# **LS series SCARA robot**

Simplicity, reliability, and performance

■ Ideal for multi-effector, multi-workpiece handling of payloads up to 6kg

■ 600mm arm length

# ■ LS6 specifications

Arm length		600 mm
Payload		Rated 2 kg / Max 6 kg
Standard cycle time		0.42 sec
Repeatability	Joint #1, #2	±0.02 mm
	Joint #4	±0.01°



#### Specifications

Mounting type			LS6-602*
Max. operating speed         Joint #1, #2         6800 mm/s           Joint #3         1100 mm/s           Joint #4         2000 deg/s           Repeatability         Joint #1, #2         ±0.02 mm           Joint #3         ±0.01 mm           Joint #4         ±0.01 deg           Max. motion range         Joint #1         ±132 deg           Joint #2         ±150 deg           Joint #3         200 mm           (Cleanroom model)         (170 mm)           Joint #4         ±360 deg           Payload         Rated         2 kg           Maximum         6 kg           Standard cycle time*1         0.42 sec	Mounting type		Table Top
Joint #3   1100 mm/s   2000 deg/s	Arm length	Arm #1, #2	600 mm
Meight(cables not included)   17 kg   10 kg   17 kg   18 page   18 page	Max. operating speed	Joints #1, #2	6800 mm/s
Weight(cables not included)   To kg		Joint #3	1100 mm/s
Repeatability		Joint #4	2000 deg/s
Joint #3			17 kg
Max. motion range	Repeatability	Joints #1, #2	±0.02 mm
Max. motion range			±0.01 mm
Joint #2			±0.01 deg
Joint #3   200 mm (170 mm)   (170 mm)   Joint #4   ±360 deg	Max. motion range		±132 deg
Cleanroom model   Cleanroom model   Cloom   Cloom     Joint #4			±150 deg
Joint #4			
Payload         Rated         2 kg           Maximum         6 kg           Standard cycle time*1         0.42 sec			· · ·
Maximum         6 kg           Standard cycle time*1         0.42 sec			±360 deg
Standard cycle time*1 0.42 sec			
		Maximum	6 kg
Joint #4 allowable moment of inertia*2   Rated   0.01 kg *m²			0.42 sec
	Joint #4 allowable moment of inertia*2		0.01 kg·m²
Maximum 0.12 kg⋅m²			0.12 kg • m2
Motor power consumption Joint #1 200 W	Motor power consumption		
Joint #2 200 W		Joint #2	200 W
Joint #3 100 W			
Joint #4 100 W		Joint #4	· ·
Joint #3 down force 100 N			
Home Home-return-less			
	Installed wire for customer use		
	Installed pneumatic tube for customer use		
Installation environment Standard / Cleanroom*3			
Applicable Controller RC90			
Safety standard CE compliant, ANSI/RIA15.06-1999	Safety standard		CE compliant, ANSI/RIA15.06-1999

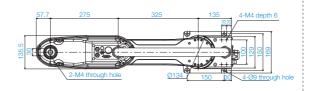
- \*1:Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed).

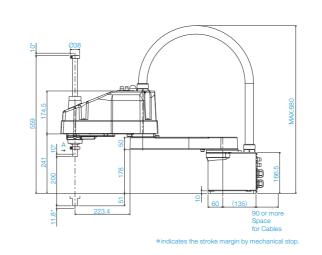
  \*2:When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command.

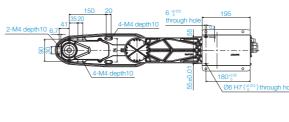
  \*3:Complies with ISO Class 4 cleanroom standards.

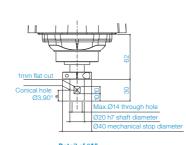
## ■ Outer Dimensions (Table Top Mounting)

#### Standard-model

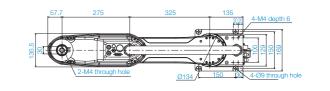


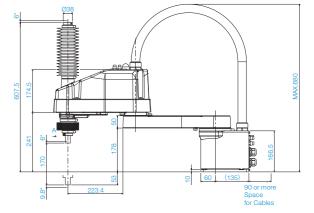


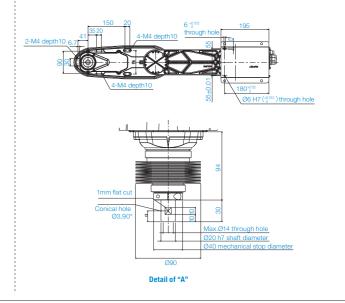




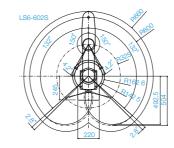
#### Cleanroom-model







## **■** Motion Range (Table Top Mounting)





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