

MINIWARE Motion Control Electric Screwdriver ES15

MINIWARE Motion Control Electric Screwdriver is a new type of intelligent electric screwdriver independently developed by e-Design, which can automatically recognize User's operating motions and rotate accordingly. Its launching provides Users with a new operating experience of electric screwdriver. As an upgrade version, Motion Control Electric Screwdriver ES15 is a modular designed smart electric screwdriver with a built-in angular velocity sensor and MCU chips, compatible with multi-types of bits.

ES15 can be divided into two modules--main control and power module, and its whole body adopts fine high-quality 304 stainless steel shell with engraved novelty anti-skid patterns on the front shell. Compared with the previous versions of MINIWARE Motion Control Electric Screwdriver, ES15 has a larger capacity battery and OLED screen, which can offer longer working hours and display more working parameters; in addition, ES15 also provides a number of smart functions and operation upgrades:

- **Smart Motion Control Recognition and Directional Modes:** ES15 can be set to different working modes of Smart Motion Control and Directional Modes (forward rotation & reverse rotation); Motion Control is suitable for quick maintenance, and Directional Modes is used for heavy disassembly and assembly tasks;
- **Impact Function:** The impact function can ensure all screws are set in place with the precise torque;
- **Battery Management:** Intelligent Battery Management System manages battery power reasonably and prolongs battery life;
- **Adjustable Sensitivity:** The sensitivity and speed of motion control can be adjusted according to usage habits to achieve a better operating experience;
- **Anti-stuck Function (Retreat):** Specially designed for hexagon screws to prevent the screwdriver bit from getting stuck in slot, allowing you to operate freely;
- **Compatible with several bit specifications:** compatible with 4mm hexagon bits and 800 bits, suitable for more usage scenarios;
- **Upgraded Power Module:** Coreless motor cooperates with planetary gear and two-way overrunning clutch to provide sufficient power;



- **Front LED Lights:** The front shadowless LED lights illuminates the working spot, making it easier for work.

Other Functions:

- ◆ **Use It Automatically or Manually:** User can operate ES15 either with power on or tighten/loosen screws manually;
- ◆ **New SET Button:** For quick menu setting and combination unlocking;
- ◆ **Firmware Upgrade Function:** Run with e-Design self-developed DFU software, upgrade as you wish, and optimize the experience.

Product Parameters:

Product Name	MINIWARE Motion Control Electric Screwdriver
Model	ES15
Body Material	304 stainless steel
Screen	128*32dpi OLED
Bit Specification	Compatible with 4mm hexagon and 800 bits
Manual Torque	20kgf.cm
Electronic Torque	1.6kgf.cm
Idling Speed	470rpm
Battery Capacity	800mAh
Working Voltage	3-5V
Working Time	6 hours (no load)
Charging Input	USB-C 5V
Charging Time	50 minutes
Size (without bit)	19mm in diameter, 146mm in length
Weight	120g
Other functions	Directional mode (self-setting forward or reverse), impact function, anti-stuck function (Retreat), battery management, front lights, firmware upgrade