

World First: robotic system for eye surgeries.

Dutch company Preceyes developed a world first robotic system for retina disorders, using haptic feedback and maxon DC motors.

Detached retina surgery requires precision to an nth degree where the stability of human hands are no match compared to robotic systems. This is why Dutch company, Preceyes, developed a completely new robotic system for eye surgery. Especially designed for the treatment of retina disorders, the robotic device improves precision up to 20 times more than a Surgeons hand, making operations once deemed impossible due to lack of precision now being successfully performed.

Surgeons operate via a joystick while looking through a microscope. The joystick controls a robotic arm, controlled by maxon DC motors, assisting surgery in millimeter increments. A haptic feedback function allows the surgeon to see and feel their actions and the robotic system supports quick retooling. This is an important factor because it reduces operation time bringing a multitude of benefits to the patient.

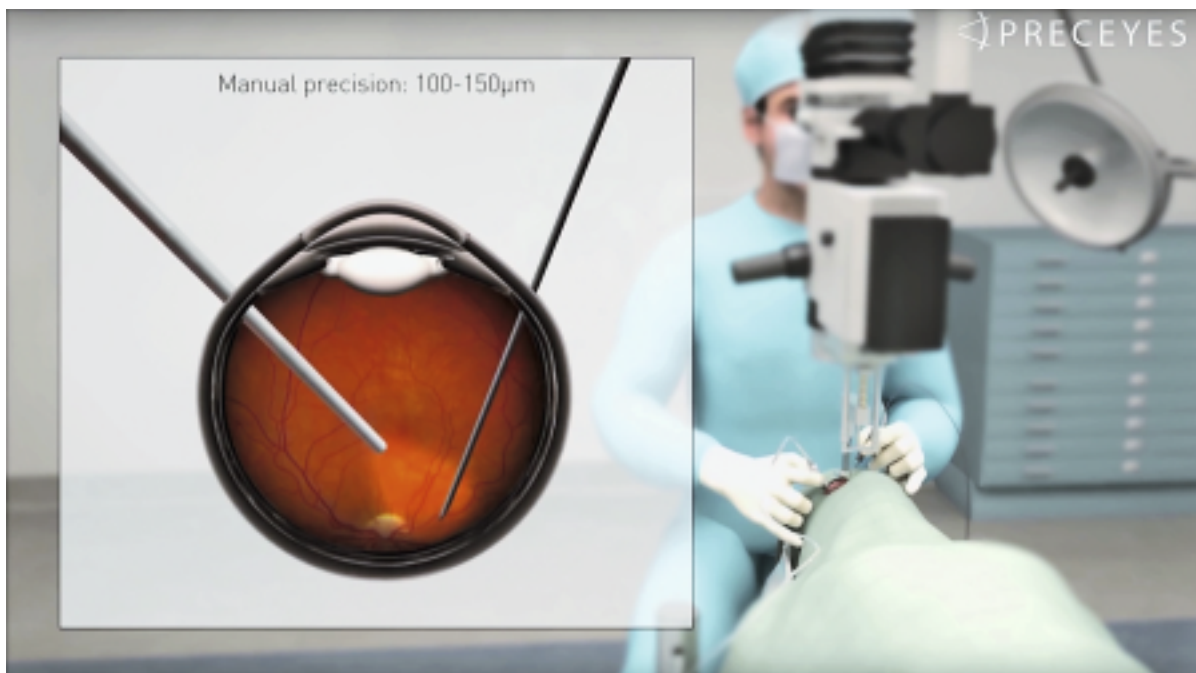
For more information on DC motors and drive systems in robotic medical applications, please contact maxon motor Australia tel. +61 2 9457 7477.

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



Robotic assisted eye surgery © Preceyes



The new robotic system is used in surgery to treat disorders of the retina. Image © Preceyes

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