



Item	Model	MOTOMAN-GP8L
Configuration	Vertically articulated	
Degree of freedom	6	
Payload	Wrist	8kg
	On U-arm(*1)	3kg
Repeatability(*2)	0.02mm	
Range of motion	S-Axis	-170° - +170°
	L-Axis	-90° - +155°
	U-Axis	-85° - +150°
	R-Axis	-200° - +200°
	B-Axis	-135° - +135°
	T-Axis	-360° - +360°
Maximum speed(*3)	S-Axis	4.53rad/s, 260° /s
	L-Axis	4.01rad/s, 230° /s
	U-Axis	4.53rad/s, 260° /s
	R-Axis	8.20rad/s, 470° /s
	B-Axis	9.59rad/s, 550° /s
	T-Axis	17.45rad/s, 1000° /s
Allowable moment	R-Axis	17N·m (1.73kgf·m)
	B-Axis	17N·m (1.73kgf·m)
	T-Axis	10N·m (1.02kgf·m)
Allowable inertia(GD/4) ²	R-Axis	0.5kg·m ²
	B-Axis	0.5kg·m ²
	T-Axis	0.2kg·m ²
Mass		155kg
Protection rating		IP54
Mounting method(*4)		Floor-mounted, Wall-mounted, Tilt-mounted, Ceiling-mounted
Ambient conditions	Temperature	0°C - +45°C
	Humidity	20%RH - 80%RH (Non-condensing)
	Vibration acceleration	4.9m/s ² (0.5G) or less
	Altitude	1000m or less
	Flatness for installation	0.5mm or less
	Others	•Free from dirt, dust, oil, soot, or water. •Free from explosive and corrosive gas or liquid. •Free from excessive electrical noise (plasma). •Free from strong magnetic field.
Power requirements(*5)		1.5KVA
Applicable controller		YRC1000/YRC1000micro

Notes:

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

*4 When tilt- or wall-mounted, the S-axis motion range is limited.

*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.

*6 The posture in this drawing is in the home position.

Units: mm