

It's small.

The Meca500 is the world's most compact and most precise six-axis robot. It's also easy to use: just plug it in and start working. No training required.



Enabling new microautomation possibilities

Minimal footprint,
maximum precision

With an embedded controller, the Meca500 is unbelievably compact. It's the perfect choice for applications with extreme footprint limitations.



About the Meca500

While most industrial robots are complex stand-alone systems, the Meca500 is a plug-and-work component, making it incredibly easy to integrate via any computer or PLC.

1 μ m

RESOLUTION

5 μ m

REPEATABILITY

500 g^{*}

RATED PAYLOAD

330 mm^{}**

REACH



Ultra compact

Controller embedded into the base



Low TCO

Maximize value with minimal ownership costs



Highly precise

Boasts 0.005 mm repeatability



Easy to integrate

Software and hardware agnostic

SCAN ME



Industrial performance

Embedded controller

^{*} Rated payload is 500 g.
Max. payload is 1 kg, under certain conditions.

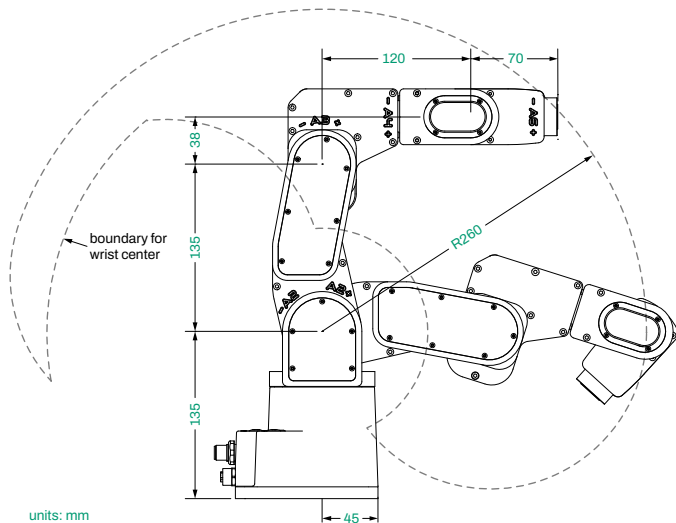
^{**} Reach from flange is 330 mm.
Reach from wrist is 260 mm.



Unlock precision like never before

Built with high-resolution encoders and zero-backlash precision gearboxes, the Meca500 boasts a repeatability of 5 μm — smaller than the diameter of a red blood cell.

02 Principal dimensions and offsets



Visit the product
page for more



01 Key specifications

Rated payload	500 g [*]
Total weight	4.6 kg
Reach	330 mm ^{**}
Mounting	any orientation
Cleanroom classification	ISO Class 6 ^{***}

^{*} Rated payload is 500 g. Max. payload is 1 kg, under certain conditions.

^{**} Reach from flange is 330 mm. Reach from wrist is 260 mm.

^{***} Certified Fraunhofer.

03 Supported industrial fieldbus

EtherNet/IP[™] **PROFI**[®]
NET EtherCAT[®]

04 Language agnostic using TCP Socket

   python[™]  LabVIEW[™]
and others.

05 Provided API

 python[™]