

10 reasons. For relying on ENGEL now.





ENGEL. The stable family business. Your reliable partner for the future.

ENGEL is a family business. Stable, reliable and financially rock solid. Including, and above all, in difficult economic times such as these. Highly diligent handling of financial means has always been an entrepreneurial virtue; in the past positive results have mainly been reinvested directly in the company. This makes ENGEL independent from private equity companies and other investors, who are often interested in achieving only short-term objectives. And it guarantees the company's freedom to take decisions in the future.

This gives you the assurance of long-term stability with ENGEL, your choice of partner. And of investing in future-orientated technology with ENGEL machines that assure your competitive advantage now and in the future. **ENGEL.** A decision with a future.



Herbert Blum, CEO Julius Blum GmbH. Austria



"We demand reliability and top quality from both our suppliers and our products. We appreciate stable partnerships that accompany us on our constant drive towards innovation. ENGEL has accompanied us on this journey for more than 20 years. As a reliable partner."

Lajos Kasza CEO Jász-Plasztik Kft, Hungary



"Long-term and stable business relationships with our partners are important to us. We appreciate the continuity of ENGEL's business policy because for us it means a calculable response and stable communications."

Continuity in customer communications

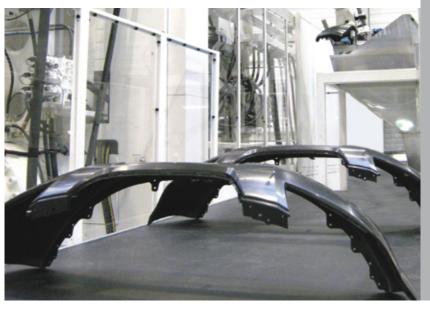




The ENGEL directors together represent several decades commitment to ENGEL.

Besides substantial experience, this kind of management stability is a sign of continuity in entrepreneurial activity. And one of trust in a long-term customer relationship.

MOBIS



"It's good to know that we have a partner who speaks our language' all over the world - both in Korea and in Europe. As an innovative globa player, ENGEL knows exactly how to meet our strict requirements with respect to speed of delivery, reliability and quality."

Suk-Yun Nam, General Manager Purchasing (General Purchasing Equipment). Mobis Korea



We follow your lead. Worldwide, if you like.

You are an international corporation that manufactures successful products at several locations worldwide? If so, you can benefit from ENGEL's global production strategy. Our eight factories on three continents help us to achieve best lead times and to adapt our products to reflect your requirements in a targeted and market-aware way.

We are committed to our international customers who can redeploy ENGEL machines at facilities worldwide in a trouble-free way.

Local competence. Worldwide. Thanks to our own sales and service.

고객 접근성 means customer proximity in Korean. This is 贴近客户 in Chinese, быть ближе к клиенту in Russian and Kundennähe in German. Why do we know this? Because we live it. Worldwide. With 27 sales facilities on the major markets and 60 representatives on smaller markets, ENGEL is your competent, regional contact on a global scale. And thanks to our global service network, we supply spare parts in the shortest possible time if the worst comes to the worst – from 70 networked logistic centres. In short, ENGEL gives you the assurance of a worldwide partner.

"Maximum machine and line availability with 100% service including shortest possible response times – 24/7: These are central quality objectives that our suppliers must fulfill uncompromisingly. As a global player with facilities in Europe, Asia, North and South America, Automotive Lighting also expects global presence from our suppliers. ENGEL, an Automotive Lighting partner, fulfills our high expectations and also impresses us with considerable innovative drive."



Goran Sipetic, Head of Industrial Development Automotive Lighting - A Magneti Marelli Company





Electrical. For more than 10 years. Electrical. For any challenge.

ENGEL identified this need at a very early stage and has offered electrical machines for more than 10 years. Today, ENGEL is the only European injection moulding machine manufacturer with a suitable electrical answer to any challenge up to a clamping force of 5000 kN.

The compact and highly economical **ENGEL** e-max produces standard parts with maximum precision. The intelligent **ENGEL** e-motion stands for demanding precision or high-performance fast-running applications. And the **ENGEL** e-victory hybrid machine combines the best of both worlds, hydraulic and electrical, better than any other. Tie-barless advantage, precision and maximum energy efficiency included.







Boštjan Sifrar Director Sibo Gruppe, Slovenia

"Our ENGEL e-motion machines deliver impressive performance in high-performance injection moulding. Besides the high level of productivity that we require, the machines are extremely precise, energy-saving and quiet thanks to their fully electrical design."



"One of the central requirements in our production is maximum productivity on a small footprint. The fast and comparatively compact ENGEL duo machines fulfil these requirements very reliably for us. The Wide Platen Extended (WPX) variant offers very special benefits. It gives us the ability to achieve extremely large mounting surfaces and high mould weights despite a minimal total use of space."

MAHLE Filtersysteme Austria

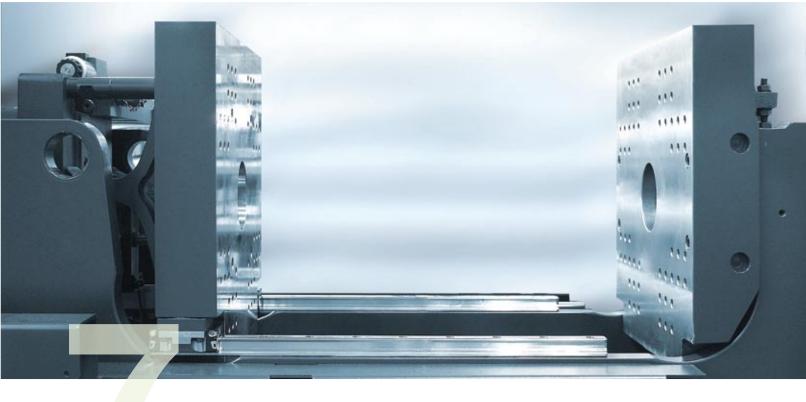
Markus Merlitsch
Head of Production - Air Intake Modules

Christian Pruntsch
Head of Production - Oil Filter Modules



Power in an intelligent and compact package. ENGEL duo.

ENGEL duo machines are real power packs. And they need comparatively little space to develop this power. The tried-and-trusted dual platen compact clamping unit ensures a space-saving design. Fast thanks to short cycle times. Space-saving and energy-efficient. In a nutshell: maximum efficiency. ENGEL duo.



Tie-bar-less. The economical machine concept

Tie-bar-less machines by ENGEL offer a decisive advantage: free access to the clamping unit. This means that robots can work faster without needing to avoid obstacles. And you can change bulky moulds easily in the shortest possible time.

More flexibility, efficiency and economy in production are the results. For more than 20 years. **Tried and trusted 50,000 times.**



Christoph Faßhauer Executive Board Oechsler AG, Deutschland

"Many of our applications require larger and more complex moulds, as more functions are packed into applications so that, for example, several solenoids are required or the tools have to cover a number of component variants. In addition, from the very outset when designing the system, we need to plan for a greater number of cavities in order to ensure cost-effective production. Thus, mould technology has become more complex and more demanding, resulting in greater space requirements at the mould fixing platen.



Because the ENGEL victory machines don't have tiebars, we can use the fixing platens to the full. This ample free space gives us the freedom to deploy larger and more bulky moulds - on the same machines and using the same clamping force. We can thus deploy large moulds on relatively small machines. This means savings both in terms of investment and in valuable machine deployment space. Another benefit: Robots can quickly and efficiently take off the moulded parts from the side because there are no tie-bars in the way."



Innovative drive and independent development. Collaborative in partnerships.

ENGEL. Specialist for injection moulding technology. Across the whole bandwidth and depth. Thanks to our **clear focus on injection moulding**, we have developed a number of trailblazing innovations in machine and process technology over the years. These help you to manufacture your products in an even more efficient way. Or to implement product ideas with totally new approaches in a highly economic manner.

Despite the impressive innovative force of our experienced developers and engineers we still cooperate with famous name external specialists on some specialist tasks – for example in mould technology. Effective, targeted and collaborative. **And we have always remained independent and autonomous.** This means that we do not have to rely on third-party supplies – in contrast to some of our competitors – with respect to very focal strategic topics such as electrical machines. And this gives you a stable partner in the future.





Oliver Becker
Director Advanced Manufacturing Engineering
Johnson Controls Automotive Group

"We developed the Dolphin method in cooperation with ENGEL and other partners. And it was a big success: Thanks to this innovative two-component injection moulding method, parts can now be moulded and coated with premium quality soft-touch surfaces in a single-step process. A major benefit compared to legacy, multiple-stage approaches. This means that sandwich components such as dashboards and armrests can be produced very quickly, in excellent quality and cheaply.

In the scope of this highly intensive and successfu cooperation, we experienced and came to appreciate ENGEL's innovative drive."



Performance meets energy efficiency.

Powerful but still sustainably energy efficient. Intelligent technological solutions from ENGEL effectively combine these requirements for modern injection moulding machine design. For many years, Again and again.

ENGEL offers energy efficiency that pays off: less energy consumption, and thus lower energy costs. All along the line. From electrical machines, standard hydraulic machines to hybrid machines with servo-electric injection units and servo-hydraulic clamping units to large-scale dual platen machines.







Polesie: Sergej Zlotnik (Deputy Chief of Production Department), Anatolij Kurljuk (Deputy Chief of Workshop), Boris Banderyk (Chief of IMM Service), Alexandr Borisjuk (Deputy Chief of Workshop) from left to right



Boris Banderyk
Chief of IMM Service Polesie, Belarus

"As the biggest manufacturer of toys in Belarus and CIS countries, we produce up to 30 tons of moulded parts every day. A high level of injection moulding machine productivity and low energy consumption play an important role from a cost point of view.

We tested the productivity and energy efficiency of three comparable machines by different vendors. The figures convinced us, and the results clearly favour ENGEL: The ENGEL victory 500/90 machine we tested produced between seven and eight percent more parts in the defined test period and consumed between 11 – 19 percent less energy than the other test candidates."









System solutions from a single source. ENGEL



ENGEL is the world market leader in injection moulding machines. And number 1 in automation. Thanks to topranking automation experts in our own sales units and competence centres, where we successfully bundle our automation expertise for you. But ENGEL is more than this: a turn-key system provider. We guarantee that machines, moulds, robots, conveyor belts, peripheral units, methods, training and spare parts mesh reliably and with perfect

The whole is more than just the sum of its parts. The whole is: ENGEL.

Reliable partner. Efficient technology. Innovative solutions. See for yourself. Live! At the ENGEL exhibition booth at the **K 2010**. In Düsseldorf, October 27 to November 3, 2010. **Hall 15, booths B 42 and C 58**. We look forward to seeing you there!

ENGEL. Inject the future.