



## NEW MICROMOTOR SYSTEM MAXIMA EX

CONTROLLER EXP series (EXP-100 / EXP-120 / EXP-230)



Input voltage : AC100,120 or 230V

Weight : 2.3 kgs

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

### CONTROLLER FEATURES

#### Micro computer control

Micro computer is built-in and enables to make smooth operation. This will control 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.

#### Digital Rotation Display

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

#### Self Diagnostic Function

Controller checks 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.

#### 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.

#### Error Code

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

#### Auto Cruise Foot Pedal

It is possible to fix the rotation speed when using foot pedal. No more necessary to keep stepping foot pedal.

### MOTORS EX series

#### EX12 / EX13 STANDARD type

Weight : 120 g (without cord)  
Size : 27.5 mm (D) x 77.0 mm (L)



EX12 : 1,000 - 20,000 rpm, 6.4 N.cm (Max.Torque)

EX13 : 1,000 - 35,000 rpm, 5.4 N.cm (Max.Torque)

#### EX20 / EX21 / EX23 HIGH POWER type

Weight : 170 g (without cord)  
Size : 31.5 mm (D) x 89.3 mm (L)



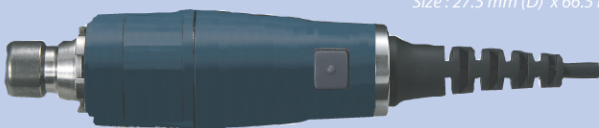
EX20 : 1,000 - 8,000 rpm, 9.8 N.cm (Max.Torque)

EX21 : 1,000 - 15,000 rpm, 8.8 N.cm (Max.Torque)

EX23 : 1,000 - 30,000 rpm, 6.8 N.cm (Max. Torque)

#### EX05 HIGH SPEED type

Weight : 90 g (without cord)  
Size : 27.5 mm (D) x 66.5 mm (L)



EX05 : 2,000 - 55,000 rpm, 3.6 N.cm (Max.Torque)

### MOTORS FEATURES

#### 6 types motors

6 types motors are prepared for your application, Standard type (2 types) High power type (3 types) and High speed type (1 type).

#### Hand switch

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

### HEADS

The following Heads are available.

#### JA15 Standard head



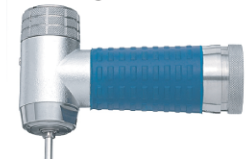
#### JS21 120° Angle head



#### JA33 Heavy duty head



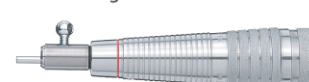
#### JR21 90° Angle head



#### JA45 Slender head



#### JP11 Swing head



#### UT15 1/4 Reduction gear

