Which handpiece?

Choose the handpiece that matches your hand.

<table>
<thead>
<tr>
<th>Ti-Max Z45L</th>
<th>Ti-Max Z45L</th>
<th>Ti-Max X12L</th>
<th>S-Max M95L</th>
<th>FX series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rank</td>
<td>Premium</td>
<td>Advanced</td>
<td>Advanced</td>
<td>Basic</td>
</tr>
<tr>
<td>Head Size</td>
<td>Ø9.9 x H13.4 mm (Super mini)</td>
<td>Ø9.9 x H14.9 mm</td>
<td>Ø9.9 x H12.3 mm</td>
<td>Ø9.0 x H14.6 mm</td>
</tr>
<tr>
<td>Body</td>
<td>Titanium</td>
<td>Titanium</td>
<td>Stainless</td>
<td>Stainless</td>
</tr>
<tr>
<td>DURAGRP</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>DURACOAT</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>DLC Coating</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Anti Heat System</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ceramic Bearings</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cellular Glass Optics</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Clean Head System</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Push Button Chuck</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Water Spray</td>
<td>Quattro</td>
<td>Quattro (Water Jet / Mist)</td>
<td>Single</td>
<td>Quattro</td>
</tr>
<tr>
<td>Microfilter</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ergo Grip</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
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

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

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

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

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

**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-precise parts and gears has lowered noise and vibration even more.
Ti-Max Z45L

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.

Two-Way Spray Function

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

Superior Accessibility Enables a Vast Variety of Clinical Applications

Sectioning a Mandibular Left Impacted Third Molar

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

Caries Removal from Maxillary Left Second Premolar on Palatal Side

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

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

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

Clarifying the Root Canal Orifice of a Mandibular Right Second Premolar

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

**Endodontic Handpiece**

- Single Spray
- 10:1 Reduction
- Max Speed: 40,000 min⁻¹

*Need to insert the supplied bur stopper*

**Straight Handpiece**

- Single Spray
- 10:1 Reduction
- Max Speed: 4,000 min⁻¹

**Ti-Max X**

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

- For HP burs (ø2.35)

---

Please keep the rotation speed with your file manufactures designate.
Ti-Max X

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

Prophylaxis Handpieces

With Tip Lock Mechanism

Optic
- Model: X55L
- Order Code: C608

Non-Optic
- Model: X55
- Order Code: C618

4:1 Reduction
- Single Spray
- For Profin / EVA Tips
- Vertical Reciprocating (Stroke Length 1.4mm)
- Lineret Tip not included
- Max Speed: 10,000 min⁻¹

Special dust proof

Optic
- Model: X57L
- Order Code: C609

Non-Optic
- Model: X57
- Order Code: C619

16:1 Reduction
- For Screw-in Cups and Brushes
- 360° Rotation w/o Spray
- Max Speed: 2,500 min⁻¹

Washable in the thermodisinfector
Autoclavable up to 135°C
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.

**S-Max M**

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

**Straight Handpiece**

**Quattro Spray**

- Optic
  - Model: M95L
  - Order Code: CI023
- Non-Optic
  - Model: M95
  - Order Code: CI026
- 1:5 Increasing
  - Single Spray
  - For FG burs (ø1.6)
  - Ceramic Bearings
  - Max Speed: 200,000 min⁻¹

**Optic**

- Model: M25L
  - Order Code: C1024
- Non-Optic
  - Model: M25
  - Order Code: C1027
- 1:1 Direct Drive
  - Single Spray
  - For CA burs (ø2.35)
  - Max Speed: 40,000 min⁻¹

**Optic**

- Model: M15L
  - Order Code: C1025
- Non-Optic
  - Model: M15
  - Order Code: C1028
- 4:1 Reduction
  - Single Spray
  - For CA burs (ø2.35)
  - Max Speed: 10,000 min⁻¹

**Non-Optic**

- Model: M65
  - Order Code: H1008
- 1:1 Direct Drive
  - Single Spray
  - For HP burs (ø2.35)
  - For CA burs (ø2.35)
  - Max Speed: 40,000 min⁻¹
  - Need to insert the supplied bur stopper

**15.5.3 4:57:00 PM**
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.

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**

**General Applications Handpiece**

*External Water Spray*

1:1 Direct Drive

**Non-Optic**

- **MODEL**: FX25m
- **ORDER CODE**: C1052001
- For CA burs (ø2.35)
- Push Button Chuck
- Stainless Steel Body
- Clean Head System
- Ball Bearing
- Max Speed: 40,000 min⁻¹

1:1 Direct Drive

**Non-Optic**

- **MODEL**: FX22
- **ORDER CODE**: C1129001
- For CA burs (ø2.35)
- Latch type
- Max Speed: 30,000 min⁻¹

4:1 Reduction

**Non-Optic**

- **MODEL**: FX15m
- **ORDER CODE**: C1053001
- For CA burs (ø2.35)
- Push Button Chuck
- Stainless Steel Body
- Clean Head System
- Ball Bearing
- Max Speed: 10,000 min⁻¹

**Endodontic Handpiece**

*External Water Spray*

16:1 Reduction

**Non-Optic**

- **MODEL**: FX75m
- **ORDER CODE**: C1055001
- Miniature Head
- For engine files
- Stainless Steel Body
- 360° Rotation
- Push Button Chuck
- Max Speed: 1,250 min⁻¹

**Prophylaxis Handpiece**

4:1 Reduction

**Non-Optic**

- **MODEL**: FX57m
- **ORDER CODE**: C1054001
- For screw-in cups and brushes
- Stainless Steel Body
- 360° Rotation
- w/o Spray
- Paste Defense System
- Max Speed: 5,000 min⁻¹

**Straight Handpiece**

1:1 Direct Drive

**Non-Optic**

- **MODEL**: FX65m
- **ORDER CODE**: C1014001
- For HP burs (ø2.35)
- Stainless Steel Body
- Clean Head System
- Max Speed: 40,000 min⁻¹

**Spray Nozzle**

**Order Code**: H019711

- For FX65m (Optional)

**Washable in the thermodisinfector (FX25m, FX15m)**

**Autoclavable up to 135°C**

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## EX Series Heads & Handpieces

### Heads for General Application

#### Non-Optic

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPB-Y</td>
<td>C875</td>
<td>For CA burs (ø2.35) • Clean Head System</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Push Button Chuck • Ball Bearing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 40,000 min⁻¹</td>
</tr>
<tr>
<td>NAC-Y</td>
<td>C032002</td>
<td>For CA burs (ø2.35) • Latch type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ball Bearing • Max Speed: 30,000 min⁻¹</td>
</tr>
<tr>
<td>BB-Y</td>
<td>C037</td>
<td>For CA burs (ø2.35) • Latch type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ball Bearing • Max Speed: 40,000 min⁻¹</td>
</tr>
<tr>
<td>NBBW-Y</td>
<td>C211</td>
<td>For CA burs (ø2.35) • Latch type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ball Bearing • Max Speed: 30,000 min⁻¹</td>
</tr>
<tr>
<td>NM-Y</td>
<td>C247</td>
<td>Miniature Head • Latch type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• For CA burs (ø2.35) • Max Speed: 30,000 min⁻¹</td>
</tr>
<tr>
<td>FFB-Y</td>
<td>C884</td>
<td>For FG burs (ø1.6) • Clean Head System</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Push Button Chuck • Max Speed: 40,000 min⁻¹</td>
</tr>
<tr>
<td>NRS2-Y</td>
<td>C549</td>
<td>10:1 Reduction • For CA burs (ø2.35)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Clean Head System • Push Button Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 3,000 min⁻¹</td>
</tr>
</tbody>
</table>

### Heads for Prophylaxis Application

#### Non-Optic

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR-Y (S)</td>
<td>C187</td>
<td>For screw-in cups and brushes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 5,000 min⁻¹</td>
</tr>
<tr>
<td>AR-Y (K)</td>
<td>C188</td>
<td>For snap-on cups</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 5,000 min⁻¹</td>
</tr>
<tr>
<td>EVA-Y</td>
<td>C235</td>
<td>For Eva tips • Vertical Reciprocating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Stroke Length 1.4mm) • Max Speed: 10,000 min⁻¹</td>
</tr>
</tbody>
</table>

### Heads for Endodontic Application

#### Non-Optic

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-Y</td>
<td>C547</td>
<td>Connection for Apex locator (For long shank)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Miniature Head • Push Button Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 20,000 min⁻¹</td>
</tr>
<tr>
<td>MPA-Y</td>
<td>C548</td>
<td>Connection for Apex locator (For short shank)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Miniature Head • Push Button Chuck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max Speed: 20,000 min⁻¹</td>
</tr>
<tr>
<td>MPAS-Y</td>
<td>C882</td>
<td>1:1 Direct Drive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• For CA burs (ø2.35) • Latch type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ball Bearing • Max Speed: 4,000 min⁻¹</td>
</tr>
<tr>
<td>TEO-Y</td>
<td>C849</td>
<td>60° Twist • For engine files (ø2.35)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Push Button Chuck • Max Speed: 4,000 min⁻¹</td>
</tr>
<tr>
<td>TEP-Y</td>
<td>C837</td>
<td>60° Twist • For hand files</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Push Button Chuck • Max Speed: 4,000 min⁻¹</td>
</tr>
<tr>
<td>ER64M</td>
<td>C637002</td>
<td>64:1 Reduction</td>
</tr>
</tbody>
</table>

### Handpieces

<table>
<thead>
<tr>
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<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM</td>
<td>C100007</td>
<td>1:1 Direct Drive</td>
</tr>
<tr>
<td>ER4M</td>
<td>C634002</td>
<td>4:1 Reduction</td>
</tr>
<tr>
<td>ER10M</td>
<td>C635002</td>
<td>10:1 Reduction</td>
</tr>
<tr>
<td>ER16M</td>
<td>C636002</td>
<td>16:1 Reduction</td>
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<tr>
<td>ER64M</td>
<td>C637002</td>
<td>64:1 Reduction</td>
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</table>

### Spray Nozzle

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray Nozzle</td>
<td>C032701</td>
<td>For NAC, BB, FPB, FFB, TEP (Optional)</td>
</tr>
<tr>
<td>Spray Nozzle</td>
<td>C039701</td>
<td>For NM (Optional)</td>
</tr>
</tbody>
</table>

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