

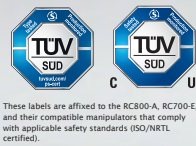
Achieve higher productivity and heavier payloads - with proven reliability

- Successor to Epson's best-selling LS series, delivering enhanced productivity and payload while maintaining trusted reliability
- Cycle time improved for greater throughput and efficiency
- Supports heavier payloads for higher-load applications
- Compatible with the RC800-A controller for advanced functions and flexible system integration
- Battery-less encoder for reduced maintenance



Model Number LS8-C 60 2 S

Payload	8	8kg
Arm length	50	500mm
	60	600mm
	70	700mm
Installation environment	S	Standard
	C	Cleanroom
Joint #3 stroke	2	200mm: Standard-model 170mm: Cleanroom-model (with bellows)



These labels are affixed to the RC800-A, RC700-L, and their compatible manipulators that comply with applicable safety standards (ISO/NRTL certified).

Specifications

Model number		LS8-C502S	LS8-C502C	LS8-C602S	LS8-C602C	LS8-C702S	LS8-C702C
Arm length	Arm #1+#2	500 mm		600 mm		700 mm	
	Arm #3	200 mm	170 mm	200 mm	170 mm	200 mm	170 mm
Payload *1	Rated	3.0 kg					
	Max.	8.0 kg					
Repeatability	Joints #1+#2	±0.02 mm					
	Joint #3	±0.01 mm					
	Joint #4	±0.01 deg					
Standard cycle time *2		0.298 sec		0.314 sec		0.344 sec	
Maximum operating speed	Joints #1+#2	7120 mm/sec		7850 mm/sec		8590 mm/sec	
	Joint #3	1100 mm/sec					
	Joint #4	2000 deg/sec					
Joint #4 allowable moment of inertia *3	Rated	0.01 kg·m²					
	Max.	0.12 kg·m²					
Joint #3 press force		100 N					
Installation environment		Standard	Cleanroom *4 & ESD *5	Standard	Cleanroom *4 & ESD *5	Standard	Cleanroom *4 & ESD *5
Mounting method		Tabletop mounting					
Weight (not include the weight of cables)		19 kg		20 kg		21 kg	
Installed wire for customer use		D-sub (15 pin x 1, Current capacity 1 A(Rated)), RJ45 (8 pin x 1)					
Installed pneumatic tube for customer use		ø4 mm x 1, ø6 mm x 2 (Allowable pressure: 0.59 Mpa [6 kgf/cm²: 86 psi])					
Compatible controller		RC800-A					
Power supply		AC200-240 V Single phase					
Maximum rated capacity*6		1.5 kVA					
Cable length		Standard : 3 / 5 / 10 / 15 / 20 m Flexible : 5 / 10 / 15 / 20 m					
Safety standard		CE, KCs, NRTL					

*1: Do not apply the load exceeding the maximum payload. *2: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at payload setting 2kg, path coordinates optimized for maximum speed.

*3: Set the parameters by the Inertia command according to the load and end effector status (refer to the manual for the parameter calculation method). *4: Complies with ISO Class 4 (ISO14644-1).

*5: Main resin parts of the ESD model use conductive materials or apply plate processing. For the tip of the Manipulator (tool mounting part), we have confirmed that it is +/- 5 V or less even immediately after operating the measurement under our standard.

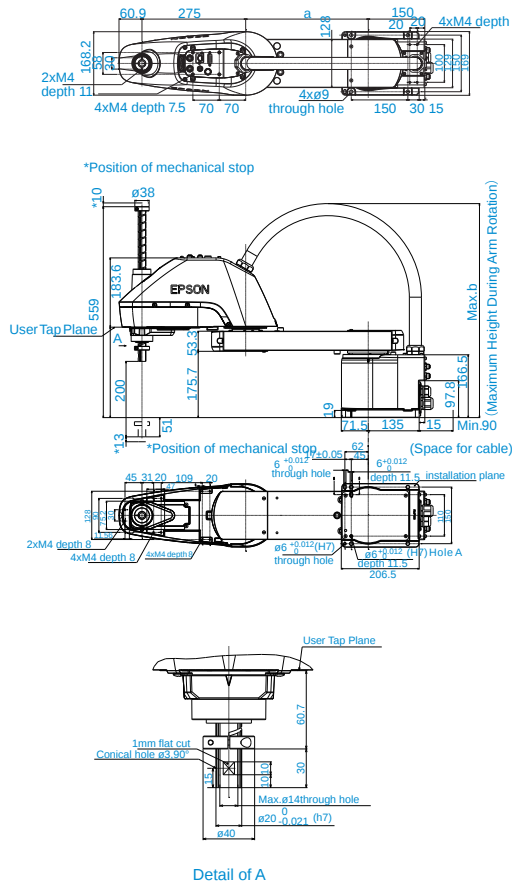
*6: Varies according to operating environment and program.

The values of the products listed in this sheet are measured under various conditions of in-house evaluation. They may vary depending on the environment and conditions of use.

Outer Dimensions

[Unit: mm]

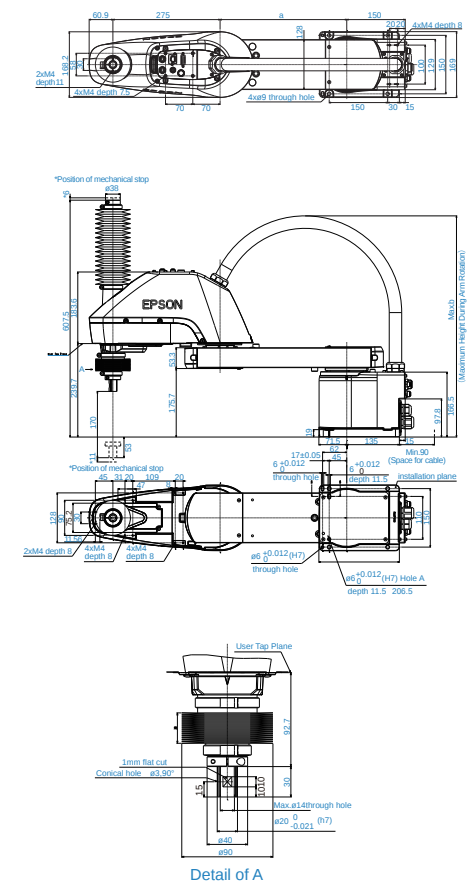
Standard-model



Detail of A

	LS8-C502S	LS8-C602S	LS8-C702S
a	225	325	425
b	560	590	620

Cleanroom-model

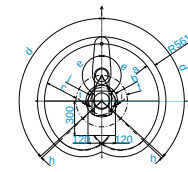


Detail of A

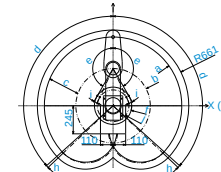
	LS8-C502C	LS8-C602C	LS8-C702C
a	225	325	425
b	560	590	620

Motion Range

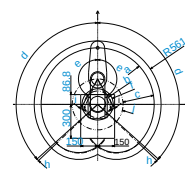
LS8-C502S



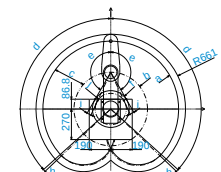
LS8-C602S



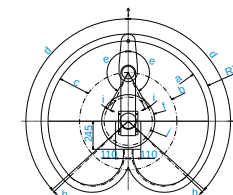
LS8-B502C



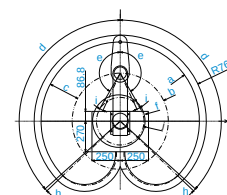
LS8-B602C



LS8-C702S



LS8-B702C



Model	LS8-C502□	LS8-C602□	LS8-C702□
a Arm #1+Arm #2 (mm)	500	600	700
b Arm #1 length (mm)	225	325	425
c Arm #2 length (mm)		275	
d Joint #1 motion angle (°)		132	
e Joint #2 motion angle (°)		150	
f Motion range (mm)	138.1	162.6	232
h Angle to the mechanical stop of Joint #1 (°)		1.5	
i Angle to the mechanical stop of Joint #2 (°)		5.1	
j Mechanical stop area (mm)	118.3	138.3	210.3