



How to use

How to operate Emax EVolution

Foot pedal

Control unit

Motor handpiece



Ultra-precision brushless
micro-grinder

Emax Emax EVolution
EVolution

① Names of parts

Forward/reverse select switch

The direction of motor rotation can be selected.



▶ Forward rotation (clockwise)



▶ Reverse rotation (counterclockwise)



Motor rotation speed display

40 = 40,000 rotations/min

Speed control volume

The rotation speed can be easily adjusted.

LOAD meter

Displays the load status of the motor.

Motor connector A

Power supply switch

Motor connector B

Motor switch /

When  /  is turned ON/OFF, the motor connected to motor connector A/B will rotate/stop. *  and  cannot be operated simultaneously.

② How to change tools

1. Loosen the ring and remove the tool.
2. Replace the tool and tighten the ring until a click sound is produced.



③ How to start the control unit

1. Turn speed control volume completely to the left.
2. Switch ON the power supply.



* Please make sure that the speed control display is set to .

④ How to start/stop the motor and adjust the rotation speed

* When motor connector A is connected to the motor.


— To start —

1. Press  or the motor smart switch. The motor starts to rotate.



Motor smart switch

— To stop —

2. When the motor is rotating, press  or the motor smart switch. The motor stops rotating.

— To adjust the rotation speed —

1. Turn the speed control volume to adjust the rotation speed.



5 Convenient functions

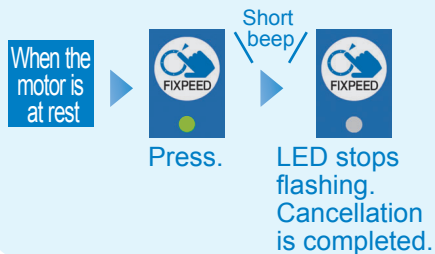
—FIXPEED function—

FIXPEED allows everyone to set the speed of the motor in advance. The speed that is frequently used can be easily set at the touch of a button.

How to set



How to cancel a setting



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Excellent operability that makes the best use of advanced high performance

- ① 1. Loosen the ring and remove the tool.
2. Replace the tool and tighten the ring until a click sound is produced.



- ② Insert the motor cord plug and the power supply cord.



- ③ 1. Turn speed control volume completely to the left.
2. Switch ON the power supply.



* Please make sure that the speed control display is set to **■**.

- ④ Press the motor ON/OFF switch or the smart switch.
The motor starts to rotate.



- ⑤ Adjust the rotation speed using the speed control volume.



* The motor stops when the motor ON/OFF switch or the smart switch is pressed again.

Names of parts



Motor switch

When **①** is turned ON/OFF, the motor connected to motor connector A/B will rotate/stop. * **①** and **②** cannot be operated simultaneously.

Specifications (Ring Standard Emax EVOLution Standard Set)

Control unit

- Model NE249
- Weight 2.3 kg
- Power source AC120V, 50/60Hz, 41VA / AC230V, 50/60Hz, 41VA
- Dimensions W130 × D254 × H97 (mm)

Handpiece

- Model ENK-410S
- Motor Attachment IR-310
- Max power 73 W
- Max torque 4.3 cN·m
- Weight 182 g (w/o Cord)
- Speed range 1,000 - 40,000 min⁻¹