Technical specification

Model name		LS6-B		
Model number		LS6-B502S (LS6-B502C)	LS6-B602S (LS6-B602C)	LS6-B702S (LS6-B702C)
Payload*1	Rated (kg)		2	
	Max. (kg)		6	
Arm length (J1+J2)		500	600	700
	(J1)	225	325	425
	(J2)		275	
Repeatability	(J1+J2) mm		+/- 0.02	
	(J3) mm		+/- 0.01	
	(J4) deg		+/- 0.01	
Standard cycle time (s)*2		0.41	0.42	0.43
Max. motion range	(J1) deg		+/- 132	
	(J2) deg		+/- 150	
	(J3) mm		200 (Clean 170)	
	(J4) deg		+/- 360	
Max. operation speed	(J1+J2) mm/s	7120	7850	8590
	(J3) mm/s		1100	
	(J4) deg/s		2000	
(J4) allowable moment of inertia*3	Rated (kg m^2)		0.01	
	Max. (kg m^2)		0.12	
(J3) down force (N)			100	
Mounting type			Floor	
Installation Environment			Standard or Clean (ISO4, Not ESD applied)	
Weight (kg) (cables not included)		17	17	18
Applicable Controller			RC90-B	
Cable length (m)*4			3, 5, 10	
Installed wire for customer use			D-sub 15 pin x1, RJ45 8 pin (CAT 5e) x1	
Installed pneumatic tube for customer use			Ø6mm x2, Ø4mm x1	
Safety standard			EU Directive Complied *5, KC, KCs	
			ANSI/RIA R15.06-2012, NFPA 79 (2007 Edition)	

J1 = Axis 1 J3 = Axis 3
J2 = Axis 2 J4 = Axis 4

*1 : Do not apply the load exceeding the maximum payload.

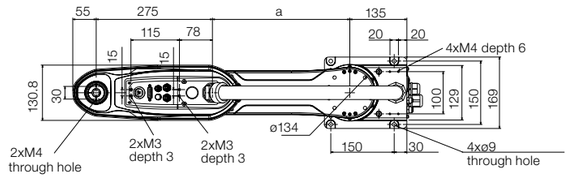
*2 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with Accel 120% and 2kg payload (path coordinates optimised for maximum speed). Rounded down to the third decimal place.

*3 : If the centre of gravity is at the centre of each arm. If the centre of gravity is not at the centre of each arm, set the eccentric quantity using INERTIA command.

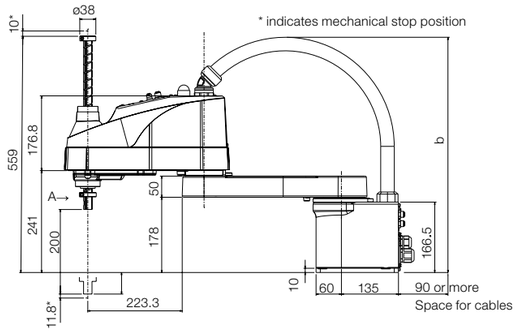
*4 : Standard cable only. There is no setting of the flexible cable. If necessary, a new MT or product planning is necessary.

*5 : Because the robot is built and used in the customer's equipment, therefore robot shipment includes a 'Declaration of Incorporation of Partly Completed Machinery'.

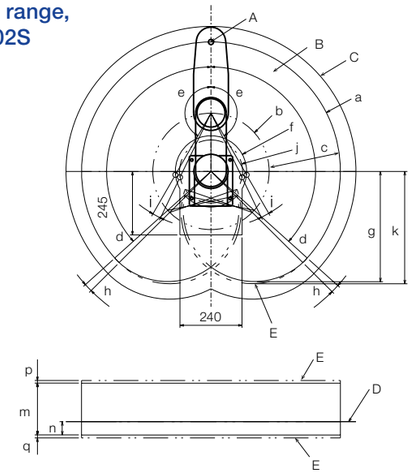
Top view



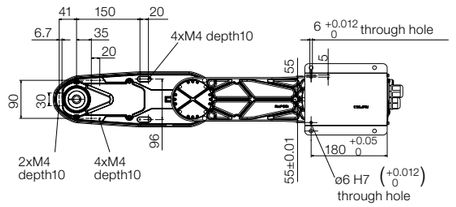
Side view



Working range, LS6-B502S



Rear view

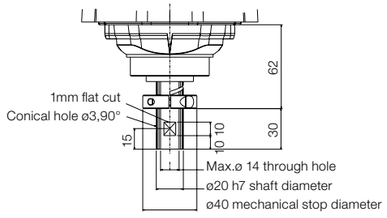


Working range, Epson SCARA LS6-B

			LS6-B502*	LS6-B602*	LS6-B702*
a	Arm #1 + Arm #2 length (mm)		500	600	700
b	Arm #1 length (mm)		225	325	425
c	Arm #2 length (mm)			275	
d	(J1) motion angle (deg)			132	
e	(J2) motion angle (deg)			150	
f	Motion range (deg)		138.1	162.6	232
g	Motion range at the rear (deg)		425.6	492.5	559.4
h	Angle of the (J1) mechanical stop (deg)			2.8	
i	Angle of the (J2) mechanical stop (deg)			4.2	
j	Mechanical stop area (mm)		121.8	142.5	214
k	Mechanical stop area at the rear (mm)		433.5	504	574.5
m	(J3) motion range (mm)	LS6-B**2S		200	
		LS6-B**2C		170	
n	Distance from the base mounting face (mm)	LS6-B**2S		51	
		LS6-B**2C		530	
p	(J3) mechanical stop area upper end (mm)	LS6-B**2S		10	
		LS6-B**2C		6	
q	(J3) mechanical stop area lower end (mm)	LS6-B**2S		11.8	
		LS6-B**2C		9.8	

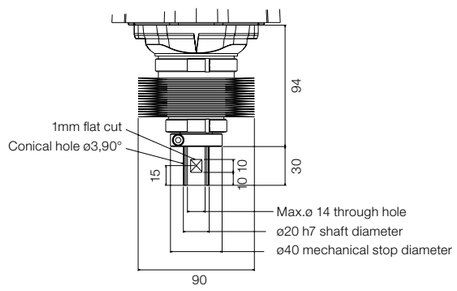
A = Centre of Joint #3
B = Motion range
C = Maximum range
D = Base mounting face
E = Area limited by a mechanical stop

Flange (standard)



Detailed view from A

Flange (cleanroom)



Detailed view from A