Autonomous robots reaching new heights.

Driven by two maxon brushed DC motors is an electronically powered robot that glides vertically up, or horizontally along, a specially created rail.

An engineering firm based in Zurich has developed a brushed DC motor powered robot to climb up transmission towers. With an integrated motor control unit the robot carries out work in half the time and without personal risk as was previously encountered by technicians.

It is powered by two maxon brushed DC motors mounted with planetary gearheads. Selected for their energy-efficiency of more than 90%, their small size, ironless windings and powerful torque allowing for a load of up to 60kgs. The robot is controlled via the maxon ESCON 50/5 servo motor controller, using software downloaded onto a PC, tablet or smartphone. Equipped with a rotating camera, images and videos are sent back to the technician allowing identification of problems in real time. The robot is fitted with sensors for collision protection and low-battery warning signals. This particular autonomous robot can also be used to fight fires in buildings, cable ducts or wind turbines.

For more information please contact maxon motor Australia Ph. +61 2 9457 7477.

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The view inside the robot with maxon drives visible. © 2014 HighStep Systems AG

Two maxon RE40 motors are used in the climbing robot together with planetary gearheads.
The maxon ESCON 50/5 servo controller.

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