



ULTIMATE XL SERIES
BRUSHLESS MICROMOTOR

ULTIMATE XL

powerful & comfortable



Powerful Partners®



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

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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

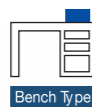
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The ULTIMATE Series offers a choice of four control units, according to space and user requirements. All functions are controlled by NSK's microcomputer which maintains smooth starting and stopping ensuring excellence in overall operability.

Key Features

- Speed of 1,000–50,000min⁻¹ (XL/XL-D/XL-K)
- Precise control by microcomputer
- User-friendly design
- Auto Cruise 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 adaptor (XL-D/XL-K/XL-F)

ULTIMATE XL



Bench Top System



Specifications

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

Gray

White

ULTIMATE XL Systems



Gray

Contents

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



White

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

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



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 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 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





Ahead of World Standard

Spare Parts

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
UMXL-G (120V) Control unit Bench type Gray		Y141-465	UMXL-T 2M Motor handpiece Torque type (with 2m cord)		Y141-441	Motor Cord C 2M Compact type (2m)		E356-055
UMXL-G (230V) Control unit Bench type Gray		Y141-468	UMXL-C 2M Motor handpiece Compact type (with 2m cord)		Y141-445	FC-64 Foot Control (For XL and XL-D)		Z304
UMXL-W (120V) Control unit Bench type White		Y141-478	UMXL-TM Motor Torque type (with 1.2m cord)		E355	Handpiece Stand (Wrench is not included)		Z095-201
UMXL-W (230V) Control unit Bench type White		Y141-481	UMXL-CM Motor Compact type (with 1.2m cord)		E356	Suspension Handpiece Cradle (For XL)		Z083
UMXL-D (120V) Control unit Tower type		Y141-500	UMXL-EM Motor E-type (with 1.2m cord)		E342	Chuck (CHH2.35)		H203A180
UMXL-D (230V) Control unit Tower type		Y141-503	UMXL-TM 2M Motor Torque type (with 2m cord)		E355-002	Handpiece Holder 1.Blue 2.White (For XL)		1.Y900-770 2.Y900-771
UMXL-K (120V) Control unit Knee type		Y141-491	UMXL-CM 2M Motor Compact type (with 2m cord)		E356-002	Wrench for Locking Rotation		H269-751
UMXL-K (230V) Control unit Knee type		Y141-494	UHRXL-T Attachment Torque type		H269	Wrench for Adjusting Chuck		K015-751
UMXL-F (120V) Control unit Floor type		Y141-509	UHRXL-C Attachment Compact type		H271	TA50 Turbine Adaptor (For XL-D, XL-K and XL-F)		U375
UMXL-F (230V) Control unit Floor type		Y141-512	Motor Cord T Torque type (1.2m)		E355-051	Bracket Set (For XL-D and XL-K)		U364-090
UMXL-T Motor handpiece Torque type (with 1.2m cord)		Y141-440	Motor Cord C Compact type (1.2m)		E356-051	Fuse-T3.15A (120V) Fuse-T1.6A (230V)		12001-31510 12001-16010
UMXL-C Motor handpiece Compact type (with 1.2m cord)		Y141-444	Motor Cord T 2M Torque type (2m)		E355-055			

- Control Unit with cord, Handpiece Stand and Handpiece Holder (Handpiece Holder is not equipped with XL-D, XL-K, XL-F)
- Motor handpiece with cord, wrench for Locking Rotation and Adjusting Chuck
- Motor with cord

Turbine Adaptor TA50

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.



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