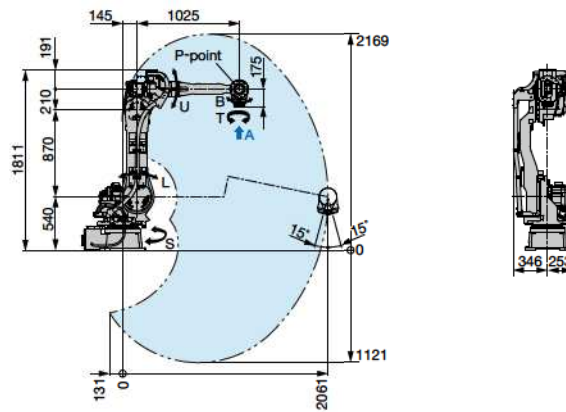
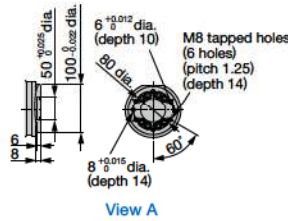
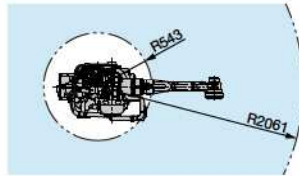


PL80



■ Dimensions Units: mm □ : P-point Maximum Envelope

Note: Refer to individual dimension diagrams for detailed dimensions and specifications of the following models.



Model	MOTOMAN-PL80	
Type	YR-1-05VX80-A00	
Controlled Axis	5 (vertically articulated)	
Payload	Wrist	80 kg
	U-arm*1	10 kg
Maximum Reach	2061 mm	
Repeatability*2	0.03 mm	
Range of Motion	S-axis (turning)	- 180° - + 180°
	L-axis (lower arm)	- 90° - + 135°
	U-axis (upper arm)	- 160° - + 35°
	B-axis (wrist pitch/yaw) *3	- 15° - + 15°
	T-axis (wrist twist)	- 360° - + 360°
Maximum Speed*4	S-axis (turning)	3.14 rad/s, 180°/s
	L-axis (lower arm)	3.14 rad/s, 180°/s
	U-axis (upper arm)	3.14 rad/s, 180°/s
	B-axis (wrist pitch/yaw)	3.14 rad/s, 180°/s
	T-axis (wrist twist)	8.72 rad/s, 500°/s
Allowable Moment	B-axis (wrist pitch/yaw)	78.4 N·m
	T-axis (wrist twist)	20.5 N·m
Allowable Inertia (GD ² /4)	B-axis (wrist pitch/yaw)	48 kg·m ²
	T-axis (wrist twist)	25 kg·m ²
Approx. Mass	565 kg	
IEC Protection Class	Body: IP54, Wrist: IP67	
Ambient Conditions	Temperature	0 °C to +45 °C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s ² (0.5 G) or less
	Altitude	1000 m or less
Power Requirements*5	4.5 kVA	
Mounting	Floor	

*1: The mountable load on the U-arm will vary depending on the load mass of the wrist part.

*2: Repeatability conforms to ISO 9283.

*3: The range of motion of the B-axis is an angle in the downward vertical direction. In some postures, however, the motion of the B-axis may be restricted depending on the angle with respect to the upper arm.

*4: The maximum speed in this table is the available maximum value and will vary depending on the load, posture, or range of motion.

*5: The power requirement value is obtained using Yaskawa's in-house measurement conditions and will vary depending on the load, motion pattern, or cycle time.