

CRP-RA27-50/
CRP-RA27-80

INDUSTRIAL ROBOT

HANDLING

APPLICATION



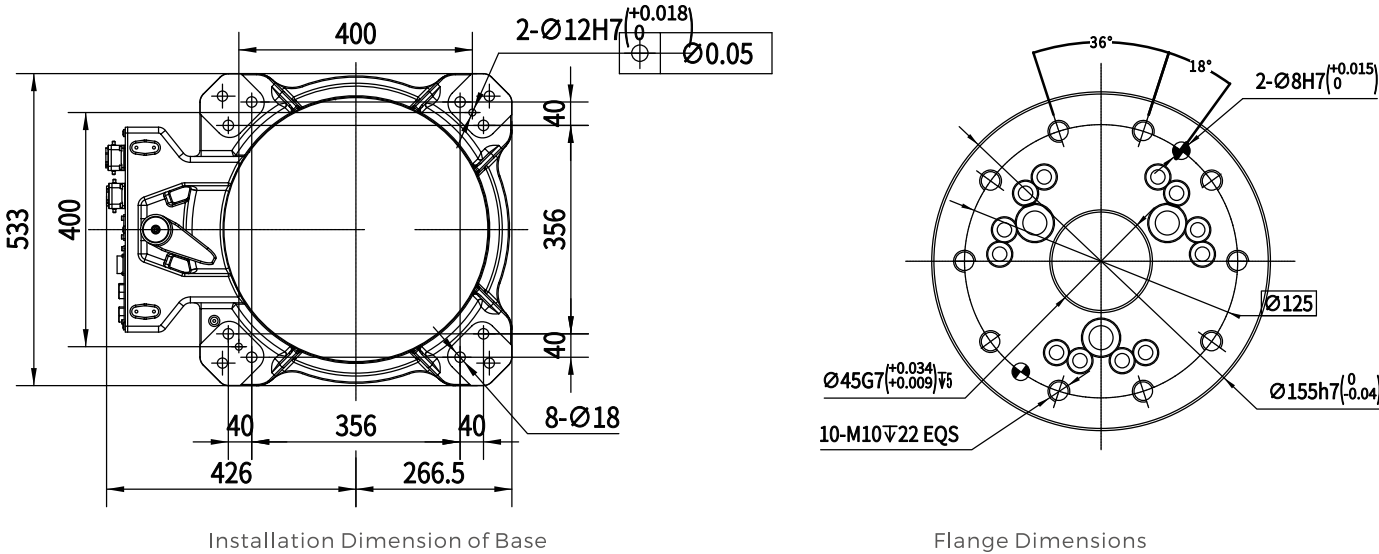
ROBOT BODY TECHNICAL PARAMETERS

Model		CRP-RA27-50	CRP-RA27-80
Arm form		Vertical multiple joints	
Degree of freedom		6 axis	
Maximum payload		50kg	80kg
Maximum coverage		2680mm	
Maximum travel	Axis 1	-180°~180°	
	Axis 2	-160°~75°	
	Axis 3	-80°~165°	
	Axis 4	-170°~170° (with mechanical limit), -360°~360° (without mechanical limit)	
	Axis 5	-125°~125°	
	Axis 6	-360°~360°	
Maximum speed	Axis 1	130°/S	65°/S
	Axis 2	125°/S	62°/S
	Axis 3	124°/S	62°/S
	Axis 4	224°/S	110°/S
	Axis 5	190°/S	90°/S
	Axis 6	285°/S	140°/S
Allowable torque	Axis 4	231N.m	
	Axis 5	231N.m	
	Axis 6	135N.m	
Allowable moment of inertia	Axis 4	27.34kg.m ²	
	Axis 5	27.34kg.m ²	
	Axis 6	12.30kg.m ²	
Repeated positioning accuracy		±0.08mm	
Robot body weight		728kg	
Installation mode		Formal、inverted、wall mounting	
Noise level		<80dB(A)	
Body interface	Reserved IO	26Pin	
	Reserved gas	2*φ10mm	
Installation environment	Ambient temperature	0~45℃	
	Relative humidity	20%~80%RH(No condensation)	
	Vibration	Under 0.5G	
	Others	Robot installation must be away from: flammable or corrosive liquids or gases, electrical sources of interference	
IP level		Body IP54, Wrist IP67	
Advantage features		Compact structure, high speed, high precision, high expansibility and easy operation	
Application		Cutting,mounting,handling,marking,polishing	
Matching electrical cabinet		G15A	

FUNCTIONAL FEATURES

- With a 2.7-meter arm span, this robot boasts excellent load capacity, a large working range, and high flexibility. It features fast operation and high repeat positioning accuracy, suiting applications like loading/unloading, handling, sorting, and assembly.
- Equipped with a control system-independent emergency stop board and dual-circuit safety relay, it ensures reliable emergency stop protection. The robot body uses a highly flexible special cable; a built-in three-phase filter enhances EMC performance and suppresses EMI.
- Fitted with Φ10 dual-circuit gas pipes for handling tasks, it adopts a single cantilever structure to reduce end-effector weight and expand compatible end-effectors, tools, and workpiece shapes.
- Internal routing of cables and gas pipes (via hollowed forearm/wrist sections) boosts user convenience and efficiency. Its high expandability is supported by multiple user-specific bracket platforms for securing cables and auxiliary tools.

INSTALLATION INTERFACE DIAGRAM



MOTION RANGE DIAGRAM

