

## **EtherCAT demonstrates product variety and multi-vendor capability at SPS/IPC/DRIVES**

**On the ETG stand at SPS/IPC/DRIVES (Hall 6, Stand 309), which will take place between 22 and 24 November in Nuremberg, 40 manufacturers will present more than 75 different EtherCAT products. The technology already covers almost the whole range of automation applications.**

EtherCAT masters will be presented by 15 different manufacturers. Other products presented at the fair include PC-based controllers, Embedded Controllers, and miniature controllers for top hat rail mounting. 16 manufacturers offer hardware, software and services for implementing EtherCAT master and slave devices.

EtherCAT also features particularly strongly in drive applications, ranging from small servo drives to a 18 kW frequency converters, which will be shown as an example for devices with an output range up to 4.5 MW. 12 manufacturers will present drive controllers, most of them multi-vendor models.

EtherCAT is also set to become a standard feature for sensors: six manufacturers will present shaft encoders and position sensors with this interface. The product range is rounded off with I/O components, valve terminals, digital control valves, gateways, infrastructure components, communication modules and chips from different suppliers.

The wide range of products on offer at the ETG stand demonstrates the versatility of the technology: EtherCAT integrates I/O bus, drive bus and safety bus in a single system. Very simple optional line redundancy without special hardware requirements and hot connect / hot swap functionality underlines the suitability for applications with high availability requirements. Thanks to lateral communication between slaves and between multiple masters, the technology is also very suitable for networking controllers with each other.

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## **EtherCAT tutorial at SPS/IPC/DRIVES**

An EtherCAT tutorial will take place at SPS/IPC/DRIVES on 22 November 2005 between 2 pm and 5 pm: "Understanding, applying and implementing EtherCAT". The tutorial is aimed at users of automation technology and device manufacturers. EtherCAT will be presented in detail. Application and implementation of the technology will be illustrated.

### **Agenda**

- EtherCAT, the Ethernet fieldbus: General introduction to EtherCAT, principle of operation, performance, topology, costs, ETG, standardisation, etc.
- From theory to practice: EtherCAT in action. Typical applications: Why was EtherCAT chosen? Field reports, benefit to the user.
- Slave implementation: tools, costs, procedure. Overview of slave controllers: interfaces, features,  $\mu$ C requirements, evaluation kit, tools, experience with implementation.
- Master implementation, scalable from very simple to complex. Configuration, sample code, real-time requirements, system integration, etc.
- Safety over EtherCAT. Benefits of fieldbus-independent safety protocols. Features of Safety over EtherCAT, parameterisation, application scenarios, initial implementations, etc.

### **Speakers:**

- Robert Bühlmann, Profimatics,
- Raphael Dunker, SEW-Eurodrive
- Michael Jost and Martin Rostan, Beckhoff Automation

Registration via the organiser, Mesago Messe Frankfurt → [www.mesago.de](http://www.mesago.de)