

DENTAL LABORATORY

Create it 

DENTAL LABORATORY

**NSK**

## INDEX

ULTIMATE XL .....	P. 02 - 05
ULTIMATE XL-D .....	P. 05
ULTIMATE XL-K .....	P. 06
ULTIMATE XL-F .....	P. 06
Turbine Adaptor .....	P. 07
VOLVERE i7 .....	P. 08 - 09
PRESTO AQUA LUX .....	P. 10 - 11
PRESTO AQUA II .....	P. 11
PRESTO II .....	P. 11
Spare Parts .....	P. 12 - 13

# 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
<b>Torque</b>	<b>UMXL-T</b>	<b>Y141440</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 : 1.2 m



#### Micromotor & Cord

Type	MODEL	ORDER CODE
<b>Compact</b>	<b>UMXL-C</b>	<b>Y141444</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 : 1.2 m



#### Micromotor & Cord

Type	MODEL	ORDER CODE
<b>E-type</b>	<b>UMXL-EM</b>	<b>E342001</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 : 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<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
<b>Torque</b>	<b>UMXL-GT</b>	<b>Y141466</b>
<b>Compact</b>	<b>UMXL-GC</b>	<b>Y141467</b>
<b>E-type</b>	<b>UMXL-GE</b>	<b>Y1002175</b>

### 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 Series

# 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
<b>Torque</b>	<b>UMXL-DT</b>	<b>Y141501</b>
<b>Compact</b>	<b>UMXL-DC</b>	<b>Y141502</b>

### 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



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
<b>Torque</b>	<b>UMXL-KT</b>	<b>Y141492</b>
<b>Compact</b>	<b>UMXL-KC</b>	<b>Y141493</b>



## 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

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



Bracket is available for wall mounting.



# 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
<b>TA50</b>	<b>U375</b>

• 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

# 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
<b>Torque</b>	<b>UMXL-FT</b>	<b>Y141510</b>
<b>Compact</b>	<b>UMXL-FC</b>	<b>Y141511</b>



## 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

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



# 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<sup>-1</sup>

## E-type



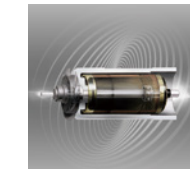
Speed:  
1,000-35,000 min<sup>-1</sup>

### Ergonomic handpiece



This handpiece incorporates the latest ergonomics, just like all NSK models. The grip is easy to hold and 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<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 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
<b>UMXL-G</b> Control unit Bench type		<b>Y141465</b>	<b>UMXL-CM 2M</b> Motor Compact type (with 2m cord)		<b>E356002</b>
<b>UMXL-D</b> Control unit Tower type		<b>Y141500</b>	<b>UHRXL-T</b> Attachment Torque type		<b>H269</b>
<b>UMXL-K</b> Control unit Knee type		<b>Y141491</b>	<b>UHRXL-C</b> Attachment Compact type		<b>H271</b>
<b>UMXL-F</b> Control unit Floor type		<b>Y141509</b>	<b>UMXL-EM 2M</b> Motor E-type (with 2m cord)		<b>E342002</b>
<b>UMXL-T 2M</b> Motor handpiece Torque type (with 2m cord)		<b>Y141441</b>	<b>Motor Cord T</b> (Torque type 1.2m)		<b>E355051</b>
<b>UMXL-C 2M</b> Motor handpiece Compact type (with 2m cord)		<b>Y141445</b>	<b>Motor Cord C</b> (Compact type 1.2m)		<b>E356051</b>
<b>UMXL-TM</b> Motor Torque type (with 1.2m cord)		<b>E355</b>	<b>Motor Cord T 2M</b> (Torque type 2m)		<b>E355055</b>
<b>UMXL-CM</b> Motor Compact type (with 1.2m cord)		<b>E356</b>	<b>Motor Cord C 2M</b> (Compact type 2m)		<b>E356055</b>
<b>UMXL-TM 2M</b> Motor Torque type (with 2m cord)		<b>E355002</b>	<b>FC-64</b> Foot Control (For XL / XL-D)		<b>Z304</b>

## VOLVERE i7

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

## PRESTO AQUA LUX

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

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
<b>Handpiece Stand</b> (wrench is not included)		<b>Z095201</b>	<b>Suspension Handpiece Cradle</b> (For XL)		<b>Z083</b>
			<b>Chuck-2.35A</b>		<b>H203A180</b>
			<b>Handpiece Holder</b> (For XL)		<b>Y900770</b>
			<b>Wrench for Locking Rotation</b>		<b>H269751</b>
			<b>Wrench for Adjusting Chuck</b>		<b>K015751</b>
			<b>TA50</b> Turbine Adaptor (For XL-D, XL-K and XL-F)		<b>U375</b>
			<b>Bracket set</b> (For XL-D / XL-K)		<b>U364090</b>
			<b>Fuse-T3.15A</b>		<b>D1200131510</b>

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

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

## PRESTO AQUA II

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
<b>PRESTO AQUA II Unit</b>		<b>Z308015</b>	<b>PRA-HP</b> PRESTO AQUA Handpiece		<b>T816</b>

## PRESTO AQUA LUX / PRESTO AQUA II

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

## PRESTO II

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

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

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
<b>Water Filter</b>		<b>U387042</b>	<b>PRA II</b> Bottle Set		<b>Z308040</b>
			<b>PRA II</b> Bottle Lid		<b>Z308041</b>
			<b>PRA II</b> Bottle		<b>Z308601</b>

MODEL	PRODUCTS	ORDER CODE
<b>PR-AQ03</b> PRESTO AQUA Cartridge		<b>T816016</b>

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

MODEL	PRODUCTS	ORDER CODE
<b>PR-03</b> PRESTO Cartridge		<b>T815016</b>
<b>Chuck</b>		<b>T815019</b>
<b>Hose for PRESTO</b> (2 m)		<b>T815220</b>
<b>Secondary Hose for PRESTO</b> (2 m)		<b>Z101240</b>
<b>LAB Spanner Wrench</b>		<b>H005751</b>
<b>Chuck Wrench</b>		<b>C034751</b>
<b>Bur-inserting Tool</b>		<b>T815030</b>

Manufacturer

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Specifications are subject to change without notice.