EVA

SIMPLE, AFFORDABLE AUTOMATION
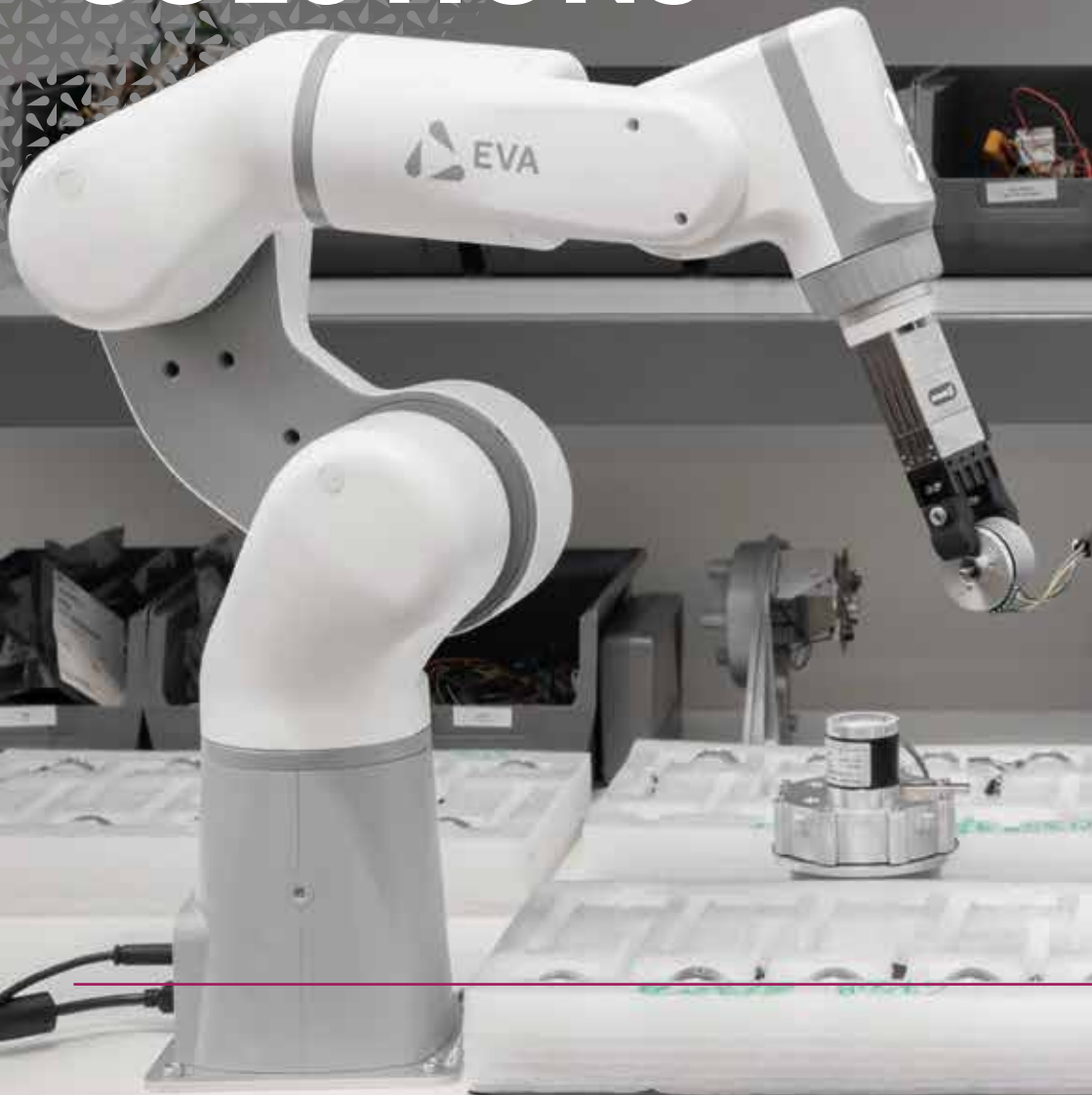
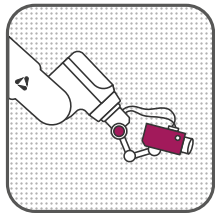Automata

LOW COST
INDUSTRIAL AUTOMATION
SOLUTIONS
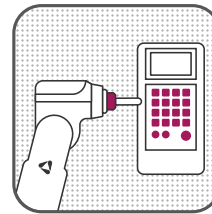
Eva: the **simple**, **low cost** industrial robot.

Engineered from the ground up to be **lightweight**, **user friendly** and **accessible** to all shop floor workers, Eva is programmable in under 30 minutes.

EVA
THE AFFORDABLE ROBOT
FOR

Inspection
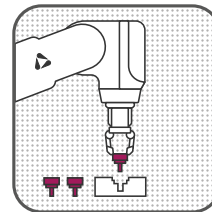Integrate Eva with a camera for quality control and inspection tasks

Machine Tending
Program Eva to load or unload parts from your existing machines

Product testing
Safely and accurately perform test sequences in a repeatable, consistent way

Sorting
Move items into different locations based on detection of sensory inputs

AUTOMATE
YOUR REPETITIVE TASKS TO

▶ Increase throughput and efficiency

▶ Reduce production costs

▶ Free staff from manual tasks

▶ Remove bottlenecks in production

CONNECTIVITY

SIMPLICITY

There are multiple ways to programme Eva:

Teach by hand and fine tune with **Choreograph**, the browser-based software

Use the **REST API** and **Python SDK** to build integrations and expand the robot's capabilities further"

Eva's light weight and small footprint enable rapid changeovers to minimise downtime between runs, with no special technical expertise or equipment required.

Eva ideal for smaller and mid-sized manufacturing businesses with high mix, low volume runs.

No control boxes, no pendants.

GETTING STARTED

Eva also includes:

▶ Access to Automata's support team to assist with set-up and troubleshooting

▶ A lifetime Choreograph software license, including future updates and feature releases

▶ One year full warranty protection, including parts and labour

In the box you will find:

▶ Eva, your portable six axis robot arm

▶ A mains power supply

▶ An emergency stop button

▶ A user manual

▶ A brake release lever

PREPARING FOR **INSTALLATION**

For simple pick and place tasks, Eva has been designed to be installed and programmed in under 30 minutes by someone with no prior robotics experience.

For more complex projects or those requiring integration with existing machines, our in-house integrations team or one of our specialist integration partners will be able to help.

Get in touch at **sales@automata.tech**

Map out the process(es) you will be automating

Prioritise highly repetitive, bottleneck tasks that take up valuable human time

Scope out technical requirements for peripherals

Understand what kind of end of arm tooling or gripper is required for your parts

Understand integration requirements

Including parts presentation, sensors, vision, feeding systems, a PLC or other integrations

Prepare your workspace

Install Eva on a sturdy surface, secured with M6 screws or clamps

INTEGRATION

SPECIFICATIONS

Eva Desktop Robot Arm

Degrees of Freedom: 6
Repeatability: ± 0.5 mm
Max Payload: 1.25 kg
Reach: 600 mm
Installation Position: Upright
Weight: 9.5 kg
Joint velocity limits: 120° / second
TCP speed: 1500 mm/s
Power: 24 VDC @ 11.67A
Power Consumption: 280 W Peak
Footprint: 160 x 160 mm

Electronic Interfaces

4X: Analog Inputs
2X: Analog Outputs
6X: Digital Inputs
6X: Digital Outputs
1X: E-Stop inputs
1X: Ethernet
1X: Wifi Card
Tool Power: 24 VDC @ 1 A
Base I/O Power: 24 VDC @ 1.5 A
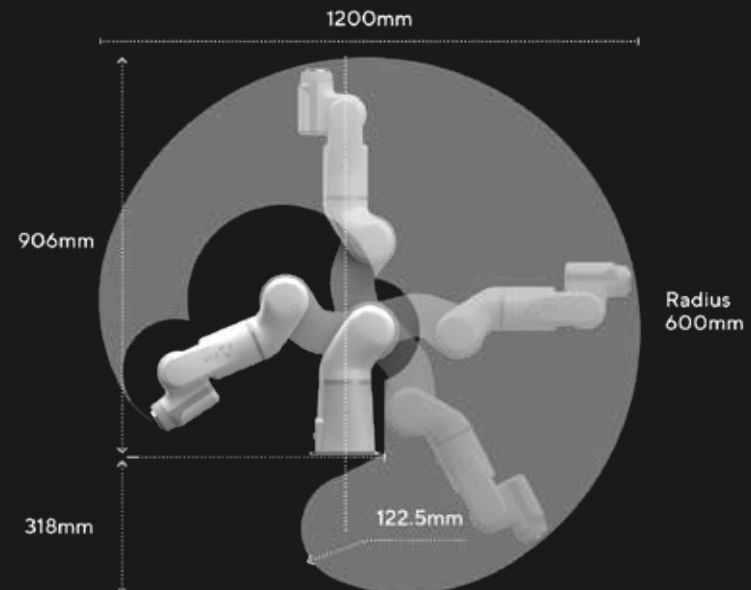
Operating Environment

Ingress Rating: IP20
Temperature: 5 - 30 °C
Cabling: Max 3 m for power, e-stop, tools

Programming

Type: Remote REST API
Interface: GUI through web browser
Communication: Ethernet or wifi
Deployment: Local (installed on robot)
Export/Import: Base64 / Javascript

Joint Position Limits

A1: ± 180°
A2: -152° / +70°
A3: -160° / + 42°
A4: ± 180°
A5: -159° / + 11°
A6: ± 180°

1200mm
906mm
318mm
122.5mm
Radius 600mm

For more information visit our website: automata.tech