Media Release

DC motor for speed and position control.

150W 48V 40mm rare earth DC motor with DC tacho and incremental encoder.

This week we delivered a very interesting DC servomotor that was fitted with a rare combination of feedback devices. The DC tacho used as a traditional feedback device for speed control in this case is designed with the maxon rhombic moving coil system for a linear output voltage of 0.52V per 1000rpm. Precious metal brushes are used for low friction and a clean output signal. The encoder takes a standard 5V supply and has a TTL level 500 counts per turn output. Unique to the design is the encoder optical wheel being mounted directly onto the tacho winding allowing for the encoder and tacho to be assembled in the same housing, two outputs from one device. The motor uses the same coreless and ironless rotor design for the trademark maxon linear characteristics with zero cogging detent, giving efficient operation and ease of positioning. The overall result is a motor and feedback combination that can be independently controlled in both speed and position. The other useful application for this design is when an encoder signal is required for an upper level positioning controller and a separate closed loop is required with a servoamplifier. Despite the complexity and rarity of this combination the components can be delivered cost effectively and on a relatively short lead time.

Contact maxon motor Australia in the Sydney office on +61 2 9457 7477 for detailed assistance and unrivalled support.

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

Maxon motor Australia Pty Ltd
Unit 1, 12-14 Beaumont Road
Mt Kuring-Gai NSW 2080
Tel: +61 2 9457 7477
Fax: +61 2 9457 8366
Info.au@maxonmotor.com
www.maxonmotor.com.au

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