

**For Immediate Release**

**Contact:** Steve Schroeder, Business Development Manager - Plastics

[Steve.Schroeder@invensys.com](mailto:Steve.Schroeder@invensys.com) t: 419.559.6134

**Invensys Eurotherm to Highlight the Entire Family of  
MACO Compact Control Systems and Total Solutions offerings at  
NPE 2012 International Plastics Showcase-Orlando, FL. USA**

**BOOTH #2112**

**Ashburn, Va. (September 21, 2011)** – if you're in plastics molding, extrusion, or thermoforming and looking for processing improvements with affordable add on systems to total machine control solutions, then stop by the Invensys Eurotherm booth 2112 at NPE. Here we will feature our revolutionary **MACO Compact Control** family of new and updated products at the upcoming show in April.

Backed by Eurotherm's expert engineering support and solutions services, the many systems that make up the MACO Compact Family are derived from a platform of a tightly integrated, application specific programmable logic controller that features built-in diagnostics, process monitoring, advance processing, and unsurpassed temperature control. All of these features combine to ensure production quality is high and budgets to install the systems are kept low. The MACO Compact System upgrade delivers more precise processing features that can provide better control during the molding process, thus improving part quality, saving energy and reducing waste, and all at a low price that includes installation and startup.

For over 45 years Eurotherm has built an international reputation for developing premium quality, "fit for purpose" products and plastics solutions. Eurotherm brands (Eurotherm, Action Instruments, Chessell, Continental and ERO Electronic) have long been recognized for leading innovation in the plastics processing, automation and machine controls market. Each of the solutions we provide are drawn from a comprehensive family of configurable process control, data management, and scalable products and systems.

**MACO Compact Control Systems for Injection Molding: Reliable and cost-competitive**

The expandable **MACO Compact Control System for injection molding** machines features Eurotherm's IMPACT™ II closed loop process control. For improved optimization in closed loop systems, IMPACT II creates a theoretical model of the injection molding process after only a few cycles and uses that model along with hundreds of rules to compensate for any deviations.

Operator interfaces are available in a sleek, flexible design with a full range of cost-effective HMI's. Features include, high speed display updates, Ethernet communications, recipe storage ability,

online and web browsable RLD diagnostics, closed loop control updates at less than 0.1 ms, statistical process control, and large color touch screens.

Eurotherm will also display its **MACO Compact System for the ever popular Van Dorn HT Machine line** in which the original control systems are no longer supported by the OEM in the field. This is the totally integrated, expandable control solution for HT owners who want a cost-competitive, reliable solution for maximizing machine potential.

### **BLOW MOLDING and EXTRUSION**

Based on the Compact system platform and featuring operator interfaces that utilize Microsoft® CE.net, are two reliable MACO controls – the **Breeze IIc** for blow molding parison control system and the **EM-3c** temperature and pressure control system for extruders.

Add the **MACO Breeze IIc** for blow molders to your existing machine and you have the latest in parison-only control from Eurotherm. A Compact parison board and Compact touch screen display are housed in an optimally sized chassis, eliminating the bulk and costs associated with a separate controller enclosure. Like earlier versions, it is factory programmed based on user specifications for any machine make or model. With a 100 point parison profile and 100 point velocity pushout control, parison tooling position is updated every 0.1 ms to minimize material usage and improve part quality.

The **EM-3c** is specifically designed for small extruders but is packed with the features of the popular EM-3 and EM-3c PC based Extrusion Control System. Its standard package can be used just for extruder temperature and pressure control or expanded for complete line control. Manufactures can save on installation costs and valuable engineering time and expense due to the EM-3c's preconfigured screens package and standard control system definitions.

### **iPact with Intellimold™ revolutionizes injection molding**

Also compatible with the MACO Compact Control System, Eurotherm's **iPact** utilizes Intellimold™, a patented cutting-edge process that brings real-time automated closed-loop control to the molding process by actively monitoring and adjusting controls for a steady, even injection. iPact with Intellimold is supported by most original equipment currently used by manufactures and is adaptable to any molding system as an option item or as an after-market retrofit.

Its unique process control method provides measurements and control of pressure in the cavity in real time. The pressure developments are scanned from two strategically placed pressure transducers from which a single process variable is mathematically derived as a feedback for closedloop control of injection. This method combined with process control ensures that each section of an injection-molded part solidifies in an equal, pressure-balanced and stress-free environment. Intellimold is also capable of measuring and controlling based on temperature developments.

Injection molders will benefit from improved repeatability, reduced waste, and cycle times. Intellimold is also a standard option on all MACO Compact Systems for injection molding machines.

### **The “Eurotherm Difference”: Solutions design capability**

The MACO Compact system, along with all of Eurotherm’s products and solutions, is backed by industry expertise and ongoing support that is unparalleled by competitors. Eurotherm engineers have an in-depth understanding of industrial applications across multiple markets making the company uniquely qualified to recognize specific challenges and offer tailored solutions to meet any processing need.

Eurotherm engineering services provides a complete project management capability from start to finish. This includes an investigation and full analysis of unique company challenges, design and proposal, full implementation and installation, and lifetime support and training for continued solution enhancement.

### **Single loop Temperature & Process Controllers and Multi loop Temperature & Process Controllers**

With the Eurotherm full line of temperature and process controllers, plastics processors throughout the world can choose from a wide range of products to best fit their requirements. Cost effective and featuring advanced functionality (math, logic, timing, set point programming etc), Eurotherms’ comprehensive range of controllers enable you to choose from a vast range of products designed by a company with over 40 years of control expertise. The best in accurate process measurement distinguishes real values from signal noise. Combine this with advanced PID algorithms to get optimum closed loop response providing you with the features you need to keep control of the most difficult of processes.

Stop by our Booth 2112 and our experts will provide you with assistance in choosing the right size and type of temperature and process controllers for your application.

**For more information about Invensys Eurotherm’s plastics solutions and a complete product listing, visit:** <http://www.eurotherm.com/industries/plastics/>