

Made for the toughest jobs

The Epson AX6 can be used in a wide variety of environments thanks to its IP54-rated protection and ISO 5 cleanroom classification.*

It supports a full suite of applications, including handling, assembly, inspection, pick-and-place, end-of-line operations, and palletising, making it versatile enough for use across a wide range of industries.



Electronics - Inspection



Pharmaceutical and Medical - Pick and place



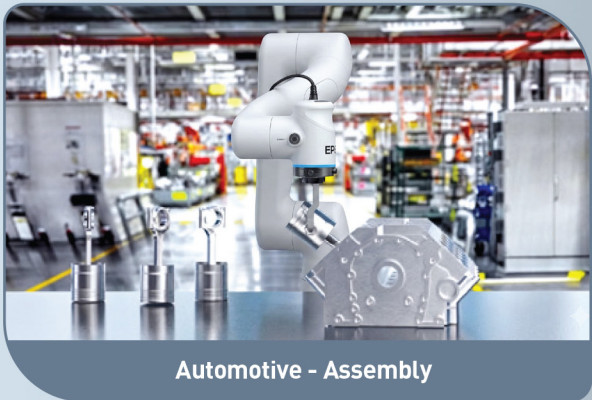
Education - Training & Research



Packaging in every industry - Palletising



Metal industry - Handling operations



Automotive - Assembly

Model Number **AX6-A901S**

Payload
[6] : 6kg

Arm length
[90] : 900mm

Installation environment
[S] : Standard model

Brake equipment
[1] : Brakes on all joints

Specifications			Model number	AX6-A901S
Degree of freedom		axes		6
Arm length *1		mm		900
Payload		kg		6.0
Joint range	Joint#1	deg		±240
	Joint#2	deg		±155
	Joint#3	deg		±160
	Joint#4	deg		±200
	Joint#5	deg		±155
	Joint#6	deg		No limit *2
Repeatability	Joint #1 - 6	±mm		0.03
Max. TCP speed *3		mm/sec		2000
Mounting method				Tabletop mounting / Ceiling mounting / Wall mounting / Inclined mounting
Weight (not include the weight of cables)		kg		18
IP rating				IP54 **
Cleanroom compatibility				ISO Class 5 **
Operating temperature		°C		5 - 40
Compatible controller				RC-A101
Power supply				AC : 100-240 V ±10%, 50-60 Hz / DC : 48 V ±15%
Cable length (Power / Signal / Ethernet)		m		0.5 / 1.5 / 3.0 / 5.0
Safety standard				CE (Self-declared), KCs (Scheduled for certification: from July 2026)

*1 : J1 center to J5 center.
*2 : There is a ±50 full-rotation limit on Joint 6. Movement beyond this limit is not possible. When an Ethernet cable and/or air tubes are connected to the end effector, they may further restrict Joint 6 rotation.
*3 : Maximum linear speed of the Tool Center Point (TCP).
*4 : Compliance with ISO 14644-1 Class 5 and IP54 is based on design evaluation and is not guaranteed at the time of shipment.
The values of the products listed in this sheet are measured under various conditions of in-house evaluation. They may vary depending on the environment and conditions of use.

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AX6

THE ULTIMATE COBOT SOLUTION

6-axis collaborative robot designed for flexible installation and operation.



Payload 6 kg /
Arm length
900 mm



High layout
flexibility



Smooth exterior
design for
easy cleaning



Internal routing
for cables
and tubing



Flexible power
options with
AC/DC support



ENGINEERED FOR good

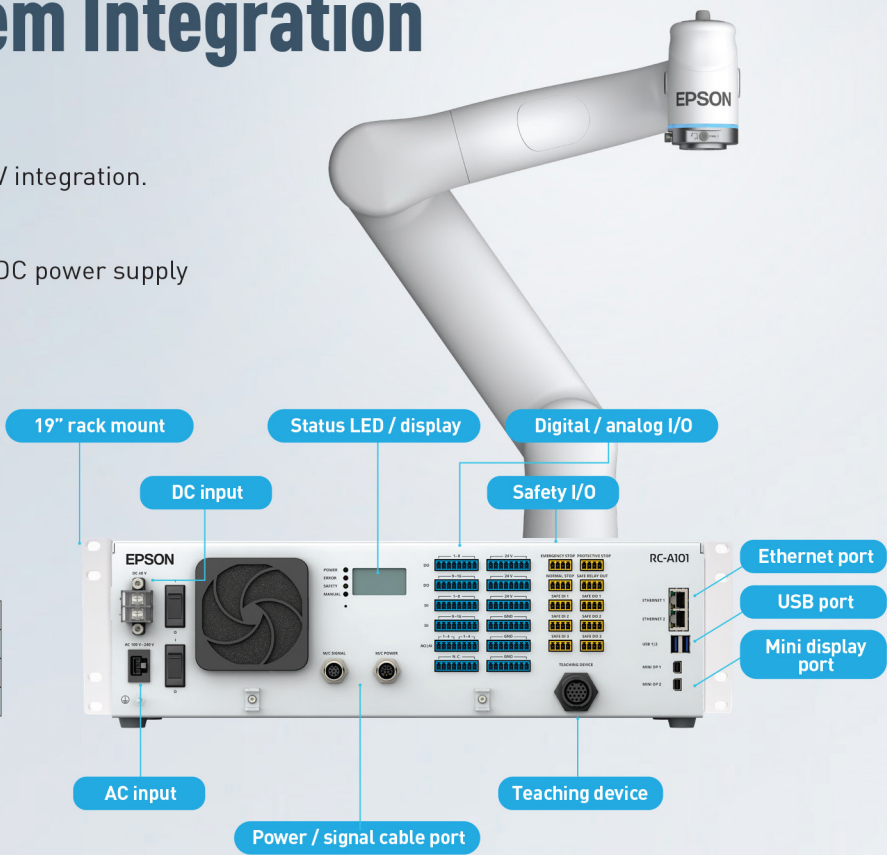
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Compact Controller for Flexible System Integration

- Flexible Integration**
Compact controller for seamless AMR/AGV integration.
- Easy Setup**
Front-access connectivity and built-in AC/DC power supply simplify installation.
- Safe, High Performance**
Built-in safety features and IPC support enable flexible system configuration.

RC-A101

Size	440 x 205 x 135 mm (W x D x H)
Weight	5.5 kg
Mounting	Vertical / horizontal / rack mount
Operating Temp	5 ~ 40 °C



Optional Accessories

Enhance teaching and operational efficiency with tablet-based control.

Tablet Holder



Example Setup

Tablet Holder (+ Tablet)

Enables intuitive teaching and fine adjustments while checking positions close to the robot.

* Tablet not included (to be provided by the customer)
Supported OS: Android, Windows, iOS
Supported tablet size: 10-13 inches



Enable Device



Example Setup

PC + Enable Device

Efficient programming and motion verification in a coding-centric environment

Safe stopping and motion checks can be performed on site during manual operation



Engineered for Ease of Use

Flexible Installation Options

Supports multiple mounting orientations, including ceiling, wall, tabletop, and inclined mounting.



Expansion into Mobile Applications

Compact design with DC power support for seamless AMR integration.



Supports AC/DC power (AC 100-240V / DC 48V)

Smooth Exterior for Easy Cleaning

Smooth, easy-to-clean carbon exterior minimises dust and dirt buildup.



Internal Cable Routing

Internal routing for Ethernet and air lines with reduced external cabling for a clean, integrated design.



Note: The top image shows a development-stage unit, with the left and right sides reversed.

User-Friendly Operations

Head-Mounted LED for Clear Status Indication

Colour-coded signals enable intuitive recognition of operating conditions and early detection of abnormal states.



LED	Status
Green	Auto mode
Blue	Manual mode
Yellow	Safe mode activated
Red	Emergency stop

Control Buttons for Intuitive Operation

Direct jogging and teaching enable intuitive operation and improve teaching efficiency.



Hand open/close button

Operable during direct teaching for efficient positioning.

Pose registration button

Enables continuous position registration for intuitive teaching.

User-defined buttons (2 channels)

Supports program execution and peripheral device control.

Industrial Safety and Reliability

Cleanroom Compatibility

Compliant with ISO 14644-1 Class and designed to minimise particle generation for high-cleanliness applications.



Note: Compliance with ISO 14644-1 Class 5 and IP54 is based on design evaluation. Actual performance may vary depending on operating conditions and usage.

Dust and Water Protection

IP54-rated protection against dust and water ingress. Withstands demanding environments for stable operation under varying conditions.



Integrated Safety Functions

Supports ST0, SS1, SS2, and PFL safety functions for safe human-robot collaboration and automatic stop protection.

Flexible Programming & Development

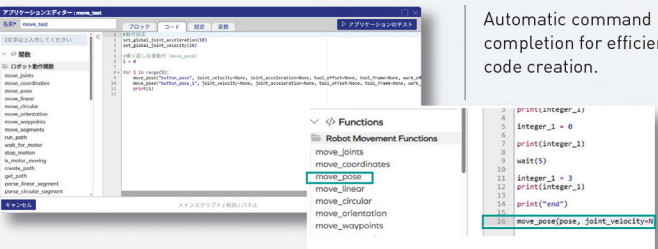
Seamless Development to Operation

Enables intuitive programming and smooth transition from development to operation.



Development Flexibility

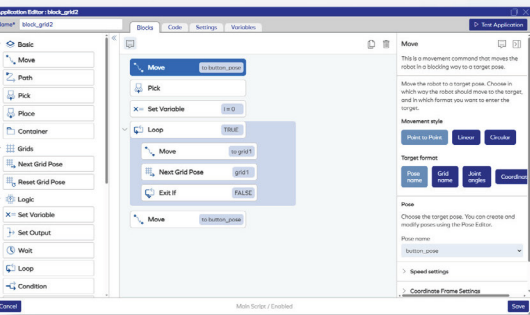
Supports Python, command assist features, and ROS/ROS2 compatibility for flexible development, efficient coding, and advanced system integration.



Automatic command completion for efficient code creation.

Intuitive Programming

Intuitive block-based programming enables easy program creation, with support for direct Python coding and flexible operation methods for various applications.



Functions for Stable Operation

Intuitive panel-based operation and monitoring with multiple access levels to prevent unintended changes and support stable operation.

