

Maximum payload 5 kg

■ Ordering method

YAC100

N: Normal E: CE marking

Safety standard - Language setting

JE: Japanese/English JC: Japanese/Chinese EJ: English/Japanese EC: English/Chinese

N, P: Standard I/O 28/26 N1, P1: 56/56 points N2, P2: 84/84 points N3, P3: 112/112 points N4, P4: 140/140 points

Network option No entry : None CC: CC-Link DM: DeviceNet master DM: DeviceNet maste
DS: 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.

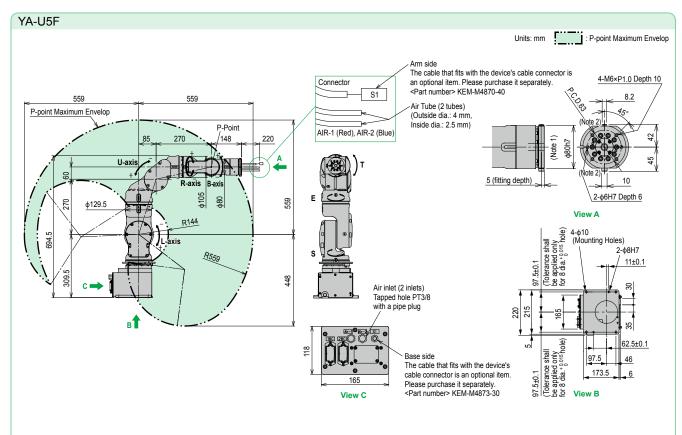
Note. The arm has been slimmed by employing a newly developed miniaturized actuator for the wrist section, greatly reducing the interference of the arm with the workpiece. Note. The narrowing of the motion range that usually results when downsizing a robot is avoided by an ingenious mechanism used for the arm joints, so maximum range is maintained.

Note. Light and weighs only 30 kg, so many installation choices are available: floor, ceiling, or wall. Please contact us separately regarding wall-mounted or ceiling-mounted installations. 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 wiring harness and air lines specifications: two air lines and eight-core cables)

(internal user I/O willing harriess and all lines specifications, two all lines	s and eignt-core cables)
External axis specification for a hand can be accommodated. Contact Y.	AMAHA regarding your requirements.

■ Specifications						
Controlled Axis		7	Allowable Moment	R-axis (wrist roll)	14.7 N·m	
Payload		5 kg		B-axis (wrist pich/yaw)	14.7 N·m	
Repeatability		±0.06 mm		T-axis (wrist twist)	7.35 N·m	
Range of Motion	S-axis (turning)	-180° to +180°	Allowable	R-axis (wrist roll)	0.45 kg·m²	
	L-axis (lower Arm)	-110° to +110°	Inertia (GD²/4)	B-axis (wrist pich/yaw)	0.45 kg·m²	
	E-axis (elbow twist)	-170° to +170°		T-axis (wrist twist)	0.11 kg·m²	
	U-axis (upper arm)	-90° to +115°	Mass		30 kg	
	R-axis (wrist roll)	-180° to +180°	Power Requirements ^{Note 1}		1.0 kVA	
	B-axis (wrist pich/yaw)	-110° to +110°	Ambient Conditions	Temperature	0 to +40°C	
	T-axis (wrist twist)	-180° to +180°		Humidity	20 to 80%RH (non-condensing)	
Maximum Speed	S-axis (turning)	3.49 rad/s, 200°/s		Vibration	4.9 m/s ² or less	
	L-axis (lower Arm)	3.49 rad/s, 200°/s		Others	•Free from corrosive gasses or liquids, or	
	E-axis (elbow twist)	3.49 rad/s, 200°/s			explosive gasses •Free from exposure to water, oil, or dust	
	U-axis (upper arm)	3.49 rad/s, 200°/s			• Free from excessive electrical noise (plasma)	
	R-axis (wrist roll)	3.49 rad/s, 200°/s	Note 1. Varies in accordance with applica		ations and motion patterns.	
	B-axis (wrist pich/yaw)	4.01 rad/s, 230°/s	Note. SI units are used for specifications.			

T-axis (wrist twist) 6.11 rad/s, 350°/s



- Note 1. The flange is equipped with a cable through hole. When mounting equipment such as an attachment, ensure that no foreign liquid, oil, or dust go into hole.

 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.