

EVA

— THE SIMPLE, AFFORDABLE ROBOT —

INDUSTRIAL AUTOMATION FOR LESS THAN £5,000

Eva is a simple, affordable robot. It can sit on your desktop, or a machine on your production line. A shop floor worker can program it in **fifteen minutes**.

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EVA CAN HELP YOU WITH:



Machine Tending

Program Eva to wait for the right moment to load or unload parts



Spot Dispensing

Deposit fluids in precise locations, such as glue on PCBs



Product Testing

Safely repeat sequences like gently pressing points on a touchscreen



Laboratory Work

Handle sensitive test trays with little human intervention



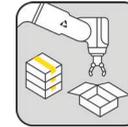
Packaging

Fill boxes with stock by programming a grid, or load boxes onto pallets



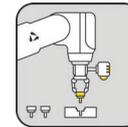
Quality Control

Use cameras to send Eva instructions based on pass/fail criteria



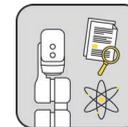
Cardboard Folding

Rapidly assemble boxes to a consistent specification



Sorting

Direct objects into different locations by sending sensory information to Eva



Academia

Teach robotics 101 hands-on, or push boundaries with your AI application

CONNECTIVITY

Eva uses the technology you're already familiar with to talk to you and your equipment. It connects to your computer over ethernet or wifi and comes equipped with 24V industrial logic.

Teach Eva by hand, then fine tune with **Choreograph**, software as intuitive as a smartphone app, running in your web browser. Developers can use the RESTful API or Python SDK to expand its capabilities even further.



SIMPLICITY

Eva's light weight and small footprint enable rapid change overs and painless operation, with **no special expertise or equipment required**.

Unlike traditional, bulky industrial robots, Eva excels at **everyday processes**. It's ideal for loading machines, inspecting parts and precisely dispensing fluids.

No control boxes, no pendants.





NOW SHIPPING THROUGHOUT EUROPE

In the box you will find:

- Eva - Your portable, six axis robotic arm
- A mains power supply
- An emergency stop button
- Your user manual
- A brake release lever

Your purchase also includes:

- Robust support to help you with installation and troubleshooting.
- A lifetime licence to use our software, including security patches.
- One year's subscription to Eva feature updates. (Renew for £1,000)
- Protection for a year with a full warranty, covering parts and labour.

Eva is already working at job shops and high mix, low volume manufacturers throughout the UK. We can ship anywhere that recognises Conformité Européenne (CE) marking. If you're based somewhere that doesn't, we'd still love to hear from you. Email us at sales@automata.tech and we'll let you know as soon as we start shipping to your country!

HOW CAN A ROBOT BE THIS AFFORDABLE?

- We built our own powertrain, giving us complete control over Eva's design.
- We took advantage of cutting edge prototyping technology to develop hardware at software speed.
- We focused on making Eva easy to install. We host demonstrations at our London HQ, and via video. For complex projects, we can recommend some great solution integrators.
Get in touch at sales@automata.tech



Apr 2014



2015



2016



2017



Nov 2018

GETTING STARTED

Identify a process that would benefit from automation

Look for repetitive tasks that take up valuable human time.

Choose the right end-of-arm tooling for the job

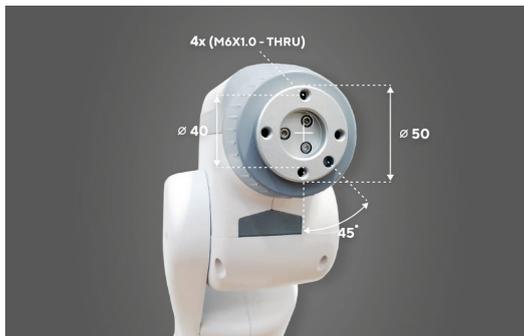
To get up and running, you'll need a mounting flange. Some grippers are also designed to drive custom fingers suitable for your part. These components are usually 3D printed or machined from aluminium.

You can use up to four M6 screws to attach your mounting flange to Eva. The holes are arranged in a circle with a 40 mm diameter. The ISO shorthand for this layout is **ISO 9409-1-40-4-M6**.

Set up your environment for the installation

The robot should be installed on a sturdy surface with four M6 holes, spaced in a 132 x 132 mm square. The total footprint of the baseplate is 140 x 140 mm.

Keep the robot work area free from obstructions and hazards. This is a sphere extending 883 mm above and 317 mm below the base plate, and 1306 mm horizontally outwards from the middle of the robot.



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
Toolplate max speed: 750 mm / second
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

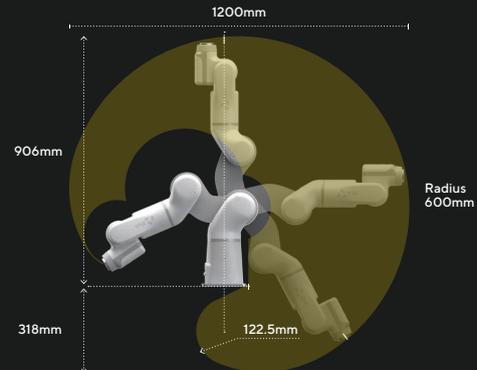
Ingress Rating: IP20
Temperature: 5 - 40 °C
Cabling: Max 3 m for power, e-stop, tools
Max Humidity @ 40°C: 50%
Max Humidity @ 20°C: 90%

Joint Position Limits

A1: $\pm 180^\circ$
A2: $-152^\circ / +70^\circ$
A3: $-160^\circ / +42^\circ$
A4: $\pm 180^\circ$
A5: $-159^\circ / +11^\circ$
A6: $\pm 180^\circ$

Programming

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



For more information visit our website: automata.tech