

Exoskeleton joint actuator.

maxon motor have developed the Exoskeleton Drive GEN.1 for use in hip and knee exoskeletons.

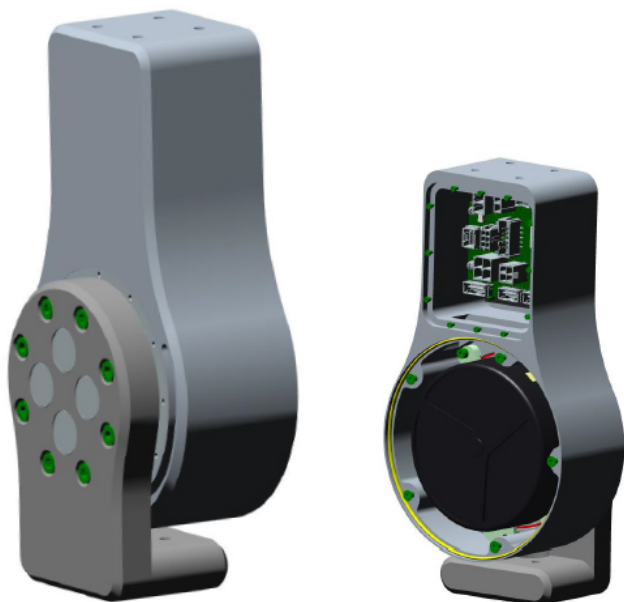
The global Exoskeleton market is growing in both market share and technological developments at a rapid rate each year. Maxon motor have several global customers we have worked with to develop brushless DC motor solutions for use in robotic limbs.

Available from the beginning of October 2017 is a complete joint actuation unit consisting of a pancake brushless DC motor (EC90 flat) with inertia optimised rotor, Internal high resolution 4096 MILE Encoder, planetary gearhead with absolute encoder and EPOS4 position controller with CAN and RS232 interface. Fitting the 17bit SSI absolute encoder directly at the joint rotation to a degree will negate the effect of gear-head backlash giving designers increased positioning accuracy. The unit will deliver 54Nm of continuous torque and 120Nm on a 20% duty cycle. The system can be operated on supplies between 10 and 50V DC and the actuation speed is up to 22rpm. Drawings and pricing are now available contact maxon motor Australia for further information.

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



*Gen.1 Exoskeleton
Drive © maxon motor*

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