

Contra-angle

Ti-Max Z99L



NSK



Smooth Cutting at its Peak Durability at its Core

From NSK's flagship Ti-Max series comes Z99L with its uncompromising quality to meet the highest demands in clinical practice.

To deliver an unparalleled treatment experience, meticulous refinements have been made to the angles of both the handpiece head and coolant spray. This is combined with the latest technology to optimise durability, gripping power, and cutting performance.

Our supreme confidence in this premium product is matched with a comprehensive 3-year warranty.

The new Ti-Max Z99L

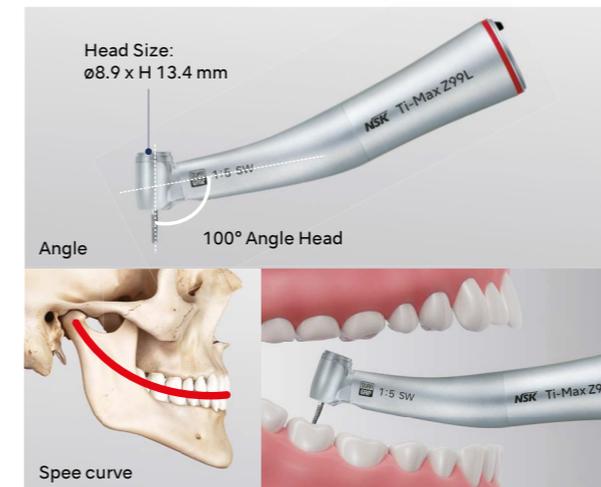


ERGONOMIC

Improved accessibility, visibility, and user comfort – for smoother, more efficient treatments.

100° Angled head - for easy access

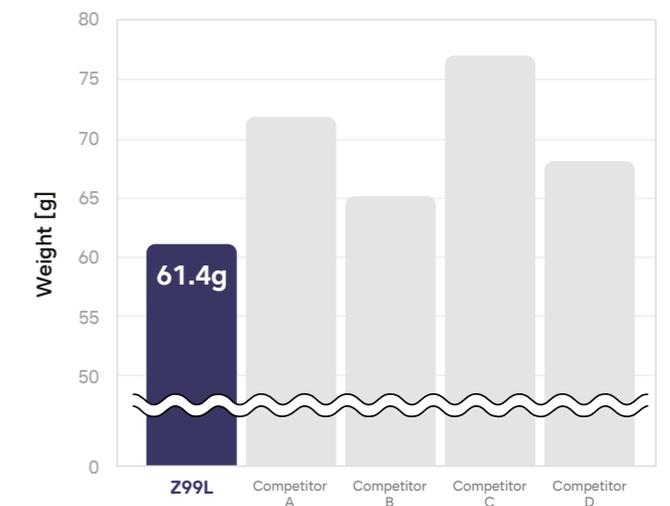
The design is based on the natural anatomical curves of the oral cavity (Spee curve and Wilson curve) and allows for cutting with high torque for more efficient treatment.



Lightweight – for comfort

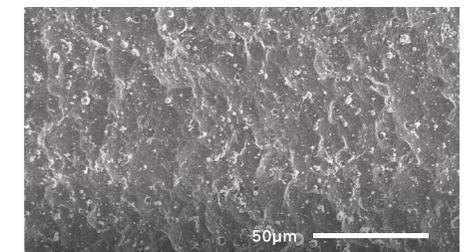
The titanium body is lighter than other 1:5 speed increasing contra-angles in its class, resulting in a more comfortable treatment experience for the clinician.

Z99L vs Competitors' Weight (in-house study)



Scratch-resistant DURAGRIP coating with optimal grip

For a secure, comfortable grip, the titanium body features a micro-textured, non-slip surface. NSK's DURAGRIP coating enhances scratch resistance and increases durability.



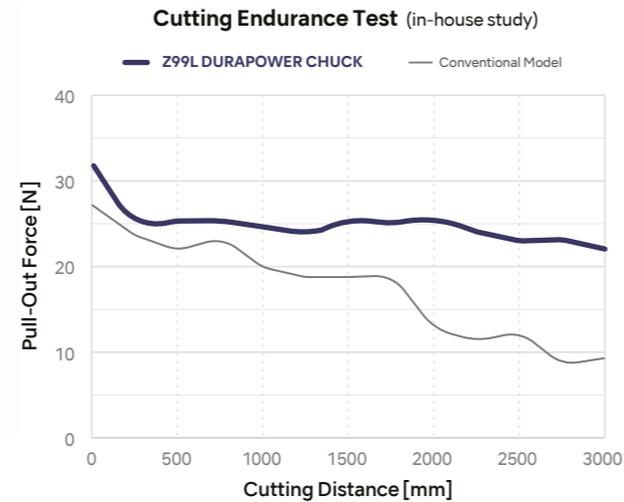
DURABILITY

To meet the increasing demands of treatments involving zirconia and other high-strength prosthetic materials, NSK perfected the configuration of chuck mechanism, gears, and bearings. The result is the Z99L, built to deliver powerful, reliable cutting performance while ensuring safe and efficient operation.

DURAPOWER CHUCK

The DURAPOWER CHUCK provides a more consistent and powerful grip on the bur compared to conventional models. NSK's proprietary technology creates a 'wedge effect' that enhances the gripping force of the chuck and ensures that the bur is secure during use.

* The chuck is the part of the handpiece that holds the bur (cutting rod).
The new improved chuck mechanism has improved durability.

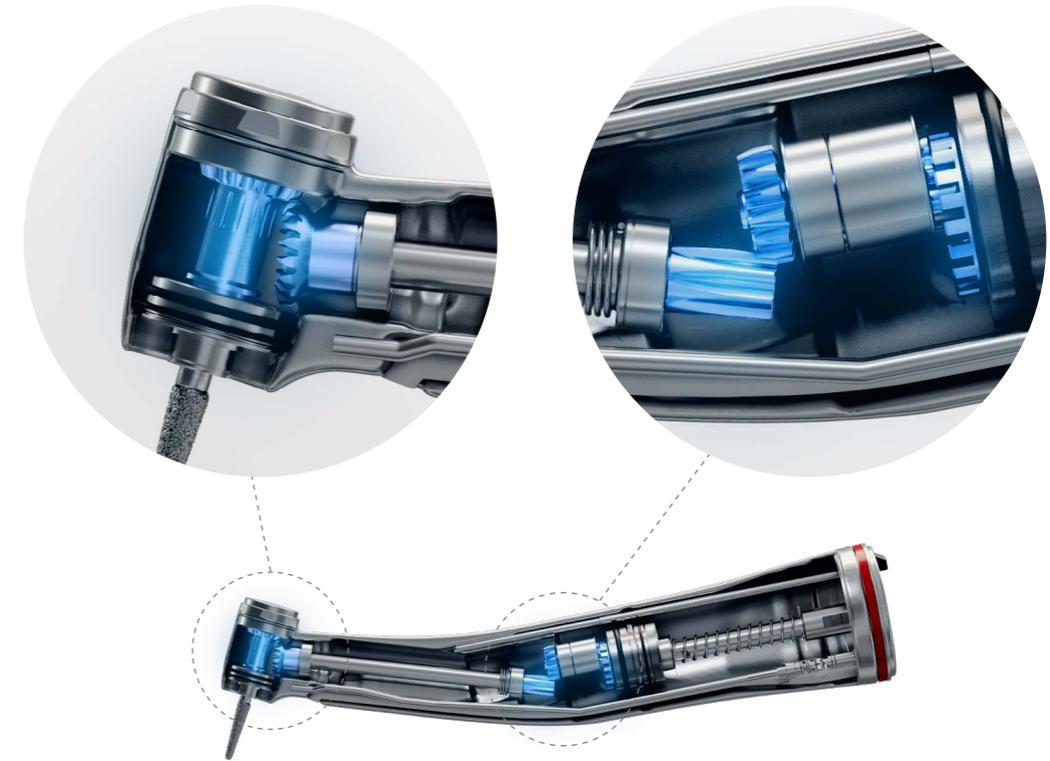


Optimised Gear and Bearing Configuration

Optimised ball bearings reduce wear and improve performance. The internal gearing has been refined to evenly distribute operating loads across the entire gear set. Together, these advancements have led to improved durability during cutting.

BETTER CUTTING PERFORMANCE

Experience efficient workflows and effective treatment with NSK's high-performance handpieces, offering outstanding precision and superior cutting performance based on decades of manufacturing expertise.



Optimised Gear Structure – for smooth cutting

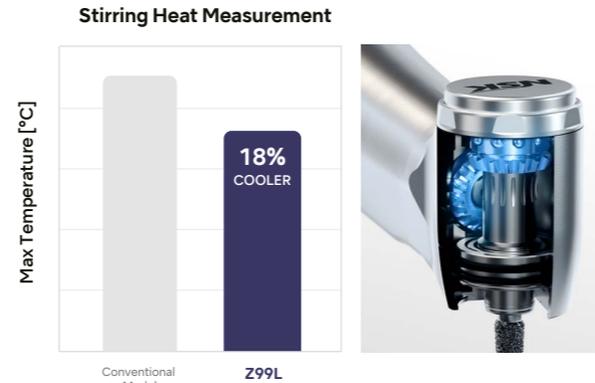
The handpiece has an optimised internal structure with the ideal number and shape of gears for more efficient power transmission. This allows for better transmission of engine torque and enables smoother cutting.

IMPROVED SAFETY

The design of the Z99L ensures a reduction in heat for both the handpiece head and the cutting process, thereby minimising the risk of thermal damage and allowing for safer treatments.

Anti-Heat System

Speed increasing contra-angles require advanced technologies for heat control in the head of the handpiece. Our unique head design minimises heat generation and optimises heat dissipation during treatment. In addition, the optimised gear design and bearing configuration of the Z99L reduce the risk of heat generation during operation.



Quattro Spray

Spraying from four directions and effectively cooling the entire bur without obstructing the view. Our quattro spray targets two bur sections - the end and mid sections, for highly efficient cooling, irrespective of length or shape.



NSK's World 1st Two-Way Coolant Function

The two-way coolant function allows the user to choose between a Spray (water & spray air) and a Water Jet (water only) depending on the situation simply by flipping a switch.

The **Water Jet** without the addition of spray air minimises the risk of subcutaneous emphysema during invasive procedures.

The **Spray**, on the other hand, has a strong cooling effect on the bur and tooth surface, avoiding heat damage.

This innovative feature provides users with greater flexibility while simultaneously improving patient safety.



TECHNICAL DATA



Ti-Max Z99L

Gear Ratio	Optic	MODEL	ORDER CODE
1:5 Increasing	●	Z99L	CA13140001

- Max Speed: 200,000 min⁻¹
- Head Size: ø8.9 x H 13.4 mm
- Titanium Body with Scratch Resistant DURAGRIP
- For FG Burs (ø1.6)
- Push Button Chuck
- Ceramic Bearing
- Quattro Spray (with two-way coolant function)
- Microfilter
- Anti-Heat System
- Clean Head System
- Cellular Glass Optics
- DURAPOWERR CHUCK
- 100° Head Angle



Manufacturer

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Specifications are subject to change without notice.

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