YA-U10F 7-axis

● Maximum payload 10 kg

Ordering method

YA-U10F

YAC100

Safety standard N: Normal E: CE marking



Option I/O N, P: Standard I/O 28/28 56/56 points 84/84 points 112/112 points N4. P4: 140/140 points

Network option No entry : None CC: CC-Link DeviceNet master DeviceNet slave PB: PROFIBUS EP: EtherNet/IP™ PM: Profinet master PT: Profinet slave ES: EtherCAT slave

Note. High degree of motion like a human arm with its 7-axis arm

Note. The high flexibility of motion makes operation possible even in narrow spaces inaccessible to humans.

Note. Folds to compact size when not in use

B-axis (wrist pich/yaw)

T-axis (wrist twist)

Note. Many installation options: on the floor, on the wall or on the ceiling. Please contact us separately regarding wall-mounted or ceiling-mounted installations.

Note. Optimal for handling small objects.

Note. By utilizing internal user I/O wiring harness and air lines integrated in the arm, layout can be planned offline without worrying about peripheral interference. Unternal user I/O wiring harness and air lines specifications: two air hoses and twelve-core cables)

External axis specification for a hand can be accommodated. Contact YAMAHA regarding your requirements.

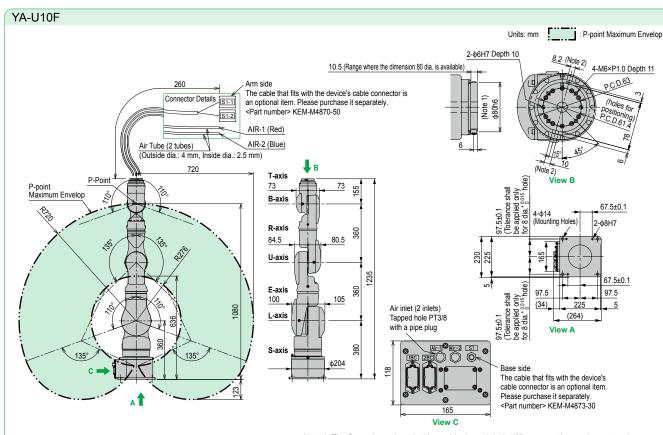
3.49 rad/s, 200°/s

6.98 rad/s, 400°/s

■ Speci	ifications			
Controlled Axis		7		R-a
Payload		10 kg	Allowable Moment	B-a
Repeatability		±0.1 mm		T-a
Range of Motion	S-axis (turning)	-180° to +180°	Allowable	R-a
	L-axis (lower Arm)	-110° to +110°	Inertia	B-a
	E-axis (elbow twist)	-170° to +170°	(GD ² /4)	T-a
	U-axis (upper arm)	-135° to +135°	Mass	
	R-axis (wrist roll)	-180° to +180°	Power Requireme	
	B-axis (wrist pich/yaw)	-110° to +110°		Ten
	T-axis (wrist twist)	-180° to +180°		Hur
Maximum Speed	S-axis (turning)	2.97 rad/s, 170°/s	Ambient	Vib
	L-axis (lower Arm)	2.97 rad/s, 170°/s	Conditions	
	E-axis (elbow twist)	2.97 rad/s, 170°/s		Oth
	U-axis (upper arm)	2.97 rad/s, 170°/s		
	R-axis (wrist roll)	3.49 rad/s, 200°/s	Note 1. Varies	in a

		R-axis (wrist roll)	31.4 N·m	
	Allowable Moment	B-axis (wrist pich/yaw)	31.4 N·m	
		T-axis (wrist twist)	19.6 N·m	
	Allowable Inertia	R-axis (wrist roll)	1.0 kg·m²	
		B-axis (wrist pich/yaw)	1.0 kg·m²	
	(GD ² /4)	T-axis (wrist twist)	0.4 kg·m²	
	Mass		60 kg	
	Power Requirements ^{Note 1}		1.0 kVA	
		Temperature	0 to +40°C	
		Humidity	20 to 80%RH (non-condensing)	
	Ambient	Vibration	ration 4.9 m/s ² or less	
_	Conditions	Others	Free from corrosive gasses or liquids, or explosive gasses Free from exposure to water, oil, or dust Free from excessive electrical noise (plasma)	

Note 1. Varies in accordance with applications and motion patterns. Note. SI units are used for specifications



Note 2. A bolt is mounted for T-axis grease replenished. When attaching an attachment to 80 dia.

-0.035/0 part of the T-axis, enough space for the grease zerk (A-MT6X1) is required to the shape of the attachment.