

Zero cogging, Low friction DC motor.

Pictured here is the 40mm diameter 48V DC servo motor fitted with precious metal brushes.

This special combination of DC servo motor with precious metal brushes, custom motor winding, single stage planetary gearhead and custom shaft configuration was an exclusive development for Deakin University who required an extremely linear response and low starting voltage for the demanding haptics field.

First of its kind: In November 2013, this was the only motor of its nature produced anywhere globally. The unique requirement of high torque delivery when used as a motor combined with the need to be a highly sensitive feedback sensor, is only achievable with extremely low friction levels on the brush commutation system and the zero cogging, zero magnetic detent features of an ironless, coreless DC motor. Previously 30mm diameter was the largest motor available with this brush type.

The motor is fitted with a single stage ceramic planetary gearhead with a ratio of 6:1 to deliver the high forces required in the application however the combined efficiency of the motor and gearhead is still over 82% (90% for the gearhead and 92% for the motor).

maxon started serial production of the 40mm motors with precious metal brushes in December 2013.

For more information on maxon DC motors or to find out about custom modifications to DC motors contact maxon motor Australia tel. +61 2 9457 7477.

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*40mm 48V DC gearmotor with
precious metal brushes ©
maxon motor Australia*

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

Twitter [@maxonmotoraust](https://twitter.com/maxonmotoraust)