



## **The World's Smallest Brushless DC Servomotor with Integrated Motion Controller**

**A new 22mm innovation extends the portfolio of four-pole brushless DC servomotors available in the UK from EMS.**

FAULHABER has extended its BX4 range of four pole Brushless DC Servomotors with the introduction of the series 2232 / 2250...BX4 CSD/CCD, the world's most compact drive with integrated motion controller. This new series combines all the advantages of the BX4 four pole brushless technology with a single axis motion controller. High reliability, high torque, compact slot-less design with no cogging torque, and robust construction without the use of adhesives make this new series ideal for demanding applications like robotics, automation, medical devices and aerospace.

The drives are based on the flexible and easy to use FAULHABER motion control platform. The compact motion controller, which fits within the diameter of the motor, combined with the motor and a full range of gearhead combinations provides a versatile modular platform for a variety of applications.

The drives are available with a RS-232 serial or CAN interface. Configuring the drives is simple using the free FAULHABER Motion Manager 4.4 software. The drives have a wide operational temperature range from -25°C to 85°C and provide a continuous current up to 0,69 A with a peak of up to 3A. The speed can be precisely controlled from down to 5 rpm and up to 8000 rpm. Custom firmware and software are available on request. All of the drives have factory preset current limits to protect the motor and electronics during normal operation, and upon request the drives can be supplied with separate motor and electronics voltage supply connections.

The new series are available in two different motor lengths of 32 mm and 50 mm with a supply voltage of 24VDC. The very flat linear slope of the torque/speed curve and the extremely high torque to volume ratio (18mNm respectively 35mNm) continuous duty torque make these drives unique in combination with a motion controller.

Faulhaber products are distributed exclusively in the UK by miniature drives specialist Electro Mechanical Systems Ltd and for more information go to [www.ems-limited.co.uk](http://www.ems-limited.co.uk) or call 0118 9817391.