

# DENTAL LABORATORY



# ULTIMATE XL Series

## Powerful and Comfortable

### Experience Unprecedented Smoothness and Power

The world's leading laboratory micromotor just got better. The ULTIMATE range has evolved to run even smoother and be more powerful. With 180° vector control system, it assures you to work more efficiently and stress-free. The handpiece shape has been designed extremely carefully with ergonomics and functionality always being at the forefront of the designer's mind. The result is a handpiece which considerably reduces hand fatigue and makes it easier to work on even the most delicate pieces of work for extended periods of time.

Experience the next-generation performance the ULTIMATE XL has to offer.



#### Features

- Ripple-free smooth rotation with 180° vector control system
- Powerful and stable torque across the entire speed range
- Easy-to-hold handpiece design ensures precision
- Lightweight compact body reduces hand fatigue and improves balance
- Unique dust-proof mechanism prevents contamination therefore achieving higher durability
- 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 Brushless Micromotor

## Torque Micromotor & Cord

- Speed : 1,000-50,000 min<sup>-1</sup>
- Max. Torque : 8.7 Ncm



MODEL **UMXL-T** ORDER CODE **Y141441**

- Dimensions : L151 x ø29 (mm) • Weight : 215 g (Cord not included) • Cord Length : 2 m

## Compact Micromotor & Cord

- Speed : 1,000-50,000 min<sup>-1</sup>
- Max. Torque : 6.0 Ncm



MODEL **UMXL-C** ORDER CODE **Y141445**

- Dimensions : L144 x ø27 (mm) • Weight : 181 g (Cord not included) • Cord Length : 2 m

## E-type Micromotor & Cord

- Speed : 1,000-50,000 min<sup>-1</sup>
- Max. Torque : 6.0 Ncm



MODEL **UMXL-EM** ORDER CODE **E342002**

- Dimensions : L118 x ø27 (mm) • Weight : 129 g (Cord not included) • Cord Length : 2 m

# ULTIMATE XL Series

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.

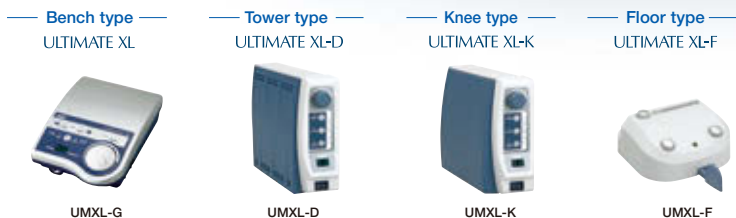
## Advantages

- Lightweight and compact body
- Long-term durability
- Ergonomic shaped handpiece
- Minimal noise and vibration
- Special dust proof mechanism



## ULTIMATE XL Series

Choice of 2 micromotors and 4 control units are available.



# ULTIMATE XL

BRUSHLESS



## Bench Top System

### 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



### Specifications

- Power Supply : AC 120V or 230V 50/60 Hz
- Weight : 2.8 kg
- Dimensions : W167 x D247 x H77 (mm)



## ULTIMATE XL Systems

Torque	MODEL UMXL-GT (120V)	ORDER CODE Y141466
	MODEL UMXL-GT (230V)	ORDER CODE Y141471
Compact	MODEL UMXL-GC (120V)	ORDER CODE Y141467
	MODEL UMXL-GC (230V)	ORDER CODE Y141472

### Contents

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

# ULTIMATE XL-D

BRUSHLESS



## Bench Top Tower System

### 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



An optional bracket is available for wall mounting.

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



### Specifications

- Power Supply : AC 120V or 230V 50/60 Hz
- Weight : 3.3 kg
- Dimensions : W81 x D270 x H230 (mm)

## ULTIMATE XL-D Systems

<b>Torque</b>	MODEL <b>UMXL-DT (120V)</b>	ORDER CODE <b>Y141501</b>
	MODEL <b>UMXL-DT (230V)</b>	ORDER CODE <b>Y141504</b>
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<b>Compact</b>	MODEL <b>UMXL-DC (120V)</b>	ORDER CODE <b>Y141502</b>
	MODEL <b>UMXL-DC (230V)</b>	ORDER CODE <b>Y141505</b>



### Contents

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

# ULTIMATE XL-K

BRUSHLESS



## Knee Control System

### 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



Bracket is available for wall mounting.

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



### Specifications

- Power Supply : AC 120V or 230V 50/60 Hz
- Weight : 3.2 kg
- Dimensions : W90 x D270 x H230 (mm)

## ULTIMATE XL-K Systems

<b>Torque</b>	MODEL <b>UMXL-KT (120V)</b>	ORDER CODE <b>Y141492</b>
	MODEL <b>UMXL-KT (230V)</b>	ORDER CODE <b>Y141495</b>
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<b>Compact</b>	MODEL <b>UMXL-KC (120V)</b>	ORDER CODE <b>Y141493</b>
	MODEL <b>UMXL-KC (230V)</b>	ORDER CODE <b>Y141496</b>



### Contents

- Control unit • Micromotor Handpiece • Handpiece Stand

# ULTIMATE XL-F BRUSHLESS

Floor Type Foot Control System



## 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>.



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



## Specifications

- Power Supply : AC 120V or 230V 50/60 Hz
- Weight : 3.8 kg
- Dimensions : W230 x D292 x H113 (mm)

## ULTIMATE XL-F Systems

<b>Torque</b>	MODEL <b>UMXL-FT (120V)</b>	ORDER CODE <b>Y141510</b>
	MODEL <b>UMXL-FT (230V)</b>	ORDER CODE <b>Y141513</b>
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<b>Compact</b>	MODEL <b>UMXL-FC (120V)</b>	ORDER CODE <b>Y141511</b>
	MODEL <b>UMXL-FC (230V)</b>	ORDER CODE <b>Y141514</b>



## Contents

- Control unit • Micromotor Handpiece • Handpiece Stand

# Turbine Adaptor TA50

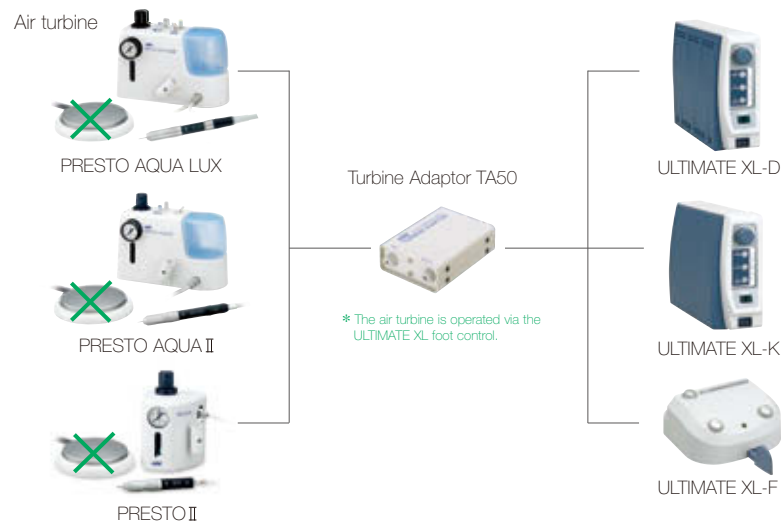
For ULTIMATE XL-D, XL-K and XL-F

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 **TA50** ORDER CODE **U375**

- Turbine adaptor • W75 x D100 x H30 (mm)



# VOLVERE i7 Coreless Micromotor

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.

## Features

- Light and compact to fit into the smallest space
- Microcomputer Control
- Auto Cruise Function

## Specifications

- Power Supply : AC 120V or 230V 50/60 Hz
- Dimensions : W69 x D185 x H167 (mm)
- Weight : 930 g



## Powerful Torque and High Efficiency Micromotor

- Comfort grip
- Built-in Special dust proof mechanism
- High Precision
- Lightweight and compact
- Low vibration and noise



## Specifications (Standard Type)

- Speed : 1,000~35,000 min<sup>-1</sup>
- Max Torque : 4.1 Ncm
- Dimensions : L145 x ø24.5 (mm)
- Weight : 192 g (without cord)
- Cord Length : 1.2 m

## VOLVERE i7 Complete Sets



<b>Standard</b>	MODEL VOLVERE i7 RM (120V)	ORDER CODE Y1002892
	MODEL VOLVERE i7 RM (230V)	ORDER CODE Y1002890
<b>E-Type</b> With Handpiece	MODEL VOLVERE i7 EB (230V)	ORDER CODE Y1002891
	MODEL VOLVERE i7 E (120V)	ORDER CODE Y1002893
<b>E-Type</b> Without Handpiece	MODEL VOLVERE i7 E (230V)	ORDER CODE Y1003523

## Contents

- Control unit
- Micromotor Handpiece
- Foot control
- Handpiece Stand

# MIO Coreless Micromotor

MIO delivers unmatched cost-performance ratio to the budget-conscious. With a speed range of 3,000~35,000 min<sup>-1</sup> and powerful torque throughout the entire range, MIO inherits NSK's high-end micromotor technology.

## Features

- Special dust proof mechanism
- Speed range of 3,000~35,000 min<sup>-1</sup>
- Coreless micromotor



## Specifications

- |                            |                                  |
|----------------------------|----------------------------------|
| <b>Standard Micromotor</b> |                                  |
| • Speed                    | : 3,000~35,000 min <sup>-1</sup> |
| • Dimensions               | : L143 x ø24 (mm)                |
| • Weight                   | : 191 g (without cord)           |
| <b>E-Type Micromotor</b>   |                                  |
| • Speed                    | : 3,000~35,000 min <sup>-1</sup> |
| • Dimensions               | : L77.2 x ø24.5 (mm)             |
| • Weight                   | : 104 g (without cord)           |

## MIO Complete Sets



<b>Standard</b>	MODEL MIO MR 120 (120V)	ORDER CODE Y140806
	MODEL MIO MR 230 (230V)	ORDER CODE Y140804
<b>E-Type</b> Without Handpiece	MODEL MIO E 120 (120V)	ORDER CODE Y140807
	MODEL MIO E 230 (230V)	ORDER CODE Y140805

## Contents

- Control unit
- Micromotor Handpiece
- Foot control
- Handpiece Stand





# PRESTO AQUA LUX **Optic**

Optimum Performance and Precision

Lube Free Air Turbine Handpiece with LED and Water Coolant Spray

### Features

- 320,000 min<sup>-1</sup>
- Water coolant spray
- Requires no lubrication
- Swivel twist-free handpiece
- Low noise and vibration
- Unique dust-proof mechanism
- NSK LED is equivalent to daylight



### LED light enables you to work more efficiently

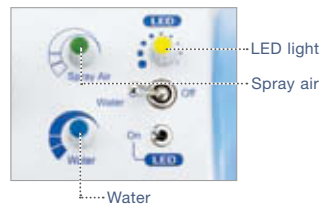
- Accurate lighting at the point of operation does not hide any detail, allowing you to focus on your work more easily.
- LED illuminates fine unevenness and air bubbles of the internal frames which can not be illuminated under the normal bench lighting, thus dramatically improving the quality of internal adjustments.
- Enables precise work and materials assessment under the microscope, which improves efficiency and reduces fatigue.

### Advantages

- 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



### Easy adjustment of the water coolant spray, LED light and spray air



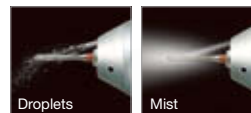
### PRESTO AQUA LUX Complete Sets

MODEL PRESTO AQUA LUX (120V) ORDER CODE Y1001199  
 MODEL PRESTO AQUA LUX (230V) ORDER CODE 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 (120V/230V) • AC Adaptor

### PRESTO AQUA LUX Handpiece



### Water Coolant Options



**Optic** MODEL PRA-LUX-HP ORDER CODE T1002

- PRESTO AQUA LUX handpiece

MODEL PR-AQL Hose ORDER CODE Z1050

- LED incorporated

## PRESTO AQUA II Non-Optic

Lube Free Air Turbine Handpiece with Water Spray

### Advantages

- 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



### PRESTO AQUA II Complete Set

MODEL PRESTO AQUA II ORDER CODE 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 AQUA Handpiece

- 320,000 min<sup>-1</sup>
- Water coolant spray
- Water coolant options
- Requires no lubrication
- Swivel twist-free handpiece
- Low noise and vibration
- Unique dust-proof mechanism



**Non-Optic** MODEL PRA-HP ORDER CODE T816

- PRESTO AQUA handpiece

MODEL QD-J B3 ORDER CODE T354051

- PRESTO AQUA coupling

## PRESTO II Non-Optic

Lube Free Air Turbine Handpiece

### Advantages

- Lightweight and compact



### PRESTO II Complete Set

MODEL PRESTO II ORDER CODE Y150022

#### Contents

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

### PRESTO Handpiece

- 320,000 min<sup>-1</sup>
- Requires no lubrication
- Low noise and vibration
- Unique dust-proof mechanism



**Non-Optic** MODEL PR-HP ORDER CODE T815

- Includes 2m hose