



20 Years ENGEL Italia

ENGEL at Plast Milano 2009

Schwertberg/Austria – January 2009. Innovative and economical injection moulding system solutions have made ENGEL the global market leader in this sector. Combined with specific industry know-how, this guarantees 100 percent customer orientation - around the globe. ENGEL is once again set to demonstrate its competence at Plast Milano 2009, 24 to 28 March, in Milan. ENGEL will be showing five exhibits from its Automotive, Packaging, Teletronics, Medical and Technical Moulding divisions to cover all relevant industries.

Of course, it is well-known that Engel has many years of experience in the system solutions field. The motto "Everything from one source – everything from ENGEL" has long been the philosophy of the company – and this is clearly targeted to serve the needs of every single customer. 20 years have now passed since ENGEL launched its facility in Italy. Some 20 staff in Vimercate/Milan and dealers throughout the country cater to the needs of our Italian customers. At the 2009 Plast Milano ENGEL will be presenting energy-optimised solutions for all relevant branches.

The Exhibits

The most important innovation from a machine-technology point of view is the newly developed ENGEL duo 500 pico. The ENGEL duo 500 pico brings the tried-and-trusted strengths of the large scale machines to the 500 ton clamping force class. The machine's minimal footprint and low weight, thanks to a compact dual-platen clamping system, mean maximum energy efficiency, and record-breaking dry cycle time of just 2.6 seconds. The duo 500 pico is thus the fastest dual platen machine on the market -



despite its comparatively low energy requirements. At Plast Milano ENGEL will be showing an automotive application on a **duo 3550/500 pico**.

Fully-electric, compact and extremely economical, but still equipped with the critical options that help customers optimise injection moulding. This is the new ENGEL e-max. Exhibited for the first time at K 2007, the machine offers both a comparatively small footprint due to its highly integrated drive and control technology, and maximum precision and process reliability. On top of this, the ENGEL e-max comes with a central power supply for the servodrives including recovery of braking energy. The benefit here too is maximum energy efficiency. An **ENGEL e-max 310/100** with a clamping force of 100 tons will be on show, demonstrating the production of an electronic component using a mould by FCI Austria (Mattighofen).

An **ENGEL e-motion 740/180** with a clamping force of 180 tons will demonstrate that fully electric machines are perfectly suited for deployment in injection moulding for the packaging industry. High-precision parallel movements in particular – thanks to independently actuating electrical motors – mean that the machine is perfectly suited to fast high speed applications. The machine will be producing a round cup with in-mould labelling on a 2-fold mould by Hofstetter.

Manufacturing of COC vaccine receptacles using a mould by Köbelin/Eichstetten (D) with a 4-fold mould on an **ENGEL e-motion 200/55** demonstrates a further field of application for the fully electric machine. The machine is designed for sterile production in a clean room for deployment in medical technology. Optimised for clean room applications, the machine has an encapsulated barrel that helps optimise particulate and heat emissions, along with encapsulated injection unit drives and clean room capable, corrosion resistant mould mounting platens with clean room plating.



As an example of the kind of technological versatility offered in technical moulding, ENGEL will be demonstrating the production of a fitting produced using two-component technology on an ENGEL combimelt machine.. While injecting the polypropylene fitting with TPE seals on an **ENGEL victory 500H/80W/120 combi**, the part is labelled directly in the mould during the same step.

Additionally, an **ENGEL e-victory 80/50 LIM** will be demonstrating the production of an LSR membrane for a respirator at the WACKER stand.

ENGEL at Plast Milano 2009:
Hall 24 Stand A19/B20

Hall16 Stand 18 (WACKER)

Pictures:



Fig. 1: The new ENGEL duo pico



Fig. 2: COC vaccine receptacles



Fig. 3: ENGEL e-motion 740/180



ENGEL AUSTRIA GmbH

The ENGEL brand denotes the world's biggest manufacturer of injection moulding machines and, at the same time, one of the world's leading plastics processing machine manufacturers. Today, the ENGEL Group offers a full range of technology modules for plastics processing as a single source supplier: Injection moulding machines for thermoplastics and elastomers, and automation, with the assurance that individual components are also competitive and successful in the world markets. With eight production plants in Europe, North America and Asia (China, Korea), subsidiaries and representatives in over 85 countries, ENGEL offers its customers the optimal global support they need to compete and succeed with new technologies and leading-edge production systems.

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