

Printer and the second second

### CONTRA-ANGLES

Grade



BASIC

PREMIUM SPECIAL SPECIAL ADVANCED ADVANCED

Body	Titanium	Titanium	Titanium	Titanium	Stainless	Stainless
DURAGRIP	•	•	•			
DURACOAT				•		
Anti Heat System	•	•	•	•		
Ceramic Bearings	•	•	•	•	•	
Cellular Glass Optics	•	٠	•	٠	•	
Clean Head System	•	•	•	•	•	٠
Push Button Chuck	•	•	•	•	•	٠
Water Spray	Quattro	Quattro	Quattro	Quattro	Quattro	
Two-Way Spray Function	•	•				
Microfilter	•	•	•	•		
Ergo Grip	•	•	•	•	•	•

# 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.

### 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.

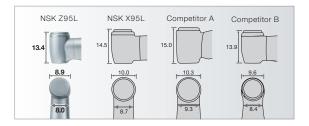
### OUTSTANDING OPERABILITY

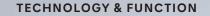
### The Smallest Head

The head is angled  $2^{\circ}$  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.





### Anti Heat System

Our proprietary Anti Heat System dramatically reduces heat generation to prevent burning. (With 295L/285L/284L)

### 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.

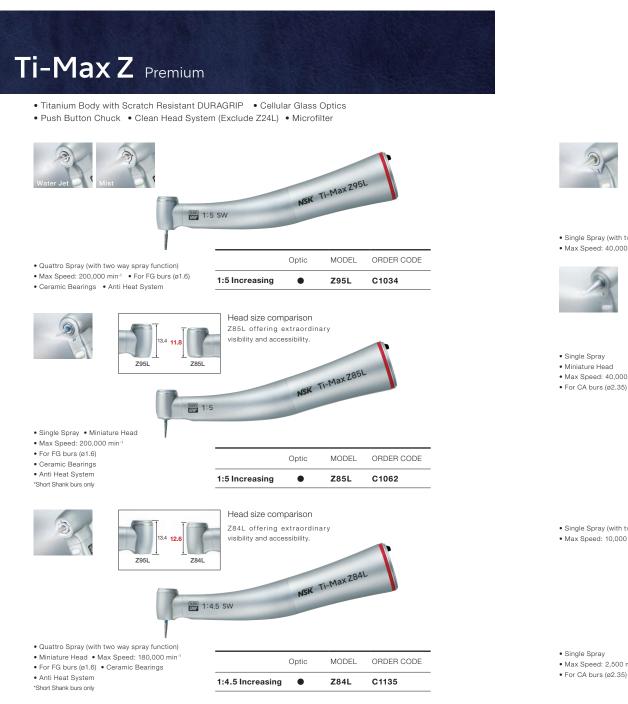
### - Clean Head System

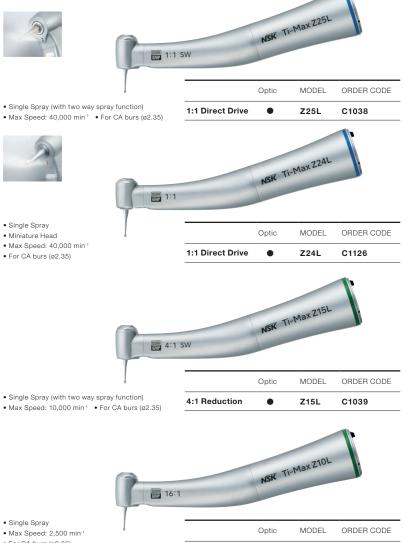
The patented NSK Clean Head System automatically keeps oral fluids and other contaminants out of the instrument head, prolonging the life of the bearing and ensuring more hygienic treatment.

Amazing Silence and Minimal Vibration The marriage of micro-precision parts and gears has lowered noise and

vibration even more.

CONTRA-ANGLES





16:1 Reduction

•

Washable in the

thermodisinfector

Z10L

C1040

57

Autoclavable up to 135°C

# 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



### **Two-Way Spray Function**

1:4.2 Increasing

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.



Optic

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- 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<sup>-1</sup>

MODEL

Z45L

ORDER CODE

C1064

# 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.

### Perfect Balance

NSK's nano series preserves the high performance NSK contraangles 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 airturbine.

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

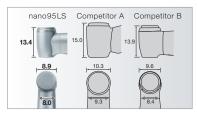
conventional model



### Smaller and Slimmer

nano series + nano motor

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.



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





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

1:5 Increasing	٠	nano95LS	C1099
	Optic	MODEL	ORDER CODE





Optic

.

1:1 Direct Drive

4:1

MODEL

nano25LS C1100

ORDER CODE

- Single Spray
- For CA burs (ø2.35)
- Max Speed: 40,000 min<sup>-1</sup>



Single Spray

• For CA burs (ø2.35)

• Max Speed: 10,000 min<sup>-1</sup>

Reduction	٠	nano15LS	C1101
	Optic	MODEL	ORDER CODE





Single Spray
<ul> <li>For HP / CA burs (ø2.35)*</li> </ul>
<ul> <li>Max Speed: 40,000 min<sup>-1</sup></li> </ul>
*Need to insert the supplied bur stopper

	Optic	MODEL	ORDER CODE
1:1 Direct Drive	•	nano65LS	6 H1048

Autoclavable up to 135°C Ti-Max X

Advanced

- Titanium Body with Scratch Resistant DURACOAT Cellular Glass Optics
- Clean Head System 
   Push Button Chuck (Exclude X65L / X65)
- Microfilter (Exclude 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	٠	X95L	C600
1.5 Increasing	-	X95	C610



 Single Spray • For CA burs (ø2.35) • Max Speed: 40,000 min<sup>-1</sup>

Single Spray

Single Spray

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







Autoclavable up to 135°C

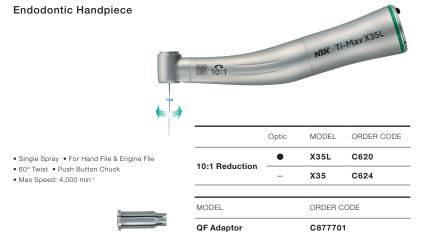
### CONTRA-ANGLES

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

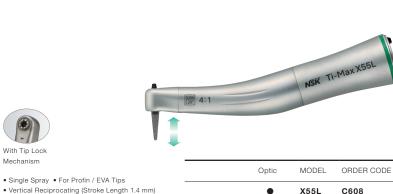


• Single Spray • For CA burs (ø2.35) • Max Speed: 4,000 min-1

10:1 Reduction		X12	C616
	•	X12L	C606
	Optic	MODEL	ORDER CODE





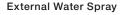


	optic	WODEL	ONDERIOOL
4:1 Reduction	•	X55L	C608
4:1 Reduction	-	X55	C618

Autoclavable up to 135°C

<ul> <li>Plea</li> </ul>	se keep the rotation speed with yo	our life
man	ufactures designate. (X35L/X35)	

Washable in the thermodisinfector 67







Ceramic Bearings
<ul> <li>Quattro Spray</li> </ul>

• For FG burs (ø1.6) • Max Speed: 200,000 min-1

Optic MODEL ORDER CODE	1:5 Increasing	_	X95EX	C1072
		Optic	MODEL	ORDER CODE

 Lamineer Tips not included • Max Speed: 10,000 min-1

With Tip Lock Mechanism

• Max Speed: 2,500 min-1

Autoclavable up to 135°C

Washable in the

thermodisinfector

66

Advanced

S-Max M

Stainless Steel Body 
 Cellular Glass Optics 
 Clean Head System
 Push Button Chuck (Exclude M65)





Quattro Spray
For FG burs (ø1.6)
Ceramic Bearings

Anti Heat System

• Max Speed: 200,000 min-1





1.1 Direct Drive	_	M25	C1027
1:1 Direct Drive	٠	M25L	C1024
	Optic	MODEL	ORDER CODE

NSK S-Max M25L

Single Spray
For CA burs (ø2.35)
Max Speed: 40,000 min<sup>-1</sup>

1:1 Direct Drive - M25 C102

Single Spray
For CA burs (ø2.35)
Max Speed: 10,000 min<sup>-1</sup>

Optic MODEL
4:1 Reduction
M15L

4:1

Straight Handpiece



Single Spray • For HP burs (ø2.35)
For CA burs (ø2.35)\*
Max Speed: 40,000 min<sup>-1</sup>
\*Need to insert the supplied bur stopper

ORDER CODE

C1025

### Washable in the thermodisinfector Washable up to 135°C

69

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.

# **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).



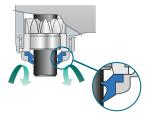
### **Clean Head System**

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 / FX55m)

### 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.







### **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<sup>-1</sup>

	MODEL	ORDER CODE
1:1 Direct Drive	FX25m	C1052001



• For CA burs (ø2.35) · Latch type

• For CA burs (ø2.35) Push Button Chuck

 Stainless Steel Body Clean Head System

External Water Spray

• Max Speed: 10,000 min<sup>-1</sup>

Ball Bearing

• Max Speed: 30,000 min<sup>-1</sup>



Washable in the thermodisinfector

(FX25m, FX15m)

Autoclavable up to 135°C



- Prophylaxis Handpiece NSK FX57m 4:1 CE: Marine Marine · For screw-in cups and brushes Stainless Steel Body MODEL ORDER CODE • 360° Rotation • w/o Spray · Paste Defense System 4:1 Reduction FX57m C1054001 • Max Speed: 5,000 min<sup>-1</sup> · @ NSK FX65m1+1 concernan Straight Handpiece
- For HP burs (ø2.35) Stainless Steel Body Clean Head System External Water Spray • Max Speed: 40,000 min<sup>-1</sup>



1:1 Direct Drive FX65m

MODEL

ORDER CODE

H1014001



### Heads for General Application

MODEL

FPB-Y

MODEL

MODEL

NBBW-Y



### • External Water Spray • Max Speed: 40,000 min-1 MODEL ORDER CODE NAC-Y C032002

• For CA burs (ø2.35) • Clean Head System

Push Button Chuck 
 Ball Bearing

ORDER CODE

ORDER CODE

ORDER CODE

C211

C875

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



### BB-Y C037

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

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

### Heads for Prophylaxis Application



NM-Y	C247	
• Miniature Head • Latch type • For CA burs (ø2.35)		
		• Max Speed: 30,000 min <sup>-1</sup>
MODEL	ORDER CODE	
FFB-Y	C884	
• For FG burs (ø1.6	6) • Clean Head System	
,	6) • Clean Head System uck • External Water Spray	
• Push Button Chu	uck • External Water Spray	
• Push Button Chu	uck • External Water Spray	
Push Button Chu     Max Speed: 40,0	uck • External Water Spray 000 min <sup>-1</sup>	
Push Button Chu     Max Speed: 40,0 MODEL NRS2-Y	uck • External Water Spray 200 min <sup>-1</sup> ORDER CODE	
Push Button Chu     Max Speed: 40,0 MODEL  NRS2-Y      10:1 Reduction	ook • External Water Spray 000 min <sup>-1</sup> ORDER CODE C549	

### MODEL ORDER CODE EVA-Y C235 · For Eva tips · Vertical Reciprocating (Stroke

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

|淅|

Length 1.4 mm) • Max Speed: 10,000 min-1

135°C Autoclavable

up to 135°C

### Heads for Endodontic Application



MODEL	ORDER CODE	
TEQ-Y	C849	
<ul> <li>80° Twist • For engine files (ø2.35)</li> <li>Push Button Chuck</li> <li>Max Speed: 4,000 min<sup>-1</sup></li> </ul>		
<ul> <li>Max Speed: 4,00</li> </ul>	0 min <sup>-1</sup>	
• Max Speed: 4,00 MODEL		
	0 min <sup>-1</sup> ORDER CODE <b>C837</b>	







ORDER CODE

ORDER CODE

C547

C548

	<ul> <li>Push Button Chuck</li> <li>Max Speed: 4,000 min<sup>-1</sup></li> </ul>		
	MODEL	ORDER CO	
	TEP-Y	C837	
T	<ul> <li>60° Twist</li> <li>For hance</li> <li>Push Button Chuck</li> <li>Max Speed: 4,000 m</li> </ul>	<ul> <li>External Water S</li> </ul>	

### Shanks



MODEL	ORDER CODE
ER10	C635
10:1 Reduction	
MODEL	ORDER CODE
MODEL	ORDER CODE
MODEL	ORDER CODE



## EX series Basic

### WITH CAREER • For HP burs (ø2.35) CE Clean Head System External Water Spray • Max Speed: 40,000 min<sup>-1</sup> MODEL ORDER CODE • For CA burs (ø2.35) Latch type 1:1 Direct Drive NAC-EC Y110148 External Water Spray • Max Speed: 30,000 min-1 MODEL ORDER CODE Spray Nozzle C032701 For NAC (Optional)

### Straight Handpieces









## isoE-LUX Light Probe



MODEL

isoE-LUX

ORDER CODE

Z1265

Optic



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