



Create it

DENTAL LABORATORY

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
Torque	UMXL-T 2 M	Y141441

- 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
Compact	UMXL-C 2 M	Y141445

- 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
E-type	UMXL-EM 2 M	E342002

- 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

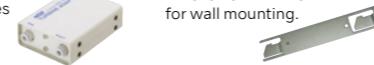
- Power supply : AC 230 V 50/60 Hz
- Weight : 3.2 kg
- Dimensions : W 90 x D 270 x H 230 mm



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
VOLVERE i7 RM (230 V)	Y1002890

### Contents

- VOLVERE i7 control unit
- Micromotor handpiece
- Foot control
- Handpiece stand

## E-type micromotor system With handpiece

MODEL	ORDER CODE
VOLVERE i7 VR-EB (230 V)	Y1002891

### Contents

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

## E-type micromotor system Without handpiece

MODEL	ORDER CODE
VOLVERE i7 E (230 V)	Y1003523

### 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

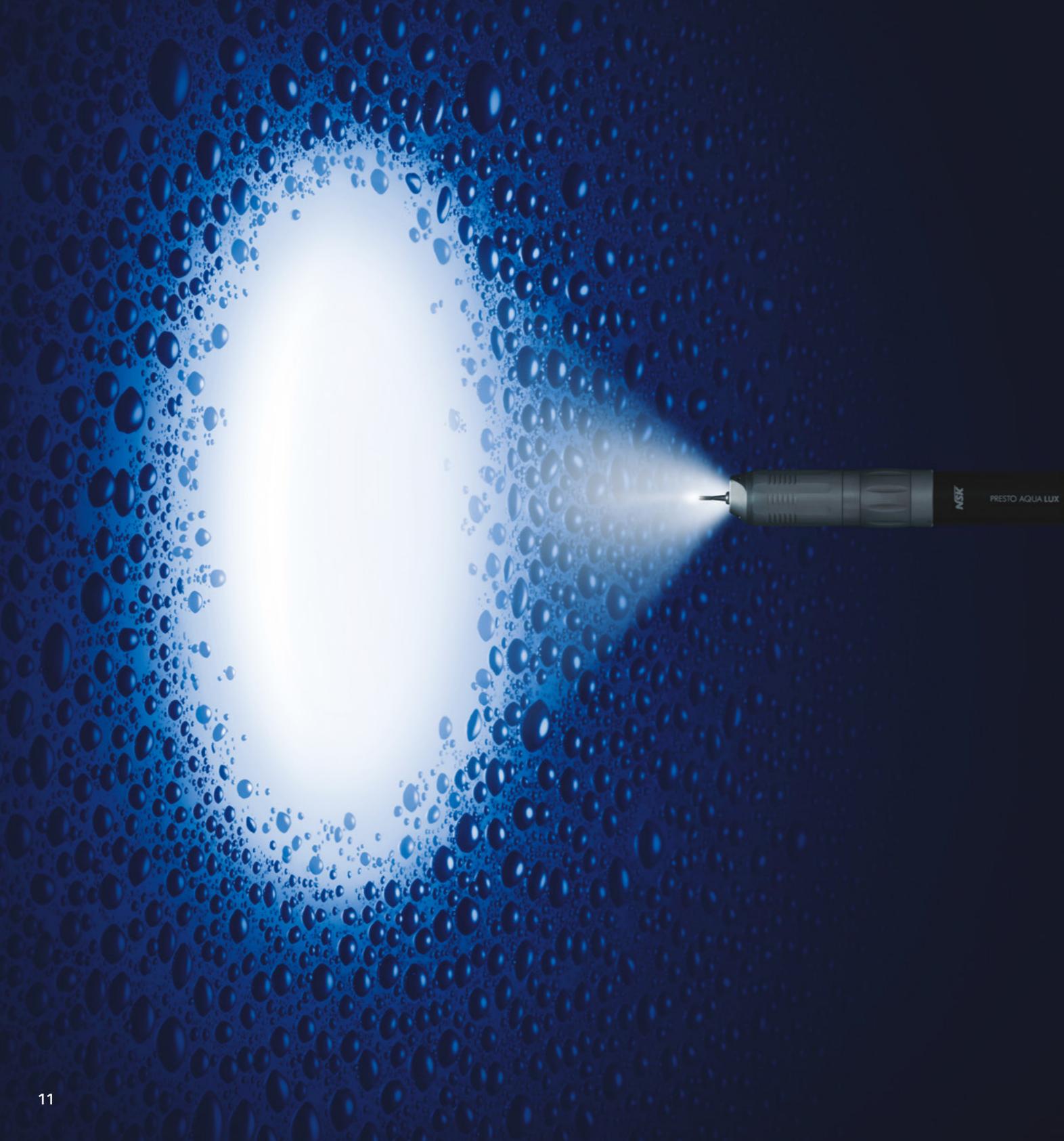
- [E-type motor handpiece]
  - Speed: 1,000-35,000 min<sup>-1</sup>
  - Max. torque: 4.1 Ncm
  - Dimensions: L 109.3 x Ø24.5 mm
  - Weight: 118 g (without cord)
  - Cord length: 1.2 m

# 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
UMXL-G Control unit bench type		Y141468
UMXL-D Control unit tower type		Y141503
UMXL-K Control unit knee type		Y141494
UMXL-F Control unit floor type		Y141512
UMXL-TP Motor handpiece torque type (with 1.2 m cord)		Y141442
UMXL-C Motor handpiece compact type with 1.2 m cord		Y141444
UMXL-TM Motor torque type with 1.2 m cord		E355
UMXL-CM Motor compact type with 1.2 m cord		E356
UMXL-TM 2M Motor torque type with 2 m cord		E355002

### VOLVERE i7

MODEL	PRODUCTS	ORDER CODE
VOLVERE i7 unit		U1137
GX35RM-B & SCD Motor + cord		E1179
GX35EM-B & SCD E-type motor + cord		E1180
UHR45C Handpiece for GX35RM-B		H203002

### PRESTO AQUA LUX

MODEL	PRODUCTS	ORDER CODE
PRESTO AQUA LUX control unit		Z1038A002
PRA-LUX-HP PRESTO AQUA LUX handpiece		T1002
PR-AQL Hose Coupling hose		Z1050

MODEL	PRODUCTS	ORDER CODE
UMXL-CM 2M Motor compact type with 2 m cord		E356002
UHRXL-T Attachment torque type		H269
UHRXL-C Attachment compact type		H271
UMXL-EM Motor E-type with 1.2 m cord		E342
Motor cord T (torque type 1.2 m)		E355051
Motor cord C compact type 1.2 m		E356051
Motor cord T 2M torque type 2 m		E355055
Motor cord C 2M compact type 2 m		E356055
FC-64 Foot control for XL / XL-D		Z304

MODEL	PRODUCTS	ORDER CODE
VR-EB E-type handpiece		H1062
Carbon brush For GX35RM-B / GX35EM-B (pack of 2)		E023011S
Chuck-2.35 A		H203A180A
Wrench for adjusting chuck		K015751

### 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 2 m hose		T815
AFC-40 Foot control		Z127
Handpiece stand		Z010134

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

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