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RESTORATIVE & PROSTHETICS

HANDPIECE CATALOG

Air driven / Electric / Slow speeds

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Ti-Max Z Air Driven Series

POWERFUL 26W*, STEADY & DURABLE

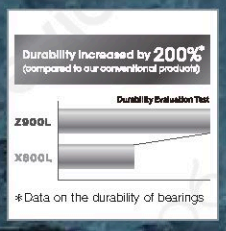
Ti-Max Z Air Driven series feature the essential elements expected of high-performance handpieces at even a higher standard. Based on the philosophy of consistently delivering products that exceed all expectations, the new handpieces, supported by non-compromising NSK product design and ultra-high precision processing technology, provide a new level of comfort to both clinicians and patients like never before. With one of the most powerful turbines every designed producing 26W of power, our technological innovation will transform the dental practice.

*Only Z900L



High Power 26W

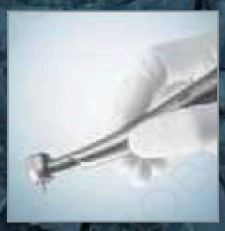
A new specially-shaped rotor delivers 26W of high power and reduces treatment time.



*Data on the durability of bearings

Excellent Durability

Newly developed bearings dramatically increase stability and durability and reduce running costs.



Easier Access

An even smaller head and optimal head angle combined with even slimmer neck dimensions improve operational visibility and access to oral regions.



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.

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Ti·Max Z

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

Connect to NSK Couplers  LED



Quattro Spray

26W of Pure Power
Just Raised the Bar Again



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

Miniature Head : Power : 23 W, Speed : 360,000~440,000 min⁻¹
Head Size : ø10.8 x H12.1 mm



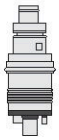
Optic MODEL: **Z900L** ORDER CODE: **P1111**

Standard Head : Power : 26 W, Speed : 320,000~400,000 min⁻¹
Head Size : ø12.5 x H13.1 mm

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Coupler Options

		NSK	KaVo®	W&H®	W&H®	MIDWEST®	StarDental®
Miniature Head	MODEL	**Z800L**	**Z800KL**	**Z800WL***	**Z800WHL**	**Z800MWL**	**Z800STL**
	ORDER CODE	**P1110**	**P1112**	**P1120**	**P1118**	**P1130**	**P1213**
Standard Head	MODEL	**Z900L**	**Z900KL**	**Z900WL***	**Z900WHL**	**Z900MWL**	**Z900STL**
	ORDER CODE	**P1111**	**P1113**	**P1121**	**P1119**	**P1131**	**P1214**
COUPLER		 NSK Couplers (PTL type) LED	 KaVo® LED Coupler LED	 W&H® Roto Quick (RQ Type)	 W&H® Roto Quick (RA Type)	 MIDWEST®	 StarDental®

* Compatible Air driven with Integral LED

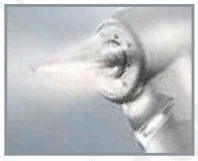
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Ti-Max X

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

Connect to NSK Couplers  LED


Quattro Spray

The Satisfaction of Owning a Lighter Weight and Better-Balanced Handpiece



Optic MODEL: **X500L** ORDER CODE: **P495**

Miniature Head : Power : 17 W, Speed : 390,000~450,000 min^{-1}
Head Size : ø10.3 x H11.7 mm
• For short shank burs only



Optic MODEL: **X600L** ORDER CODE: **P496**

Standard Head : Power : 21 W, Speed : 380,000~440,000 min^{-1}
Head Size : ø 11.2 x H13.6 mm

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Coupler Options

		NSK	KaVo®	W&H®	W&H®
Miniature Head	MODEL	**X500L**	**X500KL**	—	—
	ORDER CODE	**P495**	**P857**	—	—
Standard Head	MODEL	**X600L**	**X600KL**	**X600WLED***	**X600WHL**
	ORDER CODE	**P496**	**P858**	**P1101**	**P1094**
COUPLER		 NSK Couplers (PTL type) LED	 KaVo® LED Coupler LED	 W&H® Roto Quick (RQ Type)	 W&H® Roto Quick (RA Type)

* Compatible Air driven with Integral LED

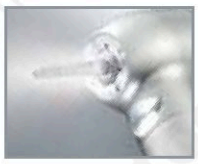
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S-Max M

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

Connect to NSK Couplers  LED


Quattro Spray

Slim Ergonomic Design and Unrivalled Cutting Performance



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 H12.4 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 H13.3 mm

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Coupler Options

		NSK (Optic)	NSK (Non-Optic)	KaVo® (Optic)	KaVo® (Non-Optic)
Miniature Head	MODEL	**M500L**	**M500**	**M500KL**	**M500K**
	ORDER CODE	**P1001**	**P1003**	**P1005**	**P1007**
Standard Head	MODEL	**M600L**	**M600**	**M600KL**	**M600K**
	ORDER CODE	**P1002**	**P1004**	**P1006**	**P1008**
COUPLER		 NSK Couplers (PTL type) LED		 KaVo® LED Coupler LED	

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S-Max pico

• Stainless Steel Body • ISB • Cellular Glass Optics • Ceramic Bearings
• Clean Head System • Single Spray

Connect to NSK Couplers  LED


Single Spray

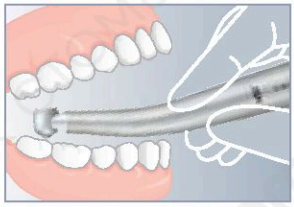
The innovative air driven with an ultra mini head and super slim body

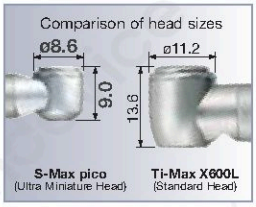


Optic MODEL: **S-Max pico** ORDER CODE: **P1140**

Power : 9 W, Speed : 380,000~450,000 min⁻¹, Head Size : ø8.6 x H9.0 mm
• For short shank burs / ultra short shank burs

Size specifications of the S-Max pico series

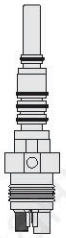




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Coupler Options

	NSK	KaVo®	W&H®	W&H®	MIDWEST®	StarDental®
MODEL	**S-Max pico**	**S-Max pico KL**	**S-Max pico WLED***	**S-Max pico WHL**	**S-Max pico MWL**	**S-Max pico STL**
ORDER CODE	**P1140**	**P1142**	**P1145**	**P1178**	**P1179**	**P1180**
COUPLER	 NSK Couplers (PTL type) LED	 KaVo® LED Coupler LED	 W&H® Roto Quick (RQ Type)	 W&H® Roto Quick (RA Type)	 MIDWEST®	 StarDental®

* Compatible Air driven with Integral LED

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Ti-Max X450

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



Triple Water Jet

Connect to NSK Couplers  LED

Unique 45-degree angled head provides incredible accessibility



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

Power : 21 W, Speed : 380,000~450,000 min⁻¹, Head Size : ø11.2 x H13.5 mm
• For FG extra-long burs (25mm) only



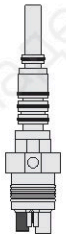
Superior Accessibility

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

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Coupler Options

	NSK (Optic)	NSK (Non-Optic)	KaVo®	W&H®	W&H®	MIDWEST®	StarDental®	Fixed-back (Optic)	Fixed-back (Non-Optic)
MODEL	**X450L**	**X450**	**X450KL**	**X450WLED***	**X450WHL**	**X450MWL**	**X450STL**	**X450 5H**	**X450M4**
ORDER CODE	**P1078**	**P1088**	**P1079**	**P1082**	**P1089**	**P1090**	**P1091**	**P1093**	**P1092**
COUPLER	 NSK Couplers (PTL type) LED		 KaVo® LED Coupler LED	 W&H® Roto Quick (RQ Type)	 W&H® Roto Quick (RA Type)	 MIDWEST®	 StarDental®	 Midwest 5 hole	 Midwest 4 hole

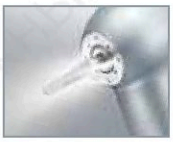
* Compatible Air driven with Integral LED

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Pana-Max PLUS

• 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 H12.4 mm
• Midwest 4 hole



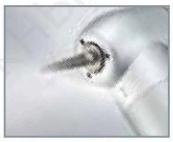
Non-Optic MODEL: **PAP-SU M4** ORDER CODE: **P1022**

Standard Head : Speed : 340,000~410,000 min⁻¹, Head Size : ø12.1 x H13.3 mm
• Midwest 4 hole

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PANA-MAX

• Stainless Steel Body • Ceramic Bearings • Clean Head System • Push Button Chuck • Single Spray



Single Spray



Non-Optic MODEL: **PAX-SU M4** ORDER CODE: **P560**

Standard Head : Speed : 400,000~450,000 min¹, Head Size : ø10.3 x H13.5 mm
• Midwest 4 hole

PHATELUS LIGHT PACK

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

Phatelus Optic Complete Set

MODEL: **PTL Optic Pack** ORDER CODE: **Y103722**

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



Individual Components



MODEL: **PTL Control Module** ORDER CODE: **U360011**
• Dimension : W50 x L90 x H26 (mm) • Weight : 120 g



MODEL: **PTL Adaptor** ORDER CODE: **U360033**



MODEL: **PTL-4HP** ORDER CODE: **P421**
• Optic Hose • Lux Coupler

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NSK Couplers

• Stainless Steel Body • Titanium coating • Non-Retraction Valve



Optic MODEL: **PTL-CL-LED** ORDER CODE: **P1001600**

• For NSK • LED incorporated in coupler

LUX Coupler



Optic MODEL: **PTL-CL-LEDIII** ORDER CODE: **P1001601**

• For NSK with water volume adjuster
• LED incorporated in coupler

LUX Coupler



Optic MODEL: **KCL-LED** ORDER CODE: **P1005600**

• For KaVo® MULTIflex® LUX with water volume adjuster
• LED incorporated in coupler

LUX Coupler



Optic MODEL: **PTL-CL-4HV-T** ORDER CODE: **P401081**

• Light bulb included in coupler

LUX Coupler



Optic MODEL: **PTL-CL-FV-T** ORDER CODE: **P380081**

• Light bulb included in coupler

Midwest 5 hole



Non-Optic MODEL: **FM-CL-M4-T** ORDER CODE: **P434081**

Midwest 4 hole

Couplers for KaVo® MULTIflex® LUX

• Stainless Steel Body • With water volume adjuster



Optic MODEL: **KCL-6** ORDER CODE: **P442051**

• Light bulb included in coupler

LUX Coupler



Optic MODEL: **KCL-5** ORDER CODE: **P443051**

Midwest 5 hole

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NSK air driven coupler options by series

		NSK (Optic)	NSK (Non-Optic)	KaVo® (Optic)	KaVo® (Non-Optic)	W&H®	W&H®	MIDWEST®	StarDental®
General series	Ti-Max Z	●	—	●	—	●	●	●	●
	Ti-Max X	●	—	●	—	● X600WLED only	● X600WHL only	—	—
	S-Max M	●	●	●	●	—	—	—	—
Speciality series	S-Max pico	●	—	●	—	●	●	●	●
	Ti-Max X450	●	●	●	—	●	●	●	●
	COUPLER TYPE	 NSK Couplers (PTL type) LED		 KaVo® LED Coupler LED		 W&H® Roto Quick (RQ Type)	 W&H® Roto Quick (RA Type)	 MIDWEST®	 StarDental®

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NLX nano LED

A New Generation of Electric motor as well balanced as an air driven



Perfect Balance

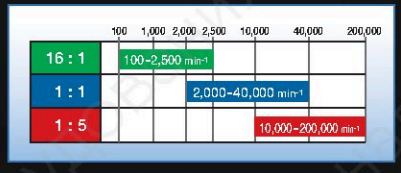
The balance of the electric motor and handpiece combined has been dramatically improved as the weight and size of NLX nano has been reduced drastically.

The overall length of instrument and NLX nano electric motor are almost the same as the length of air driven and couplers, thus enabling practitioners to use electric attachments and the NLX nano electric motor just like they use air driven handpieces.



Wider clinical applications

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



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NLX nano Optic Internal Water Spray

Electric motor Portable System BRUSHLESS

Speed : 2,000 – 40,000 min^{-1}, Torque : 3.4 Ncm



MODEL: **NLX nano S120** ORDER CODE: **Y1001361**

MODEL: **NLX nano S120E** ORDER CODE: **Y1002732**

Contents
- Control unit • Electric motor
- Electric motor cord • AC Adaptor

Specifications

Control unit
- Rated Input : AC 28V 50/60 Hz
- Dimensions : W127 x D149 x H54 (mm)
- Weight : 517 g

Electric motor (Electric motor only)
- Dimensions : ø22 × L70 (mm)
- Weight : 61 g

Ti-Max NL400 Optic Internal Water Spray

Electric motor Portable System BRUSHLESS

Speed : 2,000 – 40,000 min^{-1}, Torque : 3.4 Ncm



MODEL: **NL400S120** ORDER CODE: **Y141129**

Contents
- Control unit • Electric motor
- Electric motor cord • AC Adaptor

Specifications

Control unit
- Rated Input : AC 28V 50/60 Hz
- Dimensions : W127 x D149 x H54 (mm)
- Weight : 517 g

Electric motor (Electric motor only)
- Dimensions : ø22.5 × L81 (mm)
- Weight : 76 g

Mounting Accessories

MODEL: **Swing Mount Bracket**
ORDER CODE: **Z249**

MODEL: **Undercounter Mount Bracket**
ORDER CODE: **Z1141101**

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Ti-Max Z

Electric Attachment Series

SMALLEST

HEAD & SLIMMEST NECK

The Ti-Max Z Series handpieces feature the smallest head and slimmest neck dimensions in the global market, providing a standard of operational visibility like never before. Accessing otherwise difficult oral regions is made significantly easier by the ergonomic design.





Easier Access

The Z95L head and body shape improve access to the molar region.



Outstanding Durability

Z95L exceeds all expectations for reliability and durability. The Z95L gears 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 gear to dramatically increase durability.



Anti Heat System

NSK's unique head cap design helps to limit heat generation and to disperse heat generation during treatment. NSK is always putting patient's safety first.

(Z95L / Z85L)

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• Titanium Body with Scratch Resistant DURACOAT • Cellular Glass Optics
• Ceramic Bearings (Z95L / Z85L) • Clean Head System • Push Button Chuck
• Microfilter • Anti Heat System (Z95L / Z85L) • DLC Coating (Z95L / Z85L)

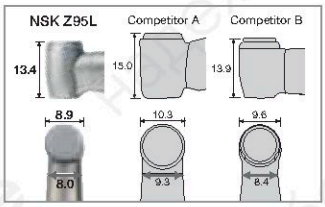


Quattro Spray



Optic MODEL: **Z95L** ORDER CODE: **C1034**

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



Smaller and Slimmer

Z95L has the smaller head and slimmer neck dimensions.



Single Spray



Optic MODEL: **Z85L** ORDER CODE: **C1062**

1:5 Increasing • Single Spray • Miniature Head
• For FG burs (ø1.6)* • Max Speed: 200,000 min⁻¹
*For short shank burs only



Head size comparison

Z85L 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

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Ti-Max Z45L

THE WORLD'S FIRST 45°

Ti-Max Z45L provides effortless access to hard-to-reach molars that a standard electric attachment handpiece simply cannot match. The slim 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 electric attachment handpiece, dramatically reducing stress for both clinicians and patients. In addition, Ti-Max Z45L boasts the world's first two-way spray function, making it suitable for a wide range of procedures, such as third-molar preparation and clarifications of the root canal orifice.





Superior Accessibility

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





Two-Way Spray Function

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

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



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

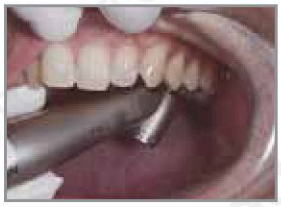
1:4.2 Increasing • For FG burs (ø1.6)
• Max Speed: 168,000 min⁻¹

Superior Accessibility Enables a Vast Variety of Clinical Applications



Sectioning a Mandibular Left Impacted Third Molar

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



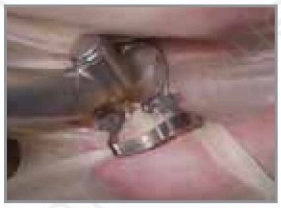
Caries Removal from a Maxillary Left Second Premolar on Palatal Side

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



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

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



Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar

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

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Ti-Max X

• Titanium Body with Scratch Resistant DURACOAT • Cellular Glass Optics • Clean Head System (Excludes X35L)
• Push Button Chuck (Excludes X65L) • Microfilter (Excludes X65L)



Quattro Spray



Optic MODEL: **X95L** ORDER CODE: **C600**

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



Single Spray



Optic MODEL: **X85L** ORDER CODE: **C604**

1:5 Increasing • Single Spray • Miniature Head
• For FG burs (ø1.6)* • Ceramic Bearings
• Max Speed: 200,000 min⁻¹
*For short shank burs only



Single Spray



Optic MODEL: **X25L** ORDER CODE: **C601**

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

Straight Handpiece



Optic MODEL: **X65L** ORDER CODE: **H273**

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

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Optic MODEL: **X20L** ORDER CODE: **C605**

1:1 Direct Drive • Single Spray • For FG burs (ø1.6)
• Max Speed: 40,000 min-1



Optic MODEL: **X15L** ORDER CODE: **C602**

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



Optic MODEL: **X10L** ORDER CODE: **C603**

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



Optic MODEL: **X35L** ORDER CODE: **C620**

10:1 Reduction • Single Spray • For Hand File & Engine File
• 60° Twist • Max Speed: 4,000 min-1

MODEL: **QF Adaptor** ORDER CODE: **C877701**

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S·Max M

- Stainless Steel Body • Cellular Glass Optics • Clean Head System
- Push Button Chuck (Excludes 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 • 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

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

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FX series

• Slow Speed • Aluminium Body • Clean Head System (Excludes FX57)

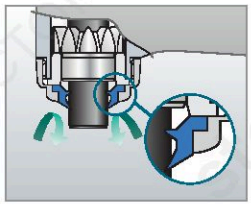


Easy Cartridge Replacable



Non-Optic MODEL: **FX25** ORDER CODE: **C1052002**

1:1 Direct Drive • For CA burs (ø2.35) • Push Button Chuck
• Ball Bearing • Max Speed: 40,000 min⁻¹



Paste Defense System



Non-Optic MODEL: **FX57** ORDER CODE: **C1054002**

4:1 Reduction • For screw-in cups and brushes • 360° Rotation
• Paste Defense System • w/o Spray
• Max Speed: 5,000 min⁻¹

Straight Handpiece



Non-Optic MODEL: **FX65** ORDER CODE: **H1014002**

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

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EX Series Heads & Handpieces

External Water Spray

Heads for General Application

Non-Optic



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 1.4mm)
- 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

■Handpieces and heads are sold separately. You can combine handpieces and heads according to your preference and speed required for the indication.

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Handpieces



MODEL: **EC** ORDER CODE: **C100008**
MODEL: **ECM** ORDER CODE: **C100007**

- 1:1 Direct Drive



MODEL: **ER4** ORDER CODE: **C634**

- 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

Straight Handpiece



Non-Optic MODEL: **EX-5B** ORDER CODE: **H262**

4:1 Reduction • For HP burs (ø2.35) • Clean Head System
• Max Speed: 10,000 min⁻¹



MODEL: **Spray Nozzle** ORDER CODE: **H019711**

- For EX-5B (Optional)

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NSK Air Motors

External Water Spray



Non-Optic MODEL: **FX205 M4** ORDER CODE: **M1005002**

- Midwest 4 hole
- Max. 25,000 min-1
- Non-Retraction Valve

No Water Spray



Non-Optic MODEL: **FX204 M4** ORDER CODE: **M1003002**

- Midwest 4 hole
- Max. 25,000 min-1

Internal Water Spray





Optic MODEL: **Ti205L** ORDER CODE: **M190**

- LUX Coupler
- Max. 20,000 min-1
- Non-Retraction Valve

Internal Water Spray



Non-Optic MODEL: **IS-205 M4** ORDER CODE: **M156**

- Midwest 4 hole
- Max. 20,000 min-1
- Non-Retraction Valve

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iProphy Air Prophylaxis Air Motor

The Future of the Dental Hygiene Handpiece





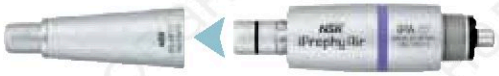
Non-Optic MODEL: **iProphy Air** ORDER CODE: **M1020**

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

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

Nosecone separates from motor

The handpiece's unique two-part construction allows for just the nosecone portion to be sterilized for proper disinfection and compliance. Additional nosecones may be purchased separately (see Parts and Accessories section for item detail).



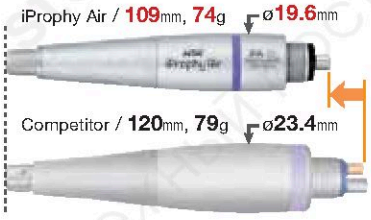
Smooth and Quiet

NSK ultra-precision micro machining technology has been applied to all parts of iProphy Air that remarkably reduce vibration & noise to the lowest level resulting in improved comfort for patients and the Dental Hygienist.



Slim, Shorter and Lighter

The iProphy Air handpiece is designed using NSK's ergonomic method. This slim, short and light handpiece provides good balance and less fatigue for the Dental Hygienist.



Air Motors

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iCare

Automatically Cleans & Lubricates

iCare sets a new standard for handpiece maintenance system.
The maintenance of the handpiece can be implemented with the simple touch of buttons because an appropriate cleaning program according to each type, including the volume of lubrication oil to be injected, has been installed.
The newly adopted chuck-cleaning function allows dentists to effectively remove dirt and abrasive powder from the inside of the chuck to prevent chuck-related problems.
This maintains the optimal condition of handpieces and greatly extends their operating life.
The optimization of the volume of lubrication reduces the running cost.
Improved functionality and enhanced cleaning and oil lubrication provide better daily maintenance.
The solution for handpiece care is iCare.

Advantages

- Preset oil volume based on handpiece type
- Consistent cleaning and lubrication with simple operation
- Chuck cleaning function ensures that the chuck is thoroughly cleaned and lubricated
- Low oil cost per handpiece provides a lower lifetime operating cost
- Stylish & compact body that can be installed with limited space

Cleaning And Lubrication Simplified

Enhanced cleaning ability facilitates the complete removal of dirt and foreign substances from internal parts and between the teeth of the gears in the handpiece.
Automated cleaning and lubrication of handpieces is performed with the simple touch of buttons. Simple operation is achieved by preset oil volumes for Air driven, Electric & slow speed handpieces.



Multiple Air Purge Settings

Purge cycle time can be adjusted to 3 different pre-set selections according to user preference and usage.*
*Typical setting is M



Chuck Cleaning Function

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



Large Oil Tank

Since iCare is equipped with a large tank (1.2 L capacity), making refilling the tank one easy step and eliminates the possibility of spills and need to store excess oil.



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iCare Complete Sets

Dual Standard Connectors + Dual Rotation Connectors
MODEL: **iCare C2 Type** ORDER CODE: **Y1002796**

Single Standard Connector + Triple Rotation Connectors
MODEL: **iCare C3 Type** ORDER CODE: **Y1002797**



Contents

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

Specifications

• Power Supply	: AC 100-240V 50/60Hz
• Air Pressure	: 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
• Weight	: 6.5 kg (C2 type / C3 type)
• Dimension	: W280 x D240 x H350 (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 scalers and Phatelus air motors. The iCare lubricating system is not designed to lubricate those particular products. Maintain air scalers and Phatelus air motors as described in the operation manual for each product.
- If blood infiltrates inside a handpiece, iCare may not totally 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 Air driven Handpieces for NSK Phatelus / Mach Coupler
MODEL: **KV Adaptor**	ORDER CODE: **Z257020**	• For KaVo® Air driven Handpieces for MULTIflex® LUX Coupler
MODEL: **SR Adaptor**	ORDER CODE: **Z257023**	• For Sirona® Air driven Handpieces for Quick Coupler
MODEL: **WH Adaptor**	ORDER CODE: **Z257021**	• For W&H® Air driven Handpieces for Roto Quick Coupler (RQ Type)
MODEL: **WHL Adaptor**	ORDER CODE: **Z280053**	• For W&H® Air driven Handpieces for Roto Quick Coupler (RA Type)
MODEL: **BA Adaptor**	ORDER CODE: **Z280022**	• For Bien-Air® Air driven Handpieces for Unifix® Coupler
MODEL: **MWL Adaptor**	ORDER CODE: **Z280052**	• For MIDWEST® Air driven Handpieces for 5-Hole Coupler
MODEL: **STL Adaptor**	ORDER CODE: **Z280051**	• For StarDental® Air driven Handpieces for HiFlo® Fiber-Optic Swivel (4-Hole F.O.) Coupler

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

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: **Z182600**

• For Air driven, Electric & slow speed handpieces and air motors
• 10.5 oz • Alcohol-contained lubricant

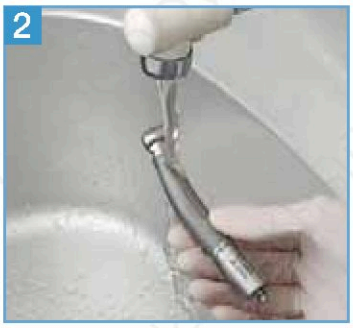
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Maintenance guide

Air driven, Electric & slow speed Handpieces













1. PREPARATION

Electric & slow speed : Remove the handpiece from the electric motor and detach the bur from the chuck.

Air driven : Remove the handpiece from the coupler and detach the bur from the chuck. Bring instruments to a dedicated decontamination area. Remove organic contaminants with a paper wipe.

2. CLEANING

Manual : Clean the external surface of handpiece with running water (<38°C, demineralised water recommended).

Automated NSK handpieces with this symbol are thermo-disinfector-ready and therefore may be washed and disinfected using a thermo-disinfector. When using a thermo-disinfector, be sure to follow its manufacturer's instructions.

3. CHUCK CLEANING

• Complete this step weekly

Lubricate the chuck directly through the bur insertion hole to remove dirt and cutting powder from the chuck.

Manual : Using NSK PANA SPRAY Plus, Mount the arrow-head spray nozzle tip into the spray can port and spray for 2 seconds.

Automated : Using NSK iCare, follow the system instructions.

4. LUBRICATION

• Essential after thermo-disinfection • Essential prior to sterilization process

Manual : Lubricate handpiece using NSK PANA SPRAY Plus. To prevent mist spray from escaping into the environment, use absorbent cloth. Purge excess lubricant from handpiece with air.

Automated : Clean and lubricate handpieces with NSK iCare. Be sure to use the right adaptor for each handpiece.

5. STERILIZATION

Place handpieces in a sterilization pouch and seal them. EN13060 4.6.3 recommends autoclaving for 20 minutes (minimum holding time) at 121°C or 15 minutes (minimum holding time) at 132°C. NSK recommends Class B or S sterilization. (All NSK handpieces are autoclavable up to 135°C)

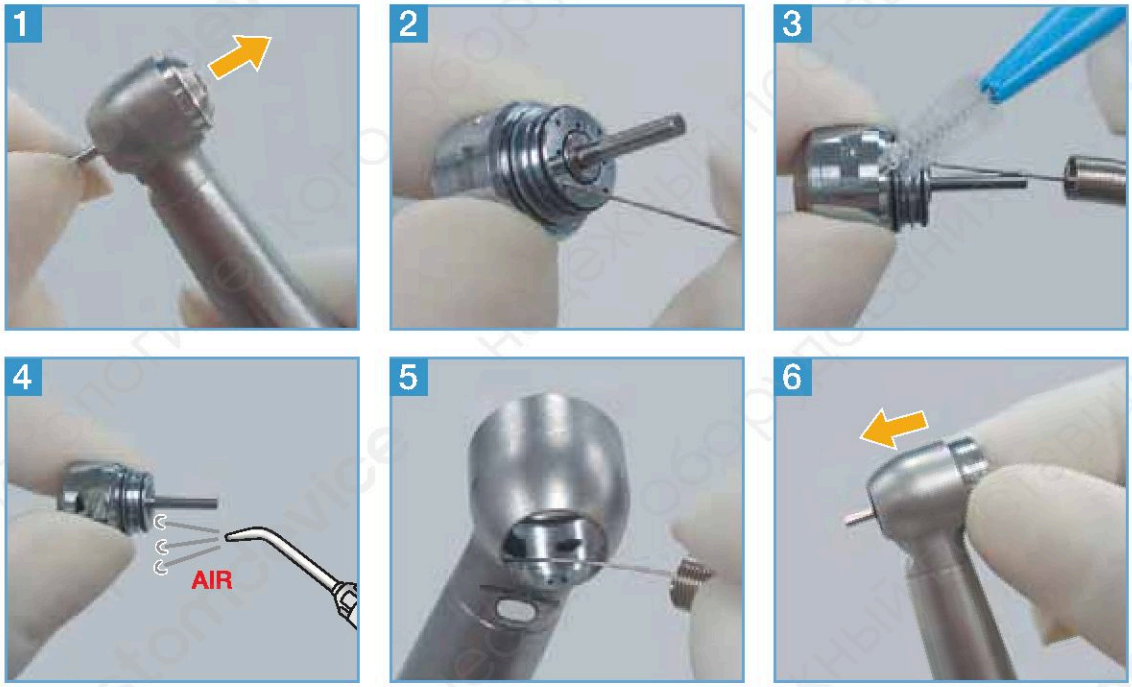
6. STORAGE

After the sterilization cycle, immediately remove handpieces from the autoclave. Keep them in dust-free, sterilized storage or bring them to a treatment room for use.

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Cleaning of Cartridge & Handpiece Body of Air driven



1. Remove head cap and take out cartridge.
2. Take out cleaning pin at the rear end of the brush, and insert it straight into the water spray nozzle.
   The water hole may be damaged if the pin is not inserted straight or forced into the hole. The damage may cause water not being sprayed at right angles. Use attached NSK Nozzle Cleaning Pin. Using a cleaning pin from another manufacturer other than NSK may cause improper direction of water spray.
3. Make sure the pin reaches the upper chase (chip air chase) and then clean debris there by using cleaning brush.
4. Blow air from the bur side by using syringe.
5. Insert the needle for cleaning nozzle into spray hole from the head side. Remove adhesion of dirt inward.
   Attach the handpiece to the coupler, run the handpiece idly with water.
6. When placing the cartridge back in the head, be sure that O-ring is set properly in place.

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Spare Parts

Ti-Max Z

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

Ti-Max X

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

Ti-Max X450

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

S-Max M

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

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

Couplers

Non-Retraction Valve		P401054

Pana-Max PLUS

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-MAX

PAX-SU03 Cartridge for standard head, includes O-ring & wave washer		Y900772

PAX-SU04 Head cap for standard head		P074050

PAX-SU05 Head cap wrench for standard head		P074765

FX Series

FX25-03 Cartridge for FX25		C1052700
FX25-04 Head cap for FX25		C1052500

FX Spray nozzle for FX25		C1052702
Spray Nozzle for FX85		H019711

FX Wrench for FX25		C1052701
Tube (RSM)		Z166101

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