

New

## pARM 6

Collaborative Robot PREMO pArm 6



### APPLICATIONS

PREMO Flexible Collaborative Robot Arm brings flexible automation in many applications, from quality inspection to material handling, from dispensing to assembly, from palletizing to machine tending, whatever the task our collaborative arms can help you increase productivity.

## 01 FEATURES

- › Fast SET-UP.
- › Flexible.
- › Ultra LIGHTWEIGHT.
- › Safe and Collaborative.
- › Control Box: AC Control Box.
- › Cables: 1.5 Power and Communication.
- › 20% Special Discount for Education and Research Centers.
- › ISO Class Cleanroom.
- › Robot Mounting.

## 02 CHARACTERISTICS

### SPECIFICATIONS

xArm6

Payload (kg)	5kg
Reach (mm)	700mm
Degrees of Freedom	6
Repeatability (mm)	±0.1mm
Maximum Speed (m/s)	1m/s 1m/s
Weight (kg) (robot arm only)	12.2kg

### MOVEMENT

Maximum Joint Speed	180°/s	
Working Range	Joint 1	±360°
	Joint 2	-118°~120°
	Joint 3	-225°~11°
	Joint 4	±360°
	Joint 5	-97°~180°
	Joint 6	±360°

### PERFORMANCE

Ambient Temperature Range*1	0 - 50°C
Power Consumption	Min 8.4 W, Typical 200 W, Max 500 W
Input Power Supply	24V DC, 16.5A

### PHYSICAL

Footprint	Ø 126 mm
Materials	Aluminum, Carbon Fiber
Base Connector Type	M5*5

\*1. The operating temperature of the robot is 0-50 °C. When the joint is continuously operated at high speed, please lower the ambient temperature.

### I/O PORTS

AC Controller Box	8*CI 8*DI 8*C O 8*DO 2*AI 2*A O 2*RS-485
DC Controller Box	8*CI 8*C O 2*AI 2*A O
End Effector	2*Digital Input 2*Analog Input 2*Digital Output 1*RS485

### COMMUNICATION (ROBOTIC ARM)

Communication Mode	Ethernet
Communication Protocol	self-defined

### COMMUNICATION (CONTROL BOX)

Communication Mode	Ethernet
Communication Protocol	Modbus TCP

### END EFFECTOR COMMUNICATION PROTOCOL

End Effector Communication Mode	RS - 485
End Effector Communication Protocol	Modbus RTU