

## ENGEL wins four gold awards: SPE honours technological depth and solution expertise

*Bonn, Germany – October 2025*

Just ahead of K 2025, ENGEL received four gold awards at the prestigious SPE Automotive Awards. The winning components clearly demonstrate ENGEL's technological depth and solution expertise. From sustainable lightweight designs and highly integrated functional parts to innovative process technologies, the awarded projects show how ENGEL – in close collaboration with its customers – is shaping the future of plastics processing, always with a strong focus on delivering real customer value.



*The team of project partners involved with ENGEL in the "Grand Innovation Award" accepts the award in Bonn. © SPE Central Europe.V.*

*ALT-Tag: Image shows group of award winners on stage in front of a picture of the Grand Innovation Award*

The four gold awards in the categories "Electronical / Optical Part," "Body Interior," "Enabler

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ENGEL AUSTRIA GmbH | A-4311 Schwertberg | tel: +43 (0)50 620 0 | fax: +43 (0)50 620 3009  
sales@engel.at | www.engelglobal.com

Technology” and the prestigious “Grand Innovation Award” recognise the outstanding development work of ENGEL and its partners. All four award-winning projects demonstrate how intelligent interaction between material, process and machine technology can lead to solutions that set new technological benchmarks while also delivering impressive results in terms of sustainability and cost efficiency.

### Gold in „electronical / optical part”: Functional integration at its best



**Function meets design:** This decorative and functional part for the BMW X3 combines matte chrome film with a PUR surface – a showcase for highly automated 3K processes. © Yanfeng

*ALT-Tag: Image shows colour-backlit component in the centre console of a BMW X3*

A lighting and functional decorative part for the BMW X3, manufactured by Yanfeng, received the gold award. The component is produced in a fully automated 3K injection moulding process with in-mould labelling. It features a translucent matte chrome film with a 3D depth effect and a self-healing PUR surface. The emission-free, paint-free and plating-free process is ideally suited for production sites with strict environmental regulations. The key challenge lies in the reliable integration of multiple materials and the sensitive decorative film into a highly automated series production process.

**Gold in „body interior“: Lightweight construction and design in perfect harmony**



**Sustainable lightweight interior:** The foamed TPE-O airbag cover delivers 45% lower CO<sub>2</sub> emissions while maintaining an excellent surface finish. © Forvia

*ALT-Tag: Image shows dark grey cover of an airbag*

The award went to a foamed airbag cover used by various OEMs. This application combines outstanding surface quality with a 45% reduction in CO<sub>2</sub> emissions – a significant step forward in sustainable automotive manufacturing. The part is made from a fully recyclable TPE-O monomaterial that actively supports the circular economy. The main challenge lies in achieving a flawless surface despite the foaming process – a task that is reliably mastered thanks to precise process control on the ENGEL system.

## Gold in „enabler technology”: Paving the way for e-mobility



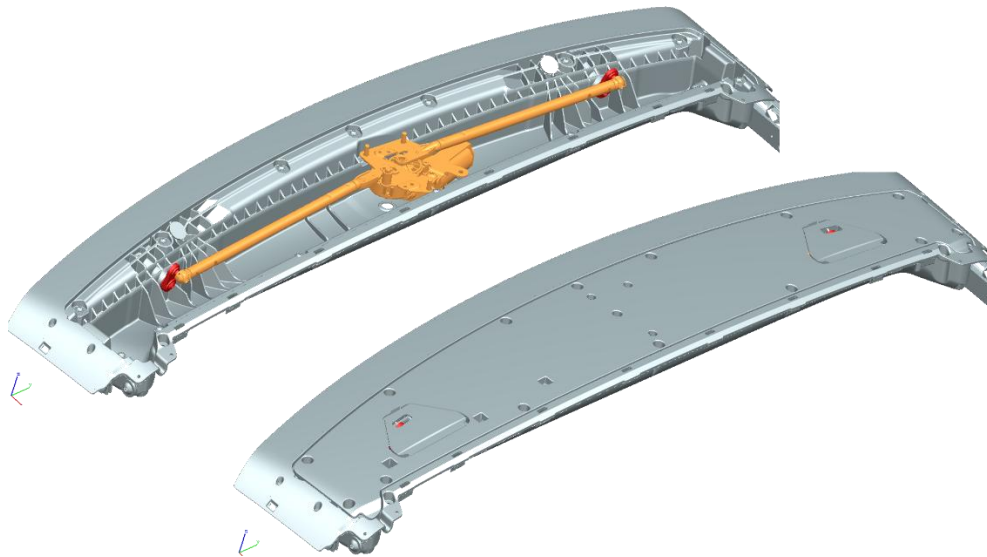
**Enabling e-mobility:** The thermoplastic battery housing for high-voltage applications reduces lifecycle CO<sub>2</sub> emissions by 43%. © Sabic

*ALT-Tag: Image shows car battery with cut-away battery cover*

A next-generation thermoplastic battery housing system, specially developed for use in high-voltage applications, received the gold award in the coveted “Enabler Technology” category. This innovation delivers a 43% CO<sub>2</sub> reduction over its entire lifecycle while meeting the highest standards for safety and mechanical strength. With this project, ENGEL showcases its system expertise in sustainable mobility solutions – helping to pave the way for lighter, more efficient electric vehicles.



**„Grand Innovation Award": Top honours for a sustainable convertible top cover**



**Award-winning lightweight solution:** The thermoplastic convertible top cover made with the organomelt process is fully recyclable, and 15% lighter than the metal version. © Mercedes-Benz

*ALT-Tag: Image shows technical rendering of a convertible roof cap*

The evening's highest award went to a thermoplastic convertible top cover produced using the ENGEL organomelt process for the Mercedes-Benz CLE Cabriolet. This process combines heating and forming of organic sheets with subsequent injection moulding in a single production cell – resulting in a fully recyclable lightweight solution that is 15% lighter and has a lower overall height than the previous metal version. The technically demanding combination of two processes highlights ENGEL's system expertise, enabling customers to produce highly innovative and sustainable lightweight components in series production.

The four gold awards at the 2025 SPE Automotive Awards underscore ENGEL's position as a technology leader. They demonstrate how deep process expertise and integrated system solutions enable future-oriented series production applications. For customers, this translates into real added value: resource-efficient manufacturing, greater energy efficiency and the cost-effective production of highly innovative components. ENGEL is therefore more than just a machine manufacturer – ENGEL is a true partner for long-term success in plastics processing.

**ENGEL AUSTRIA GmbH**

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.

**Contact for journalists:**

Tobias Neumann, Press Officer, ENGEL AUSTRIA GmbH  
Ludwig-Engel-Strasse 1, A-4311 Schwertberg, Austria  
Tel.: +43 (0)50 6207 3807 email: [tobias.neumann@engel.at](mailto:tobias.neumann@engel.at)

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