

Japanese robot sets a record for the world's fastest Rubik's Cube rotation, something the human eye cannot see clearly

The record for rotating a standard 3x3x3 Rubik's Cube by Mitsubishi Electric's robot is only 0.305 seconds, far exceeding the human record of 4.48 seconds, achieved by Yiheng Wang from China.

Mitsubishi Electric has released a video showing the robot solving a standard 3x3x3 Rubik's cube in 0.305 seconds, faster than the human eye can track.

The main man behind this record attempt is expert Tokui at Mitsubishi Electric's Component Manufacturing Technical Center, where he often focuses on engine development. After watching videos of the previous record-holding robot, Tokui believes their motor is better and can break the speed record.

The TOKUI Fast Precision Synchronization Motion Test Robot (TOKUFASTbot) from Mitsubishi Electric's Component Manufacturing Technical Center can perform a 90-degree turn in 0.009 seconds thanks to being equipped with a special rotation mechanism, designed Made from compact, high-power servo motors, along with algorithms developed with exclusive AI technology to help recognize colors. Servo motors, programmable controllers, industrial PCs, touch screens and cameras are all designed to achieve high-speed signal connectivity and multi-device control.

In the first official try, the Rubik's cube got stuck because it could not keep up with the robot's speed. Therefore, the team of experts continued their efforts to keep it from getting stuck and on the second try the robot finished in a time never achieved during training, and set a world record. TOKUFASTbot's time of 0.305 seconds far exceeds the human Rubik's Cube rotation record.

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