

# W6series

Scara Robot

## Model W6-502S

Operating range Arm length 500mm Joint#3 stroke 200mm

Payload Rated 2kg/Maximum 6kg

Standard cycle time 0.39 sec



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

Repeatability  $\pm 0.02\text{mm}$   $\pm 0.01\text{mm}$   $\pm 0.01^\circ$   
Joint #1,#2 Joint #3 Joint #4

### Parameters of each axis

Joint Content	#1	#2	#3	#4
MAX Operating Speed	6150 mm/s		1100mm/s	2000°/s
MAX Motion Range	$\pm 117.2^\circ$	$\pm 140^\circ$	200mm	$\pm 360^\circ$
Motor Power Consumption	400W	400W	200W	100W
Joint#3 down force			100N	
Weight	19kg (cables not included)			

Joint #4 allowable moment of inertia, rate  $0.01\text{kg}\cdot\text{m}^2$ , maximum  $0.12\text{kg}\cdot\text{m}^2$

### 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

