

PRESS INFORMATION

Low-profile motors fit every application

For applications as diverse as medical equipment and robotics, security devices and instrumentation, EMS (Electro Mechanical Systems) is now offering the extensive FTB (Faulhaber Group) range of high-performance, low profile miniature motors. The motors are available in direct drive versions with torque ratings from 0.05mNm to 3mNm, and in geared versions with ratings from 50mNm and 180mNm

All of the new motors feature an ironless rotor with three flat oval copper coils, which rotates in an axially oriented magnetic field, and which has a very small moment of inertia. This design allows high rates of acceleration to be achieved with minimal flutter, and provides complete freedom from cogging. In addition, the linear characteristics of the motor make it easy to provide accurate speed control.

The low-profile construction of the motors, which vary in thickness from 5.2mm to 8.2mm for direct drive types, and from 12mm to 19.1mm for types with gearboxes, makes them an ideal choice for use in modern equipment, where minimum overall size is almost always a prime requirement.

All of the motors in the range are available in versions to suit 3V and 6V supplies, with many models available to suit other voltages from 2V to 24V. Recommend maximum operating speeds for direct drive motors are between 5,500rpm and 10,000 rpm, depending on the motor size.

In addition to FTB motors with integral gearing, EMS also offers compatible spur gearheads for many of the motors in the range. These are available in 20mNm versions with ratios from 19:1 to 4,629:1 and in 50mNm versions with ratios from 23:1 to 1,443:1.

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