

The RE 30 EB 15 W maxon DC motor for fine rotary motions.

maxon motor windings and precious metal brushes generate higher torque.

Haptic applications are well known in medical engineering, robotics and aeronautics. For example, an active helicopter sidestick generates forces that provide tactile feedback to the pilot of a conventional system. Such applications require a special drive. maxon's ironless winding and precious metal commutation were designed for these requirements.

The new powerful RE 30 EB motor uses precious metal brushes that ensure low, constant contact resistance over the entire service life, a characteristic that makes control far easier. This motor also features a low start-up voltage, even after a long period in standstill. With a rated torque of 53 mNm, the motor is very powerful despite the precious metal commutation, providing twice the power of an RE 25 EB. In addition, there is minimal high-frequency interference. These are all advantages that are only possible with ironless windings and precious metal brushes.

The development of this motor was initialised by maxon motor customers. As a result, the motor is specifically designed for haptic applications such as surgical robots. The motor can also be used as a highly-sensitive sensor, acting as the sense of touch for registering mechanical resistance.

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