

LS6

LS-Series SCARA Robots

Low Cost and High Performance

- Arm Lengths Range from 500-700 mm
- Industry Leading Ease of Use
- Fast Cycle Throughput



Specifications

		LS6-502	LS6-602	LS6-702
Mounting type			Tabletop	
Arm length	Arm #1, #2	500 mm	600 mm	700 mm
Max. operating speed	Joints #1, #2	6150 mm/s	6800 mm/s	7450 mm/s
	Joint #3		1100 mm/s	
	Joint #4		2000°/s	
Weight(cables not included)		17 kg	17 kg	18 kg
Repeatability	Joints #1, #2		±0.02 mm	
	Joint #3		±0.01 mm	
	Joint #4		±0.01°	
Max. motion range	Joint #1		±132°	
	Joint #2		±150°	
	Joint #3		200 mm	
	(Cleanroom model)		(170 mm)	
	Joint #4		±360°	
Payload	Rated		2 kg	
	Maximum		6 kg	
Standard cycle time¹		0.38 sec	0.39 sec	0.42 sec
Joint #4 allowable moment of inertia²	Rated		0.01 kg±m2	
	Maximum		0.12 kg±m2	
Motor power consumption	Joint #1		200 W	
	Joint #2		200 W	
	Joint #3		100 W	
	Joint #4		100 W	
Joint #3 downward force			100 N	
Home			Home-return-less	
Installed wire for customer use			15Pin D-Sub	
Installed pneumatic tube for customer use			Φ4mm×1, Φ6mm×2	
Installation environment			Standard /Cleanroom ³	
Applicable controller			RC90	
Safety standard			CE, ANSI/RIA15.06-2012	

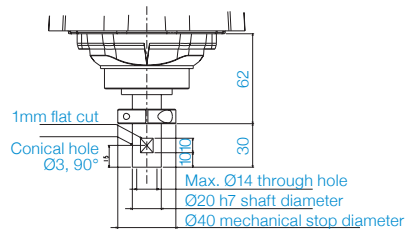
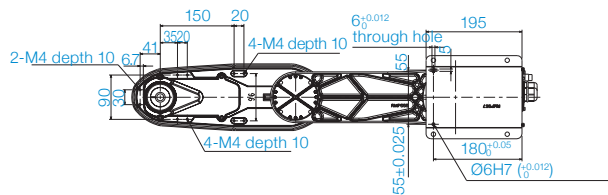
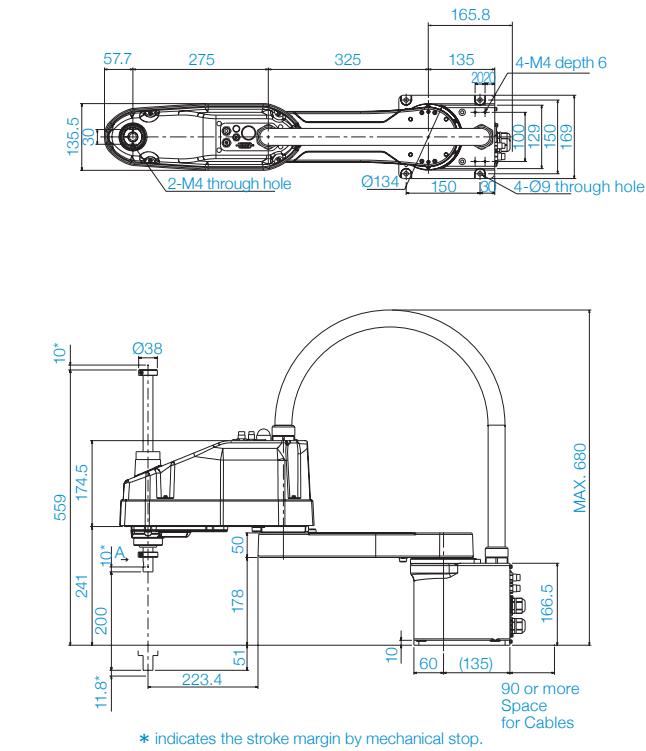
¹ Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1kg payload (path coordinates optimized for maximum speed).

² When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command.

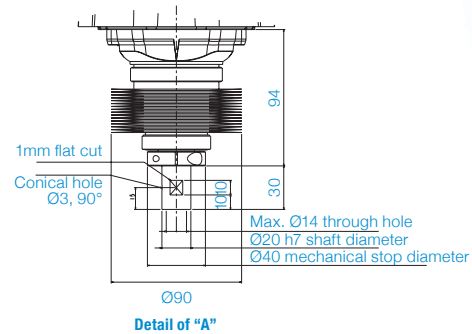
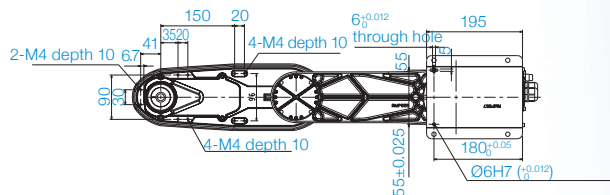
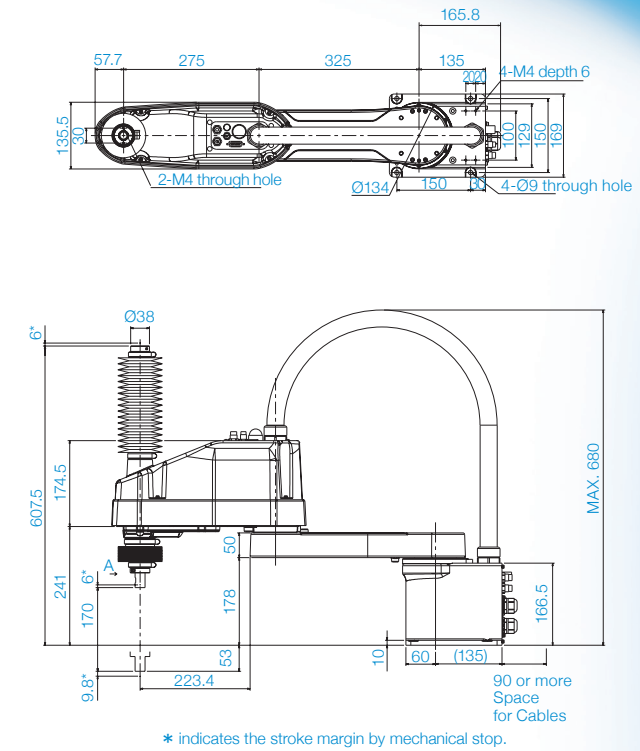
³ Complies with ISO Class 4 cleanroom standards.

Standard-model

Cleanroom-model

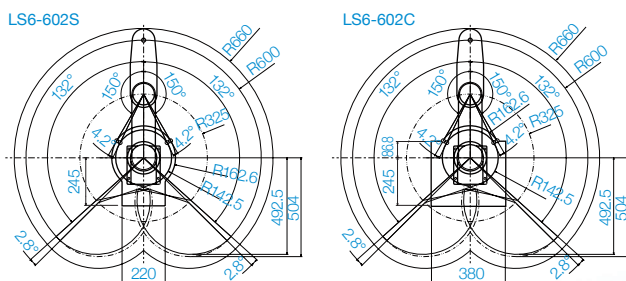


Detail of "A"



Detail of "A"

Motion Range (Tabletop Mounting)



Model	Standard			Cleanroom		
	LS6-502S	LS6-602S	LS6-702S	LS6-50 2C	LS6-60 2C	LS6-70 2C
a Length of Arm #1 +Arm #2 (mm)	5006	00	700	5006	00	700
b Length of Arm #1 (mm)	225	325	425	225	325	425
c Length of Arm #2 (mm)	275			275		
d Motion range of Joint #1 (°)	132			132		
e Motion range of Joint #2 (°)	150			150		
f Motion range	138.11	62.6	232.0	138.11	62.6	232.0
g Motion range at the rear	425.64	92.5	559.4	425.64	93.5	559.4
h Joint #1 angle to hit mechanical stop (°)	2.8			2.8		
i Joint #2 angle to hit mechanical stop (°)	4.2			4.2		
j Mechanical stop area	121.81	42.5	214.0	121.81	42.5	214.0
k Mechanical stop area at the rear	433.55	04.0	574.5	433.55	04.0	574.5
m Motion range	240	220	20	300	380	500