

P20 series

Scara Robot

Model P20-804S

Operating range Arm length 800mm Joint#3 stroke 420mm

Payload Rated 10kg/Maximum 20kg

Standard cycle time 0.41 sec



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

Repeatability $\pm 0.025\text{mm}$ $\pm 0.01\text{mm}$ $\pm 0.01^\circ$
Joint #1,#2 Joint #3 Joint #4

Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	9485mm/s		2020mm/s	1400°/s
MAX Motion Range	$\pm 131^\circ$	$\pm 150^\circ$	420mm	$\pm 360^\circ$
Motor Power Consumption	1000W	750W	400W	400W
Joint#3 down force			250N	
Weight	49kg (cables not included)			

Joint #4 allowable moment of inertia, rate $0.05\text{kg} \cdot \text{m}^2$, maximum $0.45\text{kg} \cdot \text{m}^2$

Electrical parameters

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

Outer Dimensions and Motion Range

