



Press release



The World's Biggest Injection Moulding Machine by ENGEL

Schwertberg/Austria – April 2008. Plastics processors GRAF from Teningen recently commissioned a two platen ENGEL machine with a clamping force of 55,000 kN and three injection units for the production of underground tanks and logistics containers. ENGEL has broken all previous records with this development. The duo 5500 not only supports shot weights of up to 140 kg with its three injection units, but is also very economical with its extremely low energy consumption.

About 3 years ago, ENGEL was asked to take on a very special task; the development of an injection moulding machine for shot weights of up to 150 kg. The results are impressive: an ENGEL duo 5500 with a clamping force of 55,000 kN combined with three parallel action injection units with a screw diameter of 260 mm each deployed in the production of the 6,500 litre Carat underground tank by GRAF. The 25 metre injection moulding machine has a total weight of 585 tons. Add to this the mould weight of up to 160 tons. Due to its size the machine had to be sunk 2 metres into the ground. These parameters make the machine the world's biggest injection moulding machine of its kind. And with a specific energy consumption of just 0.34 kWh/kg under production conditions, the machine achieves record breaking savings. All told, an extraordinary project that once again demonstrates ENGEL's competency in system solutions.



High-tech in perfection: The 25 metre injection moulding machine has a total weight of 585 tons. Add to this the mould weight of up to 160 tons. It was sunk 2 metres into the ground due to its size.

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 its customers a single source for a full range of plastics processing technology modules for: 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 in 26 countries, and representatives in over 70 countries, ENGEL offers its customers the optimal global support they need to compete and succeed with new technologies and leading-edge production systems.

Otto Graf GmbH

Otto Graf GmbH has sold premium quality plastics products for over 45 years. As early as 1974, GRAF started to sell products for rainwater use – today, most of the company's turnover is generated with rainwater management products. Underground tanks support the use of rainwater. Water collected in the tanks can be used for WCs, washing machines and to water the garden. A household can save up to 50 % of its drinking water requirement. For the first time, Graf is now offering a patented "Export" version of the next generation underground tank which can be stored as a half-shell on pallets. The tanks are assembled on site. The product greatly increases the distribution radius of GRAF's product range. Demand for Graf products from abroad has grown rapidly in particular. Graf is already planning further projects to secure logistics benefits for new products. The company is looking to extend its market leadership to the global market. www.graf.info



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