

E4 series

Scara Robot

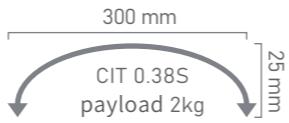


Model E4-551S

Operating range Arm length 550mm Joint#3 stroke 130mm

Payload Rated 1kg/Maximum 4kg

Standard cycle time 0.38 sec



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

Repeatability $\pm 0.015\text{mm}$ Joint #1,#2 $\pm 0.01\text{mm}$ Joint #3 $\pm 0.01^\circ$ Joint #4

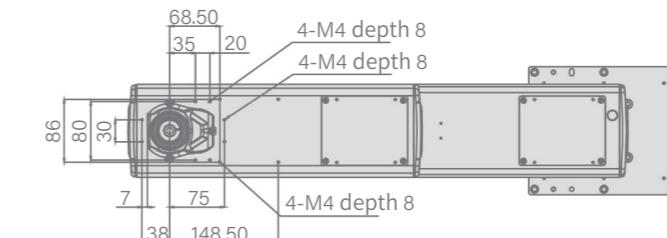
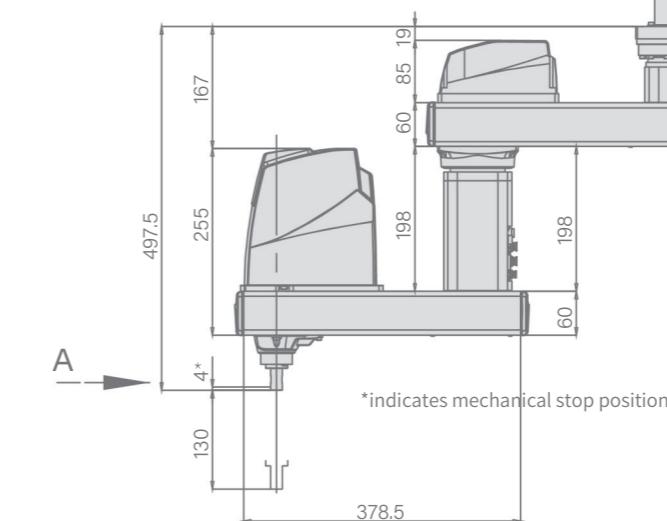
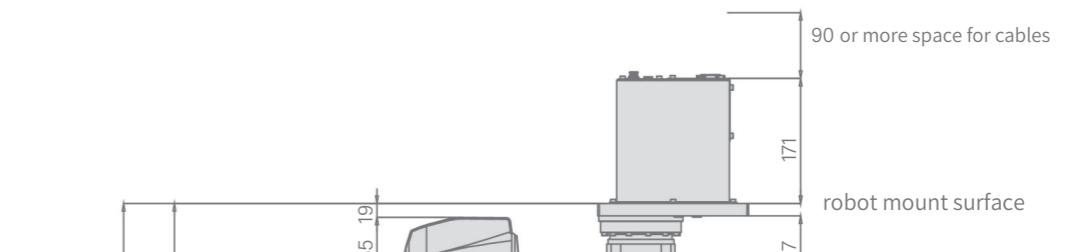
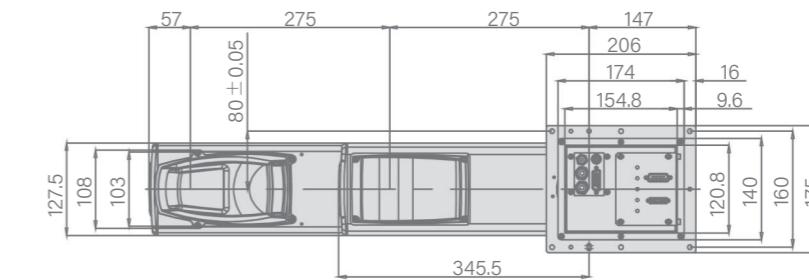
Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	7400 mm/s	1100 mm/s	2600°/s	
MAX Motion Range	$\pm 225^\circ$	$\pm 225^\circ$	130mm	$\pm 720^\circ$
Motor Power Consumption	400W	400W	100W	100W
Joint#3 down force			150N	
Weight	22kg (cables not included)			

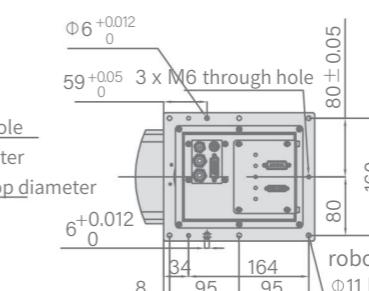
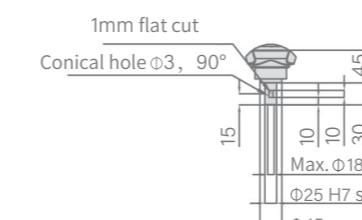
Joint #4 allowable moment of inertia, rate $0.005\text{kg} \cdot \text{m}^2$, maximum $0.05\text{kg} \cdot \text{m}^2$

Electrical parameters	Origin Return	None Need Origin Return
Installed wire for customer	15 Pin (D-Sub Connector)	
Installed pneumatic tube for customer use	$\phi 4\text{mm}^*1$, $\phi 6\text{mm}^*2$	
Visual Interface	-	
Installation Environment	Standard/Clean (Customized)	

Outer Dimensions and Motion Range



Detailed view from A



datum through hole
(Bottom view of the base)

