



LS-Series SCARA Robots

Fast, Compact and Low Cost

- Arm Length 400 mm
- Compact Footprint Robot
- High Performance at a Low Cost



Specifications

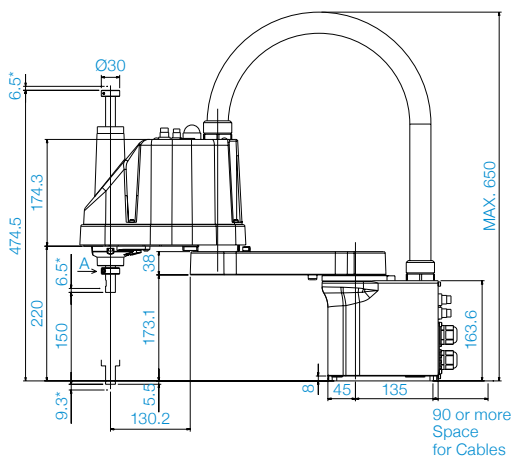
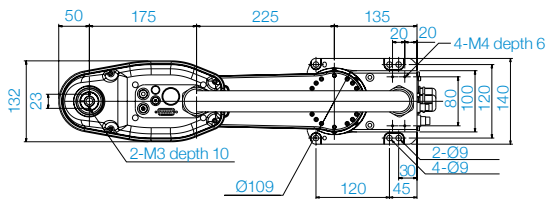
		LS3-401
Mounting type		Tabletop
Arm length	Arm #1, #2	400 mm
Max. operating speed	Joints #1, #2	6000 mm/s
	Joint #3	1100 mm/s
	Joint #4	2600 deg/s
Weight (cables not included)		14 kg
Repeatability	Joints #1, #2	±0.01 mm
	Joint #3	±0.01 mm
	Joint #4	±0.01 deg
Max. motion range	Joint #1	±132 deg
	Joint #2	±141 deg
	Joint #3 Std	150 mm
	Joint #3 Clean	120 mm
	Joint #4	±360 deg
Payload	Rated	1 kg
	Maximum	3 kg
Standard cycle time¹		0.42 sec
Joint #4 allowable moment of inertia²	Rated	0.005 kg•m ²
	Maximum	0.05 kg•m ²
Motor power consumption	Joint #1	200 W
	Joint #2	100 W
	Joint #3	100 W
	Joint #4	100 W
Joint #3 downward force		100 N
Electric lines		15Pin (D-Sub)
Pneumatic lines		Ø4mm×1, Ø6mm×2
Installation environment		Standard/Cleanroom ³
Available controller		RC90
Safety standards		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).

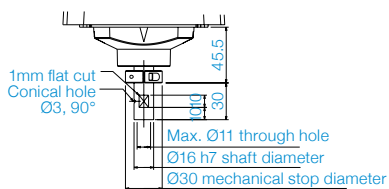
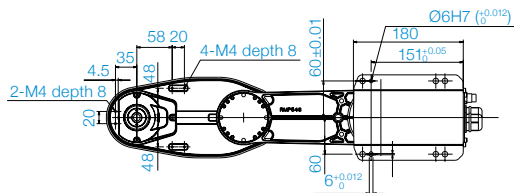
² When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command.

³ Complies with ISO Class 4 cleanroom standards.

Standard-model

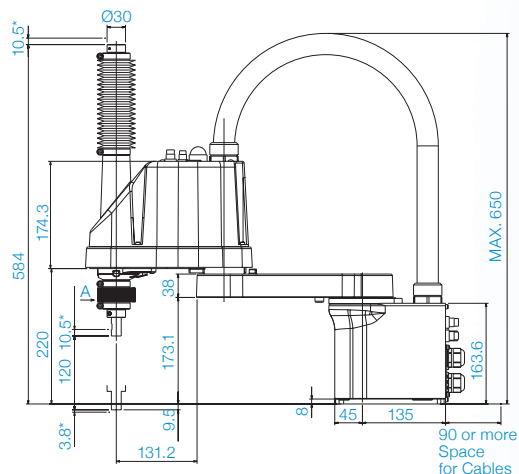
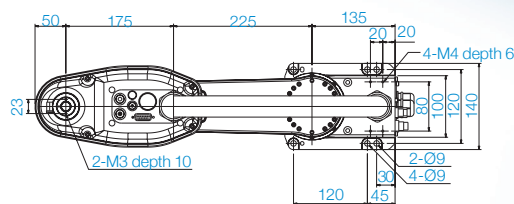


* indicates the stroke margin by mechanical stop.

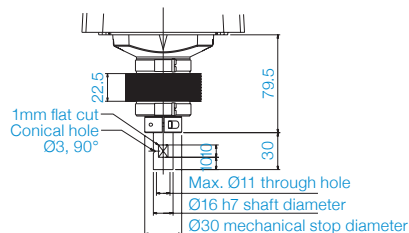
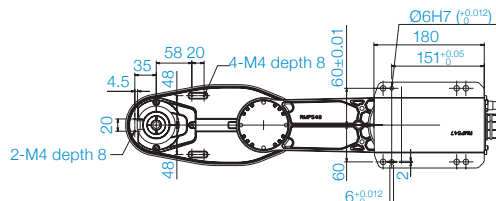


Detail of "A"

Cleanroom-model



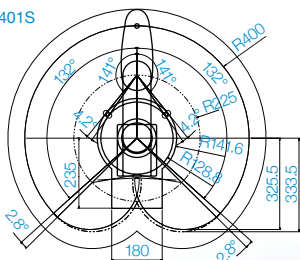
* indicates the stroke margin by mechanical stop.



Detail of "A"

Motion Range (Tabletop Mounting)

LS3-401S



LS3-401C

