

Which Handpiece?

Choose the handpiece that matches your hand.

		Τi∙ <i>M</i> Δx Ζ	Ti·Max Z45L	Nano series	Ti-Max X	5·Max M	FXserles
		Ti-Max Z95L	Ti-Max Z45L	Ti-Max nano95L	Ti-Max X95L	S-Max M95L	FX25m
	Grade	PREMIUM	SPECIAL	SPECIAL	ADVANCED	ADVANCED	BASIC
	Head Size	ø8.9 x H 13.4 mm (Super mini)	ø9.6 x H 14.5 mm	ø8.9 x H 13.4 mm (Super mini)	ø10.0 x H 14.6 mm	ø10.0 x H 14.6 mm	ø9.6 x H 13.4 mm
	Body	Titanium	Titanium	Titanium	Titanium	Stainless	Stainless
	DURAGRIP			•			
	DURACOAT				•		
	DLC Coating			•			
Anti Heat System					•		
Ceramic Bearings				•	•		
Cellular Glass Optics		•			•		
Clean Head System					•		•
Push Button Chuck						•	•
	Water Spray	Quattro	Quattro (Water Jet / Mist)	Quattro	Quattro	Quattro	
	Microfilter	•					
	Ergo Grip	•	•			•	•



DURABLE

A Stunningly Durable and Reliable Handpiece

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

COMFORT

The Ultimate in Handpieces The Result of Invaluable Clinical Feedback

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



Amazingly Silent Operation

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



Anti Heat System (Z95L, Z85L, Z84L)

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

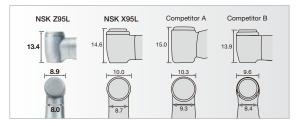
OUTSTANDING OPERABILITY

The Smallest Head

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

The Slimmest Neck

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



TECHNOLOGY & FUNCTION

Anti Heat System Our proprietary Anti Heat System

dramatically reduces heat generation to prevent burning. (With 295L/285L/284L)

DLC Coating

We have boosted anti-wear performance by coating the gear with special diamond like carbon. (Only in models with increasing gear ratios.)

DURAGRIP

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

- Microfilter

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

- Clean Head System

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

NSK TIMAX Z95

Amazing Silence and Minimal Vibration

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







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



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

135°c Autoclavable

59



M

Washable in the

thermodisinfector







Optic MODEL Z95L ORDER CODE C1034

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

NSK TI-MAX Z95L



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

1.5

Optic MODEL Z85L ORDER CODE C1062

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



Quattro Spray

Single Spray

Head size comparison Z85L offering extraordinary visibility and accessibility.

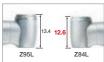


Quattro Spray

Optic MODEL Z84L ORDER CODE C1135

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

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Head size comparison Z84L offering extraordinary visibility and accessibility.

145

Washable in the 135°C Autoclavable Washable in the thermodisinfector



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 HSt TIMOT LIST 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.

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







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 Maxillarv Left Lateral Incisor's Cervical Area



Caries Removal from a Maxillarv Left Second Premolar on Palatal Side



Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar



2015 Edison Awards Gold Award Winner

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



Two-Way Spray Function

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

Nano series

Shorter, Perfectly Balanced

1.5

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.

NSK Ti-Max nano95LS

Features

Perfect Balance

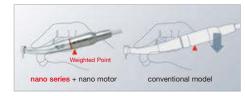
- Exceptionally Small Head and Slim Body
- Clear Visibility and Easy Access

Amazingly Quiet Operation

Perfect Balance

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

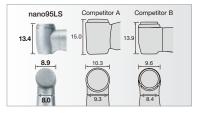
Reducing size and weight shifts the center of gravity to an optimal position, dramatically reducing fatigue during procedures and improving your fingertip dexterity.





Smaller and Slimmer

nano95LS has smaller head and slimmer neck dimensions.



Outstanding Durability

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

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





Optic MODEL nano65LS ORDER CODE H1048

1:1 Direct Drive • Single Spray • For HP / CA burs (ø2.35)* • Max Speed: 40,000 min⁻¹ *Need to insert the supplied bur stopper







Optic MODEL nano95LS ORDER CODE C1099

1:5 Increasing • Exceptional Durability • Quattro Spray
 • For FG burs (a1.6) • Ceramic Bearings
 • Microfilter • Anti Heat System • DLC Coating
 • Max Speed: 200,000 min⁻¹



Single Spray

Quattro Spray



Optic MODEL nano25LS ORDER CODE C1100

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



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

Washable in the thermodisinfector

135°C Autoclavable 555 up to 135°C



65





Anti Heat System
 Max Speed: 200,000 min⁻¹



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

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

A TI-Max X 25



11

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







67

Single Spray

Ti-Max X



Clean Head System

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



Ceramic Bearings

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





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





10:1 Reduction • Single Spray • For CA burs (ø2.35) Clean Head System
 Push Button Chuck • Max Speed: 4.000 min⁻¹



Prophylaxis Handpiece Ti-Max X57L 16:1 Optic MODEL X57L ORDER CODE C609 Special Dus Proof Non-Optic MODEL X57 ORDER CODE C619 16:1 Reduction • For Screw-in Cups and Brushes • 360° Rotation • w/o Spray



4:1 Reduction • Single Spray • For Profin / EVA Tips Vertical Reciprocating (Stroke Length 1.4 mm) Lamineer Tips not included • Max Speed: 10.000 min⁻¹

135°c Autoclavable

• Max Speed: 2,500 min-



Please keep the rotation speed with your file

manufactures designate. (X35L/X35)

Autoclavable sss up to 135°C Washable in the thermodisinfector





Quattro Spray

TI-Max X95EX

Non-Optic MODEL X95EX ORDER CODE C1072

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

5·Max

Incomparable Powerful Cutting and Superb Grip

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



4:1 Reduction • Single Spray • For CA burs (ø2.35) • Max Speed: 10.000 min-1





FX series

Integrated Handpieces : Ergonomic : Functional : Reliable

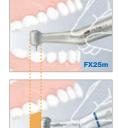
After 35 years of outstanding global success, the classic NSK EX handpiece series has now evolved into a new stage. - NSK FX handpiece series - a modernization of the EX series. The traditional NSK simple design technology, functional reliability, durability, and cost effective pricing still remains,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

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

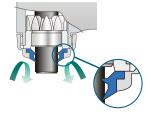
The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings. (FX25m / FX15m / FX65m)



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.





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.



FX series BASIC

General Applications Handpiece

External Water Spray

1:1 Direct Drive



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





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(FX25m, FX15m)







Ж Washable in the thermodisinfector



EX Series BASIC

Heads for General Application Non-Optic External Water Spray



- 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

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Max Speed: 3,000 min⁻¹

Heads for Prophylaxis Application Non-Optic



· For screw-in cups and brushes Max Speed: 5.000 min⁻¹



• For snap-on cups

• Max Speed: 5,000 min⁻¹

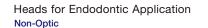


FPB-Y. FFB-Y. NRS2-Y. AR-Y (S), AR-Y (K) and

EVA-Y can be washed in the thermodisinfector.

• For Eva tips • Vertical Reciprocating

(Stroke Length 1.4 mm) Max Speed: 10,000 min⁻¹



MODEL MP-Y ORDER CODE C547 Miniature Head Push Button Chuck

Max Speed: 20.000 min⁻¹

· Connection for Apex locator (For long shank)

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



Shanks



- MODEL EC-30 ORDER CODE C100008 MODEL EC-30M ORDER CODE C100007
 - 1:1 Direct Drive



MODEL ER4 ORDER CODE C634 M MODEL ER4M ORDER CODE C634002 • 4:1 Reduction



 Connection for Apex locator (For short shank) Miniature Head
 Push Button Chuck

• Max Speed: 20,000 min-1

MODEL MPAS-Y ORDER CODE C882



MODEL TEQ-Y ORDER CODE C849

• 80° Twist • For engine files (ø2.35) Push Button Chuck Max Speed: 4.000 min⁻¹



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



MODEL ER16 ORDER CODE C636 • 16:1 Reduction



MODEL ER64 ORDER CODE C637 • 64:1 Reduction

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



MODEL ER10 ORDER CODE C635

10:1 Reduction



External Water Spray 1:1 Direct Drive



 Non-Optic
 MODEL
 NAC-EC
 ORDER CODE
 Y110148

 • For CA burs (a2.35)
 • Latch type
 • Max Speed: 30,000 min⁻¹



 MODEL Spray Nozzle
 ORDER CODE C032701

 • For NAC (Optional)









ISOE-LUX Light Probe



CONTRA-ANGLES