

CLINICAL MICROMOTORS

NLX nano



A New Generation of Micromotor as Well Balanced as an Air Turbine

NLX nano has been designed to minimize weight and size to improve the balance of instrument and motor in the hand of the clinician, reducing fatigue during prolonged procedures.

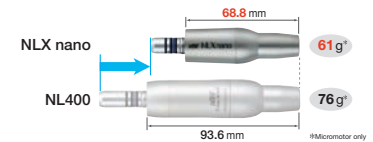
Despite its small size and light weight, the NLX nano is as powerful as traditional micromotors and offers wider range of speeds. Its 180° Vector Control assures smooth and stepless control over the entire speed range.

Thanks to LED illumination, it now delivers 32,000 LUX, natural daylight quality light and assures clearer vision, reducing fatigue during operation.

Feel our quality of NLX nano micromotor.

More Than 25% Shorter and 20% Lighter

Thanks to NSK know how, NLX nano has been designed to reduce weight by 20% and size by more than 25% compared with the current NSK micromotor. Despite its smaller size and lighter weight, NLX nano is as powerful and offers the same speed range as the current brushless NSK clinical micromotors.



Perfect Balance

The balance of the motor and instrument combined has been dramatically improved as the weight and size of NLX nano has been reduced drastically.

The overall length of instrument and NLX nano micromotor are almost the same as the length of air turbines and couplings, thus enabling practitioners use contra-angles and NLX nano micromotors just like the use of air turbines.



Wider Clinical Applications

NLX nano covers a wide speed range and is compatible with your existing optic and non-optic contra-angles. Combined with a wide range of contra-angles, it covers a speed range of 100 – 200,000 min⁻¹, to make it suitable for any applications.

	100	1,000	2,000	2,500	10,000	40,000	200,000
Z10L 16:1			100–2,500 min ⁻¹				
Z25L 1:1				2,000–40,000 min ⁻¹			
Z95L 1:5						10,000–200,000 min ⁻¹	



- NLX nano**
- System : 180° Vector Control System
 - Motor Type : Sensorless DC Brushless Micromotor
 - Motor Speed : 2,000 – 40,000 min⁻¹ (NLX nano U)
: 1,000 – 40,000 min⁻¹ (NLX BF)
 - Torque : Max. 3.4 Ncm
 - Weight : 61 g (micromotor only)
 - Light : White LED

NLX nano

Electric Micromotor Portable System

- Speed : 2,000 – 40,000 min⁻¹, Torque : 3.4 Ncm



Contents

- NLX nano U (Control Unit)
- NLX nano (Motor)
- NLX CD (Cord) • NLAC (AC Adaptor)

Specifications (Control Unit)

- Rated Input : AC 28 V 50/60 Hz
- Dimensions : W 127 x D 149 x H 54 (mm)
- Weight : 517 g

Optic	MODEL	ORDER CODE
●	NLX nano S230	Y1001362

Portable System Individual Components



- NLX nano micromotor only (Cord not included)
- Solid Titanium Body
- Autoclavable up to 135°C
- Internal Water Spray
- Brushless



Optic	MODEL	ORDER CODE
●	NLX nano	E1044051

- NLX nano micromotor cord for portable system (2.2 m)



MODEL	ORDER CODE
NLX CD	E1044061

- AC Adaptor for NLX nano micromotor
- For NLX nano portable system only



MODEL	ORDER CODE
NLAC	Y141135

Electric Micromotor Integrated System

- Speed : 1,000 – 40,000 min⁻¹, Torque : 3.4 Ncm



Integrated System Individual Components



- NLX nano micromotor only (Cord not included)
- Solid Titanium Body • Autoclavable up to 135°C
- Internal Water Spray • Brushless



Optic	MODEL	ORDER CODE
●	NLX nano	E1044051

- NLX nano micromotor cord for integrated system (2.2 m)



MODEL	ORDER CODE
nano CDB	E1044066

- Power module with lamp and air function for integrated system
- Dimensions with case : W 115 x D 68.5 x H 40 (mm)



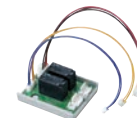
MODEL	ORDER CODE
NLX BF	Y1002122

- 24 Vac - 32 Vdc converter for integrated system
- Dimensions : W 60.2 x D 81.4 x H 45.2 (mm)



MODEL	ORDER CODE
NLS-A ADP	U1020050

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



MODEL	ORDER CODE
NLS-A SEL	Y1002125

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)



MODEL	ORDER CODE
Multi Pad	Y1001845
Multi Pad AX (Auto Select)	Y1001846

NLX plus

Electric Micromotor Integrated System

- Speed : 100 – 40,000 min⁻¹, Torque : 4.0 Ncm, with Endo Function
- Internal Water Spray
- BRUSHLESS

Features

- Torque control & Auto reverse feature
- 3 working modes: Auto-reverse on, Auto-stop or Auto-reverse off
- Autoclavable titanium body
- LED illumination
- Installable built-in type conforms to most dental equipments by employing original NLX BF power module



Integrated System Individual Components



- NLX plus micromotor only (Cord not included) • Solid Titanium Body
- Autoclavable up to 135°C • Internal Water Spray
- Brushless



Optic	MODEL	ORDER CODE
●	NLX plus	E1040051

- NLX plus micromotor cord for integrated system (2.2 m)



MODEL	ORDER CODE
plus CD	E1040062

- Power module with lamp and air function for integrated system
- Dimensions with case : W 115 x D 68.5 x H 40 (mm)



MODEL	ORDER CODE
NLX BF	Y1002122

- 24 Vac - 32 Vdc converter for integrated system
- Dimensions : W 60.2 x D 81.4 x H 45.2 (mm)



MODEL	ORDER CODE
NLS-A ADP	U1020050

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



MODEL	ORDER CODE
NLS-A SEL	Y1002125

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)



MODEL	ORDER CODE
Multi Pad	Y1001845
Multi Pad AX (Auto Select)	Y1001846

NBX

Electric Micromotor Integrated System

- Speed : 60 – 40,000 min⁻¹
- Internal Water Spray
- BRUSH



Integrated System Individual Components



- Micromotor only (Cord not included) • Solid Titanium Body
- Internal Water Spray • Brush



Optic	MODEL	ORDER CODE
●	NBX	E1059051

- NBX micromotor cord for integrated system (2.2 m)



MODEL	ORDER CODE
NBX CDB	E1059061

- Power module for integrated system
- Dimensions : W 86 x D 57 x H 33 (mm)



MODEL	ORDER CODE
IMD BS	Y1002847

- Selector module for integrated system
- Dimensions : W 68.5 x D 56.5 x H 38.5 (mm)



MODEL	ORDER CODE
IMD SEL	Y1002848

- Multi-Control Panel for built-in system
- Dimensions : W 95 x D 138 x H 31 (mm)



MODEL	ORDER CODE
Multi Pad	Y1001845
Multi Pad AX (Auto Select)	Y1001846

NBX

Ultracompact LED Electrical Micromotor

Ultracompact and lightweight body as a result of applying the latest materials and know-how

Key Features



- Quiet smooth operation to maximum of 40,000 min⁻¹
- Minimal heat generation
- LED incorporated in micromotor (only NBX OPTIC)
- Solid Titanium outer Body



- Max. 40,000 min⁻¹
- Micromotor only (Cord not included)
- Ultracompact and lightweight outer titanium body
- Internal Water Spray
- Brush

Optic	MODEL	ORDER CODE
●	NBX	E1059051
—	NBX N	E1074051

Motor Cord



Optic	MODEL	ORDER CODE
●	NBX CDB	E1059061
—	NBX N CDB	E1074061

- With constant current • Motor Cord only

M40 XS

Easy to Connect to Bien-Air® 4VLM and 4VR 400 Hoses

Features



- Quiet smooth operation from 60 to 40,000 min⁻¹
- Minimal heat generation
- Compact and light coreless electric micromotor
- LED illumination is incorporated inside the optic micromotor (M40 XS)
- Titanium body with Scratch Resistant DURACOAT

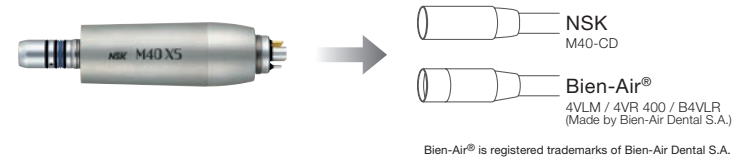


- Made Shorter and Lighter for Perfect Balance
- Advantages of using - LED light
- Ergonomic Shape
- Internal Water Spray
- Brush

Optic	MODEL	ORDER CODE
●	M40 XS	E1135051
—	M40N XS	E1136051

Connect Direct to Existing

- Bien-Air® 4VLM tubing • Bien-Air® 4VR 400 tubing • Bien-Air® B4VLR tubing



NSK Motor Cord



MODEL	ORDER CODE
M40-CD	S900100

Multi Pad

Multi-Control Panel for Built-in System

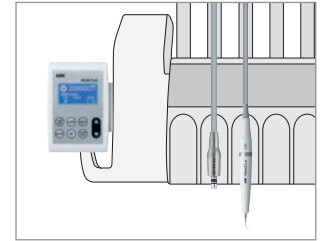


Integrated into Existing Equipment with The Latest Leading Edge Technology

NSK's Multi Pad uniquely enables control of the NLX nano and NLX plus electric micromotors and the Varios 170 ultrasonic scaler in one system. When partnered with Multi Pad, the NLX nano reaches speeds of 1,000 - 40,000 min⁻¹ and delivers a powerful 3.4 Ncm torque, whilst the NLX plus additionally offers 3 user-friendly endo modes; auto-reverse on, auto-stop and auto-reverse off. NSK's Multi Pad can also be used to control all functions of the Varios 170 ultrasonic scaler.

Features

- User friendly LCD display and interface to select settings.
- Visual identification on the display is possible even during operation of the handpiece.
- Up to 8 programs (motor only).
- Supports 5 languages (English, Español, Italiano, Français and Deutsch).



The Integrated System

Electric Micromotor Integrated System (NLX BF) and Multi Function Ultrasonic Scaler (Varios 170) can be controlled with the system.



- Multi Pad Unit
- Angle Plate (Mounting bracket)
- Screws

Multi Pad Complete Sets

MODEL	ORDER CODE
Multi Pad	Y1001845
Multi Pad AX (Auto Select)	Y1001846

Specifications

• Input voltage	: DC + 12 V
• Input connect	: 100 mA
• Max. output power	: 1.2 W
• Dimensions	: W 95 x D 138 x H 31 (mm)

Air Motor



Ti-Max X205L

Shorter and Lighter -
Ergonomic Comfort & Improved Balance



Advantages

- Shorter and lighter unsurpassed balance Air motor
- 360° Swivel with LED illumination (32,000 LUX)

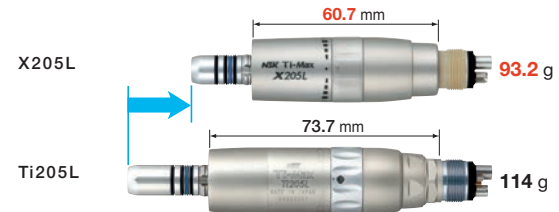


- 360° Swivel with LED illumination
- 32,000 LUX
- Titanium body with scratch-resistant DURACOAT
- Non-Retraction Valve
- Max Speed: 23,000 min⁻¹ ±10%
- Internal Water Spray



Optic	MODEL	ORDER CODE
●	X205L	M1013

Reduced Size and Weight for Unsurpassed Balance



DynaLED M205LG

Generates Its Own LED Illumination -
Another NSK Technology 1st



Advantages

- For instant LED illumination simply connect DynaLED Air motor to an existing non-optic handpiece tubing.
- Delivers a stable supply of natural daylight-quality LED illumination rated at 25,000 LUX.



Optic	MODEL	ORDER CODE
●	M205LG M4	M1018



- LED Air Motor with Micro Power Generator
- 25,000 LUX • Non-Retraction Valve
- Midwest 4 hole
- Max Speed: 22,000 min⁻¹ ±10%
- Internal Water Spray



- LED Air Motor with Micro Power Generator
- 25,000 LUX • Non-Retraction Valve
- Borden 2 hole
- Max Speed: 25,000 min⁻¹ ±10%
- Internal Water Spray

Optic	MODEL	ORDER CODE
●	M205LG B2	M1019

S-Max M205



Optic	MODEL	ORDER CODE
—	M205	M1007



- Stainless Steel Body • Non-Retraction Valve
- Midwest 4 hole
- Max Speed: 22,000 min⁻¹ ±10%
- Internal Water Spray

FX205m



Optic	MODEL	ORDER CODE
—	FX205m M4	M1005001



- Stainless Steel Body
- Midwest 4 hole
- Max Speed: 22,000 min⁻¹ ±10%
- External Water Spray



- Stainless Steel Body • Borden 2 hole
- Max Speed: 25,000 min⁻¹ ±10%
- External Water Spray

Optic	MODEL	ORDER CODE
—	FX205m B2	M1006001

Air Motor Set



Contents

- Air Motor (FX205m)
- Straight handpiece (FX65m)
- Contra-angle handpiece (FX25m)



Optic	MODEL	ORDER CODE
—	FX205m M4 Set	Y1002752



- Midwest 4 hole



- Borden 2 hole

Optic	MODEL	ORDER CODE
—	FX205m B2 Set	Y1002753