

ENGEL extends machine portfolio for packaging

Fast and compact with high clamping forces

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The new duo speed injection moulding machine sees ENGEL combine productivity and efficiency with short cycle times in the high clamping force range. Available with clamping forces from 5,000 to 11,000 kN, the new large-scale machine type is aimed at manufacturers of buckets and storage and transport containers.

The new injection moulding machine is based on the ENGEL duo platform, which has been tried and tested on global markets for more than 25 years, and has been specifically adapted to the requirements of packaging applications on both the clamping and injection unit sides. "Above all for buckets and logistics products, the duo speed extends the portfolio into the higher clamping force range", says Christoph Lhota, Vice President of ENGEL's Packaging business unit. "The development focus was on short cycle times." With dry cycle times between 2.35 and 3.4 seconds, the duo speed is the fastest dual-platen injection moulding machine on the market.

ENGEL's compact dual-platen technology further contributes to excellent cost effectiveness. Across all clamping force sizes, the duo speed is shorter than comparable injection moulding machines used in this field of application, which saves expensive shop floor space. In addition, the platen geometry has been optimized for the special requirements of the packaging industry.

Particularly clean and energy-efficient

Thanks to exposed tie-bars, injection moulding machines from the ENGEL duo series have a very clean mould area and achieve high energy efficiency. The duo speed relies on ENGEL's energy-saving ecodrive servo-hydraulics with operating point optimisation and is equipped with an electric motor-driven screw drive. Optimised accumulators are used for particularly

fast injection. They support demand-driven charging of the accumulators to further improve energy efficiency.

The duo speed already features a barrier screw and sliding ring non-return valve optimised for PP and HDPE as standard equipment.

Leveraging the full potential

This extension of ENGEL's portfolio, puts ENGEL in a position to optimally leverage all efficiency and quality potentials, from thin-walled packaging and caps and closures to thick-walled large containers, with a perfectly matched solution in each case. In addition to the duo speed, the e-cap and e-speed injection moulding machine series were specifically developed for applications in the packaging industry.



The new duo speed, tailored to packaging and logistics applications, is based on more than 25 years of experience with large dual-platen machines. More than 10,000 duo injection moulding machines are in use worldwide.

Picture: ENGEL

ENGEL AUSTRIA GmbH

ENGEL is one of the global leaders in the manufacture of plastics processing machines. 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 together with automation, with individual components also being competitive and successful in the market. With nine production plants in Europe, North America and Asia (China and Korea), and subsidiaries and representatives in more than 85 countries, ENGEL offers its customers the excellent global support they need to compete and succeed with new technologies and leading-edge production systems.

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