

P3 series

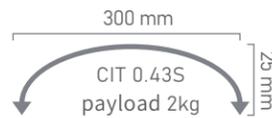
Scara Robot

Model P3-401S

Operating range Arm length 400mm Joint#3 stroke 150mm

Payload Rated 1kg/Maximum 3kg

Standard cycle time 0.43 sec



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

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

Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6000mm/s		1100mm/s	2600°/s
MAX Motion Range	$\pm 132^\circ$	$\pm 141^\circ$	150mm	$\pm 360^\circ$
Motor Power Consumption	400W	100W	100W	100W
Joint#3 down force			100N	
Weight	16kg (cables not included)			

Joint #4 allowable moment of inertia, rate 0.005kg·m², maximum 0.05kg·m²

Electrical parameters

Origin Return	None Need Origin Return
Installed wire for customer	26 Pin (D-Sub Connector)
Installed pneumatic tube for customer use	$\phi 4\text{mm} \times 1$, $\phi 6\text{mm} \times 2$
Visual Interface	M12*2 Gigabit network interface
Installation Environment	Standard/Clean (Customized)

Outer Dimensions and Motion Range

