Ti-Max X Series

CONTRA-ANGLES

NSK

NSK

AIR TURBINES

Ti-Max X Series

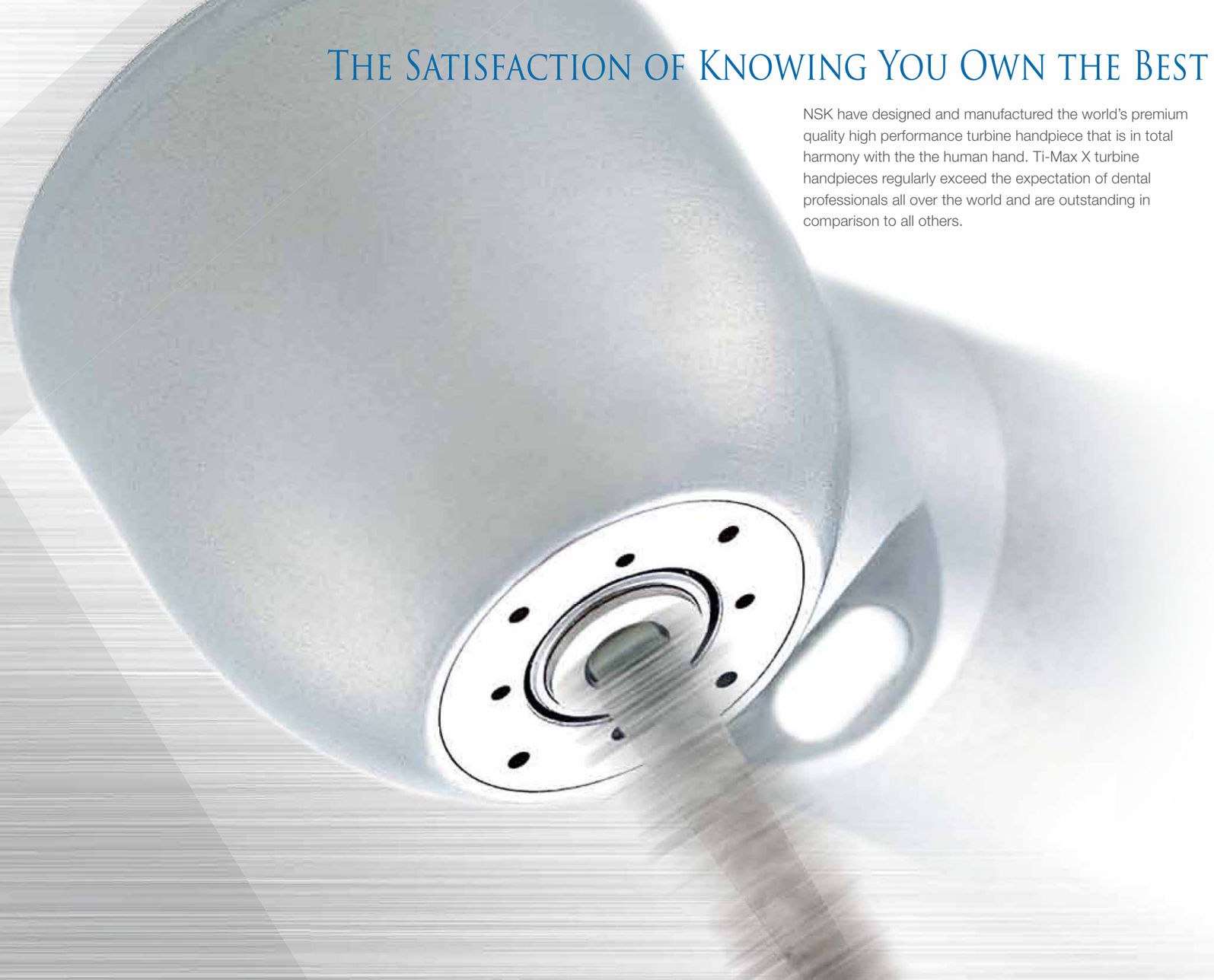
Ti-Max X

eXtreme Premium Series

Air Turbines

The Satisfaction of Knowing You Own the Best

NSK have designed and manufactured the world's premium quality high performance turbine handpiece that is in total harmony with the the human hand. Ti-Max X turbine handpieces regularly exceed the expectation of dental professionals all over the world and are outstanding in comparison to all others.



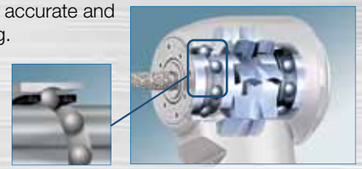
Ti-Max X

eXtreme Premium Series

Air Turbines

NSK "ISB" Integrated Shaft Bearings

In the NSK ISB, the shaft itself forms the inner race. Unification of the shaft and the inner race provide higher rigidity which in reduces vibration and guarantees more accurate and consistent cutting.



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.

NSK Dual Air Jet

The NSK Dual Air Jet turbine generates up to an unrivalled 22W of power. Two narrow air jets propel the turbine blades which catch the air stream more effectively giving more rotating momentum.

Quattro Water Spray & Cellular Glass Optics

The NSK Quattro Water Spray effectively cools the entire operating field whilst the cellular glass optic rod delivers light exactly where it is needed.

Pressure Regulating Valve

The internal pressure regulating valve maintains a stable supply of pressure to the handpiece head section, preventing premature deterioration of the rotor due to excessive rotational pressure.

Solid Titanium Body

Titanium is 30% lighter than stainless steel, more durable and corrosion resistant. The reduced weight and well balanced shape give an unmatched tactile sense.

NSK DURACOAT

DURACOAT, NSK's latest surface enhancement technology, takes advantage of the non allergic and biocompatible properties of titanium to further improve durability. DURACOAT creates a smooth, scratch resistant surface which is comfortable to hold.

LED

PTL-CL-LED

- **Stable**
- **Durable**
- **Clearer**

Just by changing your coupling for a NSK LED coupling you can introduce the latest technology to your treatment and benefit from unmatched illumination.

LED Couplings	Air Turbines
PTL-CL-LED	**M600WLED**
PTL-CL-LED III	**M600BLED**
KCL-LED	
SCL-LED	

Ti-Max X

eXtreme Premium Series

Air Turbines

Connect to NSK Couplings

Miniature Head
Power: 17 W
Speed: 390,000 - 450,000 min^{-1}
Head Size: ø10.3 x H11.7 mm
*Short shank burs only

Optic MODEL: **X500L** ORDER CODE: **P495**
Non-Optic MODEL: **X500** ORDER CODE: **P861**

Standard Head
Power: 21 W
Speed: 380,000 - 440,000 min^{-1}
Head Size: ø 11.2 x H13.6 mm

Optic MODEL: **X600L** ORDER CODE: **P496**
Non-Optic MODEL: **X600** ORDER CODE: **P862**

Torque Head
Power: 22 W
Speed: 300,000 - 360,000 min^{-1}
Head Size: ø13.2 x H13.6 mm

Optic MODEL: **X700L** ORDER CODE: **P497**
Non-Optic MODEL: **X700** ORDER CODE: **P863**

Washable in the thermodisinfector

135°C Autoclavable up to 135°C

Ti-Max X Connect Direct to KaVo® MULTIflex® LUX

Miniature Head
Power: 16 W
Speed: 390,000 - 450,000 min-1
Head Size: ø10.3 x H11.7 mm
*Short shank burs only

Optic MODEL: **X500KL** ORDER CODE: **P857**

Standard Head
Power: 18 W
Speed: 380,000 - 440,000 min-1
Head Size: ø 11.2 x H13.6 mm

Optic MODEL: **X600KL** ORDER CODE: **P858**

Torque Head
Power: 19 W
Speed: 300,000 - 360,000 min-1
Head Size: ø13.2 x H13.6 mm

Optic MODEL: **X700KL** ORDER CODE: **P859**

MODEL: **KCL-LED** ORDER CODE: **P1005600**
• For KaVo® MULTIflex® LUX (water volume adjuster)

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

KaVo® and MULTIflex® LUX are registered trademarks of Kaltenbach & Voigt GmbH & Co.

Connect Direct to Sirona®, W&H®, Bien-Air® Couplings

Miniature Head : Power : 16 W, Speed: 390,000 - 450,000 min-1, Head Size : ø10.3 x H11.7 mm *Short shank burs only
Standard Head : Power : 18 W, Speed: 380,000 - 440,000 min-1, Head Size : ø11.2 x H13.6 mm
Torque Head : Power : 19 W, Speed: 300,000 - 360,000 min-1, Head Size : ø13.2 x H13.6 mm

MODEL: **SCL-LED**
ORDER CODE: **P1009600**
• For Sirona® Joint with optical (water volume adjuster)

Miniature: Optic MODEL: **X500SL** ORDER CODE: **P840**
Standard: Optic MODEL: **X600SL** ORDER CODE: **P841**
Torque: Optic MODEL: **X700SL** ORDER CODE: **P842**

W&H® Roto Quick

Standard: Optic MODEL: **X600WLED** ORDER CODE: **P1101001** LED

Bien-Air® Unifix®

Standard: Optic MODEL: **X600BLED** ORDER CODE: **P1098001** LED

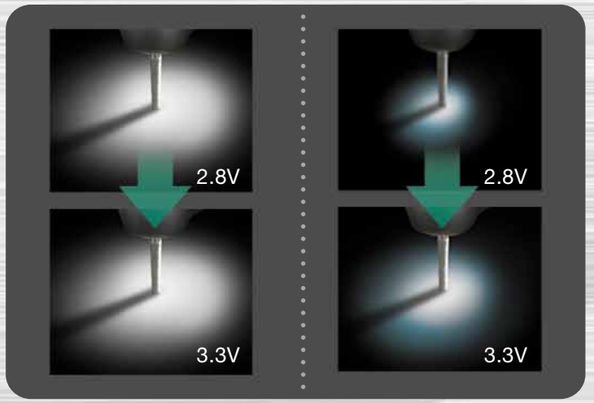
Washable in the thermodisinfector
135°C Autoclavable up to 135°C

Sirona® is a registered trademark of Sirona Dental Systems GmbH.
W&H® is a registered trademark of W&H Dentalwerk Bürmoos GmbH.
Bien-Air® and Unifix® are registered trademarks of Bien-Air Dental S.A.

LED

Concentrated NSK LED light delivers clearer visibility through your existing turbines

By changing your existing coupling for a NSK LED coupling you can introduce the latest technology to your treatment and benefit from unmatched illumination economically.



NSK LED Coupling

Bulb Exchange system
(Halogen Bulb → LED Bulb)

Stable
PCB controls input voltage from unit chairs and provides stable illumination.

Durable
LED light sources are longer lasting and more durable than halogen bulbs.

Clearer
LEDs generate natural daylight quality light which assures clearer vision
when compared to halogen light.

LED Couplings • Titanium Coating

MODEL: **PTL-CL-LED**
ORDER CODE: **P1001600**
• For NSK Joint with optical

MODEL: **PTL-CL-LED III**
ORDER CODE: **P1001601**
• For NSK Joint with optical (water volume adjuster)

MODEL: **KCL-LED**
ORDER CODE: **P1005600**
• For KaVo® MULTIflex® LUX (water volume adjuster)

MODEL: **SCL-LED**
ORDER CODE: **P1009600**
• For Sirona® Joint with optical (water volume adjuster)

Ti-Max X

eXtreme Premium Series

Air Turbines

Contra-Angles

eXtreme Premium Series

Ti-Max X

Ti-Max X 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)
- 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
- Max Speed: 2,500 min^{-1}

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

Straight Handpiece

Optic MODEL: **X65L** ORDER CODE: **H273**

1:1 Direct Drive
- Single Spray
- For HP burs (ø2.35)
- For CA burs (ø2.35)*

*Need to insert the supplied bur stopper
- Max Speed: 40,000 min^{-1}

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

Ti-Max X

Single Water Spray

Optic MODEL: **X85L** ORDER CODE: **C604**
Non-Optic MODEL: **X85** ORDER CODE: **C614**
1:5 Increasing
• Single Spray • Miniature Head
• For FG burs (ø1.6) • Max Speed: 200,000 min^{-1}
*Short Shank burs only

Optic MODEL: **X20L** ORDER CODE: **C605**
Non-Optic MODEL: **X20** ORDER CODE: **C615**
1:1 Direct Drive
• Single Spray • For FG burs (ø1.6)
• Max Speed: 40,000 min^{-1}

Optic MODEL: **X10L** ORDER CODE: **C603**
Non-Optic MODEL: **X10** ORDER CODE: **C613**
16:1 Reduction
• Single Spray • For CA burs (ø2.35)
• Max Speed: 2,500 min^{-1}

Optic MODEL: **X12L** ORDER CODE: **C606**
Non-Optic MODEL: **X12** ORDER CODE: **C616**
10:1 Reduction
• Single Spray • For CA burs (ø2.35)
• Max Speed: 4,000 min^{-1}

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

Endodontic Handpieces

QF Adaptor included
Suitable for both hand and engine files to give you greater flexibility and cost-effectiveness

Optic MODEL: **X35L** ORDER CODE: **C620**
Non-Optic MODEL: **X35** ORDER CODE: **C624**
10:1 Reduction
• Single Spray • For Hand File & Engine File
• 60° Twist • Max Speed: 4,000 min^{-1}

Optic MODEL: **X70L** ORDER CODE: **C622**
Non-Optic MODEL: **X70** ORDER CODE: **C626**
64:1 Reduction
• Single Spray • For Ni-Ti File • 360° Rotation
• Max Speed: 300min^{-1}

Optic MODEL: **X75L** ORDER CODE: **C623**
Non-Optic MODEL: **X75** ORDER CODE: **C627**
128:1 Reduction
• Single Spray • For Ni-Ti File • 360° Rotation
• Max Speed: 300min^{-1}

■ *Please keep the rotation speed with your file manufactures designate.*

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

Ti-Max X

eXtreme Premium Series

Contra-angles

Quattro Spray

Optic MODEL: **X95L** ORDER CODE: **C600**
Non-Optic MODEL: **X95** ORDER CODE: **C610**

1:5 Increasing
- Quattro Spray • For FG burs (ø1.6)
- 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^{-1}

Optic MODEL: **X15L** ORDER CODE: **C602**
Non-Optic MODEL: **X15** ORDER CODE: **C612**

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

Washable in the thermodisinfector

135°C Autoclavable up to 135°C

Ti-Max X

eXtreme Premium Series

CONTRA-ANGLES

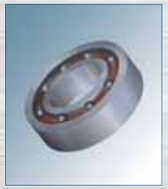
Quiet and no vibration

NSK ultra-precision micro machining technology know-how has been applied to design an internal gearing system that remarkably reduces noise and vibration to the lowest level resulting in improved comfort for patients and clinicians.

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 / X85L / X85)

Solid Titanium Body

Titanium is 30% lighter than stainless steel, more durable and corrosion resistant. The reduced weight and well balanced shape give an unmatched tactile sense.

Quattro Water Spray & Cellular Glass Optics

The NSK Quattro Water Spray effectively cools the entire operating field whilst the cellular glass optic rod delivers light exactly where it is needed. (Quattro Water Spray: X95L / X95)

NSK DURACOAT

DURACOAT, NSK's latest surface enhancement technology, takes advantage of the non allergic and biocompatible properties of titanium to further improve durability. DURACOAT creates a smooth, scratch resistant surface which is comfortable to hold.

Ti-Max X

eXtreme Premium Series

CONTRA-ANGLES

Specifications are subject to change without notice. 2011.3

FEEL THE SATISFACTION OF X SERIES PERFORMANCE

NSK X Series contra-angles feature the latest technology combined with elegant yet ergonomic design. X Series contra-angles have been designed without compromise paying attention to every last detail. Best possible access to the operating field and maximum visibility were the most important criteria during the design process of the instrument body. Unrivalled reliability and superior operator and patient comfort reflect all the expertise which has been built into each and every model of the NSK Ti-Max X Series.

NSK www.nsk-inc.com

Powerful Partners®