



## 10 RAZLOGA DA SE OSLONITE NA ENGEL

**ENGEL**

be the first.

## 10 reasons for relying on ENGEL now.



Engel Austrija je porodična kompanija posvećena ulaganju u kvalitet, tehnološke inovacije, produktivnost, a pre svega u ulaganje u kupce. Partnerski odnos sa kupcima omogućava dugoročnu stabilnost poslovanja i konkurenčku prednost.

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# 1

**ENGEL. Stabilan  
porodični posao. Vaš  
pouzdani partner za  
budućnost.**

**Donesite sada pravu odluku za budućnost !**

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# 10 reasons for relying on ENGEL now.

1



“Mi zahtevamo vrhunski kvalitet i profesionalan odnos od nasih dobavljača kao i proizvoda koje plasiramo na tržištu. Mi preferiramo stabilan partnerski odnos - kompaniju koja će nam omogućiti put ka inovacijama. Kompaniju Engel smo prepoznali kao pouzdanog partnera koji nam je omogućio 20-ogodišnji stabilan rast i poslovanje.”

*Herbert Blum,*

*Generalni direktor Julius Blum GmbH, Austria*



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2



Lajos Kasza  
CEO Jász-Plasztik Kft, Hungary



"Veoma nam je bitno dugoročno i stabilno posovanje sa našim dobavljačima. Naročito cenićemo kontinuitet i profesionalnost kompanije ENGEL, koja za nas predstavlja stabilnu komunikaciju i pravi poslovni potez.

*Lajos Kasza,  
Generalni direktor Jász-Plasztik Kft, Hungary*



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Engel menadžment tim zajedno predstavlja nekoliko decenija posvećenosti ENGEL kompaniji

2

**Kontinuitet u ispunjavanju zahteva kupaca.**

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Lajos Kasza  
CEO Jász-Plasztik Kft, Hungary



“Veoma nam je bitno dugoročno i stabilno poslovanje sa našim dobavljačima. Naročito cenimo kontinuitet i profesionalnost kompanije **ENGEL**, koja za nas predstavlja stabilnu komunikaciju i pravi poslovni potez.

*Lajos Kasza,  
Generalni direktor Jasz-Plasztik Kft, Hungary*

# 10 reasons for relying on ENGEL now.



**HYUNDAI 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 global 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



# 3

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.

3

Mi pratimo Vaše poslovanje. Za nas granice ne postoje.

## 10 reasons for relying on ENGEL now.



Dobro je znati da imamo partnera koji govori istim jezikom širom sveta-jezikom kvaliteta. Kao inovativna, globalna kompanija, ENGEL svojim kupcima **isporučuje vrhunski kvalitet** mašina poštujuci zahteve najkraćeg vremena isporuke i pouzdanosti bez obzira gde se kupci nalazili.

*Suk-Yun Nam, Generalni direktor prodaje  
MOBIS Korea*

**'Zadovoljan kupac je najveća vrednost naše kompanije.'**

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# 10 reasons for relying on ENGEL now.

**4** 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, близкое 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 80 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.

customer proximity  
접근성  
近距离  
近距离客户  
近距离  
Kundennähe

„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.“

**AL** AUTOMOTIVE LIGHTING Goran Sipetic, Head of Industrial Development  
Automotive Lighting - A Magneti Marelli Company

Spotlight:  
Global service presence

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**4**

**Kompetentnost na lokalnom nivou.**  
**Zahvaljujući našoj prodajnoj i servisnoj mreži.**

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## 10 reasons for relying on ENGEL now.

“**Mašine prilagođene svakom zahtevu kupca, uključujući i 24 h servisnu podršku u najkraćem vremenu**” - su najznačajniji kriterijumi koje naš dobavljač mora da ispuni. Kao globalna kompanija Automotive Lightening zahteva globalno prisustvo svoga dobavljača. ENGEL kao naš globalni partner, ispunjava naše najstrožije kriterijume i očekivanja, zahvaljujući čijoj saradnji postižemo vrhunske performanse.

**Goran Šipetić, Direktor centra za industrijski razvoj  
Automotive Lightening – A Magneti Marelli**



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# 10 reasons for relying on ENGEL now.



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-bar-less advantage, precision and maximum energy efficiency included.



**Bojan Šifrar, Direktor Sibbo Gruppe,  
Slovenia**

“Naše ENGEL e-motion mašine pružaju neprevaziđene performanse. Pored visokog nivoa produktivnosti koji zahtevamo, mašine su izuzetno precizne, ekonomične i tihe zahvaljujući konceptu

**“potpuno električnih mašina”**

5

**Potpuno električne  
mašine.** Više od 10  
godina postojanja.  
Prilagođene svakom  
izazovu.

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ENGEL je identifikovao potrebu tržišta za električnim mašinama veoma rano-pre jedne decenije. Danas, ENGEL je jedini evropski proizvođač sa stabilnim razvojem i proizvodnjom električnih mašina sile zatvaranja do 500 t.

Kompaktna i visokoekonomična ENGEL e-max je prilagođena proizvodnji standardnih aplikacija koje zahtevaju **veliku brzinu procesa sa maksimalnom preciznošću**. ENGEL e-victory hibridna mašina predstavlja kombinaciju prednosti električne i hidraulične mašine. Odsustvo vođica, preciznost i energetska efikasnost su najbolji pokazatelji isplativnosti investicije.

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# 10 reasons for relying on ENGEL now.

**MAHLE**  
*Driven by performance*

„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 Marlitsch  
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.**

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6

Snaga u pametnom i kompaktnom konceptu. **ENGEL Duo mašine.**

## 10 reasons for relying on ENGEL now.

Jedan od centralnih zahteva naše proizvodnje jeste **maksimalna produktivnost na sto “manjem prostoru”**. Engel Duo ispunjava sve zahteve u pogledu kratkog ciklusa, kvaliteta performansi, a uz WPX ploča većih dimenzija u odnosu na standarde postižemo još bolje rezultate - mogućnost postavljanja većih i težih kalupa za proizvode većih dimenzija, a bez zauzimanja većeg prostora u hali.

***Markus Merlitsch, direktor proizvodnje – Air intake Modules***  
***Christian Pruntsch, direktor proizvodnje – Oil Filter Modules***  
***MAHLE Filtersysteme Austria***



*Driven by performance*

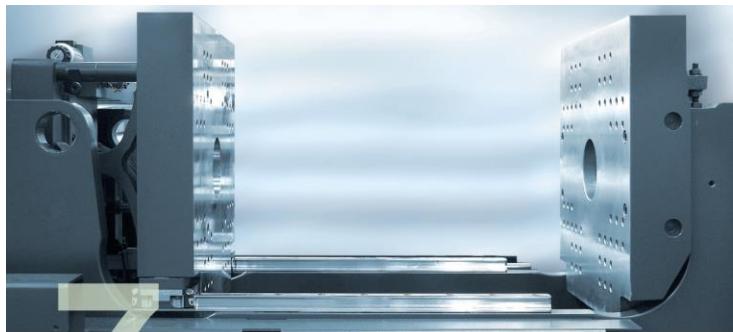
ENGEL Duo su kompaktne i “moćne” mašine. Zbog kompaktnog dizajna, Duo ne zauzima veliki prostor, a zahvaljujući “proverenom” konceptu omogućeno je brizganje velikih komada (do 100 kg i 5.500 t sile zatvaranja) po najnižoj ceni gotovog proizvoda.

Karakterišu je brzi ciklusi, sistem zatvaranja sa dve ploče, ušteda prostora i energije. **Jedan koncept 4 rešenja do maksimalne efikasnosti.**



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# 10 reasons for relying on ENGEL now.



## 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 tie-bars, 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."



# 7

## Mašine bez vodíca. Koncept ekonomičnih mašina.

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## 10 reasons for relying on ENGEL now.



***Christoph Fashauer,  
Izvršni direktor Oechsler AG, Deutschland***



Većina naših aplikacija zahteva veće i kompleksnije alate, naročito pri proizvodnji aplikacija koje sadrže mnogo različitih komponenti. Da bismo povećali produktivnost i snizili troškove često zahtevamo kalupe sa većim brojem kavita. To dalje zahteva pokretne ploče većih dimenzija, koje rezultiraju u većim mašinama. Upravo koncept mašina bez vođica omogućava velike uštede u prostoru, bolje performanse robota, a time i kraći ciklus... Odsustvo vođica omogućava postavljanje ploča većih dimenzija, kao i veći broj kavita, "povećanje sile zatvaranja" bez povećanja dimenzija mašine, čime se štedi na prostoru, a istovremeno i na investicijama.

# 10 reasons for relying on ENGEL now.

**8**



**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.

**Johnson Controls**



„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, multipressage approaches. This means that sandwich components such as dashboards and armrests can be produced very quickly, in excellent quality and cheaply.“

Oliver Becker  
Director Advanced Manufacturing Engineering  
Johnson Controls Automotive Group

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

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**Vođeni inovacijama,  
željom da kupcima  
isporučimo najbolja  
rešenja. Partnerstvom do  
uspeha.**

## 10 reasons for relying on ENGEL now.

**Oliver Becker**

**Direktor proizvodnje i inženjeringu  
Johnson Controls Automotive Group**



Mi smo realizovali Centralizovane sisteme u saradnji sa Engelom. Postigli smo uspeh zahvaljujući inovativnom konceptu dvokomponentnih mašina. Sada je moguće istovremeno brzgati delove različitih karakteristika u veoma kratkim ciklusima, vrhunskog kvaliteta i uz velike uštede.

U okviru ove uspešne i stabilne kooperacije, iskusili smo poslovnu filozofiju kompanije Engel, kao i njihovu usmerenost na uvođenje inovacija, što je i nama omogućilo da budemo jedinstveni i inovativni, a time i uspešni na tržištu.

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# 10 reasons for relying on ENGEL now.

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, from small injection units and servo-hydraulic clamping units to large-scale dual platen machines.



**Engel Energetska Efikasnost**  
– manja potrošnja energije,  
niži troškovi, ne umanjuju  
kvalitet ni performanse. Engel  
proizvodni program od  
hidrauličnih do električnih  
mašina idealan za sve  
industrije.

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**Performanse dostižu  
energetsku efikasnost**

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## 10 reasons for relying on ENGEL now.



Kao najveći proizvođač igračaka u Belorusiji, proizvodimo do 30 t brzganih igračaka dnevno. Upravo zbog toga visok nivo produktivnosti, kao i velika ušteda u potrošnji energije imaju presudni uticaj u pogledu investicija naše kompanije. Testirali smo ove zahteve za velikim uštedama u potrošnji energije, a istovremeno velikoj produktivnosti sa tri različita dobavljača. Rezultati su pokazali da jedino sa Engel mašinama ispunjavamo ove zahteve. Sa ENGEL e-victory 500/90 postižemo 7 do 8 % veću produktivnost, uz 11 do 19 % uštede u potrošnji energije u odnosu na druge kandidate.

***Naš izbor je jasan -ENGEL energetski efikasne mašine !***



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## 10 reasons for relying on ENGEL now.



Johann Graf  
Global Sourcing Manager, FCI Austria

“ENGEL manages to view our specific requirements in a holistic way, and to translate them into highly efficient injection moulding system solutions that go well beyond the confines of machine technology. It is a good feeling to have ENGEL as a project partner that manages everything in a coordinated way. A project partner that you can really rely on.”

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*Kompletne rešenja za Vašu proizvodnju iz jednog izvora  
ENGEL*



# 10

**Kompletno rešenje  
za Vaše poslovanje  
iz jednog izvora.**

**ENGEL**  
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## 10 reasons for relying on ENGEL now.



ENGEL uvek uspeva da prepozna naše specifične potrebe i da ih projektuje u visoko produktivna sistemska rešenja koja prevazilaze naša očekivanja. Engel je partner na koga se zaista možete osloniti i prepustiti mu projektovanje proizvodnje po sistemu "ključ u ruke".

*Johann Graf, Globalni menadžer za nabavku*

*FCI, Austria*



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**ENGEL 10 razloga da  
počnete budućnost sada !**

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