

Advanced Oral Care for Dentists and Hygienists

The outcomes of periodontal treatment are significantly improved when teeth are cleaned, polished, and calculus and biofilm are effectively removed below and along the gumline.

Knowing the importance of a confident, healthy smile, NSK is committed to supporting your clinical practice with a portfolio of high performance, quality products, such as ultrasonic scalers, air polishers and handpieces that meet professional standards and are backed with a quality guarantee.

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Varios Series

Be Smart.



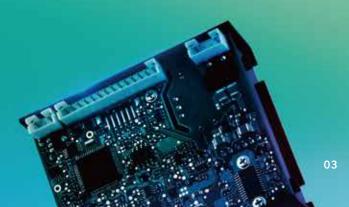


ičiezo eng

NSK Varios2 Lux







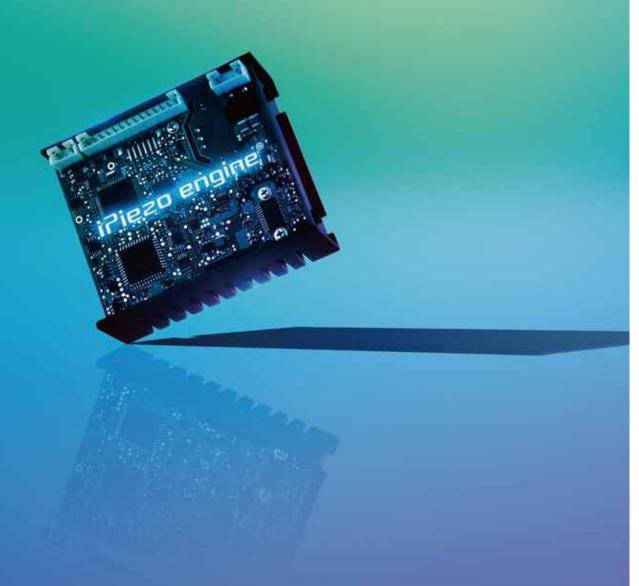
iPiezo engine®

The unique ultrasonic AI engine has an intelligent response to tooth surface conditions

We listened carefully to what clinicians had to say in the development of our next generation AI ultrasound engine.

The movements of the clinician are transmitted to the tip as though it is an extension of the hand.

This precise movement allows for treatment to be customized based on the tooth surface conditions, resulting in a faster and gentler experience for patients.





The NSK iPiezo engine is the Next Generation Ultrasonic AI 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

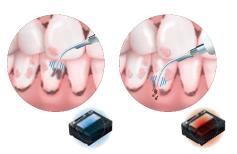
The NSK iPiezo engine supplies the appropriate power to the tip depending on the condition of the tooth surface. The iPiezo engine provides a stable frequency output without dropping the power, even when removing hard calculus.

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 calculus. 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, Powerful 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, light handpiece





reduces strain on the hands and fingers. With a wide spectrum of close to natural LED light illumination, the view is always bright with high recognition capability.

The Varios LUX handpiece can use autoclave sterilization and thermo-disinfection methods.





Varios 970 Multi-Function Ultrasonic Scaler

Smart, Compact, High-Performance Design

The Varios 970 is our most advanced model in our compact series, exceeding expectations in ultrasonic performance.

Our 2 bottle system allows users to focus on safe treatment without worrying about water irrigation.

Daily maintenance is simple with our auto rinse function and seamless body design. Our design process with intensive user feedback has allowed us to achieve high standards of 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. This intuitive layout reduces user errors. Power adjustment and function selection can be performed easily.



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 improved durability as it substantially reduces the corrosion and rust caused by the residuum of antiseptic solutions.







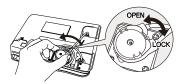
Auto Cleaning Mode

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.



Easy Replacement for Irrigation Pumps

Most components of the irrigation system can be replaced by yourself and most issues can be dealt with on site.

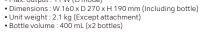


Varios 970 Optic Complete Set

•	VA970 LUX	Y1001166
Optic	MODEL	ORDER CODE

- Control unit Handpiece Handpiece cord 3 Scaling tips
 Foot control (FC-70) 2 x Irrigation bottles
 3 x Tip wrench with torque limiter AC power cord

- Specifications
- Power supply: AC 120 V 50/60 Hz
 Frequency: 28-32 kHz
 Max. output: 11 W (G mode)





Varios 370 Multi-Function Ultrasonic Scaler

High-Performance, Compact Design that is Easy-to-Use

The iPiezo engine in an ultra compact body. An ultrasonic device that can be installed anywhere. Stylish design blends harmoniously into treatment area. Unique features improve ease of use for operators that includes a highly visible instinctive operating panel.



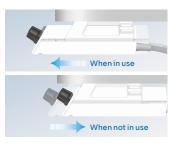
Intuitive and Simple Operating Panel

The power source has an ON/OFF function and can be set from 0 to 10 by simply turning the dial to adjust the output. The large irrigation volume adjustment dial allows for precise irrigation volume control. The panel is positioned at an angle for good visibility during operation.



The Control Unit Holder has a Wide Range of **Mounting Options.**

Optimal visibility can be obtained by sliding the unit back and forth when in use. The handpiece cord can be fixed in place in the holder so there is no obstruction during use.



Varios 370 Unit Installation Examples

On the dental console arm with stand (optional).





On/Under the dental bracket

table with Control Unit Holder



Varios 370 Complete Sets

	<u> </u>	
Optic	MODEL	ORDER CODE
•	VA370 LUX	Y1003740
	VA370	Y1003742

Contents

• Control unit with handpiece cord • Control unit holder • AC adaptor

• Handpiece • Handpiece holder • Water filter set • Water supply connector

• Foot control (FC-71) • 3 Scaling tips • Tip wrench with torque limiter

Specifications

• Power Supply: AC 100-240 V 50/60 Hz

• Frequency: 28-32 kHz

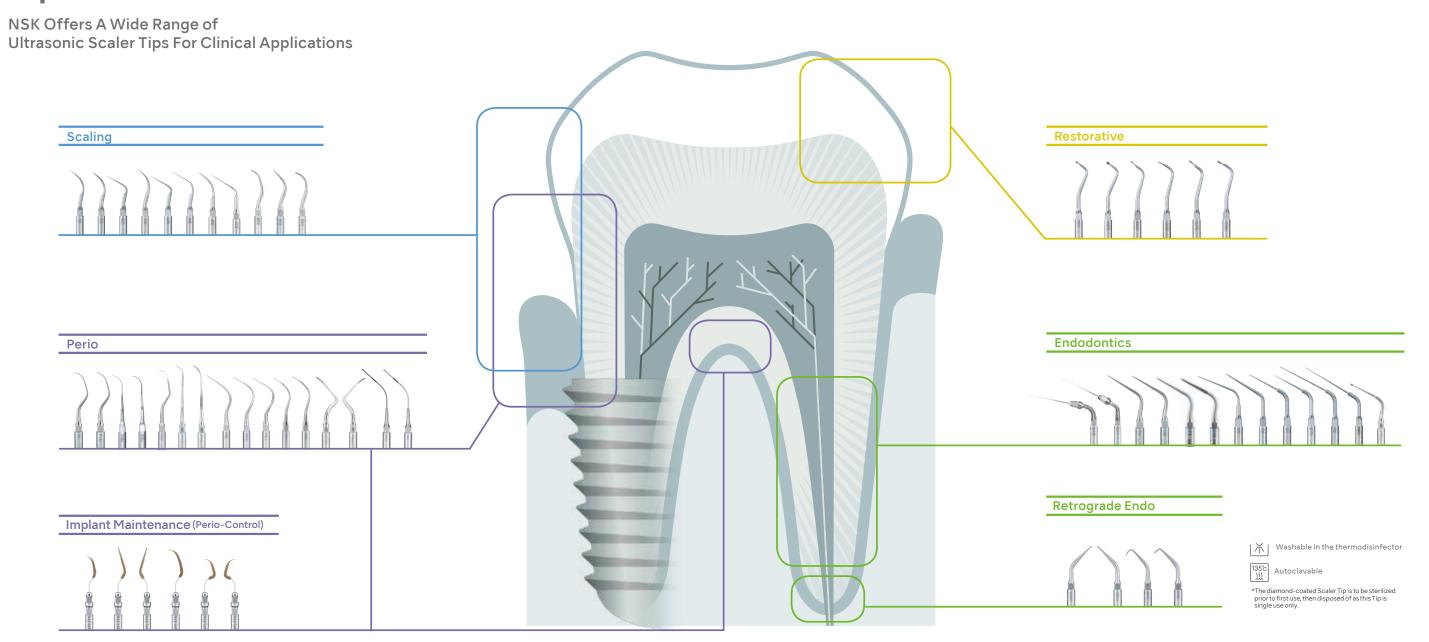
• Max. output: 11W (G mode)

• Dimensions: W 80 x D 115 x H 32 mm (without knob and cord)

• Unit weight: 0.43 kg (without attachment)



Tip Variations



Scaling / Perio tip cross section & characteristics of the tip types

Varios tips have distinct appearances, and also different cross-sections, component materials and surface finishes. The tip is selected by case and the state of the adhesive material. This helps an effective cleaning application without unwanted impact on the tooth surface or soft tissue.

Cros		Material / tip end	Results of scaling treatment			Cı	ross-section / tip	Material / tip end	Results of scaling treatment		For
	G1, G5, G6 G8, G9	Metallic mirror finish	0	Δ	Scaling at and below the gumline		P10 P11R/L, P26R/L	Metallic sharp edge	0	Δ	Scaling below the gumline
0	P1, P20 P21R/L, P25R/L	Metallic mirror finish	Δ	0	Stain removal at and below the gumline / maintenance	0	P40, P41	Metallic, lateral tip, two point water irrigation	×	0	Irrigation and Cleaning
0	P1D, P2D, P3D	Metal diamond machining	0	0	Scaling below the gumline (adjacent surface / bifurcation)		V-P10, V-P11R/L V-P12, V-P26R/L	Plastic	Δ	0	Prosthetic repair work Implants





Solution	For	At	Ву	With
Prophy-Mate neo Removal of stains & plaque Removal of biofilm	Natural tooth	Supragingival	10.60°	FLASH pear
Perio-Mate	Natural tooth Prosthetic tooth	Supragingival (Gingival margin)	30-60° 5-10 mm	Porio Mato
Removal of plaque	tooth			Perio Mate

Removal of plaque Removal of biofilm



Subgingival

Powder

Prophy-Mate neo Air Powered Tooth Polishing System

Prophy-Mate neo, the best polishing tool for beautiful, white teeth

NSK's unique twin nozzle has a powerful powder discharge that will deliver a powerful supragingival polish when used in conjunction with NSK FLASH pearl powder. The long and slim handpiece, paired with the small nozzle tip improves accessibility around

all tooth surfaces. Cleaning can be performed quickly, even in interproximal and difficult to reach areas. The grip is comfortable to hold and allows

for flexible operation.



Improved Polishing Power

NSK's original twin nozzles offer greater polishing power with its powerful jets that reduce cleaning time, allowing you to see more patients.











Easily Detachable Nozzles with 60° and 80°

Includes both 60 and 80 degree nozzles that customize your cleaning. The 60 degree nozzle is ideal for the molar area and the occluding surface and the 80 degree nozzle is ideal for anterior teeth.



Smooth and Easy 360° Swivel

Twin joints have a smooth 360 degree rotation for easy operability and flexibility, allowing the clinician to effortlessly adjust the nozzle angles.



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.



Coupling Lineup

	NSK	KaVo®	M4
MODEL	PMNG-PTL-P	PMNG-KV-P	PMNG-M4-P
ORDER CODE	Y135029	Y135030	Y135034
Coupling Types	NSK Couplings	KaVo® Coupling	Connect direct to the handpiece tubing MIDWEST

- 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 thermodisinfector



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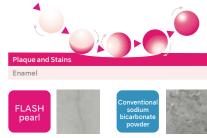
FLASH pearl Cleaning Powder

Effective Cleaning Results with Gentle Powder



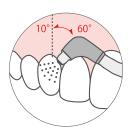
Sparkling Results Every Time

FLASH pearl, a cleaning powder for Prophy-Mate neo 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.



Fast Cleaning in Tight Spaces

The nozzle is held close to the tooth surface at an angle close to horizontal (10° to 60°) and maneuvered in an intricate motion as if the powder is moving across the tooth surface. The wide discharge angle and freer range of discharge motion allow for smooth operation and contribute to improved treatment efficiency. * Please do not apply directly to the gumline.



Zero Salinity, Gentle Ingredients with Low Impact on Patients

As the powder is composed of 94% calcium carbonate, it is not unpleasant for your patients and absent of any salt-like taste. There's no need to worry about patients on restricted salt diets.

Clogging is Also Minimized

The fine powder particles don't dissolve easily in water so clogging is reduced. Maintenance of equipment is easy as there is less powder build-up inside instruments.



FLASH pearl Cleaning Powder

MODEL	ORDER CODE
FLASH pearl (Bottle)	Y900698

^{• 4} bottles packed in a box

Comes with a measuring cup for your convenience
 Each bottle contains 300 gms

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Perio-Mate

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. 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.









Pro Powder Care, Above and Below the Gums

Efficient professional care that's kind to teeth. Perio-Mate can easily be attached to your existing coupler.

- O Perio-Mate can easily 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.

Powder flow volume adjustment

The Perio-Mate's convenient Powder Control Ring makes adjusting powder flow simple and intuitive with quick fingertip adjustments.



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 neighboring areas, and does not adversely affect neighbouring teeth and contours.



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.



Product maintenance

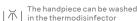
Handpiece, powder and nozzle are easy to disassemble. When instructions are followed, powder clogging is unlikely. All parts of the handpiece (other than the nozzle tip) can be repeatedly cleaned ultrasonically or sterilized in an autoclave.



Coupling Lineup

	NSK	KaVo®	M4
MODEL	PER-PTL-P	PER-KV-P	PER-M4-P
ORDER CODE	Y1002654	Y1002655	Y1002659
Coupling Types	NSK Coupling	KaVo* Multiflex*	Connect direct to the handpiece tubing MIDWEST

^{*}No light during use (when using optic coupling)







Supragingival

Removal of plaque biofilm from the gingival margin

(up to approximately 3 mm inside the pocket)

*Detach nozzle tip

Removal of plaque biofilm at interdental and gingival margin







Before

In use

- Easier to remove biofilm plaque and minor stains around supragingival and gingival margin.
- Removes plaque and biofilm from crowded areas, between teeth, and in pits and fissures that are difficult to reach with a rubber cup.
- Efficiently removes light stains.
- Cleaning around implant abutments and prosthetic restorations.
- Less of a burden to teeth and gums due to non-contact method.
- Less of a burden to prosthetic restorations.





Subgingival

Erasing biofilm in periodontal pockets from 3 - 5 mm below the gingival margin

Removal of biofilm in dental pocket







Before

In use

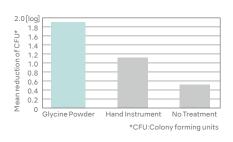
- The tip can remove deposits over a wide area without contact, making it possible to clean areas that are difficult for the tip to reach.
- Optimizes the flow of powder based on fluid analysis.
- Smooth powder injection ensures gentle treatment in the periodontal pocket.
- Cleans around implant abutments and prosthetic restorations.
- Flexible plastic nozzle tip design ensures accessibility and is gentle to the pocket.

Performance & Technology

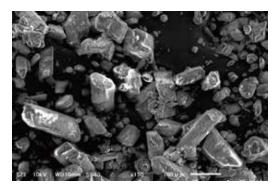
Reduction of bacteria

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

Petersilk a 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.

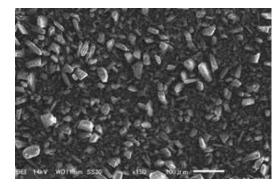


Powder particle comparisons The fine Perio Mate Powder is ideal for periodontal pocket treatment.



Conventional sodium bicarbonate powder

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



Perio Mate Powder (glycine)

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

Conventional sodium bicarbonate powder



Perio Mate Powder (glycine)

Perio Mate Powder

- This product can be applied supragingivally and subgingivally
- The principal ingredient is glycine, an amino acid present in proteins
- Water soluble to prevent subgingival retention
- Average powder particle diameter is 25 μm



MODEL ORDER CODE Perio Mate Powder Y900938

NSK's innovative nozzle tip

NSK's new nozzle tip design incorporates semitransparent materials that promote greater visibility during procedures. Hygienic single use tips mean enhanced usability and safety.



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.





Optimized using 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, minimizing soft-tissue damage and subgingival plaque, allowing biofilm to be removed efficiently. The powder (air) and water are released through separate circuits, and the powder (air) is designed not to hit the periodontal tissues.





Perio Mate Nozzle Tip

- Disposable
- Sterile
- Individually packaged



MODEL	ORDER CODE
Perio Mate Nozzle Tip	Y1002741

Contents



Contents
• Two bottles (160 g each)

iProphy mobile Hygiene Cordless Handpiece



Compatible with any standard disposable prophy angle*

Ability to customize patient treatment through use of different prophy angle types.

*Disposable prophy angles are not available form NSK. Any commercially available disposable prophy angle handpieces compatible to ANSI/ADA N.85-1:2004 can be used with the iProphy

Cordless, lightweight and well-balanced

Better access to reach the posterior and less wrist stress during the prophylaxis procedure.



2 ways to operate

By simply changing the attaching angle, you can hold the iProphy mobile in 2 different ways. It is possible to select the way of holding based on your preference.



Custom disposable sleeve

50 custom designed disposable sleeves are included

When choosing a handpiece sleeve, select one which is closest to the model listed below and works best for your particular use.

Handpiece Sleeves Example: 50 x 120 mm Syringe Cover / Syringe Sleeve



ORDER CODE

iProphy mobile Complete Set Y1004158

- iProphy mobile Motor iProphy mobile Stand AC adaptor Handpiece sleeve (50 pcs.)
- Specifications (Motor handpiece)
- Specifications (Motor handpiece)

 Speed: 500 2,500 rpm

 Rated Output: 3 W

 Dimensions: L 150 × W 25 × D 25 mm

 Weight: 90 g

 Charging time: Approx. 90 min



iProphy Air Prophylaxis Air Motor

The Future of The Dental Hygiene Handpiece

Our slim and easy-to-grasp design is up to 15% Slimmer and 10% shorter than competitive handpieces, reducing hand fatigue.

Patient comfort is enhanced with the iProphy Air's virtually silent operation.

Versatile

The iProphy Air will work with all standard doriot style disposable or metal angles, and connects directly to all 4-hole tubing.

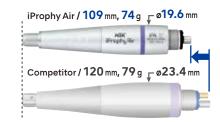
Nosecone Separates from Motor

The handpiece's unique two-part construction allows for just the nose cone potion and motor to be sterilized. Additional nosecones may be purchased separately (see Parts and Accessories section for item detail).



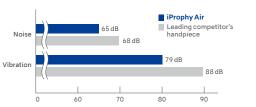
Slimmer, Shorter and Lighter

Sophisticated methods were used in the design of the iProphy Air handpiece. It is slim, short, and light, providing balance and less fatigue for the Hygienist.

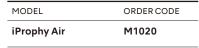


Smooth and Quiet

NSK's ultra-precision micro machining technology has been applied to all parts of the iProhpy Air. This reduces vibration and noise, resulting in improved comfort for both the patient and the Hygienist.









• Max Speed : 3,000 min⁻¹ • Midwest 4 hole

Contents
• iPA-HP • iPA • iProphy Air Color Ring Set (Pack of 4)

MODEL	ORDER CODE		
iPA-HP	M1020005		



Contra-Angles Prophylaxis Handpieces



Screw cup polishing

FX series



FX57	C1054002
MODEL	ORDERCODE

- 4:1 Reduction Max speed : 2,500 min⁻¹
 Screw-in cups and brushes 360° rotation



EX series



Heads	
MODEL	ORDER CODE
AR-Y(S)	C187

- Max speed: 5,000 min⁻¹
 For screw-in cups and brushes
 360° rotation

MODEL	ORDER CODE
AR-Y(K)	C188

- Max speed : 5,000 min⁻¹ For snap-on cups 360° rotation

ORDER CODE C100008

• 1:1 Direct Drive

EVA tip polishing

EX series



Head	
MODEL	ORDER CODE
EVA-Y	C235

Max speed: 10,000 min⁻¹ • Eva tips
 Vertical reciprocating (stroke length 1.4 mm)

C634
ORDER CODE

• 4:1 Reduction

Washable in the thermodisinfector (Except FX57, EC, ER4)



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Spare Parts

Varios 970 / 370





MODEL	PRODUCTS	ORDER CODE
E Tip Replacement	200	Z217399
Wrench	LĂJ[35°0 111
Tip Cover L		Z217850
	LĂI[35°C
Γip Cover S		Z217851
	述[35°c
Varios 350/370 Stand		Z254
Varios 350/370 Mounting Bracket		Z259

Prophy-Mate neo

MODEL	PRODUCTS	ORDER CODE
PMN-HP Handpiece with 60° nozzle head	. I	T797010
Name to 10°	M	## T707012
Nozzle 60°	Post	T797012
	淅	36°0 1111
Nozzle 80°	- In-	T797013
	[<u>米</u>][35°0 III

MODEL	PRODUCTS	ORDER CODE
O-ring neo Rear Nozzle	0	D0312029 070
Blower Nozzle-PTL neo		T798094

MODEL	PRODUCTS	ORDER CODE
Blower Nozzie-KV neo		T886094
Blower Nozzle-M4	4	T884094

PRODUCTS

Blower Nozzle-M4

ORDER CODE

T1052094

Perio-Mate

MODEL	PRODUCTS	ORDER CODE
PER-HP		T1043010
Nozzle	~ ∂•	T1043012
O-ring PER Rear Nozzle	0	D0312023 060

MODEL	PRODUCTS	ORDER CODE
Nozzle Tip Remover		T1043751
Blower Nozzle-PTL PER		T1042094
Blower Nozzle-KV		T1044094

Prophy-Mate neo / Perio-Mate

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Powder Case Cover		T798133	PTL O-ring Set (Pack of 5)	000000	Y900580
Gasket	\bigcirc	T798135	PM O-ring Set (Pack of 3)	000	Y900054
O-ring Front Nozzle	0	D0312039 070	Lubrication Oil	-	Z016112
Ring Wrench	0	T797601	Cleaning Wire (L)	_	T798091

MODEL	PRODUCTS	ORDER CODE
Cleaning Wire (S)	_	T798095
Cleaning File		T798092
Cleaning Brush		T798093

iProphy mobile

HODEL	FRODUCTS	OKDEKCODE
iProphy mobile Motor		E1080
HANDPIECE SLEEVE (500 PCS.)		E1080056

MODEL	PRODUCTS	ORDER CODE	MODEL	
iProphy mobile Stand	00	U1091003	AC ADAPTOR	1

PRODUCTS	ORDERCOD
	Y100287

iProphy Air

MODEL	PRODUCTS	ORDER CODE
iPA-HP	SE	M1020005
		136°c 111

MODEL	PRODUCTS	ORDER CODE
iPA		M1020006
	- 5 - 27 - 1 - 5 - 10 - 10 - 10 - 10 - 10 - 10 -	
	1	35°c

MODEL	PRODUCTS	ORDERCODE
iProphy Air		Y1002594
Color Ring Set (Pack of 4)	$\circ \circ$	

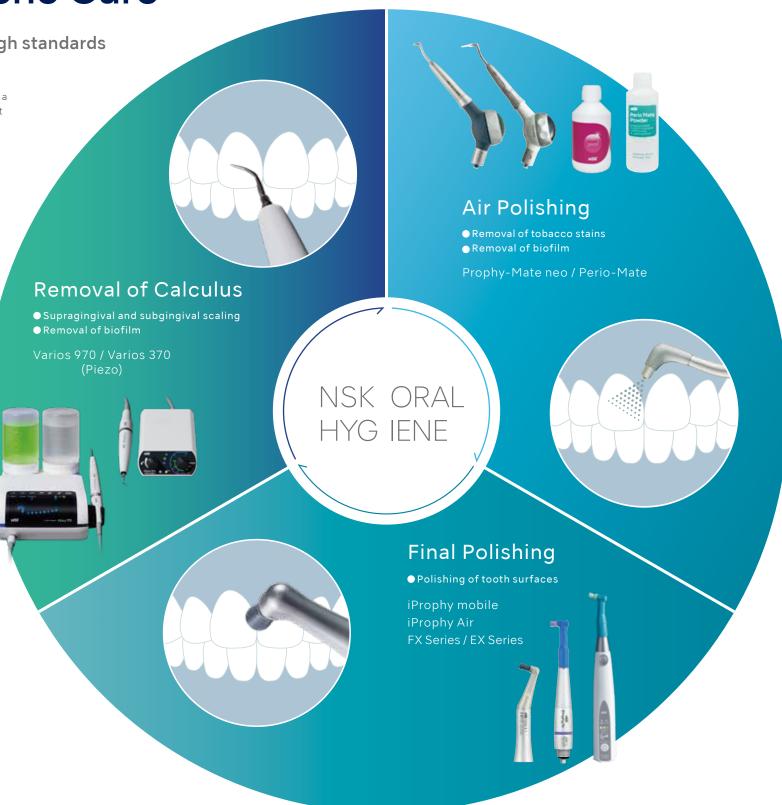
Washable in the thermodisinfector



Professional Hygiene Care

The Equipment you select will set the high standards of professional care for your practice.

Selecting the right equipment is essential for optimal patient care. As a professional, you are responsible for the prevention and improvement of periodontal disease, as well as creating a confident smile for your patient. In order to achieve these goals, you practice subgingival scaling, remove pathogenic bacteria and biofilm, and help prevent dental caries through halting the re-adhesion of plaque. In addition, you want your patient to be their best self through a confident, brilliant smile, so you also remove stains of nicotine, tar, wine, coffee, etc. It is important to select quality equipment to provide optimal treatment outcomes and operational efficiency for your practice.



 $KaVo^{\$} \ and \ MULTIflex^{\$} \ LUX \ are registered \ trademarks \ of \ Kaltenbach \& \ Voigt \ GmbH \& \ Co.$ $MIDWEST^{\$} \ is \ a \ registered \ trademark \ of \ DENTSPLY \ Sirona.$

1anufacturer

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 $Specifications\,are\,subject\,to\,change\,without\,notice.$

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