■ Maximum payload 5 kg
■ Longest Reach R895 mm
Note. The YA series does not comply with the EU RoHS directive.

Ordering method

Language setting JE: Japanese/English JC: Japanese/Chinese

Option I/O N, P: Standard I/O 28/28

N4. P4: 140/140 points

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



Note. Thanks to the higher control rate of the YAC100 controller and vibration-damping control of the arm, we have reduced the residual vibration when the arm stops moving, while shortening the cycle time and achieving the fastest speed in this class. Note. Longest reach in a respective class (895 mm)

Note. Floor-mounted, wall-mounted, and ceiling-mounted types are available. Please contact us separately regarding wall-mounted or ceiling-mounted installations. Note. This unit can also be used in combination with a travel axis or other external axis. Please contact us.

Speci	fications			
Controlled Axis		6	Allowable Moment	R-axis (wrist roll)
Payload		5 kg		B-axis (wrist pich/yaw)
Repeatability		+/-0.03 mm		T-axis (wrist twist)
Range of Motion	S-axis (turning)	-170° to +170° Note 1	Allowable	R-axis (wrist roll)
	L-axis (lower Arm)	-65° to +150°	Inertia	B-axis (wrist pich/yaw)
	U-axis (upper arm)	-138° to +255°	(GD ² /4)	T-axis (wrist twist)
	R-axis (wrist roll)	-190° to +190°	Mass	
	B-axis (wrist pich/yaw)	-135° to +135°	Temperature Humidity	
	T-axis (wrist twist)	-360° to +360°		Humidity
Maximum Speed	S-axis (turning)	4.71 rad/s, 270°/s	Ambient	Vibration
	L-axis (lower Arm)	4.89 rad/s, 280°/s	Conditions	Others
	U-axis (upper arm)	5.24 rad/s, 300°/s		
	R-axis (wrist roll)	7.85 rad/s, 450°/s		
	B-axis (wrist pich/yaw)	7.85 rad/s, 450°/s	Power Requirements ^{Note 2}	
	T-axis (wrist twist)	12.57 rad/s, 720°/s	Note 1. For wall-mounted installation, the	

	R-axis (wrist roll)	12 N·m	
Allowable Moment	B-axis (wrist pich/yaw)	12 N·m	
moment	T-axis (wrist twist)	7 N·m	
Allowable	R-axis (wrist roll)	0.3 kg·m²	
Inertia	B-axis (wrist pich/yaw)	0.3 kg·m²	
(GD ² /4)	T-axis (wrist twist)	0.1 kg·m²	
Mass		29 kg	
	Temperature	0 to +45°C	
	Humidity	20 to 80%RH (non-condensing)	
Ambient	Vibration	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)	
Power Requi	rements ^{Note 2}	1.0 kVA	

Note 1. For wall-mounted installation, the S-axis operating range is +/-30°.

Note 2. Varies in accordance with applications and motion patterns Note. SI units are used for specifications.

