

DENTAL LABORATORY

Create it 

DENTAL LABORATORY

NSK

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ULTIMATE XL series

Brushless Micromotor

Great Hands Need Great Tools

NSK's ultimate creative engine, preferred by dental technicians worldwide.
Letting skilled hands turn technique into form.



Micromotor



Micromotor & Cord		
Type	MODEL	ORDER CODE
Torque	UMXL-T	Y141440

- Speed : 1,000-50,000 min⁻¹ • Max. Torque : 8.7 Ncm
- Dimensions : L 151 x ø29 mm
- Weight : 215 g (Cord not included) • Cord Length : 1.2 m



Micromotor & Cord		
Type	MODEL	ORDER CODE
Compact	UMXL-C	Y141444

- Speed : 1,000-50,000 min⁻¹ • Max. Torque : 6.0 Ncm
- Dimensions : L 144 x ø27 mm
- Weight : 181 g (Cord not included) • Cord Length : 1.2 m

ULTIMATE XL series

Brushless Micromotor

Powerful and Comfortable

The ULTIMATE XL Series offers a choice of four control units, according to space and user requirements. All functions are controlled by NSK's microcomputer which maintains smooth starting and stopping, ensuring excellence in overall operability.



180° vector motor control

Ripple-free smooth rotation with 180° vector control system. Powerful and stable torque across the entire speed range.

Low noise, low vibration

Minimal vibration, and noise from hermetically shielded micromotor unit. Approximately 30% increased chuck strength enables you to work on a wider variety of materials.

ULTIMATE XL

Bench Top System **BRUSHLESS**



Features

- Speed of 1,000-50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function

* Not applicable to connect with an air turbine handpiece

Type	MODEL	ORDER CODE
Torque	UMXL-GT	Y141466
Compact	UMXL-GC	Y141467

Contents

- Control unit • Micromotor Handpiece • Foot Control • Handpiece Stand

Specifications

- Power Supply : AC 120 V 50/60 Hz
- Weight : 2.8 kg
- Dimensions : W 167 x D 247 x H 77 mm



ULTIMATE XL-D

Bench Top Tower System **BRUSHLESS**



Features

- Speed of 1,000-50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function
- Available to connect with an air turbine adaptor

Type	MODEL	ORDER CODE
Torque	UMXL-DT	Y141501
Compact	UMXL-DC	Y141502

Contents

- Control unit • Micromotor Handpiece • Foot Control • Handpiece Stand

Specifications

- Power Supply : AC 120 V 50/60 Hz
- Weight : 3.3 kg
- Dimensions : W 81 x D 270 x H 230 mm



An optional bracket is available for wall mounting.



ULTIMATE XL-K



Knee Control System **BRUSHLESS**

Features

- Speed of 1,000-50,000 min⁻¹
- Digital Speed Display
- Maintenance Mode Setting
- Auto Cruise Function
- Error Code Display Function
- Available to connect with an air turbine adaptor

Type	MODEL	ORDER CODE
Torque	UMXL-KT	Y141492
Compact	UMXL-KC	Y141493

Contents
• Control unit • Micromotor Handpiece • Handpiece Stand

Specifications
• Power Supply : AC 120 V 50/60 Hz
• Weight : 3.2 kg
• Dimensions : W 90 x D 270 x H 230 mm



Bracket is available
for wall mounting.



ULTIMATE XL-F



Floor Type Foot Control System **BRUSHLESS**

Features

- Speed of 1,000-40,000 min⁻¹
- Auto Cruise Function
- Available to connect with an air turbine adaptor

*Speed and all other function are controlled via foot control.
For safety, maximum speed preset to 40,000 min⁻¹.

Type	MODEL	ORDER CODE
Torque	UMXL-FT	Y141510
Compact	UMXL-FC	Y141511

Contents
• Control unit • Micromotor Handpiece • Handpiece Stand

Specifications
• Power Supply : AC 120 V 50/60 Hz
• Weight : 3.8 kg
• Dimensions : W 230 x D 292 x H 113 mm



VOLVERE i7

Coreless Micromotor

Compact & Smart

A User-Friendly Micromotor for Any Dental Laboratory

The VOLVERE i7 is another advancement in NSK's quest to provide dental technicians access to its globally renowned dental laboratory engines. The stylish VOLVERE i7 delivers a compact, advanced design, with essential features, offering value for your money.



Light and compact to fit into the smallest space

The unit is just 69 mm wide and weighs only 930 g. It can safely be placed on workbench shelves to save space on the worktop.

Microcomputer Control

Knowledge gained from many years of experience and NSK's cutting edge dental laboratory technologies are incorporated into a high performance microcomputer with its CPU. This microcomputer provides excellent control and constantly monitors the motion of the motor to provide smooth starting and stopping. If changing rotation direction while the motor is running, the microcomputer waits and checks that the motor has completely stopped before changing the rotation direction. The motor starts and stops without any jolts and runs smoothly to maximize user comfort.

Standard Micromotor



Speed:
1,000-35,000 min⁻¹

E-type



Speed:
1,000-35,000 min⁻¹

Ergonomic handpiece



This handpiece incorporates the latest ergonomics, just like all NSK models. The grip is easy to hold and minimizes fatigue, enhancing the precision of dental laboratory work.

High Torque, High Efficiency Coreless Motor



The micromotor in the VOLVERE i7 handpiece has no core and generates less rotary momentum. This contributes to the controllability of the rotation speed and reduces uneven rotation. In addition, this motor has higher power efficiency compared to a conventional motor and can maintain constant speed even at high speeds.

Special Dust Proof Mechanism

The handpiece has a patented built-in dust-proof system to prevent the ingress of debris into the bearings.

Standard Micromotor System

MODEL	ORDER CODE
VOLVERE i7 RM (120 V)	Y1002892

Contents
• VOLVERE i7 Control Unit • Micromotor Handpiece • Foot Control
• Handpiece Stand

E-type Micromotor System Without Handpiece

MODEL	ORDER CODE
VOLVERE i7 E (120 V)	Y1002893

Contents
• VOLVERE i7 Control Unit • E-type Micromotor • Foot Control
• Handpiece Stand

Specifications

[Control Unit]
• Power Supply : AC 120 V 50/60 Hz
• Dimensions : W 69 x D 185 x H 167 mm
• Weight : 930 g

[Standard Type Motor Handpiece]
• Speed : 1,000-35,000 min⁻¹
• Max. Torque : 4.1 Ncm
• Dimensions : L 145 x ø24.5 mm
• Weight : 192 g (without cord)
• Cord Length : 1.2 m

[E-type Motor Handpiece]
• Speed : 1,000-35,000 min⁻¹
• Max. Torque : 4.1 Ncm
• Dimensions : L 109.3 x ø24.5 mm
• Weight : 118 g (without cord)
• Cord Length : 1.2 m



PRESTO AQUA LUX

Lube-Free Air Turbine Handpiece with LED

Light + Water

Near-daylight LED technology illuminates with pinpoint accuracy. From mist to drops - complete spray control. Light and water combination means precise control across a broad area.

PRESTO AQUA LUX

Lube-Free Air Turbine Handpiece with LED

Features

- Simple and easy removal of the water bottle
- On-Off function of LED light and water coolant spray
- Capable of running independently with the incorporated water bottle or connected to main water supply

Optic	MODEL	ORDER CODE
●	PRESTO AQUA LUX	Y1001199

Contents
• PRESTO AQUA LUX Control unit • PRESTO AQUA LUX handpiece
• PR-AQL Hose • Foot control (AFC-40) • Secondary hose for PRESTO
• Handpiece stand • PRESTO AQUA LUX Cord • AC Adaptor



PRESTO AQUA II

Lube-Free Air Turbine Handpiece with Water Spray

Features

- Simple and easy removal of the water bottle
- Seamless adjustments of water volume and spray air
- On-off function of water coolant spray
- Capable of running independently with the incorporated water bottle or connected to main water supply

Optic	MODEL	ORDER CODE
—	PRESTO AQUA II	Y150023

Contents
• PRESTO AQUA II unit • PRESTO AQUA handpiece • QD-J B3 Coupler
• Hose for PRESTO AQUA II • Foot control (AFC-40)
• Secondary hose for PRESTO



PRESTO II

Lube-Free Air Turbine Handpiece

Features

- Lightweight and compact

Optic	MODEL	ORDER CODE
—	PRESTO II	Y150022

Contents
• PRESTO II unit • PRESTO handpiece • Handpiece stand • Hose for PRESTO
• Foot control (AFC-40) • Secondary hose for PRESTO



Spare Parts

ULTIMATE XL / XL-D / XL-K / XL-F

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
UMXL-G	Control unit Bench type	Y141465	UMXL-CM 2M	Motor Compact type (with 2m cord)	E356002
UMXL-D	Control unit Tower type	Y141500	UHRXL-T	Attachment Torque type	H269
UMXL-K	Control unit Knee type	Y141491	UHRXL-C	Attachment Compact type	H271
UMXL-F	Control unit Floor type	Y141509	UMXL-EM 2M	Motor E-type (with 2m cord)	E342002
UMXL-T 2M	Motor handpiece Torque type (with 2m cord)	Y141441	Motor Cord T	(Torque type 1.2m)	E355051
UMXL-C 2M	Motor handpiece Compact type (with 2m cord)	Y141445	Motor Cord C	(Compact type 1.2m)	E356051
UMXL-TM	Motor Torque type (with 1.2m cord)	E355	Motor Cord T 2M	(Torque type 2m)	E355055
UMXL-CM	Motor Compact type (with 1.2m cord)	E356	Motor Cord C 2M	(Compact type 2m)	E356055
UMXL-TM 2M	Motor Torque type (with 2m cord)	E355002	FC-64	Foot Control (For XL / XL-D)	Z304

VOLVERE i7

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
VOLVERE i7 Unit		U1137	VR-EB	E-type Handpiece	H1062
GX35RM-B & SCD	Motor + cord	E1179	Carbon Brush	For GX35RM-B / GX35EM-B (Pack of 2)	E023011
GX35EM-B & SCD	E-type motor + cord	E1180	Chuck-2.35A		H203A180
UHR45C	Handpiece for GX35RM-B	H203002			

PRESTO AQUA LUX

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA LUX Control Unit		Z1038A002	PR-AQL03	PRESTO AQUA LUX Cartridge	T1002250
PRA-LUX-HP	PRESTO AQUA LUX Handpiece	T1002	Handpiece Stand		Z095206
PR-AQL Hose	Coupler Hose	Z1050			

MODEL	PRODUCTS	ORDER CODE
Handpiece Stand	(wrench is not included)	Z095201
Suspension Handpiece Cradle	(For XL)	Z083
Chuck-2.35A		H203A180
Handpiece Holder	(For XL)	Y900770
Wrench for Locking Rotation		H269751
Wrench for Adjusting Chuck		K015751
Bracket set	(For XL-D / XL-K)	U364090
Fuse-T3.15A		D1200131510

MODEL	PRODUCTS	ORDER CODE
FC-76	Foot Control	Z1082
Handpiece Stand		Z095206
Wrench for Adjusting Chuck		K015751

MODEL	PRODUCTS	ORDER CODE
AC Adaptor	PR-AQL	Y1500002
PTL O-ring set	(Pack of 5)	Y900580

PRESTO AQUA II

MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA II Unit		Z308015
PRA-HP	PRESTO AQUA Handpiece	T816

PRESTO AQUA LUX / PRESTO AQUA II

MODEL	PRODUCTS	ORDER CODE
AFC-40	Foot Control	Z127
Chuck		T815019
Secondary Hose for PRESTO	(2 m)	Z101240
Water Filter Set (2 m)	2 water supply tube, water filter, water filter case	U387040
Water Filter with Case		Y900069

PRESTO II

MODEL	PRODUCTS	ORDER CODE
PRESTO II Unit		Z307015
PR-HP	PRESTO Handpiece (Includes 2m hose)	T815
AFC-40	Foot Control	Z127
Handpiece Stand		Z010134

MODEL	PRODUCTS	ORDER CODE
Hose for PRESTO AQUA II		Z308050
QD-J B3	Coupler	T354051

MODEL	PRODUCTS	ORDER CODE
Water Filter		U387042
Tube Ring	(Pack of 2)	Y900077
PRA II	Bottle Set	Z308040
PRA II	Bottle Lid	Z308041
PRA II	Bottle	Z308601

MODEL	PRODUCTS	ORDER CODE
PR-AQ03	PRESTO AQUA Cartridge	T816016

MODEL	PRODUCTS	ORDER CODE
PRA II Bottle O-ring set	(Pack of 2)	Y900327
Bracket Set		Z308060
Chuck Wrench		C034751
Bur-inserting tool		T815030

MODEL	PRODUCTS	ORDER CODE
PR-03	PRESTO Cartridge	T815016
Chuck		T815019
Hose for PRESTO	(2 m)	T815220
Secondary Hose for PRESTO	(2 m)	Z101240

MODEL	PRODUCTS	ORDER CODE
LAB Spanner Wrench		H005751
Chuck Wrench		C034751
Bur-inserting Tool		T815030

Manufacturer

NAKANISHI INC. www.nsk-dental.com
700 Shimohinata, Kanuma, Tochigi 322-8666, Japan

NSK America Corp. www.nskdental.com
1800 GlobalParkway, Hoffman Estates, IL 60192, USA

Specifications are subject to change without notice.