

Micromotor system MAXIMA EX

Controller

Item No. EXP-120 : AC120V type
Item No. EXP-230 : AC230V type



Weight : 2.3 kgs
Size : 200 (W) x 180 (D) x 110 mm (H)

Controller Features

Micro Computer Control

Micro computer is built-in and enables to make smooth operation. This will control the best torque for each motor automatically.

Load indicator

8 steps load indicator allows operator to see the condition clearly. For longer life time, it will be cautioned for overwork.



Operation volume control

It sounds beeping when pushing button, and also when overworks for cautions. It is possible to adjust sound volume as vol.3, vol.2, vol.1 and none.

Auto Cruise Foot Pedal

It is possible to fix the rotation speed when using foot pedal and it is not necessary to keep stepping foot pedal.



Digital Rotation Display

2 digit display can be used for easy adjustment of rotation speed. Appropriate rotation speed for each tool brings out the best performance.

Error Code

When heating up, overload and defective of motor cord, error code is displayed for each trouble shooting.

Self Diagnostic Function

Controller checks the condition of motor and controller for safety reason. When heating up, fan inside the controller start automatically to reduce the temperature.

Mode Selection

Controller automatically finds motor on A or B. It is also possible to use foot pedal only connecting to controller.

Rotary Handpieces



Detachable head



EX051

Rotation speed : 55,000 rpm
Max. torque : 3.6 N.cm
Weight : 190 g
Size : 153.0 mm (L) x 27.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm



EX121

Rotation speed : 20,000 rpm
Max. torque : 6.4 N.cm
Weight : 220 g
Size : 163.5 mm (L) x 27.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm



EX131

Rotation speed : 35,000 rpm
Max. torque : 5.4 N.cm
Weight : 220 g
Size : 163.5 mm (L) x 27.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm



EX201

Rotation speed : 8,000 rpm
Max. torque : 9.8 N.cm
Weight : 276 g
Size : 175.8 mm (L) x 31.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm



EX211

Rotation speed : 15,000 rpm
Max. torque : 8.8 N.cm
Weight : 276 g
Size : 175.8 mm (L) x 31.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm



EX231

Rotation speed : 30,000 rpm
Max. torque : 6.8 N.cm
Weight : 276 g
Size : 175.8 mm (L) x 31.5 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm

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Motors



It is easy to start and stop by Hand Switch.
It is not necessary to push the button on the controller.

Hand Switch



EX05
Rotation speed : 55,000 rpm
Max. torque : 3.6 N.cm
Weight : 90 g
Size : 66.5 mm (L) x 27.5 mm (D)
Motor cord length : 1.5 meters



EX12
Rotation speed : 20,000 rpm
Max. torque : 6.4 N.cm
Weight : 120 g
Size : 77.0 mm (L) x 27.5 mm (D)
Motor cord length : 1.5 meters



EX13
Rotation speed : 35,000 rpm
Max. torque : 5.4 N.cm
Weight : 120 g
Size : 77.0 mm (L) x 27.5 mm (D)
Motor cord length : 1.5 meters



EX20
Rotation speed : 8,000 rpm
Max. torque : 9.8 N.cm
Weight : 176 g
Size : 89.3 mm (L) x 31.5 mm (D)
Motor cord length : 1.5 meters



EX21
Rotation speed : 15,000 rpm
Max. torque : 8.8 N.cm
Weight : 176 g
Size : 89.3 mm (L) x 31.5 mm (D)
Motor cord length : 1.5 meters



EX23
Rotation speed : 30,000 rpm
Max. torque : 6.8 N.cm
Weight : 176 g
Size : 89.3 mm (L) x 31.5 mm (D)
Motor cord length : 1.5 meters

Heads



JA15
Standard Head
Weight : 100 g
Size : 86.5 mm (L) x 25.8 mm (D max)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm
Applicable motor : EX20, EX21, EX23



JA33
Heavy Duty Head
Weight : 150 g
Size : 95.0 mm (L) x 26.4 mm (D max)
Standard collet size : 6.0 mm
Special collet size : 2.35, 3.0, 3.175, 6.35 mm
Applicable motor : EX20, EX21, EX23



JA45
Slender Head
Weight : 120 g
Size : 121.0 mm (L) x 25.8 mm (D max)
Standard collet size : 3.0 mm
Special collet size : 2.35 mm, 3.175 mm
Applicable motor : EX20, EX21, EX23



JR21
90° Angle Head
Weight : 200 g
Size : 80.5 mm (L) x 25.4 mm (D) x 45.5 mm (H)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm
Applicable motor : EX20, EX21



JS21
120° Angle Head
Weight : 210 g
Size : 89.5 mm (L) x 25.4 mm (D) x 47.5 mm (H)
Standard collet size : 2.35 mm, 3.0 mm
Special collet size : 3.175 mm
Applicable motor : EX20, EX21



JP11
Swing Head
Weight : 140 g
Size : 102.0 mm (L) x 26.0 mm (D max)
Available tool shank : 2.0 - 4.7 mm
Applicable motor : EX20



UT15
1/4 Reduction Gear
Weight : 150 g
Size : 43.5 mm (L) x 26.0 mm (D max)
Applicable motor : EX20, EX21, EX23
(Connected between the motor and head for four times torque and reduce speed one fourth)

Accessories



VC90
Speed Control Foot Pedal
Suitable for EXP-120/230



TRC02
Handpiece Cradle



KE50-155
Handpiece extension cord
Length : 3.0 meters



KE50-156
Adaptor for PA111/113