

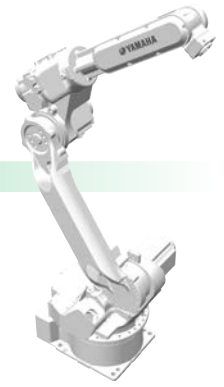
YA-R6F 6-axis

- Maximum payload 6 kg
- Longest Reach R1422 mm

Ordering method

YA-R6F - 4L - YAC100

Model	Power cable length	Controller	Safety standard	Language setting	Option I/O	Network option
	4L: 4m		N: Normal E: CE marking	JE: Japanese/English JC: Japanese/Chinese EJ: English/Japanese EC: English/Chinese	N, P: Standard I/O 28/28 N1, P1: 56/56 points N2, P2: 84/84 points N3, P3: 112/112 points N4, P4: 140/140 points	No entry : None CC: CC-Link DM: DeviceNet master DS: DeviceNet slave 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 its class (1422 mm) and increased moment capacity of the wrist.

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.

Specifications

Controlled Axis	6	
Payload	6 kg	
Repeatability	±0.08 mm	
Range of Motion	S-axis (turning)	-170° to +170° <small>Note 1</small>
	L-axis (lower Arm)	-90° to +155°
	U-axis (upper arm)	-175° to +250°
	R-axis (wrist roll)	-180° to +180°
	B-axis (wrist pitch/yaw)	-45° to +225°
	T-axis (wrist twist)	-360° to +360°
Maximum Speed	S-axis (turning)	3.84 rad/s, 220°/s
	L-axis (lower Arm)	3.49 rad/s, 200°/s
	U-axis (upper arm)	3.84 rad/s, 220°/s
	R-axis (wrist roll)	7.16 rad/s, 410°/s
	B-axis (wrist pitch/yaw)	7.16 rad/s, 410°/s
	T-axis (wrist twist)	10.65 rad/s, 610°/s

Allowable Moment	R-axis (wrist roll)	11.8 N·m	
	B-axis (wrist pitch/yaw)	9.8 N·m	
	T-axis (wrist twist)	5.9 N·m	
Allowable Inertia (GD²/4)	R-axis (wrist roll)	0.27 kg·m ²	
	B-axis (wrist pitch/yaw)	0.27 kg·m ²	
	T-axis (wrist twist)	0.06 kg·m ²	
Mass	130 kg		
Ambient Conditions	Temperature	0 to +45 °C	
	Humidity	20 to 80%RH (non-condensing)	
	Vibration	4.9 m/s ² or less	
	Others	<ul style="list-style-type: none"> • Free from corrosive gasses or liquids, or explosive gasses • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma) 	
		Power Requirements <small>Note 2</small>	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.

