

New product development – the fully digital, intelligent AC-servo drive **ServoCube®** - broadens the **F-MMS®-Series of Föhrenbach**

- *High power density in very economic package size*
- *Easy connection and versatile implementation possibilities*

Löffingen-Unadingen, September 15, 2006 – The company Föhrenbach GmbH, one of the leading developers and producers in the automation and handling technology for the precision machinery industry developed with the fully digital AC-servo drive **ServoCube®** for three-phase synchronous motors, linear and DC-motors, an additional product for its **F-MMS®-Series (Föhrenbach Modular-Motion-System)**. The **ServoCube®** had been designed as compact unit for decentralized solutions and as OEM OpenFrame-version. It can operate in torque, velocity or positioning mode with multiple axis synchronization, controlled via field busses.

The fully digital AC-servo drive is programmable via RS232, CAN-Bus, Profibus and EtherCat interfaces. That allows a simple and fast implementation in the existing infrastructure. With the parametrizing program **F-MMS®-SC-ConfigTool** the **ServoCube®** is easy to configure in a short time and without much programming effort. The servo drive can be adapted on the application requirements in regards to nominal current (15 Aeff max.) and peak current (40 Aeff peak for 2 sec.). It supports a number of feedback options such as resolver, analog Hall-Sensors, digital Six-Step-Hall-Sensors and SinCos-Encoder with HIPERFACE. It features a large memory that allows the saving of up to 64 positions in the positioning mode, segmented into four groups with each 16 positions. Herewith an absolute or relative point-to-point positioning is possible. The setpoint setting can be realized via the field bus system or via two analog inputs with ± 10 V.

The **ServoCube®** can be implemented as decentralized or integrated solution. The maximum operating temperature of 0 – 65°C as well as the high power density in relation to the size make the servo drive predestinated for motor mounting. “The **ServoCube®** features as OpenFrame-version a size of only 103 x 69 x 37 mm and with its power of 1500 W (Pmax at 48 VDC) and a clock rate of PWM 10 kHz it can be characterized as an extremely compact servo drive”, says Alexander Bruno, Product Manager at Föhrenbach. „The **ServoCube®**



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features an interesting price/power ratio, especially in case of its integration into compact series machines“, says Alexander Bruno. “With the development of the **ServoCube®** we realized a universal, for all common bus systems applicable and high powerful, very compact, fully digital servo drive that is predestinated for applications in the precision machinery such as NC-machines, Handling or Robotics.”

Further information on the products at booth no. 4-200 in hall 4 during the SPS/IPC/Drives 2006 from November 28 – 30, 2006 in Nuremberg, Germany or at www.foehrenbach.com.

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The Föhrenbach Group is developer and producer of high-precision components, units and systems for linear and rotary movements of the automation technology and precision machinery industry. Products of Föhrenbach are solutions for guided slide, drive, movement, control and positioning requirements. Additionally Föhrenbach offers products to complete the portfolio for customized complete solutions up to special machines. Founded in 1975 the company is today one of the leading suppliers and serves with about 100 employees well-known customers of the general machinery industry but also of specific branches such as laser technology, grinding, measuring- and checking, palletising/packaging machine industry, CNC machines or medical technology. Additional production plants in Switzerland (Weinfeld) and Ireland (Sligo), all state-of-the-art production facilities with a large manufacturing range for highest quality standards, ensure short delivery times and just-in-time service for the international customer base.

