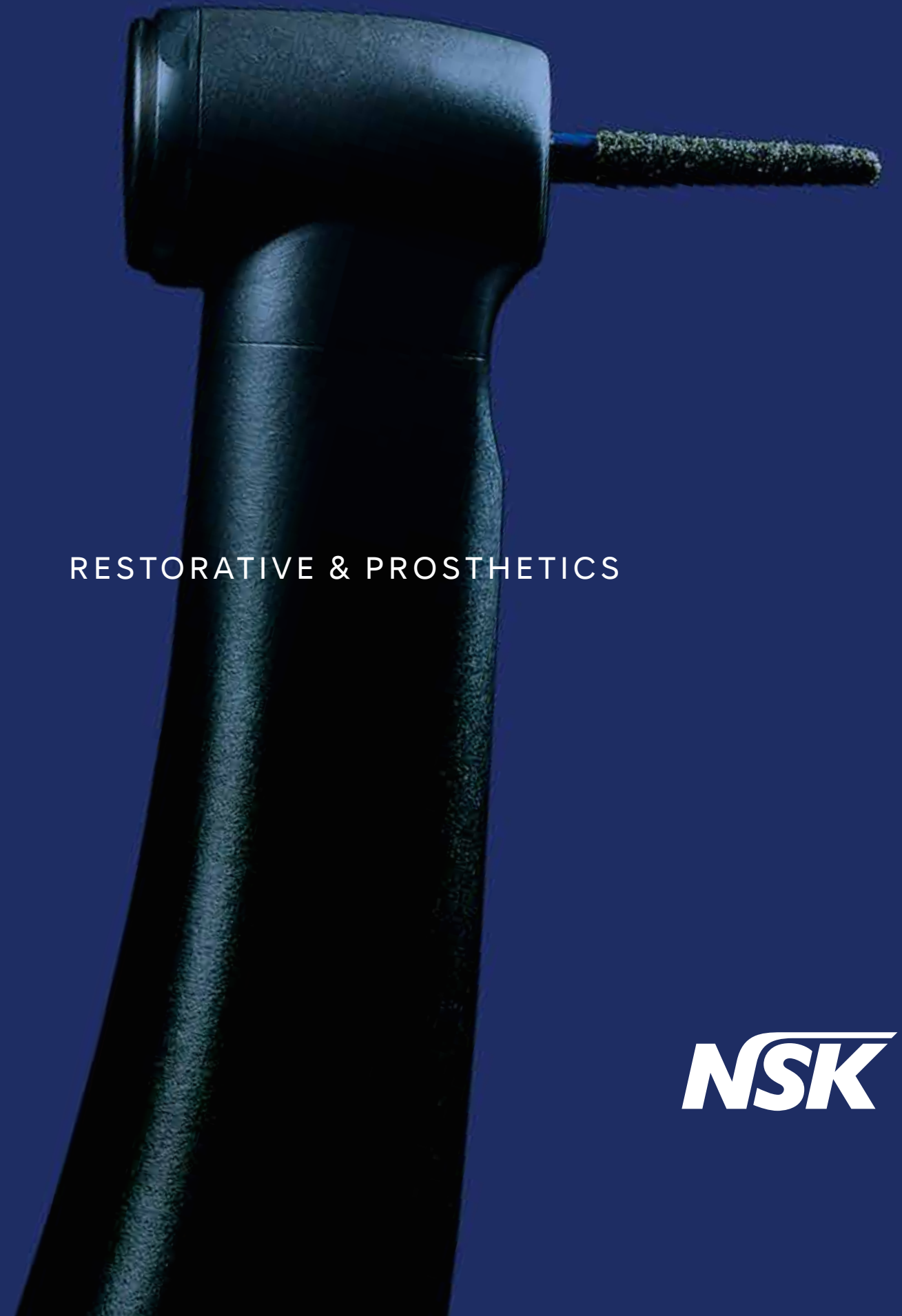


RESTORATIVE & PROSTHETICS



Create it 

RESTORATIVE & PROSTHETICS

NSK

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Ti-Max Z

Air-Driven Handpieces



Unprecedented Power

Experience like never before, the unprecedented cutting power of the industry's best-in-class 44W air turbine handpiece as it delivers unprecedented cutting strength. Makes zirconia removal easy, reducing chairside time and minimizing patient discomfort.

DYNAMIC POWER SYSTEM

Equipped with the new "DYNAMIC POWER SYSTEM", the handpieces provide revolutionary power. The enlarged exhaust port, optimized nozzle structure, and enlarged rotor bucket achieve the highest rotational power in its category*.

*Power compared with the same handpiece class offered by other major manufacturers (as of July 2023)

01. Expanded Rotor Blade Surface

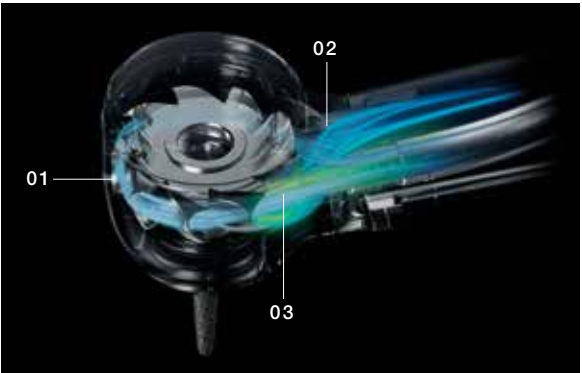
The air exposure area is twice that of conventional models. The large bucket surface takes in air with no waste to achieve high torque.

02. Expanded Exhaust Groove

The enlarged exhaust groove quickly discharges air received by the bucket. A smooth exhaust improves torque in the low rpm range.

03. Extended Cylindrical Nozzle

The optimized nozzle structure reduces air. Air power is converted into highly efficient rotational power.

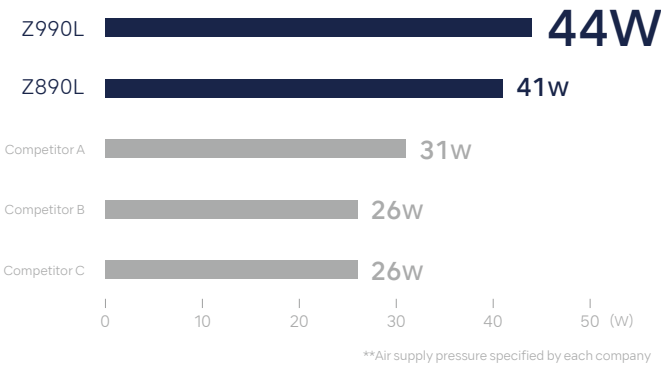


The best technologies are combined to bring outstanding power.

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

*Z990L, air supply pressure at 0.42 MPa

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



DURAPOWERTM CHUCK

Equipped with "DURAPOWERTM CHUCK", a new chuck* that provides a more sustained gripping force that reduces the risk of bur slippage compared to conventional models.

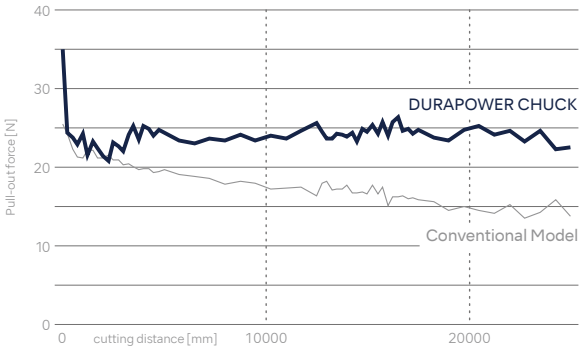
*The chuck is the part of the handpiece that holds the bur (cutting rod). The new improved chuck mechanism has improved durability.

Powerful grip realized by the wedge effect.

NSK's proprietary technology enhances the chuck function. The wedge-shaped part grips the bur firmly with force generated by the wedge effect (except Z micro / Z micro KL).



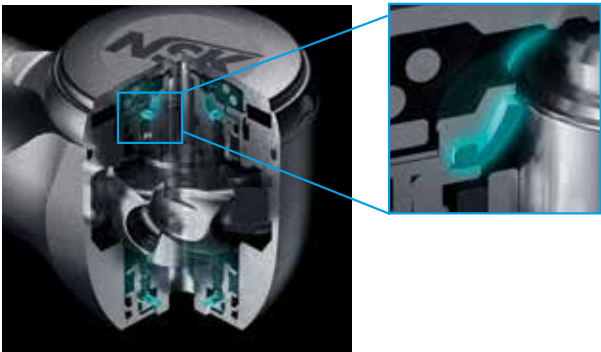
● Cutting endurance test (in-house study)



Quick Stop

The Quick-stop function, which stops high-speed rotation in approximately 1 second, is mounted on the front and back of the head. The two Quick-stop functions allow for an abrupt stop to prevent inertial rotation and to reduce the risk of intraoral entrapment and suck back, thus ensuring an extremely safe treatment.

(The two Quick-stop functions only Z990L / Z890L series.)



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

Easy 3-step cartridge replacement

Cartridges are designed to be easily replaced by the user following a simple 3-step procedure, saving the clinician outside repair time.

(See the instruction manual for details.)

1

Set the supplied head cap wrench on the head cap and turn it counterclockwise to remove.



2

Push up the bur to release the cartridge from the head.



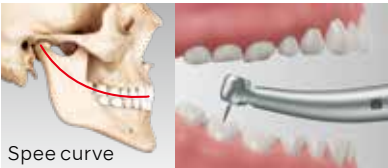
3

Insert the new cartridge aligned with the notch. Attach the head cap with the supplied wrench.



Lightweight titanium body and 100° angled head

The internal structure has been revised and the weight has been reduced by more than 20% compared to the S-Max M800L. Considering the physiological curves of the oral cavity (Curve of Spee and Curve of Wilson), the 100° angled head enables easier access and high-torque cutting for efficient treatment in the oral cavity.



Ti-Max Z



Z990L / Z890L series

- DYNAMIC POWER SYSTEM*
- DURAPOW ER CHUCK*
- Simple Cartridge Change
- Head at a 100° angle
- Titanium Body with DURAGRIP
- Ceramic Bearings
- Cellular Glass Optics
- Push Button Chuck
- Quattro Spray
- Clean Head System
- Quick Stop
- Microfilter*

* Only Z990L / Z890L series



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

Miniature Head
• Power : 41W
• Speed : 320,000-400,000 min⁻¹
• Head Size : ø10.6 x H 10.8 mm

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

For NSK Couplers

Head	Optic	MODEL	ORDER CODE
Standard	●	Z990L	PA23730001
Miniature	●	Z890L	PA23720001
Micro	●	Z micro	PA2357

For KaVo® Couplers

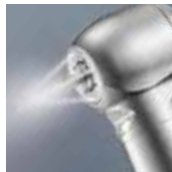
Head	Optic	MODEL	ORDER CODE
Standard	●	Z990KL	PA23750001
Miniature	●	Z890KL	PA23740001
Micro	●	Z micro KL	PA2358

For W&H® Couplers (RQ Type)

Head	Optic	MODEL	ORDER CODE
Standard	●	Z990WL*	PA23870001
Miniature	●	Z890WL*	PA23860001

*Compatible turbine handpieces with Integral LED

S-Max M



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



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



Standard Head
• Power : 26 W
• Speed : 325,000-430,000 min⁻¹
• Head Size : ø12.1 x H 13.3 mm

For NSK Couplers

Head	Optic	MODEL	ORDER CODE
Miniature	●	M800L	P1253
Miniature	—	M800	P1255
Standard	●	M900L	P1254
Standard	—	M900	P1256

For KaVo® Couplers

Head	Optic	MODEL	ORDER CODE
Miniature	●	M800KL	P1257
Standard	●	M900KL	P1258
Standard	—	M900K	P1259

For W&H® Couplers (RQ Type)

Head	Optic	MODEL	ORDER CODE
Miniature	●	M800WL*	P1265
Standard	●	M900WL*	P1266
Standard	—	M900W	P1287

*Compatible turbine handpieces with Integral LED

Ti-Max X450



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



• Power : 21 W
• Speed : 380,000-450,000 min⁻¹
• Head Size : ø11.2 x H 13.5 mm
• 45° Angle Head
• For FG extra-long burs (25 mm) only

For NSK Couplers

Optic	MODEL	ORDER CODE
●	X450L	P1078
—	X450	P1088

For KaVo® Couplers

Optic	MODEL	ORDER CODE
●	X450KL	P1079

Direct-Connect 5 Hole

Optic	MODEL	ORDER CODE
●	X450 5H	P1093



Direct-Connect 4 Hole

Optic	MODEL	ORDER CODE
—	X450 M4	P1092



Pana-Max PLUS2



- Stainless Steel Body
- Ceramic Bearings
- Push Button Chuck
- Quattro Spray
- Clean Head System
- Air Pressure Regulating Valve
- Anti-Retraction Valve



Miniature Head

- Power : 27 W
- Speed : 380,000-450,000 min⁻¹
- Head Size : ø10.6 x H 12.4 mm



Standard Head

- Power : 30 W
- Speed : 325,000-410,000 min⁻¹
- Head Size : ø12.1 x H 13.3 mm

Direct-Connect 4 Hole

Head	Optic	MODEL	ORDER CODE
Miniature	—	PAP2-MU M4	PA2362
Standard	—	PAP2-SU M4	PA2363



Pana-Max2



- Stainless Steel Body
- Ceramic Bearings
- Push Button Chuck
- Single Spray
- Clean Head System
- Air Pressure Regulating Valve
- Anti-Retraction Valve



- Power : 20 W
- Speed : 350,000-450,000 min⁻¹
- Head Size : ø11.2 x H 13.4 mm

Direct-Connect 4 Hole

Optic	MODEL	ORDER CODE
—	Pana-Max2 M4	P1154



NSK Couplers



Optic	MODEL	ORDER CODE
●	PTL-CL-LED	PA23360001

- Stainless Steel Body • Titanium coating • Anti-Retraction Valve
- For NSK • LED incorporated in coupler



Optic	MODEL	ORDER CODE
●	PTL-CL-FV-T	PA23420001

- Stainless Steel Body • Titanium coating • Anti-Retraction Valve
- 5 Hole connection • Fiber optic incorporated in coupler



Optic	MODEL	ORDER CODE
●	KCL-LED	PA23170001

- Stainless Steel Body • Titanium coating • Anti-Retraction Valve
- For KaVo® MULTiflex® LUX with water volume adjuster
- LED incorporated in coupler



Optic	MODEL	ORDER CODE
—	FM-CL-M4-T	PA23320001

- Stainless Steel Body • Titanium coating • Anti-Retraction Valve
- 4 Hole connection

Fitting Chart By Series

NSK air-driven handpieces are compatible with couplers of major brands, and can be connected to units currently in use. With this design, you can easily use NSK handpieces without being tied down to a particular unit.

(Compatible couplers differ depending on the series.)

	NSK (Optic)	NSK (Non-Optic)	KaVo® (Optic)	KaVo® (Non-Optic)	W&H® (Optic)	W&H® (Non-Optic)
Ti-Max Z	○	—	○	—	○	—
Ti-Max Z micro	○	—	○	—	—	—
S-Max M	○	○	○	○	○	○
Ti-Max X450	○	○	○	—	—	—
Coupler Type	 NSK Coupler (PTL Type) LED		 KaVo® Multiflex® LED		 W&H® Roto Quick® (RQ Type)	

○ Available — Unavailable

NLZ



The Compact Makes
a Big Change

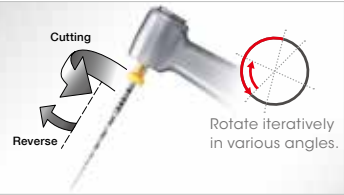
The New Style Electric



Endodontic reciprocating function

Compatible with the Dentsply Sirona Endodontics reciprocating file WAVEONE® GOLD. WAVEONE®, from Dentsply Sirona, sets new standards in Endodontics, by bringing simplicity to the root canal shaping procedure, using only one NiTi instrument per root canal in most cases. The global shaping time is thus decreased by up to 40% versus a traditional continuous rotary technique. The new NLZ Endo motor has a reciprocating function which allows work in the WAVEONE® reciprocating mode. A large rotating angle in the cutting direction provides high efficiency, whereas a smaller angle in the reverse direction allows the WAVEONE® file to safely progress along the canal path, reducing the risk of a screwing effect and file breakage.

WaveOne® Gold



Electric Micromotor System **BRUSHLESS**

Speed : 100 – 40,000 min⁻¹, Max. Torque : 4.2 Ncm

Internal Water Spray

Optic	MODEL	ORDER CODE
●	NLZ S120	Y1003735

Contents

- NLZ U (Control Unit & Main Unit) • NE180 (AC Adapter)
- NLZ (Motor) • NLZ CD (Motor Cord) • NLZ U BRACKET

Internal Water Spray

Optic	MODEL	ORDER CODE
●	NLZ E S120	Y1003736

Contents

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

Specifications

[Unit]

- Dimension Control Unit : W 76 × D 87.1 × H 63.4 mm
- Dimension Main Unit : W 146 × D 75 × H 48 mm
- Power Supply : 120 V 50/60 Hz
- Programs : General Application Mode / 6 programs
- Rotary Endo Mode / 6 programs

[Motor]

- Motor Type : Brushless Micromotor
- Endodontics Torque : 0.3 - 6.0 Ncm*
- Dimension : ø22 × H 68.8 mm
- Weight : 59 g (motor only)
- Light : White LED
- *Depending on gear ratio



	NLZ	NLZ E
General Application Mode Function	○	○
Rotary Endo Mode Function	—	○
Reciprocating Endo Mode Function	—	○*

*The "Reciprocating Endo Mode" can be operated only with the NLZ Endo Endodontic Handpiece and WAVEONE® file.

Endodontic Handpiece



Gear Ratio	MODEL	ORDER CODE
6:1 Reduction	NLZ Endo	C1130

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

Mounting Accessories



MODEL	ORDER CODE
NLZ STAY	Z1321

MODEL	ORDER CODE
NLZ MOUNTING PLATE	Z1323

MODEL	ORDER CODE
NLZ CDL	E1152062

NLZ PRO

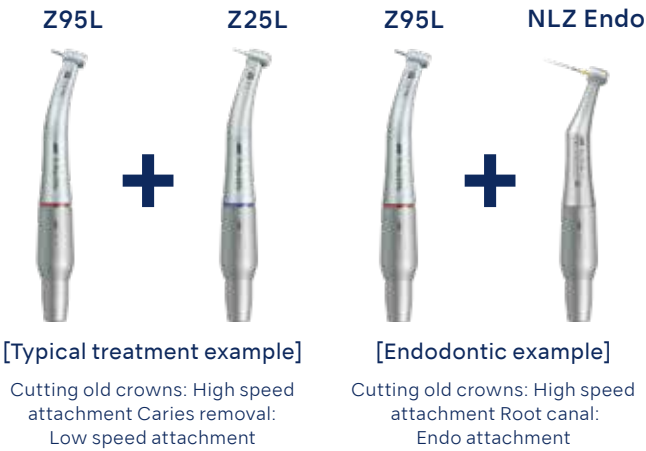
NLZ Built in Motor System

Integrated Electric
Micromotor System



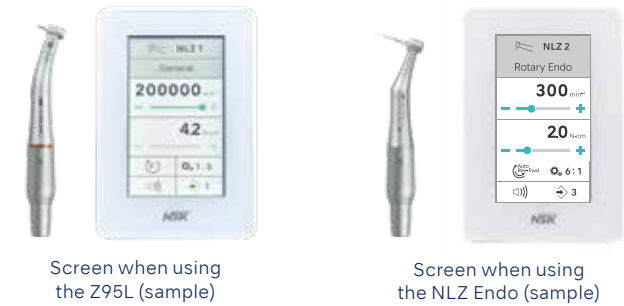
Dual-Motors

Flexible customization options meet diverse treatment styles and requirements. The standard set contains one motor, but an additional motor can be added for the dual-motor option. By adopting a dual-motor system, electric attachments can be installed to cover a wide range of applications, gear ratios and burs, enabling seamless integration without the need to change the electric attachment for a different treatment. This results in a more efficient practice with less chair time and the ability to treat more patients.



Multi Pad2

The Multi Pad2 can operate up to two electric motors. The LCD touch screen displays large numbers and buttons for easy operation. Visibility is further improved by the large screen. Additionally, the design takes into account ease of use in a treatment setting: when installing two electric attachments using the dual-motor, lifting one of them causes the screen to switch automatically to the motion control screen.



NLZ Built-in Motor System

NLZ PRO

MODEL	ORDER CODE
NLZ PRO	Y1500670

Contents

- NLZ (Motor) • NLZ CDB (Motor hose) • NLZ BF (Control board)
- NLZ SEL (Selector board) • NLZ ADP (AC-DC Adapter board)
- Multi Pad2 (Control panel) • SENSE HARNESS • EX-IF HARNESS
- FUSE HARNESS • NLZ POWER HARNESS • MOTOR HARNESS
- SELECT HARNESS

The NLZ PRO includes one motor. For dual motor usage, please purchase an additional NLZ MOTOR & CORD.

Optional Set

MODEL	ORDER CODE
NLZ MOTOR&CORD	Y1500698

- NLZ (Motor) • NLZ CDB (Motor hose)

Specifications

- [NLZ BF : Motor Control PCB]
- Dimension : W115 × D68.5 × H40 mm (with case)
- Power Supply : DC 34V

- [NLZ SEL : Motor Selector PCB]
- Dimension : W68.5 × D56.5 × H38.5 mm (with case)

- [NLZ ADP : AC-DC Adapter PCB]
- Dimension : W74 × D60.2 × H45.2 mm (with case)

- [Motor]
- Motor Type : Brushless Micromotor
- Max Torque : 4.2 Ncm
- Endodontics Torque : 0.3 - 6.0 Ncm*
- Motor Speed : General 1,000 - 40,000 min⁻¹
- Rotary Endo 100 - 6,000 min⁻¹
- Dimension: ø22 × H68.8 mm
- Weight : 57 g
- Light : White LED

*Depending on gear ratio

- [Multi Pad2]
- Rated input : DC 12 V
- Input current : 110 mA
- Max output power : 1.32 W
- Dimensions : W90 × D138 × H16 mm
- Weight : 240 g (including cable)



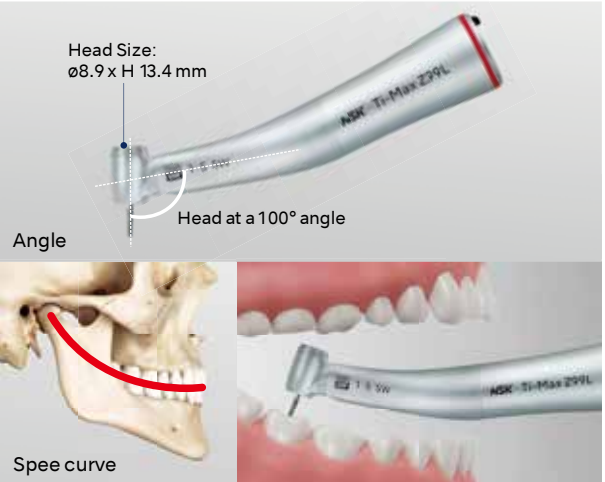
Ti-Max Z
Contra-angle

Smooth Cutting at its Peak.
Durability at its Core.



100° Angled head -
for easy access

Designed with the oral cavity's natural anatomical curves in mind (Curve of Spee and Curve of Wilson), enabling high-torque cutting for more efficient treatment.



Optimized Gear Structure –
for smooth cutting

The handpiece features an optimized internal structure with the ideal number and shape of gears, for more efficient power transmission. This enhances motor torque delivery and provides a smoother cutting experience.



Quattro Spray

Features a four-port water spray system that irrigates from two angles, helping to reduce the risk of cooling failure – regardless of bur shape or the conditions inside the oral cavity.



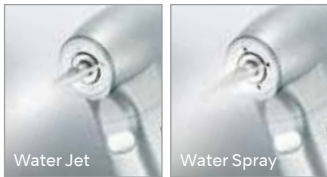
Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z99L	CA13140001
• Max Speed : 200,000 min⁻¹ • For FG burs (ø1.6) • 100° Angle Head • Titanium Body with Scratch Resistant DURAGRIP • DURAPOWER CHUCK • Ceramic Bearings • Quattro Spray (with Two-Way Spray Function) • Microfilter • Anti Heat System • Clean Head System • Cellular Glass Optics			

Ti-Max Z



Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z95L	C1034
• Max Speed : 200,000 min ⁻¹ • For FG burs (ø1.6) • Push Button Chuck • Titanium Body with Scratch Resistant DURAGRIP • Ceramic Bearings • Quattro Spray (with two way water function) • Microfilter • Anti Heat System • Clean Head System • Cellular Glass Optics			

Two-Way Water Function



The world's first two-way spray function allows you to instantly choose between the Water Jet or Water Spray. The Water Jet is an alternative cooling function for the Water Spray during procedures. Water spray can be activated without restriction when needed by simply twisting the switch.

Easy On/Off Switch



Switch between Water Jet (water only) and Water Spray (water + air) in an instant.



Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z85L	C1062
• Miniature Head • Max Speed : 200,000 min ⁻¹ • For FG burs (ø1.6)* • Titanium Body with Scratch Resistant DURAGRIP • Push Button Chuck • Single Spray • Ceramic Bearings • Microfilter • Anti Heat System • Clean Head System • Cellular Glass Optics *For short shank burs only			



Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	Z25L	C1038
• Max Speed : 40,000 min ⁻¹ • For CA burs (ø2.35) • Push Button Chuck • Titanium Body with Scratch Resistant DURAGRIP • Single Spray • Microfilter • Clean Head System • Cellular Glass Optics			

Ti-Max nano



Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	nano95LS	C1099
• Max Speed : 200,000 min ⁻¹ • For FG burs (ø1.6) • Push Button Chuck • Titanium Body with Scratch Resistant DURAGRIP • Ceramic Bearings • Quattro Spray • Microfilter • Anti Heat System • Clean Head System • Cellular Glass Optics			



Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	nano25LS	C1100
• Max Speed : 40,000 min ⁻¹ • For CA burs (ø2.35) • Push Button Chuck • Titanium Body with Scratch Resistant DURAGRIP • Single Spray • Microfilter • Clean Head System • Cellular Glass Optics			

Small in Size, Well-Balanced

The 'nano series' delivers on the high-performance standards of NSK contra-angles, but are 10% smaller and lighter than conventional models. Used in conjunction with the NLZ micromotor system, the nano series gives you high maneuverability like an air turbine handpiece, ensuring more accurate treatments.

Balanced Design

Reduces fatigue during procedures and improves fingertip dexterity.

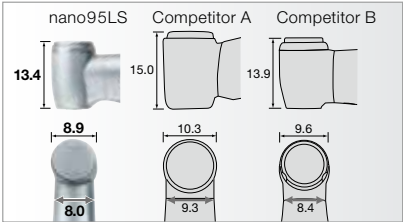
Higher Durability

The nano95LS gears have been designed using High Spec 3D simulation software to achieve optimal results in terms of durability.



Smaller and Slimmer

nano95LS has smaller head and slimmer neck dimensions.

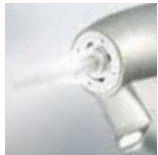


Ti-Max Z

The World's First 45-Degree



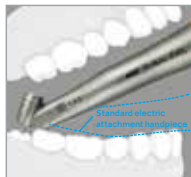
Ti-Max Z45L



Gear Ratio	Optic	MODEL	ORDER CODE
1:4.2 Increasing	●	Z45L	C1064

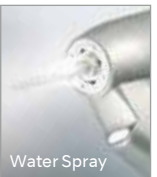
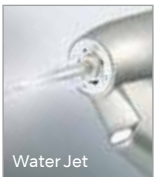
- Max Speed : 168,000 min⁻¹ • For FG burs (ø1.6) • 45° Angle Head
- Titanium Body with Scratch Resistant DURACOAT
- Push Button Chuck • Ceramic Bearings
- Quattro Spray (with two way water function) • Microfilter
- Anti Heat System • Clean Head System • Cellular Glass Optics

High Accessibility



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

Two-Way Water Function



The world's first two-way spray function allows you to instantly choose between the Water Jet or Water Spray. The Water Jet is an alternative cooling function for the Water Spray during procedures. Water spray can be activated without restriction when needed by simply twisting the switch.

High Accessibility Enables a 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 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.

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.

Localizing the Orifices of the Root Canals 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.

Ti-Max X



Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	X20L	C605

- Max Speed : 40,000 min⁻¹
- For FG burs (ø1.6)
- Titanium Body with Scratch Resistant DURAGRIP
- Push Button Chuck
- Single Spray
- Microfilter
- Clean Head System
- Cellular Glass Optics



Gear Ratio	Optic	MODEL	ORDER CODE
4:1 Reduction	—	X55	C618

- Max Speed : 10,000 min⁻¹
- For Profin Tip / EVA Tip
- Vertical Reciprocating (Stroke Length 1.4 mm)
- Titanium Body with Scratch Resistant DURAGRIP
- Single Spray
- Microfilter
- Lamineer Tips not included
- With Tip Lock Mechanism



Straight Handpiece			
Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	X65L	H273

- Max Speed : 40,000 min⁻¹
 - For HP burs (ø2.35)
 - For CA burs (ø2.35)*
 - Titanium Body with Scratch Resistant DURAGRIP
 - Single Spray
 - Clean Head System
 - Cellular Glass Optics
- *Need to insert the supplied bur stopper

S-Max M



Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	M95L	C1023

- Max Speed : 200,000 min⁻¹
- For FG burs (ø1.6)
- Stainless Steel Body
- Push Button Chuck
- Ceramic Bearings
- Quattro Spray
- Clean Head System
- Cellular Glass Optics



Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	M25L	C1024
1:1 Direct Drive	—	M25	C1027

- Max Speed : 40,000 min⁻¹
- For CA burs (ø2.35)
- Stainless Steel Body
- Push Button Chuck
- Single Spray
- Clean Head System
- Cellular Glass Optics



Gear Ratio	Optic	MODEL	ORDER CODE
4:1 Reduction	●	M15L	C1025
4:1 Reduction	—	M15	C1028

- Max Speed : 10,000 min⁻¹
- For CA burs (ø2.35)
- Stainless Steel Body
- Push Button Chuck
- Single Spray
- Clean Head System
- Cellular Glass Optics



Straight Handpiece			
Gear Ratio	Optic	MODEL	ORDER CODE
1:1 Direct Drive	—	M65	H1008

- Max Speed : 40,000 min⁻¹
 - For HP burs (ø2.35)
 - For CA burs (ø2.35)*
 - Stainless Steel Body
 - Single Spray
 - Clean Head System
 - Handpiece Connection Type:ISO 3964 Type 2
- *Need to insert the supplied bur stopper

FX series



Easy Cartridge Replacement



Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX25	C1052002

- Max Speed : 40,000 min⁻¹ • For CA burs (ø2.35) • Aluminium Body
- Ball Bearing • Push Button Chuck • Clean Head System
- Easy Cartridge Replacement
- Handpiece Connection Type : ISO 3964 Type 1



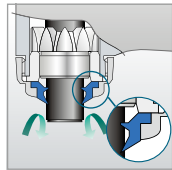
Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX25K	CA13110001

- Max Speed : 40,000 min⁻¹ • For CA burs (ø2.35) • Aluminium Body
- Ball Bearing • Push Button Chuck • Clean Head System
- Easy Cartridge Replacement
- Compatible with KaVo INTRA™ 181K Air Motor



Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX15	C1053002

- Max Speed : 10,000 min⁻¹ • For CA burs (ø2.35) • Aluminium Body
- Ball Bearing • Push Button Chuck • Clean Head System
- Handpiece Connection Type : ISO 3964 Type 1



Paste Defense System



Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX57	C1054002

- Max Speed : 5,000 min⁻¹ • For screw-in cups and brushes
- Aluminium Body • 360° Rotation • Paste Defense System
- w/o Spray • Handpiece Connection Type : ISO 3964 Type 1



Straight Handpiece		
Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX65	H1014002

- Max Speed : 40,000 min⁻¹ • For HP burs (ø2.35) • Aluminium Body
- Clean Head System • Prophylaxis angle connectable
- Handpiece Connection Type : ISO 3964 Type 1



Straight Handpiece		
Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX65K	HA12020001

- Max Speed : 40,000 min⁻¹ • For HP burs (ø2.35) • Aluminium Body
- Clean Head System • Prophylaxis angle connectable
- Compatible with KaVo INTRA™ 181K Air Motor

FX series



Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX20m	CA13190001

- Max Speed : 40,000 min⁻¹ • For FG Burs (Ø1.6)
- Stainless Steel Body • Clean Head System
- Push-Button Chuck • Ball Bearings
- Standard E-Type



Gear Ratio	MODEL	ORDER CODE
1:1 Direct Drive	FX20K	CA13220001

- Max Speed: 40,000 min⁻¹ • For FG Burs (Ø1.6)
- Aluminium Body • Push Button Chuck
- Ball Bearings • Clean Head System
- Compatible with KaVo INTRA™ 181K Air Motor



Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX57K	CA13240001

- Max Speed : 2,500 min⁻¹
- Aluminium Body • Paste Defense System
- Compatible with KaVo INTRA™ 181K Air Motor



Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX58m	CA13210001

- Max Speed : 2,500 min⁻¹
- For Snap-on Cups and Brushes
- Stainless Steel Body • Paste Defense System



Straight Handpiece		
Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX55m	CA13160001

- Max Speed : 10,000 min⁻¹
- For EVA Tip / Profin Tip / Orthofile
- Stainless Steel Body
- Vertical Reciprocating (Stroke Length 1.4 mm)



Straight Handpiece		
Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX50m	HA12050001

- Max Speed : 2,500 min⁻¹ • For Prophy head
- Stainless Steel Body • Prophy angle connectable
- Standard E-Type



Straight Handpiece		
Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	FX50K	HA12060001

- Max Speed : 2,500 min⁻¹ • Aluminium Body
- Prophy angle connectable
- Compatible with KaVo INTRA™ 181K Air Motor

EX series

Heads for General Application External Water Spray

MODEL	ORDER CODE
FPB-Y	C875

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



MODEL	ORDER CODE
NAC-Y	C032002

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



MODEL	ORDER CODE
BB-Y	C037

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



MODEL	ORDER CODE
FFB-Y	C884

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



MODEL	ORDER CODE
NRS2-Y	C549

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



Heads for Prophylaxis Application

MODEL	ORDER CODE
AR-Y (S)	C187

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



MODEL	ORDER CODE
AR-Y (K)	C188

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



MODEL	ORDER CODE
EVA-Y	C235

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



Heads for Endodontic Application

MODEL	ORDER CODE
MP-Y	C547

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



MODEL	ORDER CODE
TEQ-Y	C849

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



Handpieces

MODEL	ORDER CODE
EC	C100008

- 1:1 Direct Drive



MODEL	ORDER CODE
ER4	C634

- 4:1 Reduction



MODEL	ORDER CODE
ER10	C635

- 10:1 Reduction



MODEL	ORDER CODE
ER16	C636

- 16:1 Reduction



MODEL	ORDER CODE
ER64	C637

- 64:1 Reduction



Straight Handpiece



Gear Ratio	MODEL	ORDER CODE
4:1 Reduction	EX-5B	H262

- Max Speed : 10,000 min⁻¹
- For HP burs (ø2.35)
- Clean Head System
- Aluminium Body
- Prophy angle connectable
- Handpiece Connection Type : ISO 3964 Type 1

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

Air Motors

FX204

No Water Spray

Optic	MODEL	ORDER CODE
—	FX204 M4	M1003002

- Rotation Speed : 19,800 – 24,200 min⁻¹
- Handpiece Connection Type : ISO 3964 Type 1 (Non-optic handpiece only)
- Aluminium Body • 4 hole



S-Max M205

Internal Water Spray

Optic	MODEL	ORDER CODE
—	M205	M1007

- Midwest 4 hole
- Max. 22,000 min⁻¹ ± 10%
- Stainless Steel
- Non-retraction Valve



iProphy Air Prophylaxis Air Motor

The Future of The Dental Hygiene Handpiece



Nosecone separates from motor

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



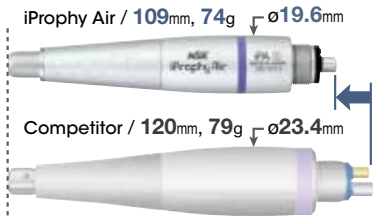
MODEL	ORDER CODE
iProphy Air	M1020



- Max Speed : 3,000 min⁻¹ • 4 hole
- Contents**
- iPA-HP • iPA • iProphy Air Color Ring Set (Pack of 4)

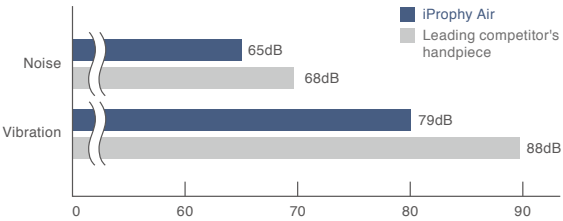
Slimmer, Shorter and Lighter

The iProphy Air handpiece is slim, short and light. The handpiece provides good balance and results in less fatigue for the Dental Hygienist.



Smooth and Quiet

NSK's ultra-precision micro machining technology has been applied to all parts of iProphy Air, reducing vibration & noise to lower levels, level resulting in improved comfort for patients and the Dental Hygienist.



iCare

Automatically Lubricates

Maintaining handpieces can be as simple as touching a button. The appropriate lubrication is applied according to the type of handpiece selected. The chuck-lubricating function allows the dentist to effectively lubricate the chuck. Regular maintenance extends the operating life and the optimal condition of the handpiece. The solution for handpiece care is iCare.

Advantages

- Preset lubricant volume based on handpiece type
- Handpiece lubrication and excessive lubricant purge with simple operation
- The chuck-lubricating function maintains the internal condition of the chuck appropriately to prevent loss of the chuck retention force.
- Low lubricant cost per handpiece provides a lower lifetime operating cost
- Stylish & compact body that can be installed with limited space

Lubrication Simplified

Handpiece lubrication and excessive lubricant purge are performed by simply pressing the buttons. Simple operation is achieved by preset lubricant volumes for high speed and low speed handpieces.



Multiple Air Mode Settings

Air mode can be adjusted to 3 different pre-set selections according to usage*.
*Typical setting is M



Chuck-Lubricating Function

The chuck-lubricating function maintains the internal condition of the chuck appropriately to prevent loss of the chuck retention force.



Large Oil Tank

The large iCare tank (1.2L capacity) allows refill it with iCare oil in one step, reducing the possibility of spills and the need to store excess lubricant.



iCare Complete Set

Standard connector × 2 / E-type connector × 2		Standard connector × 1 / E-type connector × 3	
MODEL	ORDER CODE	MODEL	ORDER CODE
iCare C2 Type	Y1002796	iCare C3 Type	Y1002797
Contents • iCare Unit • AC Power Cord • Maintenance Oil for iCare • Mist Filter • Oil Sheet • Air Tube • Chuck Lubrication Nozzle • Oil Filling Nozzle • Test Bur • O-ring Set			
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 : W 280 x D 240 x H 350 mm • Solution Tank Capacity : 1,200 mL			
*Standard connector for ISO 9168 Type2 / Type3 *E-type Handpiece Connector connects to all coupling demension of ISO 3964 (Long, Middle, Short, Extra Short) *Air piping is necessary 0.5-0.6 MPa (5.0 - 6.0 kgf/cm²)			



iCare Adapters

MODEL	ORDER CODE	
PTL Adapter	Z257010	• For NSK Air-driven Handpieces for NSK Phatelus / Mach Coupler
KV-Adapter	Z257020	• For KaVo® Air-driven Handpieces for Multiflex® LUX Coupler
SR-Adapter	Z257023	• For Sirona® Air-driven Handpieces for Quick Coupler
WH-Adapter	Z257021	• For W&H® Air-driven Handpieces for Roto Quick Coupler (RQ Type)
BA-Adapter	Z280022	• For Bien-Air® Air-driven Handpieces for Unixfix® Coupler
MWL Adapter	Z280052	• For MIDWEST® Air-driven Handpieces for 5-Hole Coupler
STL Adapter	Z280051	• For StarDental® Air-driven Handpieces for HiFlo® Fiber-Optic Swivel (4-Hole F.O.) Coupler
F-Type Adapter	Z280042	• For ENDO-MATE TC2, DT Heads

Check with the dealer for the Adapters to mount other manufacturers' handpieces. *E-Type: Conformable to ISO3964.

PANA SPRAY Plus

PANA SPRAY Plus is a specially formulated cleaning lubricant for air-driven handpieces, slow speed handpieces and air motors. Frequent application will ensure handpiece and air motor performance and durability. Apply PANA SPRAY Plus every time before autoclaving any handpiece or air motor

MODEL	ORDER CODE
PANA SPRAY Plus	Z182600
• For air-driven, electric high and slow speed handpieces and air motors • 10.5 oz • Alcohol-contained lubricant	
MODEL	ORDER CODE
Tip Nozzle	Z020010
• For chuck lubrication and direct-connect handpieces	



EZ SPRAY

MODEL	ORDER CODE
EZ SPRAY	Y900070
• EZ SPRAY GRIP • Coil Tube • Grip Holder • ON/OFF Valve • PA Nozzle • Spray Mist Absorber	



Adapter set per handpiece (adapter for each handpiece + EZ-M4 Adapter)

MODEL	ORDER CODE	PRICE
KV-Adapter	• For Kavo® high speed Air-Driven-Multiflex® LUX Coupler Z257020	\$153.00
WH-Adapter	• For W&H® high speed Air-Driven – Roto Quick Coupler (RQ Type) Z257021	\$153.00
EZ-M4 Adapter	• To convert to M4 connection – works with Kavo and W&H® adapters Z229040	\$66.00
PTL Nozzle	• For NSK high-speed Air-Driven – NSK Phatelus/ Mach Coupler Z229035	\$81.00
WHL Adapter	• For W&H® Air-driven Handpieces for Roto Quick Coupler (RA Type) Z280053	\$153.00
BA-Adapter	• For Bien-Air® Air-driven Handpieces for Unixfix® Couple® Z280022	\$153.00
MWL Adapter	• For MIDWEST® Air-driven Handpieces for 5-Hole Coupler Z280052	\$153.00
STL Adapter	• For StarDental® Air-driven Handpieces for HiFlo® Fiber-Optic Swivel (4-Hole F.O.) Coupler Z280051	\$153.00
F-Type Adapter	• For ENDO-MATE TC2, DT Heads Z280042	\$140.00

Spare Parts

Ti-Max Z990 / Z890 / Z micro

MODEL	PRODUCTS	ORDER CODE
TiZ9-SU03 Cartridge for Standard head		PA2381X001
TiZ9-MU03 Cartridge for Miniature head		PA2380X001
SX3-NU03 Cartridge for Micro head		PA2307X001
S970 O-ring Set Z990L, Z890L		Y1001953

S-Max M series

MODEL	PRODUCTS	ORDER CODE
SX3-MU03 Cartridge for Miniature head		P1280
SX3-SU03 Cartridge for Standard head		P1281
PTL O-ring Set (Pack of 5)		Y900580

Ti-Max X450 series

MODEL	PRODUCTS	ORDER CODE
TiX45-SU03 Cartridge for X450 series		Y1001906

Pana-Max PLUS2

MODEL	PRODUCTS	ORDER CODE
SX3-MU03 Cartridge for Miniature head		P1280
SX3-SU03 Cartridge for Standard head		P1281

Pana-Max2

MODEL	PRODUCTS	ORDER CODE
PAX2-SU03 Cartridge		P1190

Couplers

MODEL	PRODUCTS	ORDER CODE
Anti-Retraction Valve		P401054

MODEL	PRODUCTS	ORDER CODE
TiZ9-SU04 Head cap for Standard head		PA2381X050
TiZ9-MU04 Head cap for Miniature head		PA2380X050
SX-NU04 Head cap for Micro head		PA2307X050
PTL O-ring Set Z micro		Y900580

MODEL	PRODUCTS	ORDER CODE
SX-MU04 Head cap for Miniature head		P1001500
SX-SU04(YOS) Head cap for Standard head		P1027500

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

MODEL	PRODUCTS	ORDER CODE
SX-MU04 Head cap for Miniature head		P1001500
SX-SU04(YOS) Head cap for Standard head		P1027500

MODEL	PRODUCTS	ORDER CODE
PAX2-SU04 Head cap		P1190050

MODEL	PRODUCTS	ORDER CODE
PTL-LED For PTL-CL-LED, KCL-LED (Optional)		10000198

MODEL	PRODUCTS	ORDER CODE
TiZ9-SU05 Head cap wrench for Miniature head & Standard head		PA2381X765
SX-NU05 Head cap wrench for Micro Head		PA2307X765
Cleaning Wire		Z144101

MODEL	PRODUCTS	ORDER CODE
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535
Cleaning Wire		Z144095

MODEL	PRODUCTS	ORDER CODE
SX-SU05 Head cap wrench for Miniature head & Standard head		20000535
Cleaning Wire		Z144095

MODEL	PRODUCTS	ORDER CODE
PAX2-SU05		P1190765

MODEL	PRODUCTS	ORDER CODE
PTL Bulb (Pack of 3)		Y900529

NLZ / NLZ E

MODEL	PRODUCTS	ORDER CODE
NLZ E U		U1142002
NLZ U		U1141002
NLZ		E1152051
NLZ CD (1.8 m)		E1152061

NLZ PRO

MODEL	PRODUCTS	ORDER CODE
NLZ		E1152051
NLZ CDB		EA1152X061
Fuse Harness		U1104504
NLZ Power Harness		U1104500

Air Motor

MODEL	PRODUCTS	ORDER CODE
O-Ring Set		E1135083

iProphy Air

MODEL	PRODUCTS	ORDER CODE
iPA-HP		M1020005

iCare

MODEL	PRODUCTS	ORDER CODE
Maintenance Oil for iCare (1 Bottle, 1 Liter)		Z016130
Oil Sheet (Pack of 10)		U433135
Power Cord		U166A013A

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Bien Air and UNIFIX are registered trademarks of Bien-Air Holding SA.

NAKANISHI INC. www.nsk-dental.com
700 Shimohinata, Kanuma, Tochigi 322-8666, Japan

Specifications are subject to change without notice.

MODEL	PRODUCTS	ORDER CODE
NLZ CDL (2.2 m)		E1152062
NLZ CDE		E1152069
NLZ Stay		Z1321
NLZ U Bracket		Z1322

MODEL	PRODUCTS	ORDER CODE
Ex-If Harness		U1104501
Select Harness		20000907
Sense Harness		U1104502
Motor Harness		U522057

MODEL	PRODUCTS	ORDER CODE
iPA		M1020006

MODEL	PRODUCTS	ORDER CODE
Mist Filter (Pack of 12)		Y900159
Chuck Lubrication Nozzle		Z257301

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EMS is a registered trademark of Ferton Holding SA.

NSK America Corp. www.nskdental.com
1800 Global Parkway, Hoffman Estates, IL 60192, USA

MODEL	PRODUCTS	ORDER CODE
NLZ Mounting Plate		Z1323
O-Ring Set		E1135083

MODEL	PRODUCTS	ORDER CODE
NLZ ADP		U1104051
NLZ Joint Set * Pack of 4		Y1500839

MODEL	PRODUCTS	ORDER CODE
iProphy Air Color Ring Set (Pack of 4)		Y1002594

MODEL	PRODUCTS	ORDER CODE
Air Filter		U508352
Handpiece Head Filter (Pack of 200)		U1120118