Available to connect with an air turbine adaptor



An optional bracket is available for wall mounting.

ULTIMATE XL-D can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



Specifications

- Power Supply : AC 120 V or 230 V 50/60 Hz
- Weight : 3.3 kg
- Dimensions : W 81 x D 270 x H 230 (mm)

ULTIMATE XL-D Systems

Torque	MODEL UMXL-DT (120 V)	ORDER CODE Y141501
	MODEL UMXL-DT (230 V)	ORDER CODE Y141504
Compact	MODEL UMXL-DC (120 V)	ORDER CODE Y141502
	MODEL UMXL-DC (230 V)	ORDER CODE Y141505



Contents

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

ULTIMATE XL-K

BRUSHLESS



Knee Control System

Features

- Speed of 1,000~50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function
- Available to connect with an air turbine adaptor



Bracket is available for wall mounting.

ULTIMATE XL-K can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



Specifications

- Power Supply : AC 120 V or 230 V 50/60 Hz
- Weight : 3.2 kg
- Dimensions : W 90 x D 270 x H 230 (mm)

ULTIMATE XL-K Systems

Torque	MODEL UMXL-KT (120 V)	ORDER CODE Y141492
	MODEL UMXL-KT (230 V)	ORDER CODE Y141495
Compact	MODEL UMXL-KC (120 V)	ORDER CODE Y141493
	MODEL UMXL-KC (230 V)	ORDER CODE Y141496



Contents

- Control unit • Micromotor Handpiece • Handpiece Stand

ULTIMATE XL-F

BRUSHLESS

Floor Type Foot Control System



Features

- Speed of 1,000~40,000 min⁻¹
- Auto Cruise Function
- Available to connect with an air turbine adaptor

* Speed and all other function are controlled via foot control.
For safety, maximum speed preset to 40,000 min⁻¹.



ULTIMATE XL-F can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



Specifications

- Power Supply : AC 120 V or 230 V 50/60 Hz
- Weight : 3.8 kg
- Dimensions : W 230 x D 292 x H 113 (mm)

ULTIMATE XL-F Systems

Torque

MODEL UMXL-FT (120 V) ORDER CODE Y141510
MODEL UMXL-FT (230 V) ORDER CODE Y141513

Compact

MODEL UMXL-FC (120 V) ORDER CODE Y141511
MODEL UMXL-FC (230 V) ORDER CODE Y141514



Contents

- Control unit • Micromotor Handpiece • Handpiece Stand

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)

Air turbine



PRESTO AQUA LUX



PRESTO AQUA II



PRESTO II

Turbine Adaptor TA50

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



ULTIMATE XL-D



ULTIMATE XL-K



ULTIMATE XL-F

VOLVERE i7 Coreless Micromotor

A User-Friendly Micromotor For Any Dental Laboratory

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
- Ecological Design
- Auto Cruise Function
- Overload alarm system

Foot Control (Variable)

The foot control allows the operator to seamlessly vary the motor speed depending on how far the pedal is being depressed. Using the foot control instead manual adjustments increases efficiency and work flow.



High Torque, High Efficiency Coreless Motor

The micromotor in the VOLVERE i7 handpiece has no core and generates less rotary momentum. This contributes to the controllability of the rotation speed and reduces uneven rotation. In addition, this motor has higher power efficiency compared to a conventional motor and can maintain constant speed even at high speeds.

- Special Dust Proof Mechanism
- High Precision
- Light and Compact
- Low Vibration & Low Noise



Specifications

Control Unit	Standard Type Motor Handpiece	E-Type Motor Handpiece
<ul style="list-style-type: none"> • Power Supply : AC 120 V or 230 V 50/60 Hz • Dimensions : W 69 x D 185 x H 167 (mm) • Weight : 930 g 	<ul style="list-style-type: none"> • Speed : 1,000~35,000 min⁻¹ • Max. Torque : 4.1 Ncm • Dimensions : L 145 x ø24.5 (mm) • Weight : 192 g (without cord) • Cord Length : 1.2 m 	<ul style="list-style-type: none"> • Speed : 1,000~35,000 min⁻¹ • Max. Torque : 4.1 Ncm • Dimensions : L 109.3 x ø24.5 (mm) • Weight : 118 g (without cord) • Cord Length : 1.2 m

VOLVERE i7 Complete Sets



Standard	MODEL VOLVERE i7 RM (120 V)	ORDER CODE Y1002892
	MODEL VOLVERE i7 RM (230 V)	ORDER CODE Y1002890
E-Type With Handpiece	MODEL VOLVERE i7 VR-EB (230 V)	ORDER CODE Y1002891
E-Type Without Handpiece	MODEL VOLVERE i7 E (120 V)	ORDER CODE Y1002893
	MODEL VOLVERE i7 E (230 V)	ORDER CODE Y1003523

Contents

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

PRESTO AQUA LUX Optic

Lube Free Air Turbine Handpiece with LED

LIGHT + WATER

Near-daylight LED technology illuminates with pinpoint accuracy. From mist to drops - complete spray control. Light and water combination means precise control across a broad area.

Advantages

- Simple and easy removal of the water bottle
- On-Off function of LED light and water coolant spray
- Capable of running independently with the incorporated water bottle or connected to mains water supply



Easy adjustment of the water coolant spray, LED light and spray air



PRESTO AQUA LUX Complete Sets

MODEL PRESTO AQUA LUX (120 V) ORDER CODE Y1001199
MODEL PRESTO AQUA LUX (230 V) ORDER CODE Y1001151

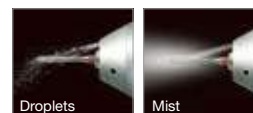
Contents

- 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 (120 V / 230 V) • AC Adaptor

LED Light Enables You to Work More Efficiently

- Accurate lighting at the point of operation does not hide any detail, allowing you to focus on your work more easily.
- LED illuminates fine unevenness and air bubbles of the internal frames which can not be illuminated under the normal bench lighting, thus dramatically improving the quality of internal adjustments.
- Enables precise work and materials assessment under the microscope, which improves efficiency and reduces fatigue.

PRESTO AQUA LUX Handpiece **LED**



Water Coolant Options



Optic MODEL PRA-LUX-HP ORDER CODE T1002

- PRESTO AQUA LUX handpiece

MODEL PR-AQL Hose ORDER CODE Z1050

- LED incorporated

PRESTO AQUA II Non-Optic

Lube Free Air Turbine Handpiece with Water Spray

Advantages

- Simple and easy removal of the water bottle
- Seamless adjustments of water volume and spray air
- On-off function of water coolant spray
- Capable of running independently with the incorporated water bottle or connected to mains water supply



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

PRESTO AQUA Handpiece

- 320,000 min⁻¹
- Water coolant spray
- Water coolant options
- Requires no lubrication
- Swivel twist-free handpiece
- Low noise and vibration
- Unique dust-proof mechanism



Non-Optic MODEL PRA-HP ORDER CODE T816

- PRESTO AQUA handpiece

MODEL QD-J B3 ORDER CODE T354051

- PRESTO AQUA coupling

PRESTO II Non-Optic

Lube Free Air Turbine Handpiece

Advantages

- Lightweight and compact



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

PRESTO Handpiece

- 320,000 min⁻¹
- Requires no lubrication
- Low noise and vibration
- Unique dust-proof mechanism



Non-Optic MODEL PR-HP ORDER CODE T815

- Includes 2 m hose

SPARE PARTS



Ti-Max Z series

Page 24-27

MODEL	PRODUCTS	ORDER CODE
PTL O-ring Set (Pack of 5)		Y900580

Couplings

Page 10-11

MODEL	PRODUCTS	ORDER CODE
Non-Retraction Valve		P401054

S-Max M series

Page 29-31

SX-MU03 Cartridge for Miniature head		P1001250
SX-SU03 Cartridge for Standard head		P1002250
PTL O-ring Set (Pack of 5)		Y900580

SX-MU04 Head cap for Miniature head		P1001500
SX-SU04 Head cap for Standard head		P1002500
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535

S-Max pico Series

Page 34-35

SX-PU03 Cartridge for S-Max pico		P1140200
PTL O-ring Set (Pack of 5)		Y900580

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

Ti-Max X450 series

Page 38-39

PTL O-ring Set (Pack of 5)		Y900580
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Pana-Max PLUS

Page 40-41

SX-MU03 Cartridge for Miniature head		P1001250
SX-SU03 Cartridge for Standard head		P1002250
SX-MU04 Head cap for Miniature head		P1001500

SX-SU04 Head cap for Standard head		P1002500
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535

Pana-Max2

Page 44-45

PAX2-SU03 Cartridge		P1190
PAX2-SU04 Head cap		P1190050

PAX2-SU05		P1190765
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FX Series

Page 74-75

MODEL	PRODUCTS	ORDER CODE
FX25-04 Head cap for FX25m		C1052500
FX25-03 Cartridge for FX25m		C1052700
FX Spray nozzle For FX25m/FX15m		C1052702

MODEL	PRODUCTS	ORDER CODE
Spray Nozzle For FX65m		H019711
FX Wrench For FX25m		C1052701
Tube (RSM)		Z166101

EX Series / Ti-Max X95EX

Page 68, 76-79

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 NM		C039701

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 (RSM)		Z166101










Varios Combi Pro

Page 103

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Chamber (For Prophy use)		U1135018	Tip Holder		Z221080
Chamber (For Perio use)		U1135019	Tip Cover L		Z217850
Handpiece Hose (For Prophy use)		T1051001	Tip Cover S		Z217851
Handpiece Hose (For Perio use)		T1053001	Sterilization case		Z1035001
Power Handpiece (For Prophy use)		T1074001	Irrigation Pump		U1135079
Power Handpiece (For Perio use)		T1077001	VCP O-ring set (Pack of 7)		Y1003435
Nozzle (For Prophy use)		T1074012	O-ring (Thin section) 1 for the VCP bottle		D0312090 100
Nozzle (For Perio use)		T1077012	O-ring (Thick section) 1 for the VCP bottle		D0310075 150
VCP Bottle Set Bottle and Cap		U1135017	Chamber Cap		U1135089
VA2-LUX-HP Optic Handpiece		E351050	O-ring For Chamber Cap		Y1003545
VA2LUX-SC Handpiece Cord for VA2LUX		E351054	O-ring set (Irrigation Bottle)		Y1003544
FC-79 Foot Control		Z1256001	O-ring 1 for the Handpiece Cord		Y1003546
Water Filter Set 3.6 m		U1135078	O-ring set (Handpiece Hose)		Y1003500
Water Filter		U387042	O-ring set (Nozzle)		Y1003501
Water Pressure Reducing Valve		U1135093	Air Hose 3.6 m		D0914406 036
Tip Wrench (CR-10)		Z221076	Spanner Wrench 5x8 (Pack of 2)		Y1001301
E Tip Replacement Wrench		Z217399	VCP Ring Wrench		T1074601

Varios Combi Pro

Page 103

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Perio-Mate Nozzle Tip (Pack of 40)		Y1002741	Cleaning File		T798092
Nozzle Tip Remover		T1043751	Cleaning Brush		T798093
Lubrication Oil		Z016112	Unlocking tool		U1135256
Cleaning Wire (L)		T798091	Fuse		D1202220010
Cleaning Wire (S)		T798095			









Varios 970 / 570 / 370 / 170

Pages 107-110

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
VA2-LUX-HP Optic Handpiece		E351050	Tube Ring (Pack of 2)		Y900077
VA2-HP Non-Optic Handpiece		E350050	Tip Wrench (CR-10)		Z221076
VA970LUX-SC Handpiece Cord for Varios 970 LUX		E351055	E Tip Replacement Wrench		Z217399
VA970-SC Handpiece Cord for Varios 970		E350055	Tip Holder		Z221080
VA170LUX-SC Handpiece Cord for Varios 170 LUX		E351056	Tip Cover L		Z217850
VA170-SC Handpiece Cord for Varios 170		E350056	Tip Cover S		Z217851
FC-70 Foot Control (2.5 m)		Z1008001	Sterilization case		Z1035001
FC-71 Foot Control (5 m) for Varios 370		Z1008002	Handpiece Holder For Varios 370		10001505
AC Adaptor (2 m) For Varios 570		Y1001762	VA Bottle 400 (400 mL) For Varios 970		Z1047002
AC Adaptor (5 m) For Varios 370		Y1001790	Irrigation Pump For Varios 970		10000643
Water Supply Connector		U387030	O-ring For Handpiece Cord		D0310020 080
Water Filter Set (2 m) 2 water supply tube, water filter, water filter case		U387040	O-ring (Thin section) For VA Bottle 400		D0312090 100
Water Filter Set (4 m) For Varios 370 2 water supply tube, water filter, water filter case		U1007080	O-ring (Thick section) For VA Bottle 400		D0310075 150
Water Supply Tube (2 m)		U387580	Varios 350/370 Stand		Z254
Water Supply Tube (4 m) For Varios 370		D0914406 040	Varios 350/370 Mounting Bracket		Z259
Water Filter Case		Y900069	Control Unit Holder For Varios 370		Y1001812
Water Filter		U387042	Spanner Wrench 5x8 (Pack of 2)		Y1001301

S970 / AS2000 Air Scaler

Pages 136-137

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
CR-20 Tip Replacement Wrench with Torque Limiter		Z1090001	Tip Cover L		Z217850
E Tip Replacement Wrench		Z217399	Tip Cover S		Z217851
Tip Holder		Z252080	S970 O-ring Set (Pack of 4) For S970		Y1001953



Prophy-Mate neo









Page 148

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
PMN-HP Handpiece with 60° nozzle head		T797010	Blower Nozzle- KV (neo)		T886094
Nozzle 60°		T797012	Blower Nozzle- SR (neo)		T887094
Nozzle 80°		T797013	Blower Nozzle- WH (neo)		T888094
Powder Case Cover		T798133	Blower Nozzle- BA (neo)		T889094
Gasket		T798135	Blower Nozzle-M4 (neo)		T884094
O-ring (Front Nozzle)		D0312039 070	Blower Nozzle-B2 (neo)		T885094
O-ring (neo) (Rear Nozzle)		D0312029 070	Lubrication Oil		Z016112
PTL O-ring Set (Pack of 5)		Y900580	Cleaning Wire (L)		T798091
PM O-ring Set (Pack of 3)		Y900054	Cleaning Wire (S)		T798095
Ring Wrench		T797601	Cleaning File		T798092
Blower Nozzle- PTL (neo)		T798094	Cleaning Brush		T798093



Perio-Mate

Page 154

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
PER-HP		T1043010	Blower Nozzle- KV (PER)		T1044094
Nozzle		T1043012	Blower Nozzle- SR (PER)		T1046094
Powder Case Cover		T798133	Blower Nozzle- WH (PER)		T1048094
Gasket		T798135	Blower Nozzle- BA (PER)		T1050094
O-ring (Front Nozzle)		D0312039 070	Blower Nozzle- M4 (PER)		T1052094
O-ring (PER) (Rear Nozzle)		D0312023 060	Blower Nozzle- B2 (PER)		T1054094
PTL O-ring Set (Pack of 5)		Y900580	Lubrication Oil		Z016112
PM O-ring Set (Pack of 3)		Y900054	Cleaning Wire (L)		T798091
Ring Wrench		T797601	Cleaning Wire (S)		T798095
Nozzle Tip Remover		T1043751	Cleaning File		T798092
Blower Nozzle- PTL (PER)		T1042094	Cleaning Brush		T798093



ENDO-MATE TC2

Page 158

MODEL	PRODUCTS	ORDER CODE
Ni-MH Rechargeable Battery (Pack of 2)		Y900103
Battery Charger		U614
Power Cord		U438550 (120 V) U439550 (230 V)

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

MODEL	PRODUCTS	ORDER CODE
Cord For MPA / MPAS		C876021
Connection Cord Clip		C876509

ENDO-MATE DT

Page 161

ENDO-MATE DT Adaptor		U479001(120 V) U480(230 V)
Handpiece Stand		Z095206
Cord For MPA / MPAS		C876021

Connection Cord Clip		C876509
Rechargeable Batteries		U421070
FC-15 Foot Control		Z248

iPexII

Page 163

iPexII File Clip		U1109351
iPexII Tester		U1109353

iPexII Probe		U1109352
Lip Hook		U501513

ENDO-MATE TC2 / ENDO-MATE DT Heads

Page 159

Heads for Endodontic Application			Endodontic Application		
MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
MP-Y Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck	 360° Rotation	C547	FC 1:1 Direct Drive		C873
MPA-Y Connection for Apex locator (for long shank), Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck	 360° Rotation	C548	F4R 4:1 Reduction		C872
MPAS-Y Connection for Apex locator (for short shank), Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck	 360° Rotation	C882	F10R 10:1 Reduction		C398
			F16R 16:1 Reduction		C871
			F20R 20:1 Reduction		C399

Dentalone

Page 171

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Saliva ejector with hose and connector		57064-1	NLX motor cord		37074
3F syringe with light		57066	Cord for Scaler Varios 170		37075
Screwing cap suction, assembled		57068	FC-76 Foot Control		Z1082
Suction bottle complete		57072	Syringe tip		37066
Screwing cap water, assembled		57069	Saliva ejector sieve		37064.6
Water tank complete		57073	Saliva ejector adaptor		37064.7
Cover assembled		57082	Sterilization case		Z1035001
Socket assembled		57088	Tip Wrench (CR-10)		Z221076

VIVA ace

Page 177

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
isoE-LUX		Z1265	Hose Cap		U1144752
V-ace Vacuum Nozzle (Pack of 10)		U1144088	V-ace Water Bottle Set		U1144080
V-ace Vacuum Hose Set		U1144074	FC-76S		Z1082003
V-ace Vacuum Bottle Set		U1144070	FC-70S		Z1008004
V-ace 3 way Syringe Set		U1144040	AC Power Cord		U439550
V-ace 3 way Syringe Nozzle		U1144046	Shoulder Belt		U1144370
V-ace Vacuum Junction Hose		U1144753	Gasket		U1144729
Vacuum Cap A		U1144750	Filter		U1144727
Vacuum Cap B		U1144751			

VIVAMATE G5





Page 179





VIVAMATE G5 230 V Control unit		U1068004	Battery Pack		Y1002886
VMG30EM MC VIVAMATE G5 Micromotor with Cord		E1069002	AC Adaptor For VIVAMATE G5		U1115
FC-76M Foot Control (Optional)		Z1082002	AC Power Cord		U439550
Handpiece Stand		Z095206	Carrying Set For VIVAMATE G5		Y1002171



Surgic Pro

Pages 187-192

MODEL	PRODUCTS	ORDER CODE
Tube Holder		E295105
Handpiece Stand		Z1029201
Irrigation Tube (Pack of 5)		Y900113
Coolant Solution Hanger Post		U370152

MODEL	PRODUCTS	ORDER CODE
Handle Set		Z1027001
Protection Plug		10001595
Tube Holder (Pack of 7)		Y900083
SG-CASE Sterilization Cassette		20001348

Surgic Pro / VarioSurg3

Page 193

SG Link Stand		Z1176
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SG Link Cable		Z1189
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VarioSurg3

Pages 210-227



E Tip Replacement Wrench For V10-S		Z217399
VS Tip Wrench For SG1A, SG8A, Socket Lift Tip (CR-40)		Z305350
Tip Wrench (CR-30)		10000977
Tips Holder		20001327
Handpiece Stand		Z1029201

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

Surgical Handpieces




Pages 195-199

MODEL	PRODUCTS	ORDER CODE
Internal Spray Nozzle		10000324
Nozzle Holder X-SG20L / nanoSG20LS X-DSG20L, X-DSG20		20000396
Nozzle Holder For SG20		20000357

MODEL	PRODUCTS	ORDER CODE
Y-Connector		C823752
Cleaning Wire		20000512

Surgical Handpieces SGM / SGMS series

Page 200

SGM-I Ultra Miniature Head Latch type		C293001
SGMS-I With Depth Indicator		C594001
ER16i 16:1 Reduction Handpiece		C628001
ER20i 20:1 Reduction Handpiece		C629001
Internal Spray Nozzle For SGM / SGMS		C293025
Irrigation Tube Clamp		C202750

Y-Connector		C823752
Wrench for Handpiece Attachment For SGM / SGMS		Z103101
Ruler For SGMS		Z217399
Depth Indicator (L) For SGMS		C594031
Depth Indicator (S) For SGMS		C594021

Micro Surgery Handpieces

Page 201

Spray Nozzle For SGS, SGA		H263018
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Micro Saw Handpieces

Page 202

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

Page 205

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Quick Charger for iSD900		U1070001	Calibration Bur		Z1057101
Power Cord		U438550 (120 V) U439550 (230 V)	On/Off Switch Lever		Z1070001
Torque Calibrator		Z1056001	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+

Page 251

E-type O-ring joint (Pack of 4)		Y900185	Drip Tray		S103206
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iCare

Page 256

Chuck Cleaning Nozzle		Z257301	HP Head Filter (Pack of 200)		U1120118
Air Filter		U508352			

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

Pages 265-270




MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
UMXL-TM Motor Torque type (with 1.2 m cord)		E355	FC-64 Foot Control (for XL / XL-D)		Z304
UMXL-CM Motor Compact type (with 1.2 m cord)		E356	Handpiece Stand (wrench is not included)		Z095201
UMXL-TM 2 M Motor Torque type (with 2 m cord)		E355002	Suspension Handpiece Cradle (For XL)		Z083
UMXL-CM 2 M Motor Compact type (with 2 m cord)		E356002	Chuck-2.35A		H203A180A
UHRXL-T Attachment Torque type		H269	Handpiece Holder (For XL)		Y900770
UHRXL-C Attachment Compact type		H271	Wrench for Locking Rotation		H269751
Motor Cord T (Torque type 1.2 m)		E355051	Wrench for Adjusting Chuck		K015751
Motor Cord C (Compact type 1.2 m)		E356051	Bracket Set (For XL-D / XL-K)		U364090
Motor Cord T 2 M (Torque type 2 m)		E355055	Fuse-T2.5A (120 V) Fuse-T1.6A (230 V)		D1202225010 D1202216010
Motor Cord C 2 M (Compact type 2 m)		E356055			



PRESTO AQUA LUX

Page 275

MODEL	PRODUCTS	ORDER CODE
PR-AQL Hose Coupling Hose		Z1050
PR-AQL03 PRESTO AQUA LUX Cartridge		T1002250
Handpiece Stand		Z095206
AC Adaptor PR-AQL		U1044

MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA LUX Cord (120 V)		40010301
PRESTO AQUA LUX Cord (230 V)		U439550
PTL O-ring Set (Pack of 5)		Y900580

PRESTO AQUA II

Page 276








Hose for PRESTO AQUA II		Z308050
QD-J B3 Coupling		T354051

PR-AQ03 PRESTO AQUA Cartridge		T816016
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PRESTO AQUA LUX / PRESTO AQUA II

Pages 275-276

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

VOLVERE i7





Page 273

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

PRESTO II

Page 277

Handpiece Stand		Z010134
AFC-40 Foot Control		Z127
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

Turbine Cartridges Quick Guide

HANDPIECE		CARTRIDGE		HEAD CAP	
MODEL	PRODUCT NAME	MODEL	ORDER CODE	MODEL	ORDER CODE
Z800L	Ti-Max Z800L	TiZ-MU03	Y1002075	TiZ-MU04	P1051050
Z800KL / Z800SL	Ti-Max Z800KL / Z800SL	TiZ-MU03	Y1002075	TiZ-MU04	P1051050
Z800WL / Z800BL	Ti-Max Z800WL / Z800BL	TiZ-MU03	Y1002075	TiZ-MU04	P1051050
Z900L	Ti-Max Z900L	TiZ-SU03	Y1002076	TiZ-SU04	P1052050
Z900KL / Z900SL	Ti-Max Z900KL / Z900SL	TiZ-SU03	Y1002076	TiZ-SU04	P1052050
Z900WL / Z900BL	Ti-Max Z900WL / Z900BL	TiZ-SU03	Y1002076	TiZ-SU04	P1052050
X500L	Ti-Max X500L	TiX-MU03	Y900200	TiX-MU04	P067050
X500KL / X500SL	Ti-Max X500KL / X500SL	TiX-MU03	Y900200	TiX-MU04	P067050
X500WLED / X500BLED	Ti-Max X500WLED / X500BLED	TiX-MU03	Y900200	TiX-MU04	P067050
X600L	Ti-Max X600L	TiX-SU03	Y1001022	TiX-SU04	P068050
X600KL / X600SL	Ti-Max X600KL / X600SL	TiX-SU03	Y1001022	TiX-SU04	P068050
X600WLED / X600BLED	Ti-Max X600WLED / X600BLED	TiX-SU03	Y1001022	TiX-SU04	P068050
X700L	Ti-Max X700L	TiX-TU03	Y1001023	TiX-TU04	P069050
X700KL / X700SL	Ti-Max X700KL / X700SL	TiX-TU03	Y1001023	TiX-TU04	P069050
X700WLED / X700BLED	Ti-Max X700WLED / X700BLED	TiX-TU03	Y1001023	TiX-TU04	P069050
M500L / M500	S-Max M500L / M500	SX-MU03	P1001250	SX-MU04	P1001500
M500KL / M500K	S-Max M500KL / M500K	SX-MU03	P1001250	SX-MU04	P1001500
M600L / M600	S-Max M600L / M600	SX-SU03	P1002250	SX-SU04	P1002500
M600KL / M600K	S-Max M600KL / M600K	SX-SU03	P1002250	SX-SU04	P1002500
M600SL	S-Max M600SL	SX-SU03	P1002250	SX-SU04	P1002500
M600WLED / M600BLED	S-Max M600WLED / M600BLED	SX-SU03	P1002250	SX-SU04	P1002500
MLXT-MU	Mach-Lite XT M	NMC-MU03	P047	NMC-MU04	P047050
MLXT-SU	Mach-Lite XT S	NMC-SU03	P045	NCH-MU04	P040050
MLXT-TU	Mach-Lite XT T	NMC-TU03	P046	NCH-TU04	P042050
MC2-MU	Mach 2 M	NMC-MU03	P047	NMC-MU04	P047050
MC2-SU	Mach 2 S	NMC-SU03	P045	NCH-MU04	P040050
MC2-TU	Mach 2 T	NMC-TU03	P046	NCH-TU04	P042050
S-Max pico	S-Max pico	SX-PU03	P1140200	SX-PU04	P1140500
S-Max pico KL	S-Max pico KL	SX-PU03	P1140200	SX-PU04	P1140500
S-Max pico SL	S-Max pico SL	SX-PU03	P1140200	SX-PU04	P1140500
S-Max pico WLED	S-Max pico WLED	SX-PU03	P1140200	SX-PU04	P1140500
S-Max pico BLED	S-Max pico BLED	SX-PU03	P1140200	SX-PU04	P1140500
X450L	Ti-Max X450L	TiX45-SU03	Y1001906	TiX45-SU04	P1078500
X450KL / X450SL	Ti-Max X450KL / X450SL	TiX45-SU03	Y1001906	TiX45-SU04	P1078500
X450WLED / X450BLED	Ti-Max X450WLED / X450BLED	TiX45-SU03	Y1001906	TiX45-SU04	P1078500

HANDPIECE		CARTRIDGE		HEAD CAP	
MODEL	PRODUCT NAME	MODEL	ORDER CODE	MODEL	ORDER CODE
A450L	Ti-Max A450L	NCH-SU03	P041	NCH-MU04	P040050
AK450L / AS450L	Ti-Max AK450L / AS450L	NCH-SU03	P041	NCH-MU04	P040050
AW450L / AB450L	Ti-Max AW450L / AB450L	NCH-SU03	P041	NCH-MU04	P040050
Pana-Max2 PTL	Pana-Max2 PTL	PAX2-SU03	P1190	PAX2-SU04	P1190050
Pana-Max2 KV	Pana-Max2 KV	PAX2-SU03	P1190	PAX2-SU04	P1190050
Pana-Max2 M4 / B2	Pana-Max2 M4 / B2	PAX2-SU03	P1190	PAX2-SU04	P1190050
PAP-MU M4 / B2	Pana-Max PLUS MU	SX-MU03	P1001250	SX-MU04	P1001500
PAP-QD MU	Pana-Max PLUS MU	SX-MU03	P1001250	SX-MU04	P1001500
PAP-SU M4 / B2	Pana-Max PLUS SU	SX-SU03	P1002250	SX-SU04	P1002500
PAP-QD SU	Pana-Max PLUS SU	SX-SU03	P1002250	SX-SU04	P1002500
PAX-SU M4 / B2	PANA-MAX SU	PAX-SU03	Y900772	PAX-SU04	P074050
PAX-TU M4 / B2	PANA-MAX TU	PAX-TU03	Y900773	PAX-TU04	P075050
PRA-LUX-HP	PRESTO AQUA LUX Handpiece	PR-AQL03	T1002250	—	—
PRA-HP	PRESTO AQUA Handpiece	PR-AQ03	T816016	—	—
PR-HP	PRESTO Handpiece	PR-03	T815016	—	—

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THE ENVIRONMENT

Environmental responsiveness is pivotal to product quality

NSK recognizes that initiatives to reduce the environmental impact are vital to shaping the reputation of the Company and its products. We were swift to tackle environmental issues, as part of which we secured certification under ISO 14001, the global standard for environmental management systems, in January 1999.

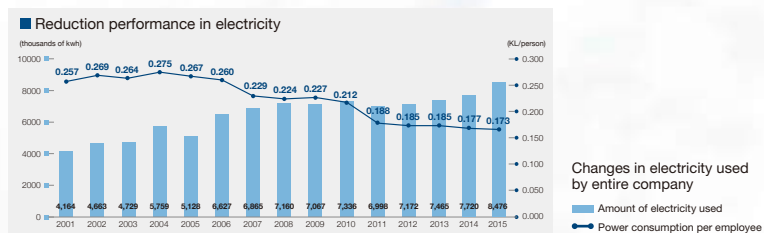
We have identified and endeavored to reduce the environmental impacts of all product processes, from design and development to manufacturing, sales and disposal, and service.

We will continue to lower the environmental impacts of all of our activities.

Our purification facilities completely clean water from our plants, releasing the water into lakes and rivers from ponds on our premises.

Our Environmental Policy

1. Continuously improve initiatives to prevent pollution and conserve energy and other resources
2. Comply with environmental laws, requirements and voluntary standards
3. Reduce environmental impacts in all processes
4. Safeguard nature around manufacturing sites
5. Ensure that internal stakeholders understand and embrace our Environmental Policy



The solar panels at our headquarters generate the equivalent of the electricity consumed by eight homes.



We installed special filtration machines to recycle 97% of coolant fluid.

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*Specifications are subject to change without notice.

*Please read the Operation Manual carefully before use, and file for future reference.

*This world catalogue is prepared to exhibit major products. The product is subject to the approval by the authority, and we suggest to check the product availability with your local distributor.