



12 kg



1304 mm



±0.05 mm



Robotic Arm

Payload		12kg
Radius		1304mm
Accuracy		±0.05mm
Axis		6
Joints rotation	J1-J6	±360°
	J1-J2	120°/s
Joints speed	J3	150°/s
	J4-J6	180°/s
Typical TCP Speed		1.5 m/s
IP rating		IP65 (optional IP68)
Temperature range		-10~50°C
Relative humidity		<90% (non-condensing)
Noise reduction		<70db
Typical power usage		435w
Mounting		Any angle
Tool I/O connector		M8, 8pin
Tool I/O ports		4 config. DI / DO; 1 AI, 1 AO
Tool I/O power supply		0 / 12V / 24V; 3A / 2A / 1A
Tool I/O communication		RS485
Footprint		Ø 190 mm
Weight		34 kg
Material		Aluminum, steel, plastic, rubber
Cable length		5.5m*
Certifications		ISO 13849, ISO 10218, ISO/TS 15066, ISO 14644 cleanroom class 5, RoHS; SEMI-S2; UL, CE, KCs
Programming		Python-script, graphical proprietary user interface free-drag/offline programming

* Optional cable lengths of 1.5m, 3m and 10m and additional extensions up to 10m are available.



Featuring both a long reach and a high payload, CS612 strikes the perfect balance between flexibility and power, and opens the door to an infinite range of applications, including machine tending, welding and mobility solutions with AGVs.

Standard controller

Type	AC
I/O ports	24 DI, 24 DO (8 safety config. DI/DO); 2 AI, 2 AO; 4 High-Speed DI
I/O power supply	24V/3A (internal), 6A (external)
Communication	RS485, Ethernet TCP/IP, Modbus TCP/RTU, Ethernet/IP slave, Profinet slave
Size	505 mm x 257 mm x 447 mm
IP Rating	IP44
Weight	12.5 kg
Power source	100~240 VAC, 50~60 Hz
Temperature range	0~50°C
Relative humidity	95% (non-condensing)
Material	Aluminum, Steel



The standard controller integrates a holder to optionally attach the TP

OEM controller

Type	DC / AC
I/O ports	24 DI, 24 DO (8 safety config. DI/DO); 2 AI, 2 AO; 4 High-Speed DI
I/O power supply	24V/3A (internal), 6A (external)
Communication	RS485, Ethernet TCP/IP, Modbus TCP/RTU, Ethernet/IP slave, Profinet slave
Size	495mm x 200mm x 227mm
IP Rating	IP40
Weight	4.5 kg
Power source	AC: 100~240 VAC, 50~60 Hz DC: 19~72VDC
Temperature range	0~50°C
Relative humidity	95% (non-condensing)
Material	Aluminum, Steel



The optional OEM controller is suitable for integrators, OEM partners and users who want to create their own custom design.

Teach Pendant

	ERP400	ERP400S
Size	301mm x 232mm x 54mm	301mm x 232mm x 105mm
Screen size	12.1"	
Resolution	1280 x 800 pixels	
IP rating	IP54	
Weight	1.7 kg	1.8 kg
Cable length	5.5 m	
Temperature range	0~50°C	
Relative humidity	5%~95% (non-condensing)	
Material	Aluminum, plastic, rubber	
Input method	Capacitive full touch-screen	Capacitive full touch-screen, 3-mode enable key, jogging-keys, function keys



The CS teach pendant contains Elite Robots proprietary software. The optional ERP400S version integrates jogging and function keys and a 3-mode enable key for enhanced safety.

