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Press Release

Australian first haptic technology in surgical robot with maxon DC motors.

A doctors ability to treat patients without being in the same room let alone thousands of kilometres away, is no new technology. But giving surgeons a sense of touch from afar was an Australian first.

Australia's Deakin University created ground breaking technology in 2016 with their Hero-Surg surgical robot. Giving a surgeon the ability to operate with specific precision and a sense of touch through the use of haptic technology is the ground breaking 'first' that Deakin created.

There are two maxon DC motors and controllers inside the Herosurg, a DC RE25 & EC-max. maxon's Rare Earth (RE) DC motor was selected for its compact and robust operation, fitted with powerful permanent magnets and at the heart of the motor is the ironless rotor. The EC-max DC motor is robust, brushless and performs speeds up to 20,000 rpm. The DC motors were a part of the technology where doctors could feel their way around the tissue they were working on. Primarily used for laparoscopic and keyhole surgery, the equipment meant less aggravation on healthy tissue leading to improved healing time and less time in hospital, lessening the risk of blood loss and infection. The patient's overall healing time is accelerated too.

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The press release is available on the internet at: www.maxongroup.net.au

The Hero-Surg robot from Deakin University

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The Swiss specialist for quality drives

maxon is a developer and manufacturer of brushed and brushless DC motors. as well as gearheads, encoders, controllers, and entire mechatronic systems. maxon drives are used wherever the requirements are particularly high: in NASA's Mars rovers, in surgical power tools, in humanoid robots and in precision industrial applications, for example. To maintain its leadership in this demanding market, the company invests a considerable share of its annual revenue in research and development. Worldwide, maxon has more than 3000 employees at nine production sites and is represented by sales companies in more than 30 countries.