

More space, more efficiency, more precision:

World premiere of the tie-bar-less ENGEL victory electric at K 2025

Schwertberg - Austria, October 2025

With the new victory electric, ENGEL is launching a world-first at K 2025: a tie-bar-less electric injection moulding machine that sets new standards in precision, energy efficiency and flexibility. The completely redesigned clamping unit combines the proven advantages of tie-bar-less technology with the dynamics of electric drive systems – enabling higher productivity within the same footprint.

Tie-bar-less means: more space in the mould area, faster mould changes and easier automation. ENGEL has already installed more than 85,000 machines of this design worldwide – a clear proof of the concept's success. The victory electric now combines these well-established benefits with those of an electric machine design in the clamping force range above 1,300 kN. This closes a gap in the market where many processors are actively seeking such solutions.



More mould space, smaller footprint: The new electric ENGEL victory electric 220 with 2200 kN clamping force enables compact production thanks to its tie-bar-less design and reduced machine length.

The new ENGEL victory electric impresses not only with technical precision but also with clear economic advantages. Its compact design reduces the overall machine length by around 200 mm,

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allowing for optimised production layouts. At the same time, the tie-bar-less design enables the use of significantly larger moulds compared to conventional machines of the same clamping force class – without additional investment. For example, a mould that would typically require around 3200 kN can be operated on a victory electric 220 with just 2200 kN clamping force.

At the heart of the machine is a newly developed clamping unit with two vertically arranged pressure bars. These replace the traditional toggle mechanism for building up clamping force and ensure exceptionally uniform force distribution across the entire mould mounting platen. An integrated deformation compensation system keeps the platen parallelism stable and precise – even with complex or large-area mould geometries. The newly designed moving platen performs key functions such as centring and force transmission, contributing significantly to the machine's compact design.



High energy efficiency, uniform force distribution and maximum repeatability: *The new clamping system with pressure pad and ball screw ensures precise mould centring and shorter cycle times.*

All main movements are powered electrically via a servo motor with ball screw – a drive system that has proven its reliability in ENGEL machines for many years. A particularly efficient feature is the integrated recovery of braking energy, which not only reduces overall energy consumption but also improves the carbon footprint of the production process.

The standard integration of a hydraulic unit adds extra flexibility by enabling the use of hydraulic core pulls. Components such as the ejector and position transducers are taken from the proven ENGEL duo series, ensuring maximum stability and process reliability.

The victory electric expands ENGEL's tie-bar-less machine portfolio with a powerful electric variant. In addition to the servo-hydraulic victory and the hybrid e-victory, an electric solution is now also available in the medium clamping force range – ideal for processors looking to combine energy efficiency, precision and maximum mould space. This makes the machine perfectly suited not only for standard injection moulding applications, but also for high-performance requirements.

With the new victory electric, ENGEL provides a consistent answer to the growing demands for space efficiency, energy savings and process stability – compact, electric and tie-bar-less.

[Visit us at K 2025 in Düsseldorf, Hall 15, Stand B42 & C58](#)

Images: ENGEL

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ENGEL is one of the global leaders in the manufacture of injection moulding 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 twelve production plants in Europe, North America, Mexico and Asia (China, Korea and India), 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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