

ENGEL realigns large machine portfolio with new duo tech injection moulding machine at K 2022

More space for the mould on the same footprint

Schwertberg/Austria – October 2022

At the K show 2022, the dual platen large machines from the ENGEL duo product family are exhibiting even more flexibility and efficiency. The new duo tech can accommodate larger moulds on the same footprint and achieves greater productivity thanks to a shorter dry cycle time and improved power.

"We offer the optimum injection moulding machine as the perfect fit for any application," as Dr. Gerhard Dimmler, CTO of the ENGEL Group, emphasises at the start of the world's largest plastics trade fair in Düsseldorf. "And we help our customers to produce in a very cost effective, energy-efficient and sustainable way by doing so. This further development of the dual-platen large machines sees us consistently follow the successful path of application-optimised ENGEL solutions."

The new duo tech series includes 35 sizes with a clamp force range between 3500 and 55000 kN. This means that the ENGEL large machine portfolio has been extended with two new sizes. Compared to the previous duo series, the clamp force sizes have been redistributed and supplemented by further WP (wide platen) versions.

Even in the standard version, the mould installation space of the new duo tech offers more space. This means that larger moulds can be mounted. Users benefit from comparatively low capital outlay and reduced energy consumption. The extra space is made possible by the newly-developed clamping unit alone. The footprint of the duo tech machines is as compact as ever, compared with existing duo models. Thanks to the dual-platen design, the ENGEL large machines have always been particularly short, ensuring high productivity per unit of area. An additional duo machine will often fit on the production floor.

More productivity thanks to improved ergonomics and performance

Even the standard version of the duo tech accommodates all media supply connections on a media panel arranged close to the mould where they are easily accessible. This accelerates mould set-up and boosts productivity.

On the injection side, too, the new duo tech offers even better performance features. Both the injection and the plasticising capacity have been boosted by up to 25 percent. This means that longer flow paths can be achieved with relatively small duo tech models.

Another benefit: what were already the fastest dual-platen injection moulding machines on the market are now even faster. Depending on the size, the dry cycle time can be reduced by another one to four tenths of a second. This reduces the specific, electrical energy consumption and, as a consequence, the production costs.

A large machine that is a perfect fit for any application

The visitors to the K show 2022 can experience the new performance class of the ENGEL large machine for themselves live on site in Düsseldorf. A duo 1000 tech injection moulding machine at the ENGEL stand with a clamp force of 10,000 kN is producing sophisticated automotive components using the foammelt injection moulding process.

All told, the large machine portfolio of the ENGEL Group includes six series:

- the new duo tech with its wide range of options for flexible production of large plastic components,
- duo combi injection moulding machines for multi-component injection moulding,
- duo speed machines for high-speed packaging applications,
- e-duo machines with electric injection units for high precision requirements,
- vertical v-duo models, specifically developed for use in the composites industry, and
- t-win large machines by the second ENGEL brand, WINTEC, for classical single-component injection moulding, which are now available all over the world.

ENGEL at K 2022: hall 15, stand C58



Greater flexibility and performance on a small footprint: the new ENGEL duo tech injection moulding machine makes the production of large plastic components even more cost effective.

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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