Media Release

Powerful DC servo motor. Rare Earth 65mm

New brushed DC servo motors in 12V, 24V, 48V, 60V and 70V.

The top performance range of maxon motor’s Rare Earth DC servo motor and gearmotor program is being boosted.

The new Rare Earth 65mm power package DC motor delivers 250 watt output and can cope with the toughest demands. The brushed DC servo motor is particularly suitable for applications where high efficiency, high power density and a minimal operating noise are crucial.

As with all maxon motor’s mechanically commutated drives, the heart of the Rare Earth 65 motor is the ironless rotor. This means that the drive works detent-free (no cogging) and has minimal rotor inertia. High torques and very quick acceleration times are produced in combination with the four-pole structure of the Neodymium permanent magnets.

Depending on the DC servo motor winding variation, the cylindrical drive, at 65 mm diameter and 130 mm length, delivers nominal torque of 0.5 to 0.9 Nm Continuous with stalls to 18.6Nm! - at a nominal speed of 2,400 - 3,700 rpm. The power density is therefore more than double compared to existing drives. The Rare Earth 65 can reach efficiency levels of up to 90%. Combined with low nominal voltages, the DC motor is ideally suited for battery-powered use, such as in electrical vehicles, transport and logistics equipment, mobile robots etc.

Preloaded ball bearings support low-vibration and low-noise operation, offering the best conditions for a long service life in conjunction with graphite brushes. maxon’s established modular system can provide matching planetary drives, encoders and controllers to suit every specific application for the Rare Earth 65mm. Accordingly, the new drive is also suitable for all kinds of applications in automation, engineering or medical technology.

Further information on the new Rare Earth 65mm and maxon’s complete range is available on the Internet at www.maxonmotor.com.au

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Picture: RE 65 DC Servo Motor

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