

# 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  $\mu$ m**  
RESOLUTION

**5  $\mu$ 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



## Industrial performance

Embedded controller

\* Rated payload is 500 g.  
Max. payload is 1 kg, under certain conditions.

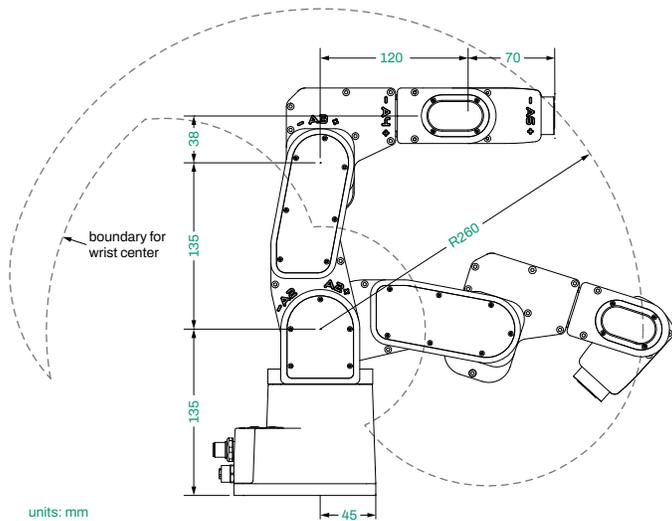
\*\* Reach from flange is 330 mm.  
Reach from wrist is 260 mm.



# Unlock precision like never before

Built with high-resolution encoders and zero-backlash precision gearboxes, the Meca500 boasts a repeatability of 5  $\mu\text{m}$  — smaller than the diameter of a red blood cell.

## 02 Principal dimensions and offsets



## 01 Key specifications

<b>Rated payload</b>	500 g*
<b>Total weight</b>	4.6 kg
<b>Reach</b>	330 mm**
<b>Mounting</b>	any orientation
<b>Cleanroom classification</b>	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



## 04 Language agnostic using TCP Socket



## 05 Provided API



Visit the product page for more

