Epson AX6-A901S

The ultimate cobot solution

EPSON®

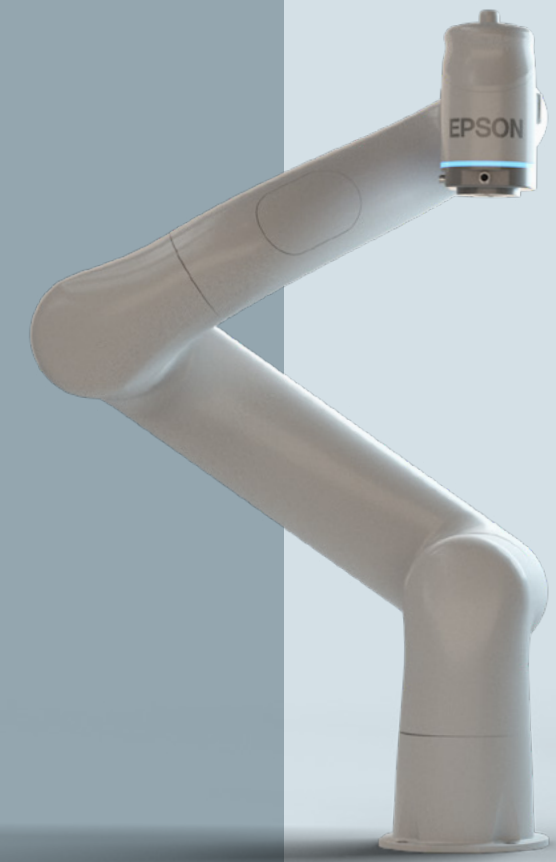
Collaborative automation just got an upgrade

Combining advanced Swiss engineering with state-of-the-art connectivity options and intuitive software, the Epson AX6 represents a complete collaborative automation solution for a wide range of industries.

Precision, flexibility and outstanding repeatability are paired with simple programming for easy creation of new applications. All executed to the highest standards of robot safety. And with advanced technology features, the AX6 is ready to evolve ensuring your operations stay efficient well into the future.

Exceptional performance with user-friendly operation

The Epson AX6 comes backed with a sophisticated suite of customer-oriented features.



- Ultra-rigid and lightweight robot arm made of carbon fibre
- Sleek and compact design for space-saving installation
- High energy-saving capabilities of up to 40%*
- User-friendly Python and robot block programming options
- AC/DC power supply integrated as standard for fixed or AMR-mounted operation
- Integrated user lines and state-of-the-art connectivities for seamless machine integration

High performance with a small footprint

Crafted from high-tech, ultra-rigid carbon, the Epson AX6 cobot arm is compact and hard-wearing, delivering power, agility and precision for the most sophisticated applications.

The low weight and efficient motor mechanics provide energy-saving benefits, whilst user-friendly features, advanced connectivity options and continuous operation capabilities minimise downtime, even in challenging conditions.

Exceptional precision
With a 6kg payload, a 900mm arm reach and 0.03mm repeatability, the AX6 enables perfect execution of a wide variety of tasks.

Sleek and compact design
With its smooth and screwless surface, the AX6 is visually appealing and easy to clean, while the rigid carbon arm makes it compact and precise.

Excellent safety standards
The AX6 meets the latest industry standards and machine directives and includes an extensive range of safety features including SS2, SLS, SLP and PFL.

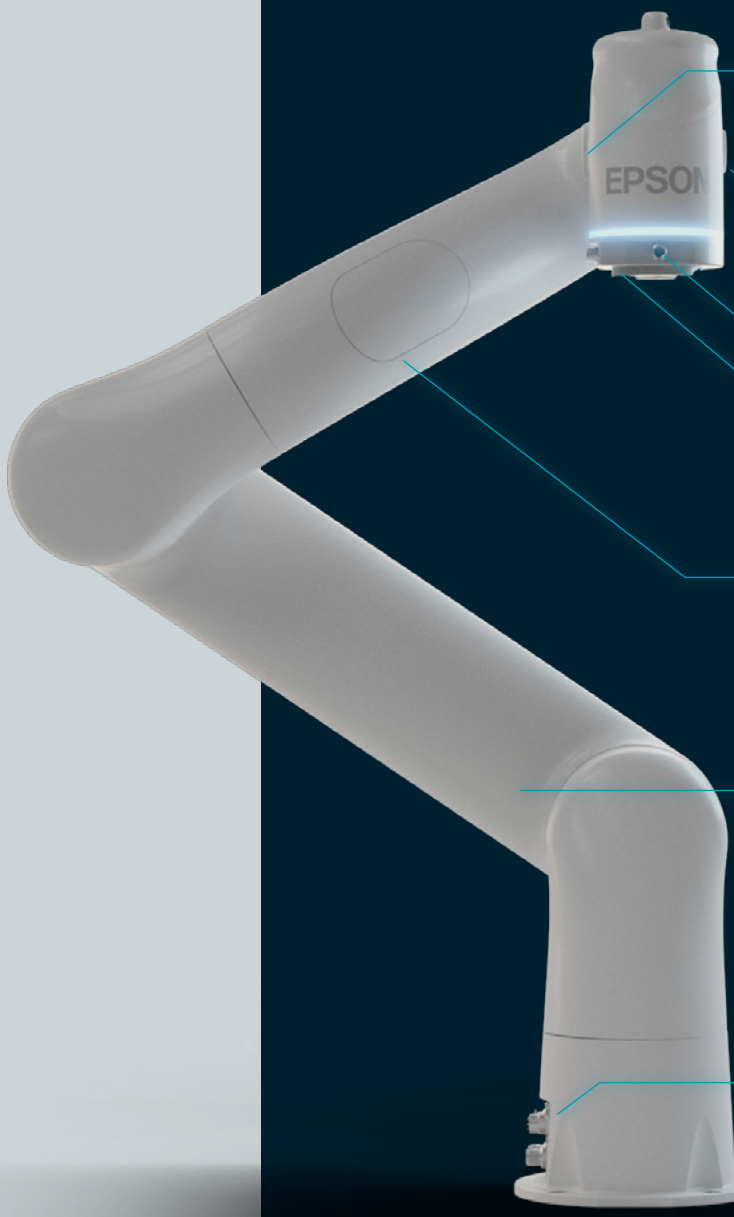
Hardwearing design
Suitable for a full range of industrial environments thanks to IP54 protection class and ISO 5 cleanroom classification, included as standard.

Versatile mounting options
Mount the cobot in various positions such as table top, wall, ceiling or even on a mobile platform.

Energy-saving operation
At 17kg, the AX6 is the lightest cobot in its class, combined with efficient motor mechanics it helps lower energy use for more cost-efficient operations.

Multi-functional user buttons for simple, fast and safe operation

Multi-status LED ring



2 x 4mm pneumatic connections

1 x Ethernetport (M12)

2 x M8 tool connectors

Endless rotation of J6

Smooth surface and screwless design

Lightweight, ultra-rigid carbon structure

Easy to connect industrial ports

Highly flexible operation with a powerful, compact controller

Achieve smooth operation and functionality with ease thanks to the Epson RC-A101 controller. Advanced technology and integrated safety features are paired with a user-friendly interface to ensure high performance and enhanced productivity.

Embrace ultimate versatility
An integrated AC/DC power supply and compact, lightweight 19-inch format allow for fixed use or easy AMR mounting.

Guarantee high performance
Integrated web-based programing software backed by an IPC allows the cobot to maintain consistent high performance.

Ensure easy integration with your operations
Digital and analogue input/output options are available for signal exchange of the controller and end-of-arm tools. Communication protocols and interfaces include TCP/IP, Modbus, REST and ROS 2 Interface.

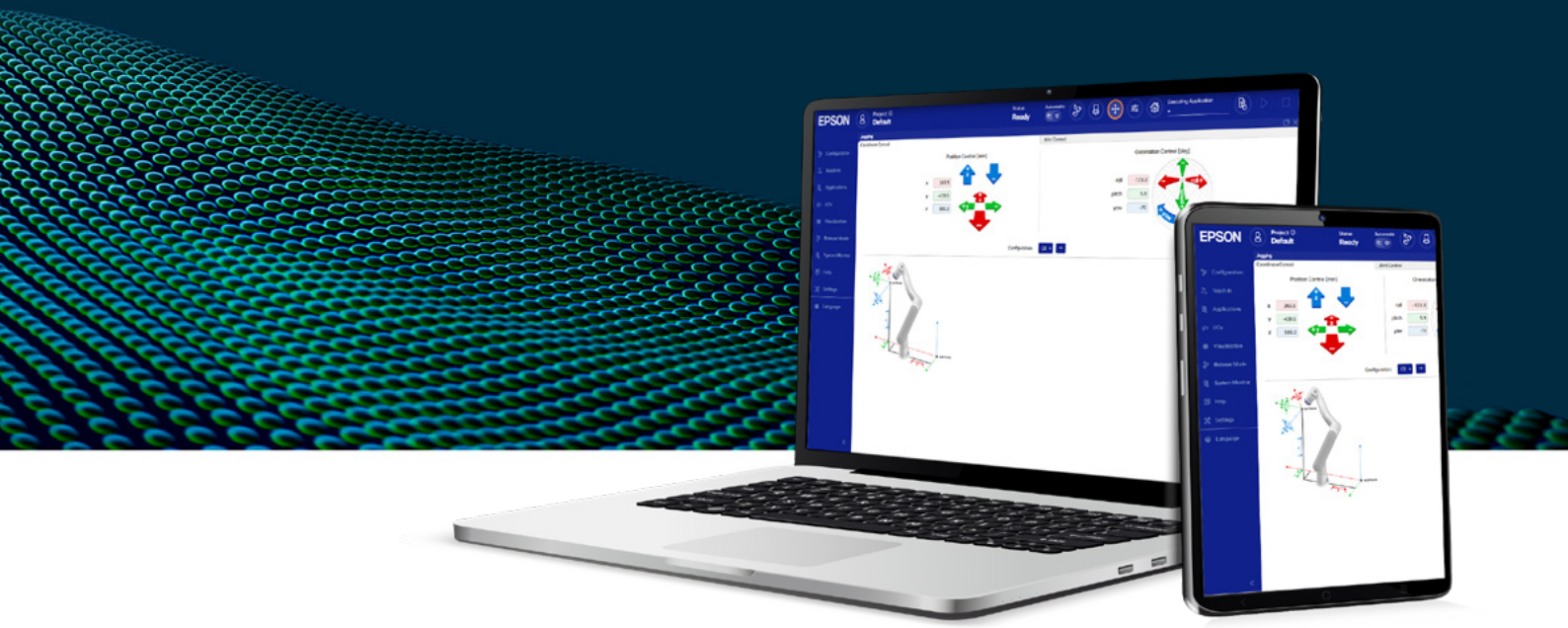
Oversee safe operations
The AX6 is compliant with the latest industry standards and machine directives for personnel safety in collaborative environments.

Secure state-of-the-art connectivity
An accessible front-side panel offers smart connectivity options via Ethernet, USB, and Display Port, for seamless communication with other machinery and software systems.

Simple and intuitive program building

Make executing even the most complex applications easy with the Epson AX portal. A secure, customisable web interface ensures set-up and operation is simple.

With maintenance and testing capabilities included, and customer support features, your operations are backed by more than 40 years of experience in the automation industry.



Python programming
Use your existing Python programming skills to create even complex robot applications.

Block-programming
Robot block-programming commands, fully integrated modules and libraries make automation easy, even without programming experience.

Conduct risk-free testing with a 3D simulator
Eliminate the risk of downtime with offline testing and programming phases via an integrated 3D simulator.

Open web-based programming
Monitoring, maintenance and testing capabilities are all available via a secure, customisable web interface.

Learn as you go with wizards and guides
Easy-to-use guides and templates make creating tools, pallets or defining systems swift and seamless.

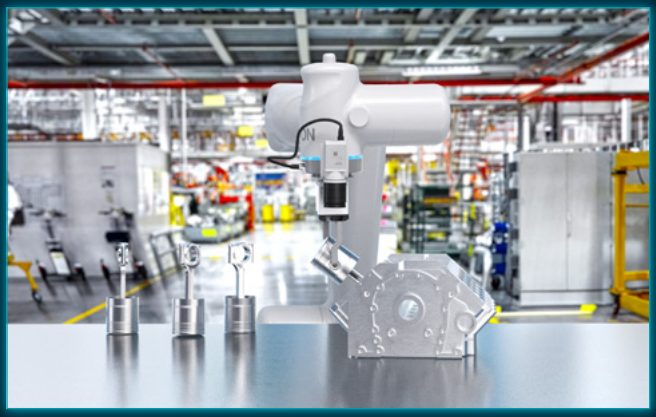
Customer remote support system
All RC+ 8.0 customer support functionalities are integrated for end-to-end support.

Made for the toughest jobs

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

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

Metal industry - Handling operations



Automotive - Assembly

Electronics - Inspection

Life science - Pick and Place

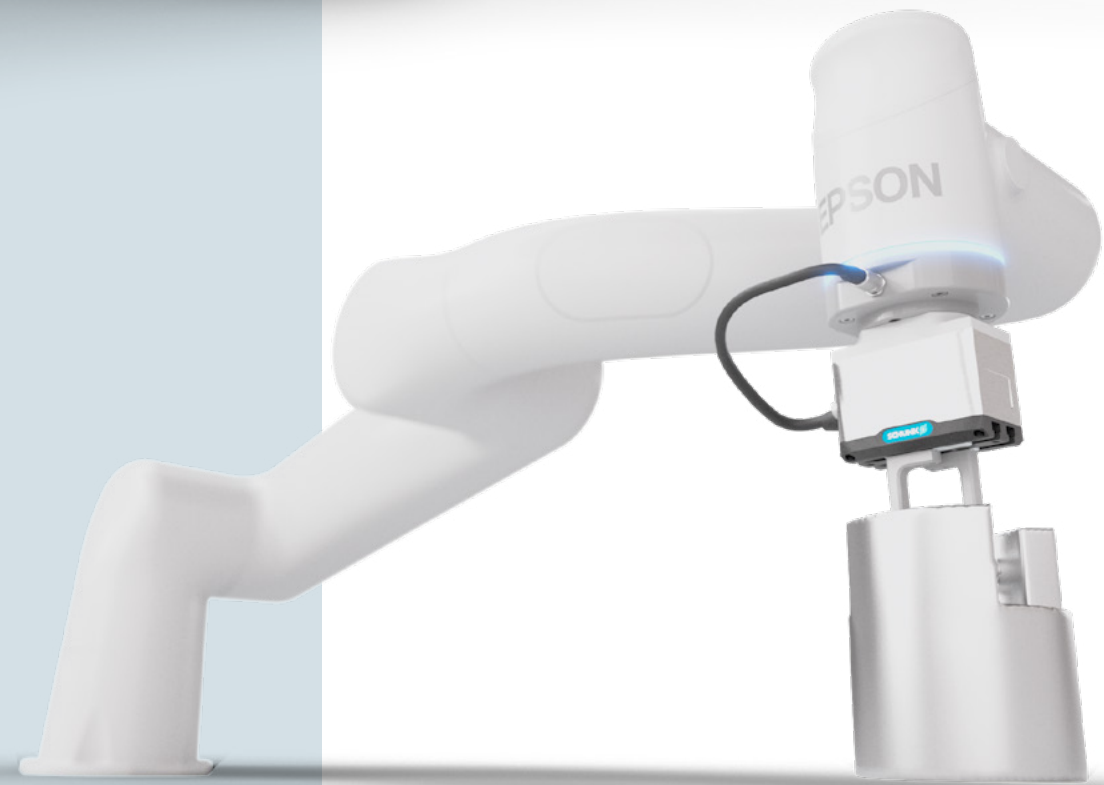
Logistics - End of line

Logistics - Palletising

Seamless integration - the key for efficient automation

Our Epson Compatible Program allows you to build your own application with the Epson AX series. State-of-the-art connectivity and a standard flange connection (ISO50) allow you to select robot peripherals from any third-party supplier.

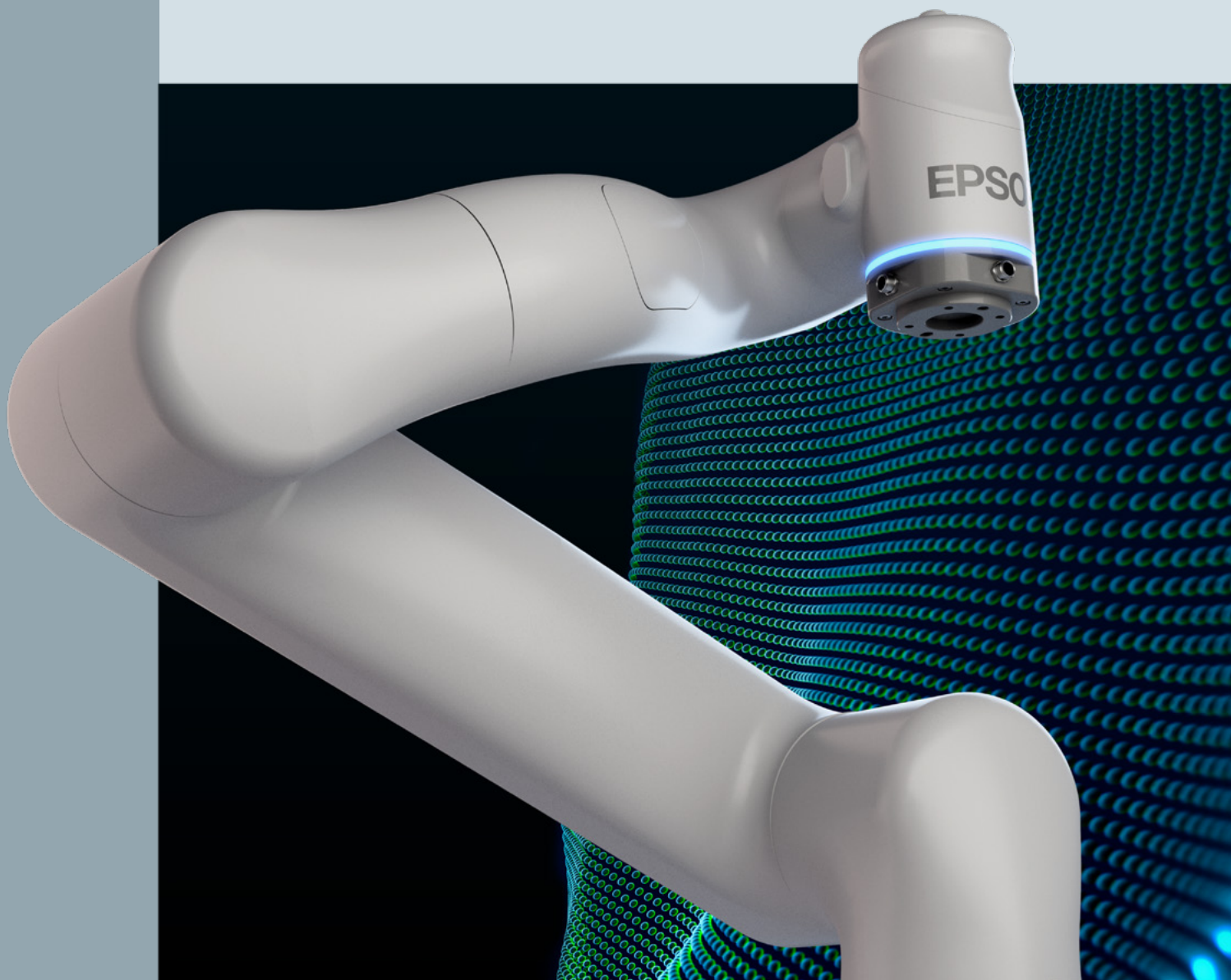
A variety of tools and components are supported, including grippers, suction cups, and more for ultimate flexibility to enhance your operations.



Technical specification

	Epson AX6-A901S	
Payload	Maximum (kg)	6
Arm length	P-Point: J2-J5 center (mm)	900
	J2-J6 Flange surface	990
Repeatability (ISO 9283)	Joints #1-#6 (mm)	0.03
Max. motion range	Joint #1 (deg)	+/-207
	Joint #2 (deg)	+/-155
	Joint #3 (deg)	+/-160
	Joint #4 (deg)	+/-200
	Joint #5 (deg)	+/-155
	Joint #6 (deg)	∞
Max. operating speed	Joint #1 (deg/s)	180
	Joint #2 (deg/s)	180
	Joint #3 (deg/s)	180
	Joint #4 (deg/s)	300
	Joint #5 (deg/s)	300
	Joint #6 (deg/s)	300
	Cartesian at TCP (mm/s)	2000
Weight		17 kg
Mounting type		Floor, Wall, Ceiling
Environment specification	IP classification	IP54
	Clean room classification (ISO 14644-1)	ISO 5
	Working temperature	0 to 40°C
Robot flange	I/O`s	4 × Digital (24V, 2A), 4 × Analogue, RS485, 1 × Ethernet (M12)
	Compressed Air	2 × 4mm quick coupling
	Flange connection (ISO9409-1)	50-4-M6
Applicable Controller		Epson RC-A101
Robot cable length		0.5/1.5/3/5/10 m
Supported devices		Epson AX Tablet Holder, Epson AX Light grip switch
Safety functions		SS2, SOS, SLS, SLP, PFL, STO, HGC
Certificates		ISO-10218-1 (2025), ISO 13849-1, ISO 15066, ISO 14644-1

	Epson RC-A101
Dimensions	440 × 220 × 140mm
Weight	6 kg
Mounting type	Table top, Rack mount (19 inch)
IO´s	24 × 24V DC, 5A
	Digital: 16 × I/O´s, 1A each
	Analogue: 4 × I/O´s, [0-10V] or [4-20mA]
Connections	1 × Ethernet (RJ45), 2 × USB 3.0, 2 × Mini display
Communication protocols	TCP/IP, ROS 2, REST
Safety I/O`s	10 × Input, 6 × Output
Power type	AC/DC
Power supply	100-240V 50-60Hz (AC)/48V (DC)
Power consumption	190 W (AC)/160 W (DC)
Controller cable length	5 m



Discover the next generation of cobot technology from Epson.

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* The comparison between the robots is measured on the movement of the ISO Cube, as per ISO 9283. This measures the energy usage for one cycle of the test movement in the ISO Cube, and compares the cobot against ABB's IRB 1200-5/0.9 industrial robot, using the same speed and payload for both. The energy usage for one cycle of the ISO Cube Motion of the cobot was at least 40% lower for the complete cycle.

Please recycle responsibly

A22375_Cobot Brochure_EN-INT_06/25

For further information please contact your local Epson office or visit www.epson.eu/contact-us

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