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Press Release

DC motor with compact right angle gearbox.

New combination of both right angle and inline gearhead fitted to DC motor with encoder.

When a compact solution is required for right angle transmission a spiroid gear is used instead of a worm gearhead. The spiroid gear offers a smaller profile than the traditional worm and wheel gearbox body. This unit consists of a 35mm brushed DC motor with an ironless rotor design that features zero cogging for smooth motion control. 105mNm of torque can be produced at 6990rpm on a 24V power supply. This is then passed through a 32mm 111:1 ceramic planetary gearhead giving 8.2Nm available which is then fed to a 4.125:1 spiroid gear with 90% efficiency. The gearhead has traditional tapped mounting holes on the front flange and also a convenient new off centreline pivot point for use in lifting actuators or for belt tensioning. The right angle drive has a robust machined construction and can be used with higher reduction ratios and with or without the intermediate planetary gear. There are a wide range of brushed and brushless motors with or without encoders. This unit depicted shows a 500cpt 3 channel optical encoder, however smaller magnetic encoders are also possible. For operation in tight spaces such as downhole oil, gas and pipe inspection robotics.

For more information contact maxon motor Australia tel. +61 2 9457 7477.

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



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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.