



# Ti-Max Z



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Impossibly Durable

# Ti-Max Z

Quality & Performance Evolves  
– The Next Phase Begins

NSK next generation micro production technology, plus new high tech material choices, now allows NSK to move the global handpiece market to a new, higher level of durability and performance, well beyond any previous market expectations. Introducing NSK Ti-Max Z – the most durable, high performance handpiece series in its Class ever offered by anyone, anywhere. This is the final result of a research and design brief that specified zero tolerance for any production and price compromise. In practice NSK Ti-Max Z series handpieces perform at a remarkably low noise level with virtually no vibration. Clinicians' focus will no longer be distracted and patient comfort is further enhanced. Further, Ti-Max Z series handpieces feature the smallest head and slimmest neck dimensions in the global market allowing operational visibility like never before.

Ti-Max Z is an irreplaceable Powerful Partner for any dental practice.





## The New Standard for Visibility ▶▶▶▶▶▶

Ti-Max Z series handpieces feature the smallest head and slimmest neck dimensions in the global market, providing a standard of operational visibility like never before. Accessing otherwise difficult oral regions is made far/significantly easier by the miniaturized, ergonomic design.

## ▶▶▶▶▶▶ The New Standard for Durability

Ti-Max Z series is the result of the endless pursuit of perfection - a true achievement of NSK R&D and Technological expertise dedicated to give Clinicians the most durable and dependable instruments in the market.

Ti-Max Z95L vastly exceeds all current Professional expectations for reliability and durability, even when compared to its closest competitor.

# The New Standard of Contra-angles

Ti-Max Z offers the New Standard in every respect - an instrument which is causing minimal fatigue, offering optimum balance and unrivaled longevity which makes it a joy to use.



## The Smallest and Slimmest in the World

Z95L has the smallest head and slimmest neck dimensions among the all major competitors.



## Easier Access

The Z95L head and body shape improve access to the molar region.

## Quattro Water Spray

The NSK Quattro Water Spray effectively cools the entire operating field. (Z95L/Z95)



## Anti Heat System

NSK's unique head cap design helps to limit heat generation and to disperse heat generation during treatment. NSK is always putting patient's safety first.

## Amazingly Silent Operation

Z95L produces minimal noise and virtually eliminates vibration - a significant advantage for both Clinicians and patients. These features are the result of NSK micro precision engineering technology.



## Microfilter

Microfilter to prevent particles from entering the water spray system to guarantee optimum water spray cooling at all times.

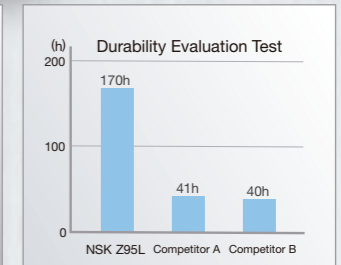


## NSK DURACOAT

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.

## 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.



## Outstanding Durability

Z95L exceeds all Professional current expectations for reliability and durability, even when compared to its closest competitor. NSK tests show that Z95L is more than twice as durable as any other comparable handpiece in the global market. The Z95L 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 sustained durability.

This comparison chart notes the result of NSK's in-house durability testing method. (One test cycle is 30 minutes. The sequence: 15 seconds micromotor operation at the speed of 40,000 min<sup>-1</sup> with a load of 200g radius direction load every 4.5 seconds, and 3 seconds at a speed of 40,000 min<sup>-1</sup> without load, is repeated consecutively.)

# Ti-Max Z Contra-angles Lineup

- The Highest Durability in its Class (optimal gear shape and special DLC coating)
- The Smallest Head and Slimmest Body in the World
- Superior Visibility and Better Access • Amazingly Quiet Operation
- Excellent Ergonomic Shape • Microfilter



Quattro Spray



MODEL: **Z95L** ORDER CODE: **C1034**

- 1:5 Increasing** • Quattro Spray • For FG burs (ø1,6)  
• Max Speed: 200,000 min<sup>-1</sup>



Single Spray



MODEL: **Z85L** ORDER CODE: **C1062**

- 1:5 Increasing** • Miniature Head • Single Spray  
• For FG burs (ø1,6) • Max Speed: 200,000 min<sup>-1</sup>  
\*Short Shank burs only



Head size comparison  
Z85L is the smallest head single water spray 1:5 contra-angle in the world, offering extraordinary visibility and accessibility.



Single Spray



MODEL: **Z25L** ORDER CODE: **C1038**

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



MODEL: **Z15L** ORDER CODE: **C1039**

- 4:1 Reduction** • Single Spray • For CA burs (ø2,35)  
• Max Speed: 10,000 min<sup>-1</sup>



MODEL: **Z10L** ORDER CODE: **C1040**

- 16:1 Reduction** • Single Spray • For CA burs (ø2,35)  
• Max Speed: 2,500 min<sup>-1</sup>



Washable in the thermodisinfectant



Autoclavable up to 135°C

The New Standard  
of Contra-angles



Ti-Max **Z**