

An Industrial Robotic Arm small enough to fit in the palm of your hand.

A Canadian company has developed a small robotic arm for industrial applications using brushless pancake motors, zero-backlash gearheads and encoders from maxon.

Introducing the *Meca500*: An Industrial Robotic Arm that is half the size of a regular industrial robot. Made by Mecademic in Canada and featuring brushless flat motors from maxon, the Arm has six degrees of freedom, weighs five kilos and spans a base around the size of your palm. With a repeatability of 0.005 millimeters, that is, 20 times less thicker than an A4 piece of paper, the Meca500 has a load capacity of 500 grams.

Maxon's brushless pancake motors were selected for this application. The EC45 flat brushless motors are renowned for their compact design, long lifespan, top quality and high torque. In the Meca500, the DC motors are combined with zero-backlash gearheads and high-resolution encoders for precise movements. The controller is integrated into the motor and gearhead combination, saving even more space and simplifying the drive operation.

If you would like application assistance or for more information please contact maxon motor Australia tel. +61 2 9457 7477.

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Image © Mecademic

The Meca500 has six degrees of freedom and weighs only five kilograms. The controller is integrated into the base. ©Mecademic



maxon motor's brushless pancake motors are available in a variety of sizes and are perfectly suited for robotic applications. The Meca500 has six degrees of freedom and weighs only five kilograms. The controller is integrated into the base.

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maxon motor Australia Pty Ltd

Unit 1, 12-14 Beaumont Road

Mt Kuring-Gai NSW 2080

Tel: +61 2 9457 7477

Fax: +61 2 9457 8366

info.au@maxonmotor.com

www.maxonmotor.com.au

Twitter [@maxonmotoraust](https://twitter.com/maxonmotoraust)