

intelligent Quality: more productivity. more energy efficiency.

## Welcome to the ENGEL Road Show!

**Q becomes iQ. Quality becomes intelligent quality.** Thanks to clever injection moulding solutions that adapt ideally to your demanding production requirements, in addition to making highly efficient use of energy. And thanks to intelligently designed software solutions that enable you to quickly recognise and respond to any deviations from ideal conditions. But most of all through you and your highly trained staff.

The optimum interaction of all these factors puts you in perfect control of your processes. **The result: assured product quality, increased productivity and the highest energy efficiency standard – which also makes pays dividends.**



Join us on the road from Q to iQ. We will be happy to hit the road to visit you. As part of our **iQ.tour 2010**, we will be visiting **Warwick on 26 May**. Be there and gather new inspiration for enhancing – intelligently – the quality and thus the competitiveness of your injection moulding production line.

**We are looking forward to greeting you in Warwick!**

*Your ENGEL UK-Team*

**26 May, Warwick**

**ENGEL**  
be the first.

## Programme

### 09.00 | Welcome / Registration

#### 09.30 | Efficient use of energy *ENGEL Austria GmbH*

1

Modern machine designs and optimised process control. Make the right decision today – profit in the long run.

- > Hydraulic vs. electric: evaluating machine designs
- > Reducing heating energy: methods and options
- > Euromap 60: a comparison for your assurance!
- > Information at your fingertips: the ENGEL ecograph provides an overview of energy consumption

#### 10.15 | In control of the process *ENGEL Austria GmbH*

2

Factors affecting and methods for assuring process quality

- > Reproducibility: a question of settings as well?
- > Disturbance: identifying, compensating for and avoiding it
- > A major, often neglected influence: mould temperature control
- > ENGEL e-factory.Observer: the watchman over your process quality

### 11.00 - 13.30 | Lunch and presentations of exhibitis

#### 13.30 | An impressive quality *Kistler Instrumente AG*

3

Integration of quality assurance in the injection moulding process – zero-error production on the basis of cavity pressure

- > Basics on quality and cavity pressure
- > Methods for zero-error production
- > Examples from various industries
- > Enhanced quality through automatic balancing of hot-runner moulds

#### 14.15 | Operation quality management *T.I.G. - Technische Informationssysteme GmbH*

4

Spotlight on the medical and automotive industries

- > Basic factors influencing product quality: Man-power, Means, Method, Matter, Milieu (5M)
- > Resulting requirements for recording data during production
- > **Example 1: requirements and solution implemented for an automotive supplier** – traceability of batches and individual parts, SPC monitoring, 100% in-line process control, reducing and ensuring testing etc.
- > **Example 2: requirements and solution implemented for a pharmaceutical manufacturer** – CFR Part 11 – documentation, recording requirement, process monitoring, managing the wealth of documentation etc.

### from 15.00 | Presentations of exhibitis

## The Exhibits on the iQ.tour 2010:

### ENGEL e-motion 100 T

The fully electric high-performance machine.

- > Highest energy efficiency through the consistent use of a servo-electric drive technology
- > Quality monitoring and hot-runner balancing on the basis of cavity pressure
- > Innovative solutions for mould temperature control: monitored media distribution systems
- > Process stability monitoring with ENGEL e-factory.Observer
- > Quality assurance through Manufacturing Execution System (MES): ENGEL e-factory and T.I.G. Manufacturing Manager
- > Testing station for quality control by sampling
- > Monitoring of ambient conditions



### ENGEL e-victory 120

Hybrid. The new generation. Including tie-bar-less benefits.

- > Highly energy-efficient, high-precision and quiet thanks to a servo-electric injection unit in combination with a servo-hydraulic clamping unit
- > No tie-bars – lots of space
- > Including ENGEL's energy-saving, servo-hydraulic ecodrive
- > "In-line" quality monitoring with image processing system
- > Innovative solutions for mould temperature control: monitored media distribution systems
- > Process stability monitoring with ENGEL e-factory.Observer
- > Quality assurance through Manufacturing Execution System (MES): ENGEL e-factory and T.I.G. Manufacturing Manager

## Registration

Fax-Nr.: 01926 336677

### Yes! I would be happy to participate in the event!

- Please register \_\_\_\_\_ person(s).
- Unfortunately, I do not have time to attend the event.  
Please send me information.

First name: \_\_\_\_\_

Last name: \_\_\_\_\_

Company: \_\_\_\_\_

Position: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_



Date: \_\_\_\_\_

Signature \_\_\_\_\_

Please use this registration form, which you can return to us by mail, fax or email.

### Be our guest!

Participation in the entire programme at the event is free of charge. Participants only need to cover the cost of travel and any accommodation required.