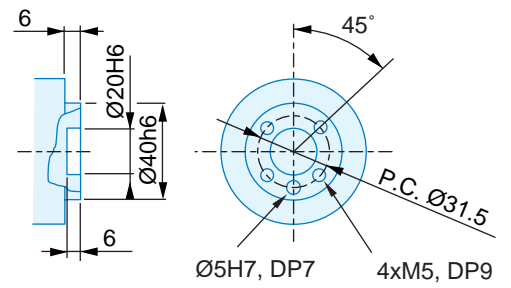
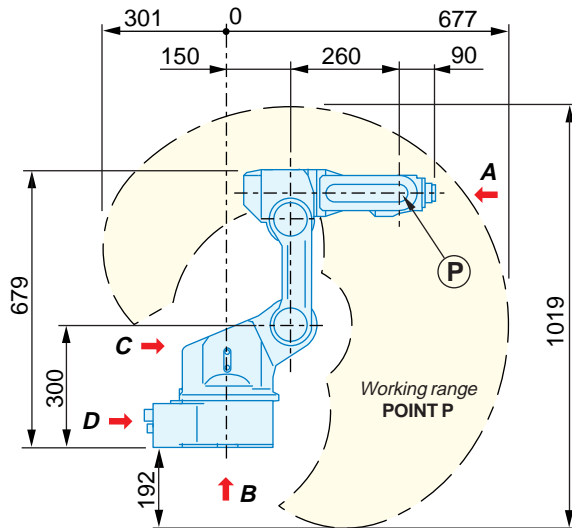


# *Industrial Robot* **MOTOMAN-SV3X**

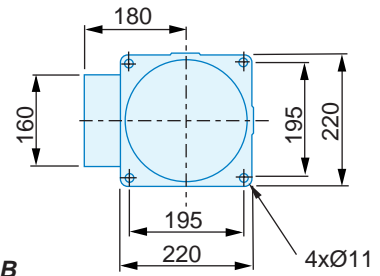


## ***Suitable applications***

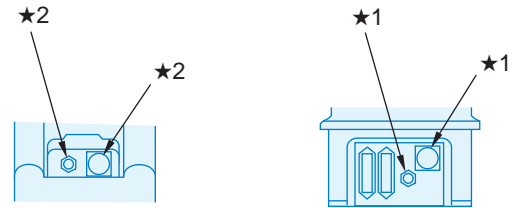
- *Handling*
- *Assembling*
- *Packaging*
- *Machine tending*
- *Arc welding*



View A

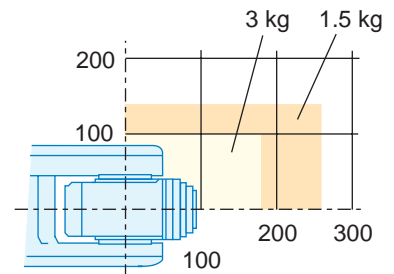
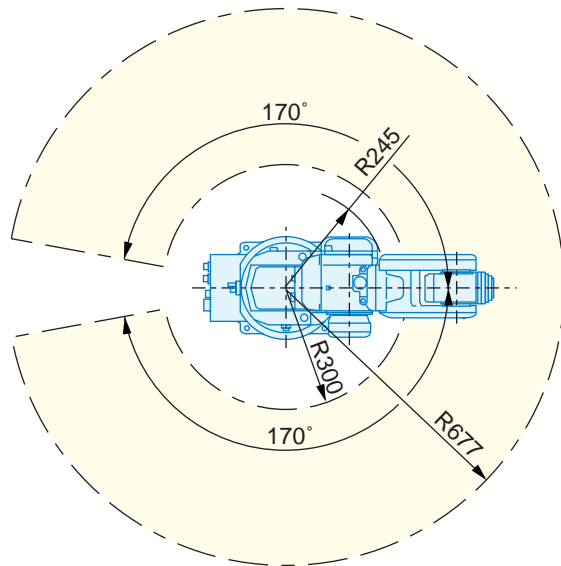


View B



View C

View D

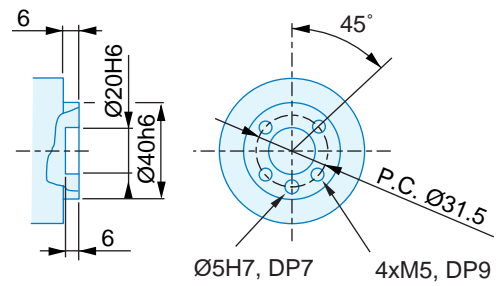
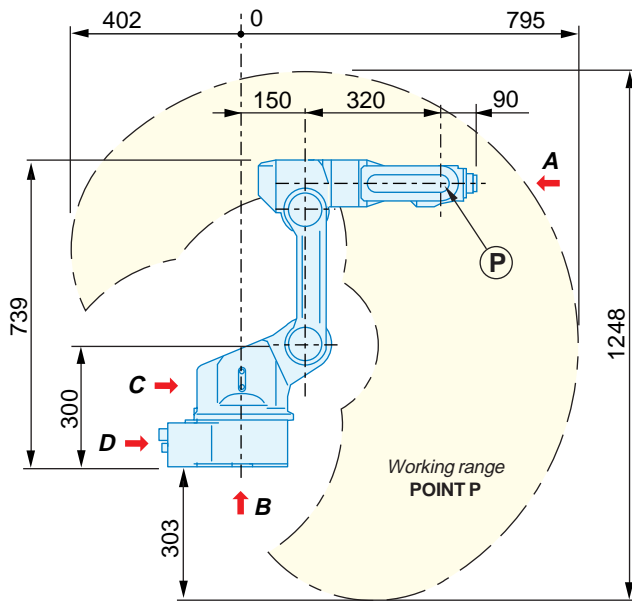


★	Air duct connector	Signal connector
1	1x PT 3/8, tap	12 wires + PE
2	1x PT 3/8, tap	12 wires + PE

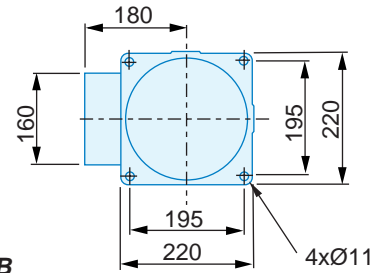
## Specifications

Controlled axes	6	
Payload	3 kg	
Repetitive positioning accuracy	±0.03 mm	
Motion range	S-axis (turning)	±170°
	L-axis (lower arm)	+150°, -45°
	U-axis (upper arm)	+190°, -70°
	R-axis (wrist roll)	±180°
	B-axis (wrist pitch)	±135°
	T-axis (wrist twist)	±350°
Maximum speed	S-axis	210°/s
	L-axis	170°/s
	U-axis	225°/s
	R-axis	300°/s
	B-axis	300°/s
	T-axis	420°/s

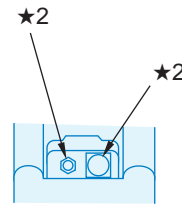
Weight	30 kg	
Power supply	1.0 kVA	
Allowable moment	R-axis	5.39 Nm (0.55 kgf•m)
	B-axis	5.39 Nm (0.55 kgf•m)
	T-axis	2.94 Nm (0.3 kgf•m)
Allowable inertia	R-axis	0.1 kg•m <sup>2</sup>
	B-axis	0.1 kg•m <sup>2</sup>
	T-axis	0.03 kg•m <sup>2</sup>
Ambient conditions	Temperature	0 to 45°C
	Rel. humidity	20 to 80% RH
	Vibration	0.5G or less
Others	<ul style="list-style-type: none"> <li>• IP54</li> <li>• Free from corrosive gas or liquid, or explosive gas.</li> <li>• Free from excessive electrical noise.</li> </ul>	



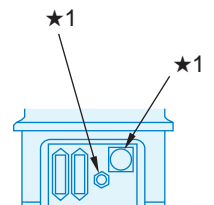
View A



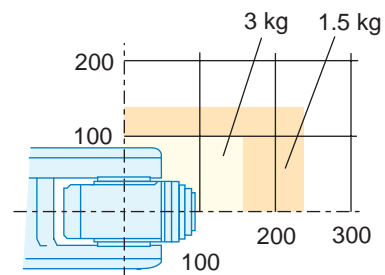
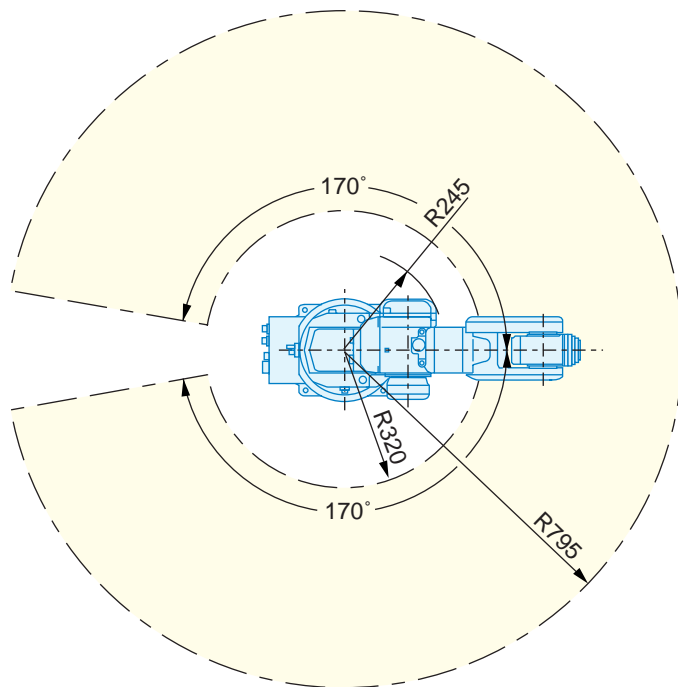
View B



View C



View D



★	Air duct connector	Signal connector
1	1x PT 3/8, tap	12 wires + PE
2	1x PT 3/8, tap	12 wires + PE

## Specifications

Controlled axes	6	
Payload	3 kg	
Repetitive positioning accuracy	±0.03 mm	
Motion range	S-axis (turning)	±170°
	L-axis (lower arm)	+150°, -45°
	U-axis (upper arm)	+190°, -70°
	R-axis (wrist roll)	±180°
	B-axis (wrist pitch)	±135°
	T-axis (wrist twist)	±350°
Maximum speed	S-axis	150°/s
	L-axis	120°/s
	U-axis	195°/s
	R-axis	300°/s
	B-axis	300°/s
	T-axis	420°/s

Weight	35 kg	
Power supply	1.0 kVA	
Allowable moment	R-axis	5.39 Nm (0.55 kgf•m)
	B-axis	5.39 Nm (0.55 kgf•m)
	T-axis	2.94 Nm (0.3 kgf•m)
Allowable inertia	R-axis	0.1 kg•m <sup>2</sup>
	B-axis	0.1 kg•m <sup>2</sup>
	T-axis	0.03 kg•m <sup>2</sup>
Ambient conditions	Temperature	0 to 45°C
	Rel. humidity	20 to 80% RH
	Vibration	0.5G or less
Others	<ul style="list-style-type: none"> <li>• IP54</li> <li>• Free from corrosive gas or liquid, or explosive gas.</li> <li>• Free from excessive electrical noise.</li> </ul>	



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