ULTIMATE XL Series

Great Hands Need Great Tools

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

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⁻¹
- Max. Torque: 8.7 Ncm

Compact Micromotor & Cord
- Speed: 1,000–50,000 min⁻¹
- Max. Torque: 6.0 Ncm

E-type Micromotor & Cord
- Speed: 1,000–50,000 min⁻¹
- Max. Torque: 6.0 Ncm
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 Systems
Choice of 2 micromotors and 4 control units are available.

**Bench Top System**

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

Specifications
- Power Supply: AC 120 V or 230 V 50/60 Hz
- Weight: 2.8 kg
- Dimensions: W 167 x D 247 x H 77 (mm)

ULTIMATE XL Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque</th>
<th>Model Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMXL-GT (120 V)</td>
<td></td>
<td>Y141466</td>
</tr>
<tr>
<td>UMXL-GT (230 V)</td>
<td></td>
<td>Y141471</td>
</tr>
<tr>
<td>UMXL-GC (120 V)</td>
<td></td>
<td>Y141467</td>
</tr>
<tr>
<td>UMXL-GC (230 V)</td>
<td></td>
<td>Y141472</td>
</tr>
</tbody>
</table>

Contents
- Control unit
- Micromotor Handpiece
- Foot Control
- Handpiece Stand
ULTIMATE XL-D
Bench Top Tower System

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

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

ULTIMATE XL-D Systems
Torque
- Compact: MODEL UMXL-DC (120 V) ORDER CODE Y141502
- MODEL UMXL-DC (230 V) ORDER CODE Y141505

Contents
• Control unit
• Micromotor Handpiece
• Foot Control
• Handpiece Stand

ULTIMATE XL-K
Knee Control System

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

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

ULTIMATE XL-K Systems
Torque
- Compact: MODEL UMXL-KC (120 V) ORDER CODE Y141493
- MODEL UMXL-KC (230 V) ORDER CODE Y141496

Contents
• Control unit
• Micromotor Handpiece
• Handpiece Stand
ULTIMATE XL-F
Floor Type Foot Control System

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

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

ULTRA S XL-F Systems
Torque
MODEL: UMXL-FT (120 V) ORDER CODE: Y141510
MODEL: UMXL-FT (230 V) ORDER CODE: Y141513

Compact
MODEL: UMXL-FC (120 V) ORDER CODE: Y141511
MODEL: UMXL-FC (230 V) ORDER CODE: Y141514

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.

TA50 Air Turbine Adaptor
MODEL: TA50 ORDER CODE: U375
- Turbine adaptor • W 75 x D 100 x H 30 (mm)
VOLVERE i7 Coreless Micromotor

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.

Features

• Light and compact to fit into the smallest space
• Microcomputer Control
• Ecological Design
• Auto Cruise Function
• Overload alarm system

Foot Control (Variable)

The foot control allows the operator to seamlessly vary the motor speed depending on how far the pedal is being depressed. Using the foot control instead manual adjustments increases efficiency and work flow.

Standard Micromotor

- Special Dust Proof Mechanism
- High Precision
- Light and Compact
- Low Vibration & Low Noise

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.

Specifications

<table>
<thead>
<tr>
<th>Control Unit</th>
<th>Standard Type Motor Handpiece</th>
<th>E-Type Motor Handpiece</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply : AC 120 V or 230 V 50/60 Hz</td>
<td>Speed : 1,000~35,000 min⁻¹</td>
<td>Speed : 1,000~35,000 min⁻¹</td>
</tr>
<tr>
<td>Dimensions : W 69 x O 165 x H 167 (mm)</td>
<td>Max. Torque : 4.1 Ncm</td>
<td>Max. Torque : 4.1 Ncm</td>
</tr>
<tr>
<td>Weight : 993 g</td>
<td>Dimensions : L 145 x ø24.5 (mm)</td>
<td>Dimensions : L 109.3 x ø24.5 (mm)</td>
</tr>
<tr>
<td>Cord Length : 1.2 m</td>
<td>Weight : 192 g (without cord)</td>
<td>Weight : 118 g (without cord)</td>
</tr>
</tbody>
</table>

VOLVERE i7 Complete Sets

<table>
<thead>
<tr>
<th>Standard</th>
<th>E-Type VR-EB (230 V) ORDER CODE Y1002891</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Type E (120 V) ORDER CODE Y1003523</td>
<td></td>
</tr>
<tr>
<td>E-Type E (230 V) ORDER CODE Y1003523</td>
<td></td>
</tr>
</tbody>
</table>

Contents

• Control unit
• Micromotor Handpiece
• Foot control
• Handpiece Stand
PRESTO AQUA LUX Optic
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.

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

PRESTO AQUA LUX Handpiece

Water Coolant Options

Optic model PRA-LUX-HP ORDER CODE T1002
- LED incorporated

Optic model PR-AQL Hose ORDER CODE Z1050
- LED incorporated
**PRESTO AQUA II**  
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⁻¹
- 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

**MODEL** QD-J B3  
**ORDER CODE** T354051

**PRESTO II**  
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⁻¹
- Requires no lubrication
- Low noise and vibration
- Unique dust-proof mechanism

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

**Includes 2 m hose**