

maxon DC motors in the ReWalk Exo-skeleton.

An Israeli company, ReWalk Robotics, have developed an Exo-skeleton specifically helping quadriplegic people to walk again.

In 2003, Andre van Rüschen was involved in a car accident that left him a paraplegic. Fast forward to 2012, Andre applied to be a test person for ReWalk's Exo-skeleton in their London training camp. Andre learned to stand, climb steps, run and turnaround – an incredible feat for someone who was told they'd be confined to a wheelchair for life.

The Exo-skeleton has a controller that looks like a wristwatch. It's a mechatronic support and movement system that works via a shifting of weight. The motors perform the movement of the hips and knees and it is here that there are four maxon brushed DC motors and gearheads. The RE40 DC motors with a planetary gearhead are designed for up to five years of service or 1,000,000 steps. Made with ceramic components to extend the service life of the motors they had to be 100% reliable, low maintenance and powerful yet small. The ReWalk is not only giving Andre the ability to walk – he meets people at eye level again and has his independence back.

For more information on maxon DC motors in medical applications please call +61 2 9457 7477.

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



*Andre van Ruschen ©
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*Above: The ReWalk exo-
skeleton.*

*Right: Andre van Ruschen
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