maxon Robotics feature: Part 6

Surgical robots: the maxon motor drive solution.

In the final part of our 6-part Robotics feature, we take a look at the maxon motor and drive solutions for Surgical Robots.

Robots increasingly are supporting surgeons in operating theatres worldwide. Operating laparoscopically in the patient through small incisions, the instruments can be maneuvered with a greater level of precision and flexibility than is capable from a Surgeon’s hand. The advantages being less invasive, less risk of nerve damage or major bleeding and quicker recovery due to smaller cuts. Several dozen maxon DC motors are used to accurately transmit the movements of the surgeon and have the robot execute the surgeon's movements to the nth degree. With no cogging torque these DC motors are ideal for surgical robot applications.

The maxon motor drive solution for Surgical Robots

Brushed DC motors from the maxon DCX series. With very quiet operation, high energy efficiency, back-driveable gearhead, minimal heat build-up, ironless maxon winding (providing smooth running) and linear characteristics – these properties combined give excellent control properties.
Other maxon drive solutions to consider

- DC motors with precious metal brushes: RE 30, 15 W and RE 40, 25 W
- Controllers: EPOS2 Module 36/2.

View the entire maxon motor with precious metal brushes program

For information on this article or any of our Robotics Feature articles please contact maxon motor Australia on +61 2 9457 7477.

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