

Detailed Specifications

Robotic Arm - SCORA-ER 4u

Mechanical structure	Vertically articulated	
Weight	10.8 kg	23.8 lb
Operating radius	610 mm	24"
Maximum Payload		
With reduced acceleration:	2.5 Kg	5.5 lbs
Full speed:	1 Kg	2.2 lbs
End Effectors	DC servo gripper, with optical encoder, parallel finger motion Measurement of object's size by means of Gripper sensor and software.	
Max. gripper opening		
Without pads	75 mm	3"
With pads	65 mm	2.6"
Repeatability at TCP (tip of gripper)	± 0.18 mm	0.007"
Position Feedback	Optical encoders on each axis	
Homing	Fixed position on each axis found by means of micro switches	
Actuators	12 VDC servo motors	
Transmission	Gears, timing belts, lead screw	
Ambient operating temperature	2° – 40°C	36° – 104°F

Axes Specifications

Number of Axes	5 rotational axes and gripper	
Axis Movement	Range	Effective Speed
Axis 1: Base rotation	310°	20°/sec
Axis 2: Shoulder rotation	158°	26.3°/sec
Axis 3: Elbow rotation	260°	26.3°/sec
Axis 4: Wrist pitch	260°	83°/sec
Axis 5: Wrist roll	Unlimited mechanically ±570° electrically 106°/sec	