

DENTAL LABORATORY

Create it 

DENTAL LABORATORY

**NSK**

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# ULTIMATE XL series

Brushless Micromotor

## Great Hands Need Great Tools

The superior creative engine from NSK, as preferred by dental technicians worldwide.  
Letting skilled hands turn technique into form.



### Micromotor



Micromotor & cord		
Type	MODEL	ORDER CODE
<b>Torque</b>	<b>UMXL-T 2 M</b>	<b>Y141441</b>
• Speed : 1,000-50,000 min <sup>-1</sup> • Max. torque : 8.7 Ncm		
• Dimensions : L 151 x ø29 mm		
• Weight : 215 g (cord not included) • Cord length : 2 m		



Micromotor & cord		
Type	MODEL	ORDER CODE
<b>Compact</b>	<b>UMXL-C 2 M</b>	<b>Y141445</b>
• Speed : 1,000-50,000 min <sup>-1</sup> • Max. torque : 6.0 Ncm		
• Dimensions : L 144 x ø27 mm		
• Weight : 181 g (Cord not included) • Cord length : 2 m		



Micromotor & cord		
Type	MODEL	ORDER CODE
<b>E-type</b>	<b>UMXL-EM 2 M</b>	<b>E342002</b>
• Speed : 1,000-50,000 min <sup>-1</sup> • Max. torque : 6.0 Ncm		
• Dimensions : L 118 x ø27 mm		
• Weight : 129 g (cord not included) • Cord length : 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<sup>-1</sup>
- 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	Y141471
Compact	UMXL-GC	Y141472

### Contents

- Control unit • Micromotor handpiece • Foot control • Handpiece stand

### Specifications

- Power supply : AC 230 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<sup>-1</sup>
- 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	Y141504
Compact	UMXL-DC	Y141505

### Contents

- Control unit • Micromotor handpiece • Foot control • Handpiece stand

### Specifications

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



ULTIMATE XL-D can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



An optional bracket is available for wall mounting.



# ULTIMATE XL-K



Knee Control System **BRUSHLESS**

- Features**
- Speed of 1,000-50,000 min<sup>-1</sup>
  - 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	Y141495
Compact	UMXL-KC	Y141496

**Contents**

- Control unit
- Micromotor handpiece
- Handpiece stand

**Specifications**

- Power supply : AC 230 V 50/60 Hz
- Weight : 3.2 kg
- Dimensions : W 90 x D 270 x H 230 mm



ULTIMATE XL-K can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



Bracket is available for wall mounting.



# ULTIMATE XL-F



Floor Type Foot Control System **BRUSHLESS**

- Features**
- Speed of 1,000-40,000 min<sup>-1</sup>
  - 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<sup>-1</sup>.

Type	MODEL	ORDER CODE
Torque	UMXL-FT	Y141513
Compact	UMXL-FC	Y141514

**Contents**

- Control unit
- Micromotor handpiece
- Handpiece stand

**Specifications**

- Power supply : AC 230 V 50/60 Hz
- Weight : 3.8 kg
- Dimensions : W 230 x D 292 x H 113 mm



ULTIMATE XL-F can also operate air turbine handpieces by simply attaching the optional air turbine adaptor.



## Turbine Adaptor TA50

For ULTIMATE XL-D, XL-K and XL-F

TA50 air turbine adaptor allows you to quickly switch power source between air turbine handpiece and electric micromotor. Both handpieces are equally controllable with a single foot control or knee control.



MODEL	ORDER CODE
TA50	U375
• Turbine adaptor • W 75 x D 100 x H 30 mm	

Air turbine



PRESTO AQUA LUX



PRESTO AQUA II



PRESTO II

Turbine Adaptor TA50

\* The air turbine is operated via the ULTIMATE XL foot control.



ULTIMATE XL-D



ULTIMATE XL-K



ULTIMATE XL-F

# VOLVERE i7

Coreless Micromotor

## Compact & Smart

A User-Friendly Micromotor for Any Dental Laboratory

The VOLVERE i7 is another advance 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, all essential features and excellent value for 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 extremely smoothly to maximize user comfort.

## Standard Micromotor



Speed:  
1,000-35,000 min<sup>-1</sup>

## E-type



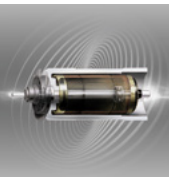
Speed:  
1,000-35,000 min<sup>-1</sup>

### Ergonomic handpiece



This handpiece incorporates the latest ergonomics, just like all NSK models. The grip is easy to hold and minimises 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
<b>VOLVERE i7 RM (230 V)</b>	<b>Y1002890</b>

**Contents**  
• VOLVERE i7 control unit • Micromotor handpiece • Foot control  
• Handpiece stand

### E-type micromotor system With handpiece

MODEL	ORDER CODE
<b>VOLVERE i7 VR-EB (230 V)</b>	<b>Y1002891</b>

**Contents**  
• VOLVERE i7 control unit • E-type handpiece • E-type micromotor  
• Foot control • Handpiece stand

### E-type micromotor system Without handpiece

MODEL	ORDER CODE
<b>VOLVERE i7 E (230 V)</b>	<b>Y1003523</b>

**Contents**  
• VOLVERE i7 control unit • E-type micromotor • Foot control  
• Handpiece stand



### Specifications

[Control Unit]  
• Power supply : AC 230 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<sup>-1</sup>  
• 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<sup>-1</sup>  
• 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 mains water supply

Optic	MODEL	ORDER CODE
●	PRESTO AQUA LUX (230 V)	Y1001151

**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 mains water supply

Optic	MODEL	ORDER CODE
—	PRESTO AQUA II	Y150023

**Contents**

- PRESTO AQUA II unit
- PRESTO AQUA handpiece
- QD-J B3 coupling
- 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	Y141468	UMXL-CM 2M	 Motor compact type with 2 m cord	E356002
UMXL-D	 Control unit tower type	Y141503	UHRXL-T	 Attachment torque type	H269
UMXL-K	 Control unit knee type	Y141494	UHRXL-C	 Attachment compact type	H271
UMXL-F	 Control unit floor type	Y141512	UMXL-EM	 Motor E-type with 1.2 m cord	E342
UMXL-TP	 Motor handpiece torque type (with 1.2 m cord)	Y141442	Motor cord T	 (torque type 1.2 m)	E355051
UMXL-C	 Motor handpiece compact type with 1.2 m cord	Y141444	Motor cord C	 compact type 1.2 m	E356051
UMXL-TM	 Motor torque type with 1.2 m cord	E355	Motor cord T 2M	 torque type 2 m	E355055
UMXL-CM	 Motor compact type with 1.2 m cord	E356	Motor cord C 2M	 compact type 2 m	E356055
UMXL-TM 2M	 Motor torque type with 2 m cord	E355002	FC-64	 Foot control for XL / XL-D	Z304




VOLVERE i7



MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
VOLVERE i7 unit	 E-type handpiece	U1137	VR-EB	 Carbon brush	H1062
GX35RM-B & SCD	 Motor + cord	E1179	For GX35RM-B / GX35EM-B (pack of 2)	 For GX35RM-B / GX35EM-B (pack of 2)	E023011S
GX35EM-B & SCD	 E-type motor + cord	E1180	Chuck-2.35 A	 H203A180A	H203A180A
UHR45C	 Handpiece for GX35RM-B	H203002			

PRESTO AQUA LUX



MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA LUX control unit	 PRESTO AQUA LUX control unit	Z1038A002	PR-AQL03	 PRESTO AQUA LUX cartridge	T1002250
PRA-LUX-HP	 PRESTO AQUA LUX handpiece	T1002	Handpiece stand	 Z095206	Z095206
PR-AQL Hose	 Coupling hose	Z1050			



MODEL	PRODUCTS	ORDER CODE
Handpiece stand	 Wrench is not included	Z095201
Suspension handpiece cradle	 for XL	Z083
Chuck-2.35 A	 H203A180A	H203A180A
Handpiece Holder	 for XL	Y900770
Wrench for locking rotation	 H269751	H269751
Wrench for adjusting chuck	 K015751	K015751
TA50	 Turbine Adaptor for XL-D, XL-K and XL-F	U375
Bracket set	 for XL-D / XL-K	U364090
Fuse-T1.6 A (230 V)	 D1202216010	D1202216010

MODEL	PRODUCTS	ORDER CODE
FC-76	 Foot control	Z1082
Handpiece stand	 Z095206	Z095206
Wrench for adjusting chuck	 K015751	K015751






MODEL	PRODUCTS	ORDER CODE
AC adaptor	 PR-AQL	Y1500004
PTL O-ring set	 (pack of 5)	Y900580






PRESTO AQUA II


MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA II unit	 PRESTO AQUA II unit	Z308015
PRA-HP	 PRESTO AQUA handpiece	T816





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

PRESTO AQUA LUX / PRESTO AQUA II





MODEL	PRODUCTS	ORDER CODE
AFC-40	 Foot control	Z127
Chuck	 T815019	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	Y900069





MODEL	PRODUCTS	ORDER CODE
Water filter	 U387042	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	Z308060
Chuck wrench	 C034751	C034751
Bur-inserting tool	 T815030	T815030

PRESTO II

MODEL	PRODUCTS	ORDER CODE
PRESTO II unit	 PRESTO II unit	Z307015
PR-HP	 PRESTO handpiece includes 2 m hose	T815
AFC-40	 Foot control	Z127
Handpiece stand	 Z010134	Z010134

MODEL	PRODUCTS	ORDER CODE
PR-03	 PRESTO cartridge	T815016
Chuck	 T815019	T815019
Hose for PRESTO	 2 m	T815220
Secondary hose for PRESTO	 2 m	Z101240

MODEL	PRODUCTS	ORDER CODE
LAB spanner wrench	 H005751	H005751
Chuck wrench	 C034751	C034751
Bur-inserting tool	 T815030	T815030