ULTIMATE XL FROM NSK

BRUSHLESS MICROMOTOR

ULTIMATE XL

ergonomic & comfort

Powerful Partners®

Experience Unprecedented Smoothness and Power

Now the world-standard laboratory micromotor has evolved to be even smoother and more powerful. Across its entire speed range, the new Ultimate XL delivers stable and powerful torque that you can rely on at any time. With NSK's proprietary 180-degree Field Oriented Control (FOC) technology, it assures you to work more effeciently and stress-free. Carefully sculpted easy-to-hold handpiece shape, proven through repeated field-tests, and excellent body balance help you work tirelessly even on the toughest application that requires concentration for long hours.
Experience the next-generation performance the Ultimate XL has to offer.

Features

- Ripple-free smooth rotation with 180° Field Orientated Control technology
- 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 noise and vibration from hermetically shielded micromotor unit
- 30% increased chuck strength enables work on a wider variety of materials

ULTIMATE XL BRUSHLESS

Torque Micromotor & Cord

- Speed of 1,000 ~ 50,000 min^{-1}
- Max. Torque of 8.7 N·cm

MODEL **UMXL-T** ORDER CODE **Y141-440**

- Dimensions: L151 x ø29 mm • Weight: 219g (cord not included) • Cord Length: 1.2 m

Compact Micromotor & Cord

- Speed of 1,000 ~ 50,000 min^{-1}
- Max. Torque of 6.0 N·cm

MODEL **UMXL-C** ORDER CODE **Y141-444**

- Dimensions: L144 x ø27 mm • Weight: 181g (cord not included) • Cord Length: 1.2 m

E-Type Micromotor & Cord

- Speed of 1,000 ~ 50,000 min^{-1}
- Max. Torque of 6.0 N·cm

MODEL **UMXL-EM** ORDER CODE **E342**

- Dimensions: L118 x ø27 mm • Weight: 129g (cord not included) • Cord Length: 1.2 m

Handpiece Size Comparison with ULTIMATE 500

Torque 10g Lighter

Compact 3g Lighter

ULTIMATE XL Series BRUSHLESS

World's best seller

The ULTIMATE Series offers a choice of four control units, according to space and user requirements. All operations are controlled by NSK's original high-end CPU which maintains smooth starting and stopping ensuring excellence in overall operability.

Key Features

- Speed of 1,000~50,000min^{-1} (XL/XL-D/XL-K)
- Precise control by microcomputer
- User-friendly design
- Auto Cruise Function
- Self-Diagnosis Function
- Audible Function Check
- Easy-to-operate Display Panel
- Digital Speed Display (XL/XL-D/XL-K)
- Maintenance Mode Setting (XL/XL-D/XL-K)
- Error Code Display Function (XL/XL-D/XL-K)
- Available to connect with an air turbine handpiece (XL-D/XL-K/XL-F)

ULTIMATE XL

Bench Type

Bench Top System

Gray

White

Specifications

- Weight: 2.8Kg
- Dimensions: W167 x D247 x H77 mm

ULTIMATE XL Systems

Gray

Contents

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

Torque	MODEL	UMXL-GT (120V)	ORDER CODE	Y141-466
	MODEL	UMXL-GT (230V)	ORDER CODE	Y141-469
Compact	MODEL	UMXL-GC (120V)	ORDER CODE	Y141-467
	MODEL	UMXL-GC (230V)	ORDER CODE	Y141-470

White

Contents

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

Torque	MODEL	UMXL-WT (120V)	ORDER CODE	Y141-479
	MODEL	UMXL-WT (230V)	ORDER CODE	Y141-482
Compact	MODEL	UMXL-WC (120V)	ORDER CODE	Y141-480
	MODEL	UMXL-WC (230V)	ORDER CODE	Y141-483

ULTIMATE XL-D

Tower Type

Bench Top Tower System

ULTIMATE XL-D Systems

Contents

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

Torque	MODEL	UMXL-DT (120V)	ORDER CODE	Y141-501
	MODEL	UMXL-DT (230V)	ORDER CODE	Y141-504
Compact	MODEL	UMXL-DC (120V)	ORDER CODE	Y141-502
	MODEL	UMXL-DC (230V)	ORDER CODE	Y141-505

Specifications

- Weight: 3.3Kg
- Dimensions: W81 x D270 x H230 mm

ULTIMATE XL-K

Knee Type

Knee Control System

ULTIMATE XL-K Systems

Contents

- Control unit
- Micromotor Handpiece
- Handpiece Stand

Torque	MODEL	UMXL-KT (120V)	ORDER CODE	Y141-492
	MODEL	UMXL-KT (230V)	ORDER CODE	Y141-495
Compact	MODEL	UMXL-KC (120V)	ORDER CODE	Y141-493
	MODEL	UMXL-KC (230V)	ORDER CODE	Y141-496

Specifications

- Weight: 3.2Kg
- Dimensions: W90 x D270 x H230 mm

ULTIMATE XL-F

Floor Type

Floor Type Foot Control System

Speed of 1,000~40,000min^{-1}

- Speed and All other functions are controlled via the foot control. For safety, maximum speed is preset to 40,000min^{-1}.

ULTIMATE XL-F Systems

Contents

- Control unit
- Micromotor Handpiece
- Handpiece Stand

Torque	MODEL	UMXL-FT (120V)	ORDER CODE	Y141-510
	MODEL	UMXL-FT (230V)	ORDER CODE	Y141-513
Compact	MODEL	UMXL-FC (120V)	ORDER CODE	Y141-511
	MODEL	UMXL-FC (230V)	ORDER CODE	Y141-514

Specifications

- Weight: 3.8Kg
- Dimensions: W230 x D292 x H113 mm