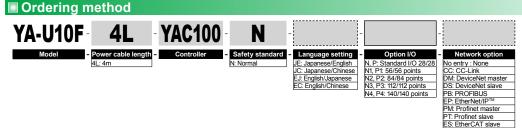


Note. The YA series does not comply with the EU RoHS directive.



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

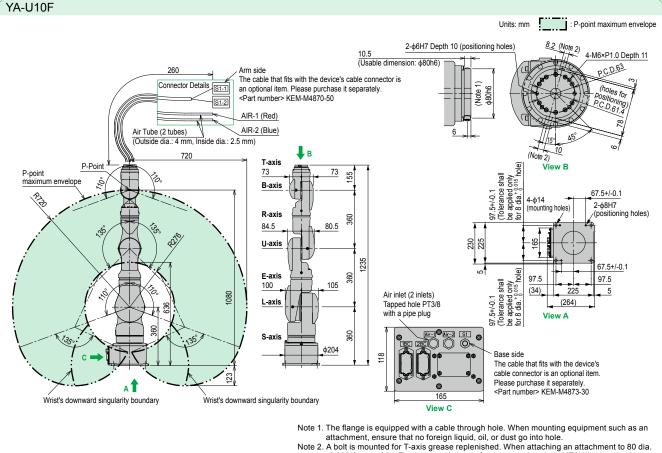
Note. Many installation options: on the floor, on the wall or on the ceiling. Please contact us separately regarding wall-mounted or ceiling-mounted installations. Note. Optimal for handling small objects. Note. By utilizing internal user I/O wiring harness and air lines integrated in the arm, layout can be planned offline without worrying about peripheral interference.

(Internal user I/O wining 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.

Speci	fications			
Controlled Axis		7	Allowable Moment B-axi	R-axis (v
Payload		10 kg		B-axis (v
Repeatability		+/-0.1 mm		T-axis (v
Range of Motion	S-axis (turning)	-180° to +180°	Inertia	R-axis (v
	L-axis (lower Arm)	-110° to +110°		B-axis (v
	E-axis (elbow twist)	-170° to +170°	(GD <sup>2</sup> /4)	T-axis (v
	U-axis (upper arm)	-135° to +135°	Mass	
	R-axis (wrist roll)	-180° to +180°	Power Requirements <sup>Not</sup>	
	B-axis (wrist pich/yaw)	-110° to +110°		Temperat
	T-axis (wrist twist)	-180° to +180°		Humidity
Maximum Speed	S-axis (turning)	2.97 rad/s, 170°/s	Ambient	Vibration
	L-axis (lower Arm)	2.97 rad/s, 170°/s	Conditions	Others
	E-axis (elbow twist)	2.97 rad/s, 170°/s	_	
	U-axis (upper arm)	2.97 rad/s, 170°/s		
	R-axis (wrist roll)	3.49 rad/s, 200°/s	Note 1. Varies in accorda Note. SI units are used for	
	B-axis (wrist pich/yaw)	3.49 rad/s, 200°/s		
	T-axis (wrist twist)	6.98 rad/s, 400°/s		

	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	R-axis (wrist roll)	1.0 kg·m <sup>2</sup>	
Inertia	B-axis (wrist pich/yaw)	1.0 kg⋅m²	
(GD <sup>2</sup> /4)	T-axis (wrist twist)	0.4 kg·m <sup>2</sup>	
Mass		60 kg	
Power Requirements <sup>Note 1</sup>		1.0 kVA	
	Temperature	0 to +40°C	
	Humidity	20 to 80%RH (non-condensing)	
Ambient	Vibration	4.9 m/s <sup>2</sup> 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)	

ance with applications and motion patterns. or 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.

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