



CONTRA-ANGLES



	Ti-Max Z	Ti-Max Z45L	Ti-Max nano	Ti-Max X	S-Max M	FX series
Grade	PREMIUM	SPECIAL	SPECIAL	ADVANCED	ADVANCED	BASIC
Body	Titanium	Titanium	Titanium	Titanium	Stainless	Stainless
DURAGRIP	●	●	●	●		
Anti Heat System	●	●	●	●		
Ceramic Bearings	●	●	●	●	●	
Cellular Glass Optics	●	●	●	●	●	
Clean Head System	●	●	●	●	●	●
Push Button Chuck	●	●	●	●	●	●
Water Spray	Quattro	Quattro	Quattro	Quattro	Quattro	
Two-Way Spray Function	●	●				
Microfilter	●	●	●	●		
Ergo Grip	●	●	●	●	●	●

*The data in the table are only valid for red contra-angle handpieces with standard head. The data do not apply to blue and green handpieces and contra-angles, contra-angle handpieces.

Ti-Max Z

Premium





ADVANCED TECHNOLOGY

Amazingly Silent Operation

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



Anti Heat System (Z95L, Z85L, Z84L)

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

Two-Way Spray Function

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

DURABLE

A Stunningly Durable and Reliable Handpiece

NSK has combined advanced design and world-class processing technology to create incredibly durable instruments. NSK's advanced technologies have boosted sterilization resistance, delivering even better reliability for dental practices.

COMFORT

The Ultimate in Handpieces The Result of Invaluable Clinical Feedback

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

OUTSTANDING OPERABILITY

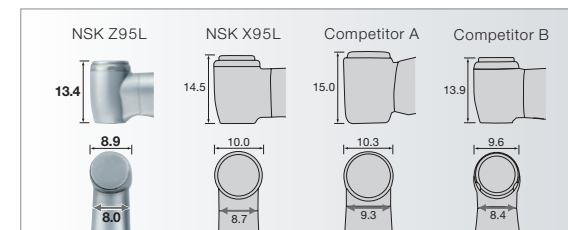
The Smallest Head*

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

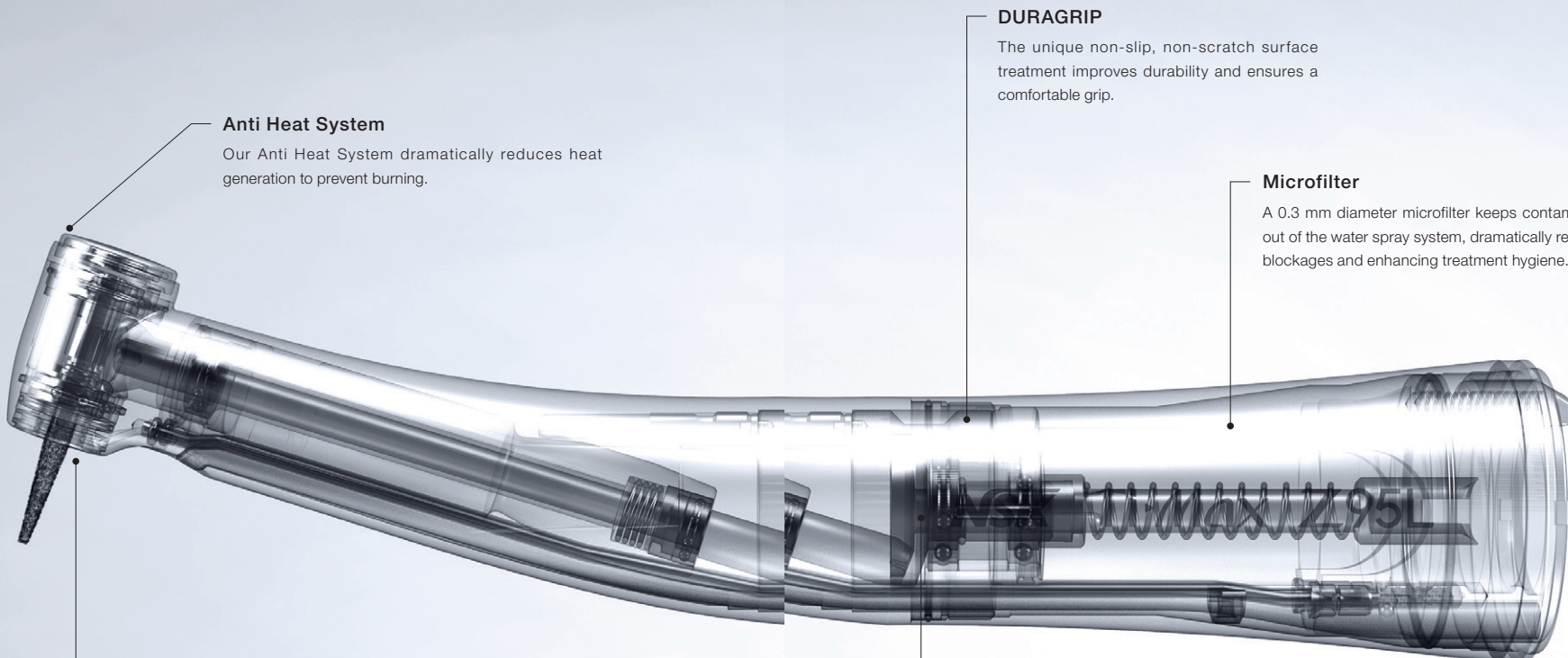
*Compare with our previous model and products offered by other manufacturers.

The Slimmest Neck

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



TECHNOLOGY & FUNCTION



Anti Heat System

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

DURAGRIP

The unique non-slip, non-scratch surface treatment improves durability and ensures a comfortable grip.

Microfilter

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

Clean Head System

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

Amazing Silence and Minimal Vibration

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

Ti-Max Z Premium

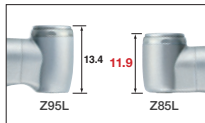
- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics
- Push Button Chuck
- Clean Head System (Excludes Z24L)
- Microfilter



- Quattro Spray (with two way spray function)
- Max Speed: 200,000 min⁻¹
- For FG burs (ø1.6)
- Ceramic Bearings
- Anti Heat System



	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z95L	C1034

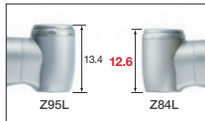


Head size comparison
Z85L offering extraordinary
visibility and accessibility.



	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z85L	C1062

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



Head size comparison
Z84L offering extraordinary
visibility and accessibility.

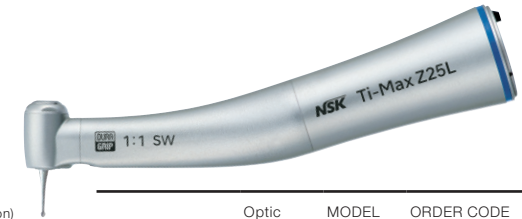


	Optic	MODEL	ORDER CODE
1:4.5 Increasing	●	Z84L	C1135

- Quattro Spray (with two way spray function)
- Miniature Head
- Max Speed: 180,000 min⁻¹
- For FG burs (ø1.6)
- Ceramic Bearings
- Anti Heat System
- *Short Shank burs only



- Single Spray (with two way spray function)
- Max Speed: 40,000 min⁻¹
- For CA burs (ø2.35)



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	Z25L	C1038

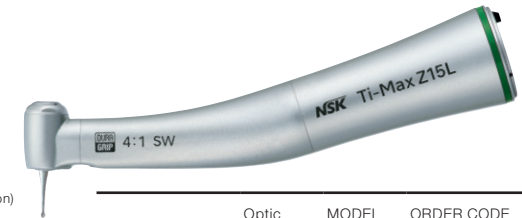


- Single Spray
- Miniature Head
- Max Speed: 40,000 min⁻¹
- For CA burs (ø2.35)



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	Z24L	C1126

- Single Spray (with two way spray function)
- Max Speed: 10,000 min⁻¹
- For CA burs (ø2.35)



	Optic	MODEL	ORDER CODE
4:1 Reduction	●	Z15L	C1039

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



	Optic	MODEL	ORDER CODE
16:1 Reduction	●	Z10L	C1040

Ti-Max Z45L

Special



45-degree Angled Head Supplies Superior Accessibility and Maximum Visibility

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



Superior Accessibility

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



Sectioning a Mandibular Left Impacted Third Molar



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



Caries Removal from a Maxillary Left Second Premolar on Palatal Side



Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar



Water Jet

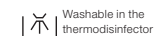


Mist



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

	Optic	MODEL	ORDER CODE
1:4.2 Increasing	●	Z45L	C1064



Washable in the thermodisinfector



Autoclavable up to 135°C

Ti-Max nano

Special



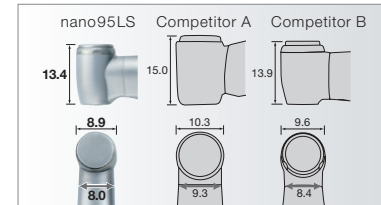
Shorter, Perfectly Balanced

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



Smaller and Slimmer

nano95LS has smaller head and slimmer neck dimensions.



Outstanding Durability

The nano95LS gear shapes have been designed using High Spec 3D simulation software to achieve optimal results in terms of durability and noise level minimization.

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

Ti-Max nano Special

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



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



	Optic	MODEL	ORDER CODE
1:5 Increasing	●	nano95LS	C1099



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



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	nano25LS	C1100



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

	Optic	MODEL	ORDER CODE
4:1 Reduction	●	nano15LS	C1101

Straight Handpiece

- 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



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	nano65LS	H1048

Ti-Max X

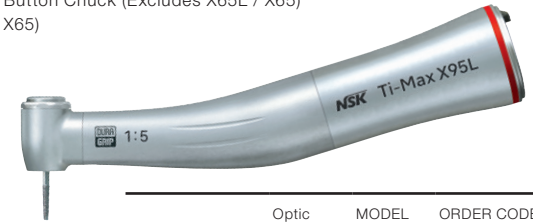
Advanced



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



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



	Optic	MODEL	ORDER CODE
1:5 Increasing	●	X95L	C600
	—	X95	C610



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



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	X25L	C601
	—	X25	C611

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



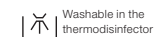
	Optic	MODEL	ORDER CODE
4:1 Reduction	●	X15L	C602
	—	X15	C612

Straight Handpiece

- 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



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	●	X65L	H273
	—	X65	H274



Washable in the thermodisinfector



Autoclavable up to 135°C

CONTRA-ANGLES

- Titanium Body with Scratch Resistant DURAGRIP
- Cellular Glass Optics
- Microfilter (Excludes X57L / X57 / X95EX)
- Clean Head System
- Push Button Chuck



	Optic	MODEL	ORDER CODE
10:1 Reduction	●	X12L	C606

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

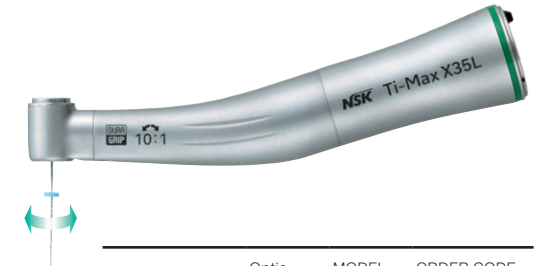
External Water Spray



	Optic	MODEL	ORDER CODE
1:5 Increasing	—	X95EX	C1072

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

Endodontic Handpiece



	Optic	MODEL	ORDER CODE
10:1 Reduction	●	X35L	C620
	—	X35	C624
MODEL		ORDER CODE	
QF Adaptor		C877701	

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



Prophylaxis Handpiece



Special Dust Proof

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



	Optic	MODEL	ORDER CODE
16:1 Reduction	●	X57L	C609
	—	X57	C619



With Tip Lock Mechanism

- Single Spray
- For Profin / EVA Tips / Orthodontics File (Shank ø2.36-2.40 mm) *Metal shank cannot be used.
- Vertical Reciprocating (Stroke Length 1.4 mm)
- Lamineer Tips not included
- Max Speed: 10,000 min⁻¹
- Please keep the rotation speed with your life manufactures designate. (X35L/X35)



	Optic	MODEL	ORDER CODE
4:1 Reduction	●	X55L	C608
	—	X55	C618

S-Max M

Advanced



TOUGHNESS

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

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



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



	Optic	MODEL	ORDER CODE
1:5 Increasing	●	M95L	C1023
	—	M95	C1026



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



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

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



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

Straight Handpiece

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

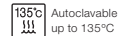
*Need to insert the supplied bur stopper



	Optic	MODEL	ORDER CODE
1:1 Direct Drive	—	M65	H1008



Washable in the thermodisinfectant



Autoclavable up to 135°C

FX series

Basic



Integrated Handpieces : Ergonomic :Functional : Reliable

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

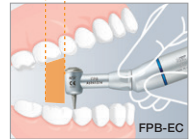
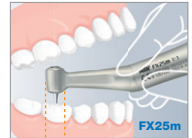
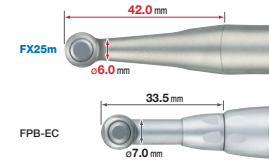
Durable Stainless Steel Body

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

Improved Visibility : Ideal Balance

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

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



Maximum accessibility

Easy Cartridge Replacement

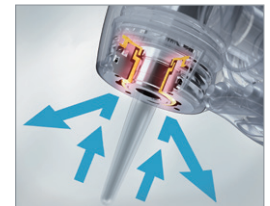
In some instances cartridges are easily replaced in surgery with the accessory tools supplied with the new product. Service costs and downtime are reduced (FX25m).



Clean Head System

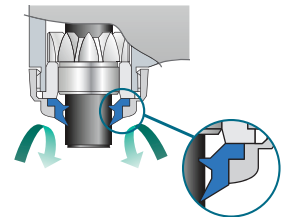
The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings.

(FX25m / FX15m / FX65m)



FX57m Paste Defense System

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



FX series Basic

General Applications Handpiece



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

MODEL	ORDER CODE
1:1 Direct Drive FX25m	C1052001



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

MODEL	ORDER CODE
1:1 Direct Drive FX22	C1129001



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

MODEL	ORDER CODE
4:1 Reduction FX15m	C1053001

Endodontic Handpiece



- Miniature Head
- For engine files
- Stainless Steel Body
- 360° Rotation
- Push Button Chuck
- External Water Spray
- Max Speed: 1,250 min⁻¹

MODEL	ORDER CODE
16:1 Reduction FX75m	C1055001

Prophylaxis Handpiece



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

MODEL	ORDER CODE
4:1 Reduction FX57m	C1054001

Straight Handpiece



- For HP burs (ø2.35), disposable prophyl angle
- Stainless Steel Body
- Clean Head System
- External Water Spray
- Max Speed: 40,000 min⁻¹

MODEL	ORDER CODE
1:1 Direct Drive FX65m	H1014001

EX series Basic

Heads for General Application (External Water Spray)



MODEL	ORDER CODE
FPB-Y	C875

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



MODEL	ORDER CODE
NAC-Y	C032002

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



MODEL	ORDER CODE
BB-Y	C037

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



MODEL	ORDER CODE
NBBW-Y	C211

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



MODEL	ORDER CODE
NM-Y	C247

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



MODEL	ORDER CODE
FFB-Y	C884

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



MODEL	ORDER CODE
NRS2-Y	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



MODEL	ORDER CODE
AR-Y (S)	C187

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



MODEL	ORDER CODE
AR-Y (K)	C188

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



MODEL	ORDER CODE
EVA-Y	C235

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

Heads for Endodontic Application



MODEL	ORDER CODE
MP-Y	C547

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



MODEL	ORDER CODE
MPA-Y	C548

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



MODEL	ORDER CODE
MPAS-Y	C882

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



MODEL	ORDER CODE
TEQ-Y	C849

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



MODEL	ORDER CODE
TEP-Y	C837

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

Shanks



MODEL	ORDER CODE
EC-30	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

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



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

135°C Autoclavable up to 135°C



MP-Y, MPA-Y, MPAS-Y, TEP-Y, ECM-30M, ER4M can be washed in the thermodisinfector.

135°C Autoclavable up to 135°C

EX series Basic



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

	MODEL	ORDER CODE
1:1 Direct Drive	NAC-EC	Y110148



- For NAC (Optional)

	MODEL	ORDER CODE
Spray Nozzle	C032701	

Straight Handpieces



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

	MODEL	ORDER CODE
1:1 Direct Drive	EX-6B	H260001



- For HP burs (ø2.35), disposable prophyl angle
- Clean Head System
- External Water Spray
- Max Speed: 10,000 min⁻¹

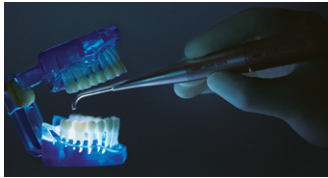
	MODEL	ORDER CODE
4:1 Reduction	EX-5B	H262



- For FX65, EX-6B, EX-5B (Optional)

	MODEL	ORDER CODE
Spray Nozzle	H019711	

isoE-LUX Light Probe



- E-Type Optic Motor Connection
- Glass Fiber Optics
- Stainless Steel Body

Optic	MODEL	ORDER CODE
●	isoE-LUX	Z1265