

solid titanium handpieces



NSK

Expect Perfection®



SLIM LINE

- Smart design
- Smallest head & Ultra Slim neck
- Excellent operator dexterity
- Evolution of Ti-Max

... Ti series.



Powerful Partners®



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Expect Perfection®

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SLIM LINE

Smart Design

The World's Smallest Head and Slimmest Neck in its class

NSK Ti-Max Ti Series offers the smallest head and the slimmest neck in its class. These design features result in greater treatment site visibility for high precision and safe treatment procedures.

NSK Ti-Max solid Titanium bodies are lightweight, very well balanced, and offer a high degree of operator control and comfort. Solid Titanium handpieces are extremely durable and will not discolor, even after repeated sterilization.

NSK Ti-Max Ti series handpieces are available in a comprehensive range for multiple applications including conservative procedures, endodontics, prosthetics, prophylaxis and orthodontics.

NSK micro-machining technology results in Ti-Max handpieces with very low noise and vibration levels, and which offer increased patient comfort.

NSK Ti-Max Ti handpiece series supports dentists by providing higher precision and efficiency levels, plus a safe and friendly treatment environment for patients.

NSK Ti-Max Ti handpiece series

— Powerful Partners®

Ideal weight and balance

Excellent visibility due to small head and slim neck

The texture of Titanium provides a firm, tactile grip, even in gloved hands.



SOLID TITANIUM

The Cutting Edge Material For The New Ti-Max Ti Handpiece Range

The World's First Solid Titanium Handpiece Body*



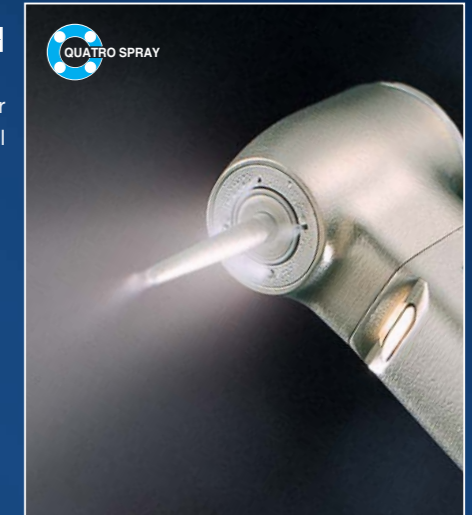
Ti-Max handpieces offer the perfect weight and balance for all clinicians

The very nature of Titanium allows for a firm, tactile grip even when held in gloved hands. By selecting Titanium NSK can produce handpieces that are lighter in weight, yet stronger and more durable than other handpieces. 30% lighter than stainless steel, the Ti-Max Titanium body, combined with exceptional balance, results in a handpiece that can significantly reduce hand and wrist fatigue caused by prolonged and complex clinical procedures.



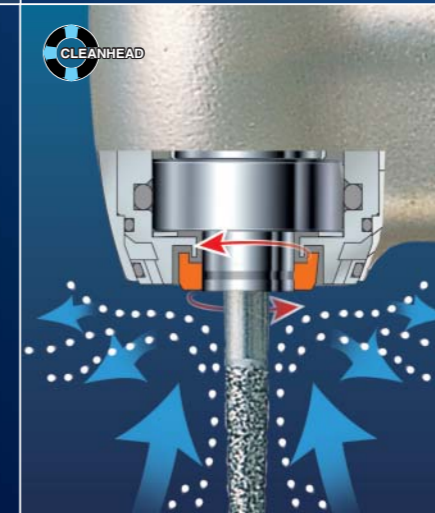
4 Water Spray Outlets

Ti-Max Ti95L/Ti95 has the world first 4 water spray outlets in it's class to efficiency cool the entire preparation area.



Cellular Glass Optics

NSK Cellular Glass Optics offers 25,000 LUX, which enables dentists to work with clear vision, and without any shadow. Light intensity will not deteriorate even after repeated sterilization.



Clean Head System (Patented)

The NSK Clean Head System is integrated into the handpiece head. This mechanism is designed to automatically prevent the entry of oral fluids and other contaminants into the internal part of the head. As a result, the NSK Clean Head System prolongs the life of the bearings and infection control is greatly enhanced.



Ceramic Ball Bearings

Ceramic Ball Bearings are 25% harder than conventional steel bearings, but are only half the weight. The positive effect of Ceramic Ball Bearings is that frictional wear, between the bearings and bearing retainers, is significantly reduced, extending the efficiency and durability of the cartridge. (Ti95L / Ti95 / Ti85L / Ti85)



Ti95L



Ti-Max Ti95L is a 1:5 speed increasing Titanium body handpiece with Cellular Optics. This handpiece offers smooth and quiet rotation, plus powerful torque, throughout the entire speed range. It has the world's first 4 water spray outlets allowing excellent cooling.

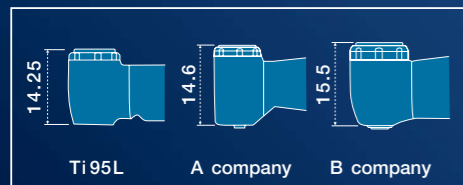
The Clean Head System built-in in the Ti-Max Ti95L handpiece automatically prevents internal handpiece contamination and assures operational durability. Cellular Glass Optics transmits powerful light with 25,000 LUX. Ti95L is equipped with ceramic bearings for quiet and vibration-free rotation, plus long life durability.

Features

- 1:5 Speed Increasing
- Quad Spray Outlets
- Solid Titanium Body*1
- Cellular Glass Optics
- Ceramic Ball Bearings
- Clean Head System
- Ultra Push Chuck



Head size comparison



Ti95L is the smallest head*2 ever with multiple ports water spray and offers superior visibility.

Ti85L



Ti85L offers the world's smallest head amongst all 1:5 speed increasing handpieces. It is ideal for difficult access areas and pedodontic treatment.

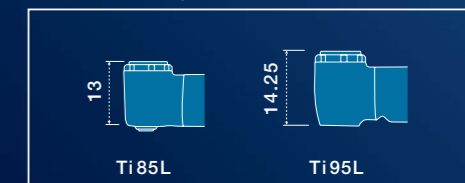
The NSK Clean Head System is integrated into the Ti-Max Ti85L handpiece to prevent internal contamination and to assure long term durability. Cellular Glass Optics transmits powerful light with 25,000 LUX. NSK Ti85L is equipped with ceramic bearings which offer quiet and vibration-free rotation with high durability.

Features

- 1:5 Speed Increasing
- Miniature Head
- Single Spray
- Solid Titanium Body*1
- Cellular Glass Optics
- Ceramic Ball Bearings
- Clean Head System
- Ultra Push Chuck



Head size comparison between Ti85L and Ti95L



Ti85L offers the world's smallest head*2 in the 1:5 speed increasing handpieces and is ideal for difficult access areas and pedodontic treatment.



Ti10L / Ti15L / Ti20L / Ti25L



Ti-Max Ti10L, Ti15L, Ti20L, and Ti25L are all optic contra angle handpieces with the world's first solid titanium bodies. Various speed of 16:1, 4:1, 1:1 are available to meet the needs of a wide variety of clinical procedures. NSK's unique micro precision engineering technology produces the highly qualified gears which operate at the lowest noise and vibration levels. The NSK Clean Head System, integrated into the Ti-Max Ti series handpieces, prevents internal contamination and assures durability. Cellular Glass Optics transmits powerful light at 25,000 LUX.

Features

- Single Spray
- Solid Titanium Body*
- Cellular Glass Optics
- Clean Head System
- Push Button Chuck



Ti10L	< 16:1 Reduction >	for CA burs
Ti15L	< 4:1 Reduction >	for CA burs
Ti20L	< 1:1 Drive >	for FG burs
Ti25L	< 1:1 Drive >	for CA burs



Small head and slim neck allows dentists to do more precise and efficient work during preparation due to superior visibility.

Ti35L / Ti45L



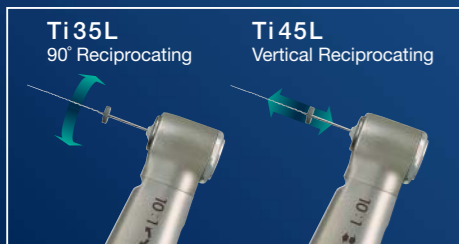
NSK Ti-Max Ti series root canal enlarging handpieces have specifically been developed to offer an effective alternative to hand held root canal instruments. Compared to conventional hand techniques, the mechanical handpiece system reduces clinician fatigue and minimizes operating time. The internal spray irrigates the canal and the instrument during treatment.

Ti35L/Ti45L offer a 2-in-1 principle for both manual and mechanical endodontic files, providing greater flexibility and cost-effectiveness.

To accommodate various treatment needs, NSK offers Ti35L with 90° reciprocating motion and Ti45L with precise vertical motion.

Features

- 10:1 Reduction • Single Spray
- Solid Titanium Body* • Cellular Glass Optics
- Push Button Chuck



■ QF Adaptor (Provided in the pack)



One handpiece for manual and mechanical endo files - the basis for greater flexibility and cost-effectiveness. Push button chuck for manual files and QF adaptor for mechanical endo files (ø2.35mm).



2-in-1 Principle

One handpiece for manual and mechanical endo files.

Ti70L / Ti75L



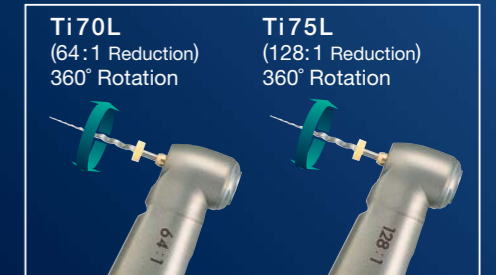
NSK Ti-Max Ti70L and Ti75L root canal enlarging handpieces have specifically been developed for Ni-Ti endodontic file techniques with the world's first solid titanium bodies.

Ti75L (128:1) has been designed for the speed range of Electric micromotor (Max 40,000min⁻¹) and Ti70L has been designed for the speed range of air motor (Max 22,000min⁻¹). Small sized head offers high visibility and it allows precise treatment.

Well balanced body shape reduces clinician fatigue and supports efficient root canal treatment.

Features

- Reduction (64:1/128:1)
- Single Spray
- Solid Titanium Body*
- Cellular Glass Optics
- Push Button Chuck



Ti55L / Ti50L



Ti-Max Ti55L and Ti50L are designed for Prophylaxis with the world's first solid titanium bodies. Vertical reciprocating action with EVA / Profin Tips allows effective and efficient polishing the tooth plane, interdentium and root surface.

Features

- 4:1 Reduction • Single Spray
- Solid Titanium Body* • Cellular Glass Optics



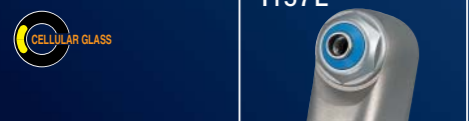
Ti57L



Ti-Max Ti57L is designed for Prophylaxis with screw-in cups and brushes with the world's first solid titanium bodies. Special dust proof mechanism prevents entering polishing pastes. Glass rod optic and slim neck provides high visibility and efficient treatment.

Features

- For Prophylaxis • For Screw-in cups and brushes
- 16:1 Reduction • Solid Titanium Body*
- Cellular Glass Optics
- w/o Spray



Ti65L



Ti-Max Ti65L, with Titanium body, is a highly durable cellular optic straight handpiece. NSK super precision micro technology, developed over years of manufacturing experience, has realized in this handpiece, the lowest noise and vibration, and has ensured bur run out of less than 0.02 mm.

Features

- 1:1 Drive
- Single Spray
- Solid Titanium Body*
- Cellular Glass Optics
- Clean Head System



■ Clean Head System



The Clean Head System is built into the straight handpiece, too. It prolongs the service life of the ball bearings since contaminants never enter the handpiece.



1 : 5 Speed Increasing



- Mini Head • 1:5 Increasing • Single Spray
- For FG burs • Ceramic Ball Bearings
- Clean Head System • Max. 200,000 min⁻¹

Optic	
MODEL	ORDER CODE
Ti85L	C447

Non-Optic	
MODEL	ORDER CODE
Ti85	C479



- 1:5 Increasing • Quad Spray Outlets
- For FG burs • Ceramic Ball Bearings
- Clean Head System • Max. 200,000 min⁻¹

Optic	
MODEL	ORDER CODE
Ti95L	C448

Non-Optic	
MODEL	ORDER CODE
Ti95	C480

1 : 1 Drive



- 1:1 Drive • Single Spray
- For FG burs • Clean Head System

Optic	
MODEL	ORDER CODE
Ti20L	C445

Non-Optic	
MODEL	ORDER CODE
Ti20	C477



- 1:1 Drive • Single Spray
- For CA burs (ø2.35) • Clean Head System

Optic	
MODEL	ORDER CODE
Ti25L	C446

Non-Optic	
MODEL	ORDER CODE
Ti25	C478

Speed Reduction



- 16:1 Reduction • Single Spray
- For CA burs (ø2.35) • Clean Head System

Optic	
MODEL	ORDER CODE
Ti10L	C443

Non-Optic	
MODEL	ORDER CODE
Ti10	C475



- 4:1 Reduction • Single Spray
- For CA burs (ø2.35) • Clean Head System

Optic	
MODEL	ORDER CODE
Ti15L	C444

Non-Optic	
MODEL	ORDER CODE
Ti15	C476

Straight



- 1:1 Drive • Single Spray
- For HP burs (ø2.35) • Clean Head System

Optic	
MODEL	ORDER CODE
Ti65L	H248

Non-Optic	
MODEL	ORDER CODE
Ti65	H249

Endodontics



- 90° Reciprocating • 10:1 Reduction
- Single Spray
- Includes QF Adaptor

Optic	
MODEL	ORDER CODE
Ti35L	C472

Non-Optic	
MODEL	ORDER CODE
Ti35	C484



- Vertical Reciprocating (0.4mm)
- 10:1 Reduction • Single Spray
- Includes QF Adaptor

Optic	
MODEL	ORDER CODE
Ti45L	C474

Non-Optic	
MODEL	ORDER CODE
Ti45	C486

MODEL	ORDER CODE
QF Adaptor	C877-701



- 360° Rotation • 64:1 Reduction • Single Spray
- For CA burs (ø2.35) • For Ni-Ti files

Optic	
MODEL	ORDER CODE
Ti70L	C519

Non-Optic	
MODEL	ORDER CODE
Ti70	C576



- 360° Rotation • 128:1 Reduction • Single Spray
- For CA burs (ø2.35) • For Ni-Ti files

Optic	
MODEL	ORDER CODE
Ti75L	C500

Non-Optic	
MODEL	ORDER CODE
Ti75	C492



Tip lock mechanism



without Tip lock mechanism



Prophylaxis



- Vertical Reciprocating (1.4mm) • 4:1 Reduction
- For Profin / Eva Tips • Single Spray
- Includes LTA Profin Tips

Optic	
MODEL	ORDER CODE
Ti55L	C450

Non-Optic	
MODEL	ORDER CODE
Ti55	C482



- Vertical Reciprocating (1.4mm) • 4:1 Reduction
- For Eva Tips • Single Spray
- Not Includes LTA Profin Tips

Optic	
MODEL	ORDER CODE
Ti50L	C449

Non-Optic	
MODEL	ORDER CODE
Ti50	C481



- For Prophylaxis
- For Screw-in cups and brushes
- 16:1 Reduction
- w/o Spray

Optic	
MODEL	ORDER CODE
Ti57L	C574

Non-Optic	
MODEL	ORDER CODE
Ti57	C575

*Ti-Max Optic handpieces fit INTRAmatic LUX® micromotors.
 *INTRAmatic LUX® are registered trademarks of Kaltenbach & Voigt GmbH & Co., Germany.

All NSK handpieces are built to have excellent durability against repeated autoclaving at temperatures of 135°C.