

# Epson AX6 Collaborative 6-Axis Robot



**Transform what's possible—enable ease of use with no-code software.**

**Power- and force-limiting** — with a proper risk assessment, helps increase worker interaction without the need for safety shields

**Easy-to-use no-code software** — program the robot with an intuitive user interface that does not require previous programming experience

**Compact, lightweight and robust design** — carbon fiber structure creates a space-efficient and lightweight workcell, ideal for many collaborative applications; IP54 and ISO 5 cleanroom<sup>1</sup> rated

**Customizable Python development environment** — upload your custom libraries and modules to develop more complicated robotic application workcells easily

**Industrial kinematics** — easily generate straight-line, curved or joint motions from either a no-code or Python-based environment

**End-of-arm multifunctional user buttons** — include three customizable and two dedicated buttons; easily teach positions by manually moving the robot in free space and utilizing the Teach buttons

**End-of-arm Ethernet port and pneumatic connections** — simplifies end-of-arm tooling for grippers, dispensers and more

**Compatible with multiple power sources** — supports 100 V to 240 V AC and 48 V DC

**End-of-arm multicolor status LED ring** — quickly assess the robot's status through fixed color status lights at the end of the arm

**3D simulator** — test programs in simulation before running them within the workcell

| Model Name                                          |                             | AX6 6-Axis Collaborative Robot                                                |
|-----------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------|
| Model Number                                        |                             | RAX6-A                                                                        |
| Mounting Type                                       |                             | Tabletop, Ceiling, Wall                                                       |
| Arm Length                                          | Distance J2 to wrist center | 900 mm                                                                        |
| Repeatability                                       | Joints #1 - #6              | ±0.03 mm                                                                      |
| Payload                                             | Max.                        | 6.0 kg                                                                        |
| Max. Motion Range                                   | Joint #1                    | ±240 deg                                                                      |
|                                                     | Joint #2                    | ±155 deg                                                                      |
|                                                     | Joint #3                    | ±160 deg                                                                      |
|                                                     | Joint #4                    | ±240 deg                                                                      |
|                                                     | Joint #5                    | ±155 deg                                                                      |
|                                                     | Joint #6                    | ±50 full rotations                                                            |
| Maximum Linear Speed of the Tool Center Point (TCP) |                             | 2,000 mm/sec                                                                  |
| User Electric Lines                                 |                             | 8-Pin (Enet, M12, X-coded), 8-Pin x 2 (I/O, M8, A-coded)                      |
| User Pneumatic Lines                                |                             | ø4 mm x 4                                                                     |
| Power                                               |                             | AC: 100 V – 240 V ±10%, 50 Hz – 60 Hz / DC: 48 V ±15%                         |
| Power/Singal/Ethernet Cable Length                  |                             | 0.5 m/1.5 m/3.0 m/5.0 m                                                       |
| Weight (Cables Not Included)                        |                             | 18 kg                                                                         |
| Applicable Controller                               |                             | RC-A101                                                                       |
| Installation Environment                            |                             | Cleanroom (ISO 5) <sup>1</sup>                                                |
| What's Included                                     |                             | AX6 robot and RC-A101 controller.<br>Robot power, signal and Ethernet cables. |

**DISTRIBUTED BY:**



***Air-Oil Systems, Inc.***

**AUTOMATION SOLUTIONS**

753 WAMBOLD ROAD SOUDERTON, PA 18964-2715

215.721.9595 800.333.5520 FAX 215.721.7666

[www.airoil.com](http://www.airoil.com)

<sup>1</sup> Complies with ISO Class 5 (ISO 14644-1) cleanroom standards.