

Model		MOTOMAN- GP10
Configuration		Vertically articulated
Degree of freedom		6
Payload	Wrist part	10kg
	On U-arm(*1)	1kg
Repeatability(*2)		0.015mm
Range of motion	S-axis	-180° - $+180^{\circ}$
	L-axis	-100° - $+145^{\circ}$
	U-axis	-70° - $+190^{\circ}$
	R-axis	-190° - $+190^{\circ}$
	B-axis	-45° - $+225^{\circ}$
	T-axis	-360° - $+360^{\circ}$
Maximum speed (*3)	S-axis	5.24rad/s, 300° /s
	L-axis	4.36rad/s, 250° /s
	U-axis	5.93rad/s, 340° /s
	R-axis	8.72rad/s, 500° /s
	B-axis	8.2rad/s, 470° /s
	T-axis	13.96rad/s, 800° /s
Allowable moment	R-axis	22Nm (2.24kgfm)
	B-axis	22Nm (2.24kgfm)
	T-axis	11Nm (1.12kgfm)
Allowable inertia (GD ² /4)	R-axis	0.9kg \cdot m ²
	B-axis	0.9kg \cdot m ²
	T-axis	0.3kg \cdot m ²
Mass		59kg
Protection rating		IP67
Clean rating (reference)(*4)		Equivalent to ISO class 5
Mounting method (*5)		Floor-mounted, Wall-mounted, Tilt-mounted, Ceiling-mounted
Ambient conditions	Temperature	0°C - $+45^{\circ}\text{C}$
	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	<ul style="list-style-type: none"> Free from explosive and corrosive gas or liquid. Free from excessive electrical noise(plasma). Free from strong magnetic field.
Power requirements(*6)		1KVA
Applicable controller		YRC1000/YRC1000micro

- *1 Load on the U-arm will vary depending on the load weight 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 The clean rating is for reference and not guaranteed.
- *5 When the manipulator is installed on a tilt or a wall, the motion of S-axis will be limited.
- *6 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.
- *7 The posture in this drawing is in the home position.

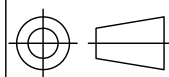
User cable connector _____
 LF13WBRB-20P (Cap attached) _____
 Main key (Left side) _____
 Ethernet cable connector _____
 112 X-coding 8 contacts (Socket) _____
 Cap attached) _____
 Key Position: Upper right side _____

Units : mm

Note:

- 1.All rights reserved.
- 2.Please note that the data is subject to be deleted without advance notice.
- 3.No warranty is given in relation to the data including the specification.
- 4.We are not responsible for any damages or loss caused by the use of the data.

FOR STUDY PURPOSE ONLY



SCALE 1 : 15

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE	MOTOMAN-GP10
DIMENSION	DIAGRAM

DRWN DATE	Jul.4'25
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DWG.NO.

HW2381203

SIZE	A 3
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