ELITE ROBOTS

12 kg | 1304 mm | ±0.05 mm

CS612

CS SERIES

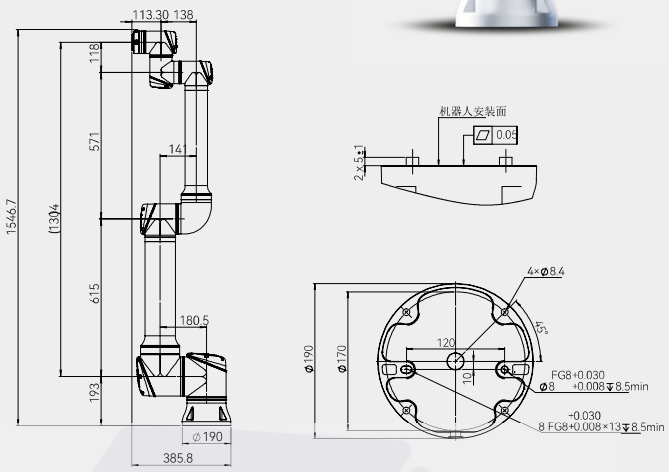


Robotic Arm

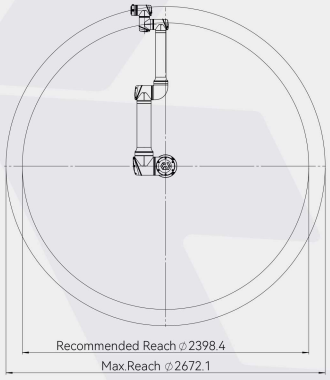
Payload		12kg
Radius		1304mm
Accuracy		±0.05mm
Axis		6
Joints rotation	J1-J6	±360°
Joints speed	J1-J2	120°/s
	J3	150°/s
	J4-J6	180°/s
Typical TCP Speed		1.5 m/s
IP rating		IP65 (optional IP68)
Temperature range		-10~50℃
Relative humidity		<90% (non-condensing)
Noise reduction		<70db
Typical power usage		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.*

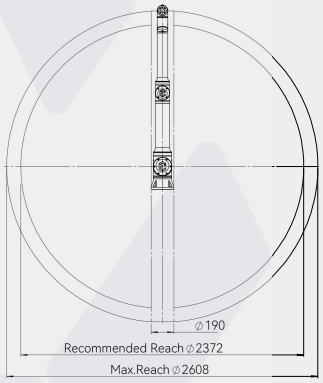
CS612 Dimension

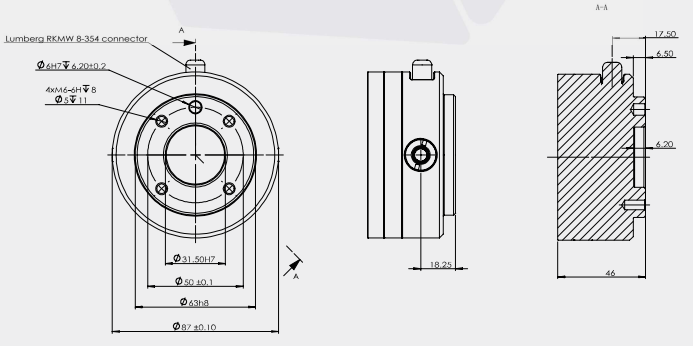


CS612 Working Area
Top View



CS612 Working Area
Side View







Featuring both a long reach and a high payload, CS612strikes 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

Model	ERB3C300	ERB3C600	ERB3C2K0
Type	Standard AC		
I/O interface	16 x DI (PNP/NPN switch), 16 x DO; 8 x CI (PNP/NPN switch), 8 x CO; 2 x AI, 2 x AO, 4 x High-Speed DI		
I/O Power Supply	24V/2A		
Communication interface	Ethernet TCP/IP, UDP, Modbus TCP/RTU, RS485/RS232, Profinet slave, Ethernet/IP slave, CCLink slave (optional)		
Dimensions (W x H x D)	505mm × 447mm × 257mm		
Protection level	IP44		
Weight	13kg		
Power source	100~240VAC, 50~60Hz		
Operating temperature	0°C~50°C	-10°C~50°C	0°C~50°C
Ambient humidity	90%		
Material	Aluminum alloy, steel		



The CS standard controller features a compact and maintenance-friendly design (three-modules safety IO card and screw-lock fastener). It integrates a holder to optionally attach the TP.

Mini controller

Model	ERB1C600ME-Mini
Type	DC MINI
I/O interface	8 x DI, 8 x DO; 8 x CI (PNP/NPN switch), 8 x CO; 2 x AI, 2 x AO
I/O Power Supply	24V/2A
Communication interface	Ethernet, Profinet slave, Ethernet/IP slave, FINS TCP, Modbus TCP/RTU, RS485, CCLink slave (optional)
Dimensions (W x H x D)	164.2mm × 130mm × 72mm
Protection level	IP20
Weight	1.5kg
Power source	45~55VDC
Operating temperature	-10°C~50°C
Ambient humidity	90%
Material	Aluminum alloy, steel



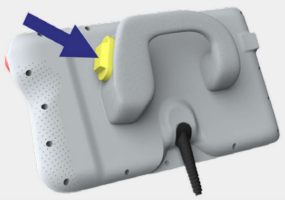
The MINI controller stands out for its very low weight and compact dimensions, ensuring maximum flexibility and integrability for integrators, OEM partners, and users who want to create their own custom design.

Teach Pendants

Model	ERP500 (standard)	ERP500S (optional)
Dimensions (W x H x D)	304mm x 169mm x 93mm	
Resolution	1280 x 800	
Screen size	10.1“	
Front buttons	12 motion-control buttons; 2 speed-adjustment buttons	
Rear button	Free-drive programming	3-position enable key
IP protection level	IP54	
Weight	0.96 kg	
Cable length	5.5 m	
Operating temperature	-10°C~50°C	
Ambient humidity	95%	
Material	Aluminum alloy, plastic, silicone rubber	



The standard ERP500 TP integrates a rear button for convenient free-drive programming



Featuring the same front design as the ERP500, the optional ERP500S TP integrates a rear 3-modes enable key for enhanced safety