

Beckhoff at K 2007 in Düsseldorf, Germany

PC Control for plastics injection molding, blow molding and extrusion machines



Beckhoff exhibits its automation and industry solutions for the plastics manufacturing industry at K 2007 for the first time. The K show is the largest trade fair in the world for the plastics and rubber industry and takes place in Düsseldorf, Germany, every three years. More than 2,900 exhibitors from 57 countries will be presenting their latest developments for the plastics industry at the top trade fair. The main focus of the exhibition is on mechanical and plant engineering, for which Beckhoff offers a universal and innovative control technology.

Universal system solutions for plastics machines

Beckhoff has been established in the plastics industry as a supplier of automation solutions and control components for many years. Being a pioneer in the area of open PC-based automation technology, Beckhoff has anticipated the current trend towards open control architectures in plastics engineering.

Due to many years of experience and the implementation of different applications in the field of plastics machines, Beckhoff is very familiar with the specific requirements of the industry. Knowledge of the industry is integrated in various software application modules, e.g. for Motion Control, temperature control and sequencing. In addition to standard solutions, Beckhoff also provides support for customized application developments. The customer therefore has access to the broad experience of Beckhoff in the field of electrical and hydraulic control technology and can incorporate his own knowledge without difficulty.

Open automation technology from IPC to drives

The Beckhoff open automation technology consists of a comprehensive portfolio of innovative products. The compact top performance PCs, the wide range of electronic I/O terminals, the high-speed fieldbus EtherCAT, the TwinCAT automation software and the Drive Technology are highly suited for application engineering in plastics applications. The Beckhoff software framework for plastic machinery provides a universal Motion Control solution for fully electronic, hydraulic and hybrid Motion Control concepts. The standard unified control architecture for every drive version minimizes engineering costs and contributes to efficiency.

The Beckhoff safety technology TwinSAFE enables the combination of safety related inputs and integrated drive safety functions according to safety category 3. This technology gives the mechanical engineer flexibility and reduces the costs for engineering and electrical equipment at the same time.

In addition, the global presence of Beckhoff enables it to provide optimal worldwide support and service for its customers' expansion into future markets.

XFC – Highest precision for plastics processing

High process stability and productivity require a maximum system performance, especially for electrically driven machines: Demands for rapid reaction times with deterministic system response and high sampling rates are adequately fulfilled with XFC (eXtreme Fast Control Technology) down to the nano second range. XFC is based on an optimized control and communication architecture comprising an advanced Industrial PC, ultra-fast I/O terminals with extended real-time characteristics, the EtherCAT high-speed Ethernet fieldbus and the TwinCAT automation software.

Customized solutions for the industry

Beckhoff presents its solution for the PC-based control technology at K 2007 in Düsseldorf, Germany: The main focus is on EtherCAT-based automation, XFC and the Beckhoff Drive Technology. In addition, examples of customized Control Panels give an overview of Beckhoff's scaleable PC hardware.

The main information at a glance:

- | K 2007 (plastics and rubber), Düsseldorf, Germany
- | October 24–31, 2007
- | Opening hours: Wednesday–Wednesday, 10 am – 6.30 pm
- | Beckhoff: Hall 11, Booth G21

→ www.k-online.de

