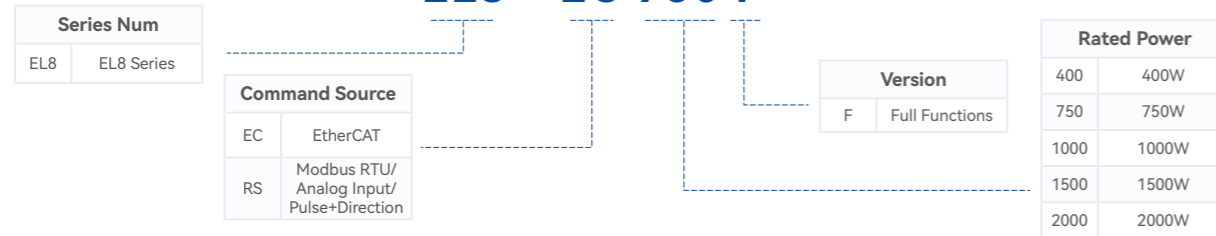


Model number structure

EL8 - EC 750 F



Specifications

EL8 Series	EL8-EC400F EL8-RS400F	EL8-EC750F EL8-RS750F	EL8-EC1000F EL8-RS1000F	EL8-EC1500F EL8-RS1500F	EL8-EC2000F EL8-RS2000F
Power Rating (W)	400W	750W	1000W	1500W	2000W
Rated Current (A)	2.8	5.5	7.0	9.5	12
Peak Current (A)	9.3	16.9	21.2	31.1	36
Dimension H*L*W (mm)	150*150*43	150*160*55		80*168*183	

EL8 Series Upgraded Hardware Features

Model	EtherCAT	Modbus/ Pulse+Dir/ Analogue	USB Type-C Tuning Port	Direct Drive Holding Brake	2nd Encoder
EL8-EC***F	√		√	√	√
EL8-RS***F		√	√	√	√

Model	STO SIL3	Digital Input	Digital Output	Analog Input	Analog Output
EL8-EC***F	√	8	3	2	2
EL8-RS***F	√	10	6	3	2

EL8 Series Whole New Advanced Functions

Model	Zero Tracking Control	Full Closed Loop Control	One-Click Tuning	42-points Position Comparison	PR mode	Touch Probe Function
EL8-EC***F	√	√	√	√		√
EL8-RS***F	√	√	√	√	√	



EtherCAT



Modbus

STO
SIL3

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D230423

EL8 Series High End AC Servo System

Product Introduction

EL8 Series

EL8 Series AC Servo Drives are our latest high end servo drives which are packed with a whole lot more new hardware and software features. This series of servo drive also comes with another version which combines analogue control, Modbus RTU protocol (RS485) and pulse + direction control into one. We added STO SIL3, analogue I/Os, holding brake port and EL8 series now supports a 2nd external encoder as well with our full closed loop control.



EL8 – EC

EL8 – RS

Applications



Robotic Arm



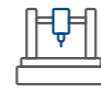
Precise Machining



Semiconductor



Electronics



Fiber Laser

Ports & Connectors

- Control circuit input L1C, L2C
- Main power supply input L1, L2, L3
- DC bus positive terminal P+
- Internal regenerative resistor B1
- External regenerative resistor B2
- DC bus negative terminal
- Motor power output (U,V,W,PE)
- Holding brake terminal (BR1, BR2)
- Ground terminal
- CN5:RS485/Gantry communication
- CN8: Analog/Frequency divider output
- Warning indicators
- 8-segment display
- 5 push buttons
- USB Type-C tuning
- CN6: STO
- CN3: EtherCAT-IN
- CN4: EtherCAT-OUT
- CN1: Control I/O(26-pin)
- CN7: External encoder
- CN2: Motor encoder

EL8 – EC Series

- Control circuit input L1C, L2C
- Main power supply input L1, L2, L3
- DC bus positive terminal P+
- Internal regenerative resistor B1
- External regenerative resistor B2
- DC bus negative terminal
- Motor power output (U,V,W,PE)
- Holding brake terminal (BR1, BR2)
- Ground terminal
- CN3/CN4:RS485/Gantry communication
- Warning indicators
- 8-segment display
- 5 push buttons
- USB Type-C tuning
- CN6: STO
- CN1: Control I/O(50-pin)
- CN7: External encoder
- CN2: Motor encoder

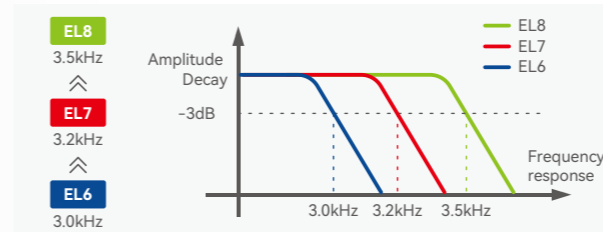
EL8 – RS Series

Servo drive features

Better performance

• Quick Frequency Response

Frequency response of 3.5kHz, quicker system response and better precision.



• High quality servo motor

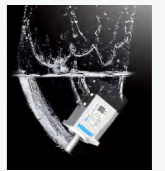
IP rating of IP67 with better performance and reliability. Motor comes with direct connectors which is easier for installation and more reliable.



Splash



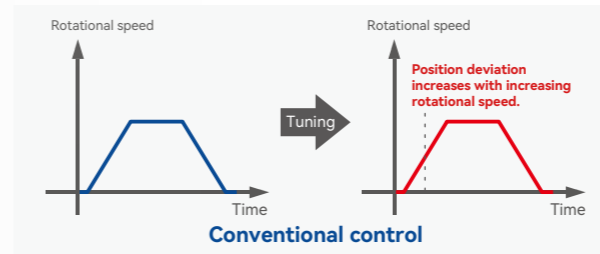
Moisture



Submerged

• Zero Tracking Control (ZTC)

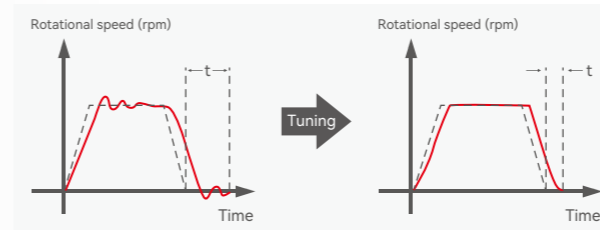
Internal zero tracking control, increases system process precision, shorten tuning time.



More functions

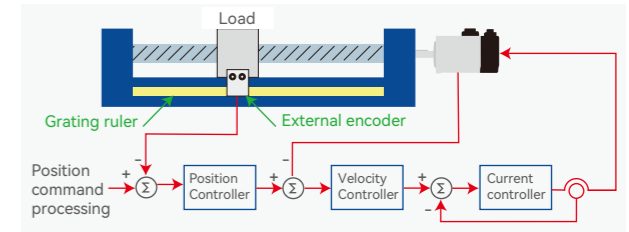
• One-click tuning

Upgraded one-click tuning. Follow a few easy steps to get servo tuning done. Gain adjustments will be automatically set, shortening tuning time.



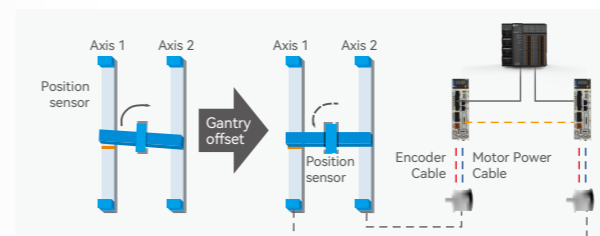
• Full closed loop control

EL8 series servo drives support full closed loop control which can eliminate the position deviation due to mechanical gap, and precision will have an obvious improvement.



• Gantry synchronization

Gantry synchronization MIMO technique, breaking through foreign technological barrier. EL8 series servo drive is able to realize axis synchronization and alignment automatically without input from master device. When position deviation exceeds alarm threshold, alarm will occur to guarantee operational safety.



Safer applications

• Safe Torque Off (SIL3)

When Safe Torque Off is activated, internal circuit will cut off motor power supply immediately, guaranteeing operator and machine safety.

