Laboatory robots: the maxon motor drive solution.

Across the many and varied robotics applications be they surgical, UAV, humanoid, collaborative or industrial robots, maxon motor offers motor and drive solutions.

One special type of robot found in a laboratory is the Pipetting machine. Used by small molecular biology labs that require flexible liquid handlers through to large scale active-ingredient screening by multinational pharmaceutical companies, the one common trait of these machines is the speed and position-critical dispensing actions. Handling hundreds of samples all at once, some equipped with numerous pipetting heads, the speed of these machines is increasing and the fluid quantities dispensed is becoming smaller and smaller. Essential to this is a highly dynamic and precise drive.

The maxon motor solution

Especially suited to this task offering very low instances of inertia and ironless windings with falter-free movements. The brushed DCX motor. Low noise output. Configurable to a planetary gearhead and encoder - the GPX 12 and ENX 10 EASY Encoder. This combination can be configured online and shipped in 11 days. The motor has a high overload capacity, is small in diameter for space critical machines, has a linear curve for minute control characteristics and a high level of precision up to 1024 counts per turn.
Other maxon motor drive solutions to consider

Brushless DC motors: EC or EC flat

Planetary Gearheads: GPX High Power, GPX, GP High Power or GP

Controllers: EPOS 24/2, EPOS 24/5, EPOS2 Module 36/2.

View the entire max X Drives program.

For more information on highly precise drives for laboratory robotics please contact maxon motor Australia on +61 2 9457 7477.

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The media release is available on the internet at: www.maxonmotor.com.au

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