

Create it

NLZ PRO

NLZ Built-in Motor System

Integrated Electric
Micromotor System



NSK



POWER²

INTEGRATED DUAL-MOTORS*

The high-performance micromotor's control board can be easily built into the delivery unit you are currently using. Electric attachments can be used efficiently without the need for changes to your current delivery unit configuration.

Furthermore, it is possible to add a second motor to suit your treatment style.

Expanding to a dual-motor system enables even more efficient treatment.

Based on NSK's unique philosophy as a leading handpiece manufacturer, the micromotor supports a wide range of endodontic treatments. NSK's smart integrated system that will further extend the capabilities of your practice.

- Easy installation: the motor control board can be built-in
- Customize your treatment style by expanding to a dual-motor system
- Multi Pad2 touch screen with a large screen for high operability
- Rotary and reciprocating functions enable efficient endodontic treatment

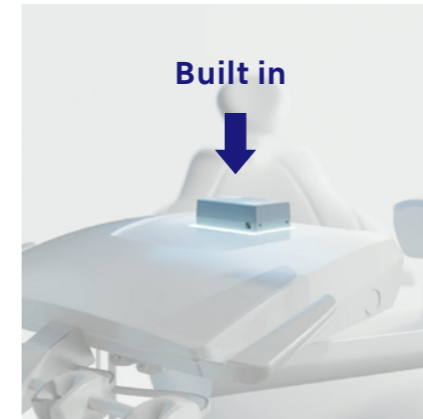
FLEXIBLE INSTALLATION STYLE

SUPERIOR VISIBILITY &
OPERABILITY



Integrated System

The control board can be built into the current delivery unit with a few simple steps. It can be installed into any type of chair, and saves space- no complex wiring or external equipment is needed. The area around the work station can be neatly organized, creating a smarter and more efficient treatment environment.



The control board is built-in, which allows the motor tubing to be pulled out from within the cart, and various boards can also be housed in the delivery unit.

Installation service available by NSK authorized dealers. A technician will visit your practice for the installation, allowing you to focus on your practice.

Dual-Motors

Flexible customization options meet diverse treatment styles and requirements. The standard set contains one motor, but an additional motor can be added for the dual-motor option. By adopting a dual-motor system, electric attachments can be installed to cover a wide range of applications, gear ratios and burs, enabling seamless integration without the need to change the electric attachment for a different treatment. This results in a more efficient practice with less chair time and the ability to treat more patients.

Z95L **Z25L**



[Typical treatment example]

Cutting old crowns: High speed attachment
Caries removal: Low speed attachment

Z95L **NLZ Endo**



[Endodontic example]

Cutting old crowns: High speed attachment
Root canal: Endo attachment

Multi Pad2

The Multi Pad2 can operate up to two electric motors. The LCD touch screen displays large numbers and buttons for easy operation. Visibility is further improved by the large screen. Additionally, the design takes into account ease of use in a treatment setting: when installing two electric attachments using the dual-motor, lifting one of them causes the screen to switch automatically to the motion control screen.



Screen when using the Z95L (sample)



Screen when using the NLZ Endo (sample)

A High-Performance Compact Micromotor

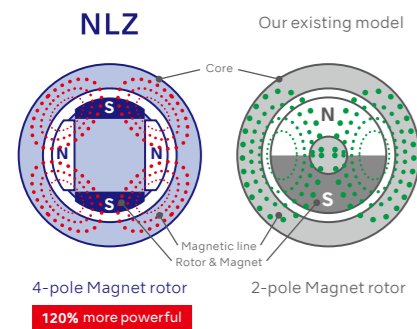
More powerful, yet lighter and with less heat generation than our existing models. This is made possible through upgraded technologies in our magnet rotor that integrates water/air lines, and through simplified coils. NLZ micromotor is the lightest and the most powerful micromotor in its class.

	NLZ	Existing Product	Competitor A	Competitor B	Competitor C	Competitor D
Motor speed	100-40,000 min ⁻¹	2,000-40,000 min ⁻¹	100-40,000 min ⁻¹	100-40,000 min ⁻¹	1,000-40,000 min ⁻¹	100-40,000 min ⁻¹
Max torque (Ncm)	4.2	3.4	3.5	3.0	3.0	3.5
Weight (without cord) (g)	57.0	58.5	79.0	69.7	57.3	59.2

Max torque and weight compared with products of the same class by other manufacturers (as of June 2024)
The data is based on in-house research.

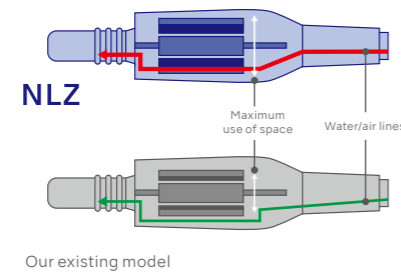
POWERFUL

Magnetic motor circuit was optimized by replacing a conventional 2-pole magnet with a 4-pole magnet, resulting in 20% higher torque.



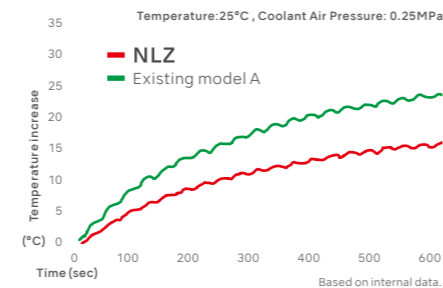
EFFICIENT

Innovative technologies result in water and air lines being integrated with the motor. This more efficient configuration makes maximum use of the limited space and is lighter and more powerful than before.



LESS HEAT

NLZ employs a simple, non-layered coil instead of a standard layered coil. The coils are as compact as possible, shortening the pathway for the heat generating current. As a result, it generates less heat without reducing the output of power.



NSK Safety Functions

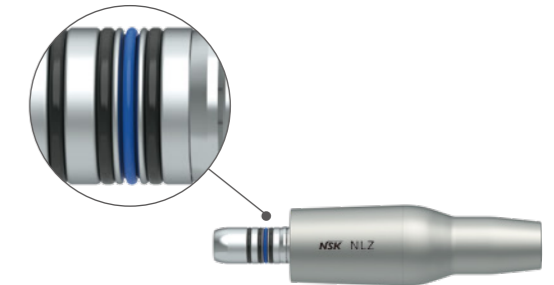
Contra-Check Function (Proprietary to NSK)

Overheating of the head of the electric attachment is caused by deterioration of the gears and lack of proper maintenance. It is difficult to check the electric attachment before use, so the problem typically emerges once in use. "Contra-Check Function" helps detect abnormalities caused by deterioration of the electric attachment and insufficient maintenance before use. The advanced function is the result of NSK's relentless pursuit of safe treatment.

*NSK's Ti-Max Z, X and S-Max M electric attachments are compatible with "Contra-Check Function".

Anti-Retraction System

The NLZ micromotor has an integrated Anti-Retraction system. The Anti-Retraction System reduces a risk of cross-contamination of the water lines in electric micromotors, creating a safer treatment environment.

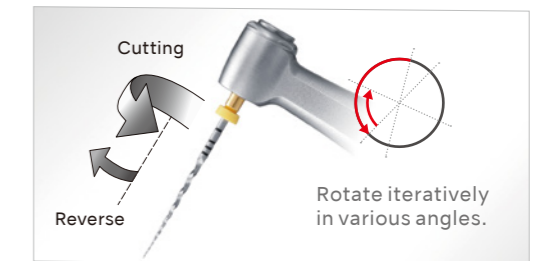


For Safer and More Efficient Endodontic Treatment

In addition to the Auto Reverse and Auto Stop functions, a wide range of new features are incorporated for safer and more efficient endodontic treatment.

Endodontic reciprocating functions

Compatible with the Dentsply Sirona Endodontics reciprocating files: WaveOne® Gold, WaveOne® and RECIPROC®. WaveOne®, from Dentsply Sirona, sets new standards in Endodontics, by bringing simplicity to the root canal shaping procedure, using only one NiTi instrument per root canal in most cases.



WaveOne® is a registered trademark of Dentsply Sirona Endodontics.
RECIPROC® is a registered trademark of VDW GmbH.

