Scope of products
the portfolio
To our partners, working with ENGEL means having TRUST in a reliable company managed by one family for decades. Our aim has always been to use our EXPERIENCE and COMPETENCE in every area of PLASTICS PROCESSING to live up to our reputation as a WORLD MARKET LEADER. We set new standards in this dynamic and diverse sector through INNOVATION and SYSTEM COMPETENCE. We believe in the importance of not only listening to the immediate concerns of our customers, but also anticipating their future requirements. We support our partners with SERVICE and KNOW-HOW. This is also why we have created a GLOBAL network of subsidiaries that enable us to be READY whenever and wherever you need us.
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ENGL is number 1 when it comes to injection moulding machines. And not electric, from horizontal to vertical. The right machine for your application is waiting for you.
Produce technical parts efficiently.

The universal, tie-bar-less ENGEL victory machine series consists of modular systems for cost-effective injection moulding production. Thanks to its flexibility and reliability, it is ideal for moulding a great variety of technical parts: from toothbrushes to fittings to complex vehicle components.

The ENGEL victory bonus

Tie-bar-less technology: large moulds on a small machine – you only invest in the clamping force you actually need!

Low energy consumption levels as a standard thanks to little friction, closing pressure lock-in and electro-hydraulic variable capacity pumps

Mould protection, great platen parallelism and an even clamping force distribution in the mould thanks to

- the patented ENGEL force divider

No restrictions in the mould area enable

- complex and innovative mould designs
- fast mould changes
- free space for robot movements

Universal all-rounder

- The ENGEL victory is a basic machine for lots of different applications and a wide range of technologies (e.g. multi-component technology)

More energy efficiency

- thanks to the optional servo-hydraulic ENGEL ecodrive system with different drive variations (consecutive or parallel movement sequences)
The tie-bar-less machine for high-precision technical parts.

Due to its highly accurate servo-electric injection unit, the ENGEL e-victory is perfect for manufacturing technical parts that have to meet high quality requirements (e.g. delicate, complex, optical or micro parts).

It already has the hydraulics "on board" for complex moulds with hydraulic components such as core pulls. Moreover, this machine’s tie-bar-less mould area and low-emission drive technology makes it very suitable for clean room use.

The ENGEL e-victory bonus

By teaming a servo-electric injection unit with the innovative servo-hydraulic ENGEL ecodrive system, the ENGEL e-victory combines the best of two worlds.

Higher energy efficiency and precision levels thanks to

- the servo-hydraulic ENGEL ecodrive system
- a servo-electric injection unit

No restrictions in the mould area enable

- complex and innovative mould designs
- fast mould changes
- free space for robot movements
The all-electric machine for high-end applications.

More and more, always faster, always more precise, always cleaner! This is what customers expect from you. The ENGEL e-motion is the ideal production unit for the continuously growing demands of a dynamic market. Thanks to a flexible, all-electric, highly efficient machine concept that delivers constant and clean quality – best for medical or fast-running packaging applications and electrical multi-component solutions.

The ENGEL e-motion bonus

Highly accurate and extremely fast: Both the precision and the speed of this machine make it worth investing in.

- Excellent cleanliness and durability thanks to
  - an encapsulated toggle lever
  - linear guidance of the moving platen

- Low maintenance costs thanks to
  - a closed lubrication system and oil bath lubrication for the ball screw spindle

- Energy-efficient production
  - The high-performance injection units are able to achieve injection speeds that were only attainable with hydraulic accumulators

- Short injection times thanks to
  - dynamic servomotors with breathtaking acceleration
The compact all-electric machine  
for standard applications.

The all-electric ENGEL e-mac offers a great benefit due to very strong performance data while taking up very little room in a production hall. It is fast and extremely cost-efficient in production, due to its low energy consumption. Above all, the investment comes at an incredibly reasonable price.

The first step into the world of all-electric injection moulding at its best. Offering high output at low investment costs, the ENGEL e-mac is ideal for producing standard applications more economically.

The ENGEL e-mac bonus

All-electric and compact: The all-electric ENGEL e-mac achieves high output at a low investment cost. Increases the productivity level of production hall: more machines in one hall due to the small footprint. The machine concept is applicable for a large variety of applications.

Flexible adaptation thanks to

- more options for standard applications

Long life for the clamping unit thanks to

- linear guidance of the moving platen (the tie-bars act as tie-rods only)

Even more process consistency and shot weight stability thanks to these optional systems

- ENGEL IQ weight control (software for process control and monitoring the injection procedure)
- ENGEL smartshut (active closing non-return valve)

Low energy consumption thanks to

- an all-electric drive concept with an innovative kinetic energy recovery system
Powerful machines for large parts.

ENGEL is the pioneer of the two-platen technology. The ENGEL duo machines are true powerhouses and cover a wide range of clamping forces up to 55,000 kN. They are able to handle the largest shot weights easily, and are therefore perfect for the production of large containers or sophisticated vehicle parts.

Excellent operating safety and part quality thanks to
- solid platen support and guide
- precise platen parallelism
- sensitive mould protection

More energy efficiency thanks to these optional packages:
- servo-hydraulic ENGEL ecodrive system with optimum working point
- electrical screw drive (for all sizes)

More productivity and less energy consumption thanks to
- automatic clamping force optimisation (optional)

Clean mould area thanks to
- low-friction platen guiding on carriages (no tie bar guiding)

Short cycle times thanks to
- optimised process dynamics
- synchronised locking device

The ENGEL duo bonus

Space-efficient production:
The machine has a very small footprint thanks to its compact proven dual-platen design.
**ENGEL**

e-duo

**Electric powerhouse for large high-precision parts.**

The new ENGEL e-duo is the first machine to bring the benefits of electric drive technology to the large-size machine segment. The machine offers a high injection rate without requiring hydraulic accumulators – a significant contribution to reducing energy consumption. This series is perfect for producing parts that require large flow lengths as well as high precision and energy efficiency.

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**The ENGEL e-duo bonus**

**First electric two-platen machine** with performance data compatible to those of the proven ENGEL duo series.

**Low friction** thanks to innovative linear bearing with highly precise servomotor that ensures the most accurate control.

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**Less space** required due to
- the compact design and smaller footprint

**Additional energy savings** thanks to
- a high injection capacity without hydraulic accumulators

**High precision moulding using**
- electric drive technology – maximum repeatability guaranteed
Space-saving vertical machine for large composite technology parts.

The ENGEL v-duo introduces the benefits offered by vertical injection moulding machines to large-sized machines. Therefore, the ENGEL v-duo is ideal for the production of high-precision parts which are both large and lightweight.

The ENGEL v-duo bonus

An extremely small footprint thanks to a compact design, with low height and weight. Outstanding energy efficiency in standard configuration.

Customisation with

- sliding table
- equipment for reactive technologies
- automation

Enhanced ergonomics

- easy access
- safety for the operator
The high-speed machine

for maximum output.

All system components of the ENGEL e-speed series are designed for maximum speed, dynamics and permanently working at maximum performance. Therefore, the ENGEL e-speed is perfectly adapted for the requirements of the packaging industry.

The ENGEL e-speed combines the proven high-performance all-electric machine series ENGEL e-motion and the properties of the ENGEL speed series: a combination of highest injection rates and maximum energy efficiency.

The ENGEL e-speed bonus

ENGEL’s fastest machines. The series is created for maximum output continuously produced at a high performance level.

Short cycle times thanks to

- extremely short dry cycle times
- high injection speeds (of up to 1000 mm/s)
- parallel movements

Servo-electric screw drive for

- increased efficiency and high metering performance

Excellent cleanliness and durability thanks to

- an encapsulated toggle lever
- linear guidance of the moving platen
With its vertical clamping unit, the ENGEL insert series is the ideal solution when it comes to overmoulding inserted parts. Depending on your mould requirements, the ENGEL insert can be delivered with either a vertical or a horizontal injection unit.

For the production of parts that have to meet particularly high precision standards, the ENGEL e-insert is the best choice. The standard version of this machine is equipped with a servo-electric injection unit and the innovative hydraulic ENGEL ecodrive.

The ENGEL e-insert is the machine for particularly high requirements concerning precision.

**Horizontal parting surface:** guarantees
- easy and precise insertion and positioning of inserts in the cavities

**Easy access** thanks to
- a safety light guarding

**Available in three versions**
- Rotary (rotary table)
- Single (stationary lower mould mounting platen)
- Shuttle (sliding table)
Elastomers are perfect for all sorts of special tasks. They act as a seal, absorb noise and vibrations, protect joints, and are highly resistant to heat and low temperatures.

The ENGEL elast series offers machines and automation solutions which have been developed specifically to process elastomers. As a result, any elastomer can be processed extremely efficiently and reliably.

The ENGEL elast bonus
This is a flexible power package for elastomer applications of any kind. It can be used on both vertical and horizontal machines.

- Homogeneous plasticising thanks to
  - the use of FIFO or special screw injection units for rubber strips or solid silicone

- Very fast cycle times thanks to
  - specially designed machine movements

- High platen rigidity for
  - high quality requirements in the elastomer production
Maximum output with minimal energy consumption: The e-cap is an all-electric high-performance injection moulding machine for efficient cap production. Shortest cycle times, highest productivity and a maximum of good parts will allow you to achieve unbeatable production conditions.

The ENGEL e-cap bonus
Efficient injection unit combined with increased ejection force for cap production.

Maximum performance
• efficient injection unit combined with increased ejection force and improved clamping drive
• specifically designed for cap production

Clean, low-friction platen guidance
• stable linear guidance
• lubricant-free mould area

Constant lubrication
• permanent lubrication of the spindles
• separate oil cooling not required
• long service life with lower costs
30_Scope of products

With the flexseal you can produce all types of flat seals and O-rings very efficiently in the smallest spaces. This hydraulic machine is suitable for all common rubber compounds and guarantees reliable and efficient processing.

open design
- excellent accessibility to the strip feeder & injection unit

high precision
- outstanding results with all common elastomers (rubber, solid silicone, LSR & TPE)

energy efficient hydraulic drive
- ENGEL ecodrive
- particularly beneficial due to longer heating stages in the manufacture of O-rings and flat seals

The ENGEL flexseal bonus

The flexseal is equipped with the energy efficient hydraulic ENGEL ecodrive as standard. This is particularly beneficial due to the longer heating stages in the manufacture of O-rings and flat seals.
ENGEL is world market leader in injection moulding machines. And: number 1 with more than 25,000 installed automation solutions worldwide. In addition to our sales subsidiaries and our worldwide service network, the topic of automation is dedicated exclusively to more than 450 experienced specialists. They also support you on-site through our subsidiaries and competence centres where we successfully bundle our know-how for your applications, efficient project engineering and CE certification.
The ENGEL automation bonus

- Extensive product portfolio
- Worldwide automation competence
- Optimally matched products
- Over 40 years of automation experience
- Complete control integration of ENGEL components

Tailored solutions from the world of ENGEL automation! For any product, on machines of all manufacturers, in all industries. Automation competence at all levels. For highest part quality, stable processes and overall more productivity. The right solution from a single source: From injection moulding machines with simple handling robots, grip tools, conveyor systems and CE safety systems to customised individual system solutions with extensive inserting, machining, testing and depositing steps.

Robots, grip tools, conveyor systems, safety systems, processing technology, sensor technology, control technology, training and service.
3 Plasticising technology

Focus on the plasticising unit. The plasticising unit is crucial. It defines both the quality and the performance of modern injection moulding machines. The plasticising unit defines the feasible melt quality, the repeatability of the injection moulding process, and above all the life expectancy and cost-effectiveness of the machine.
Perfectly matched

The individual components such as the plasticising screw, return flow shut-off device, and barrel perfectly harmonize with each other. And they cover - in various packages - the wide-ranging market requirements. These requirements range from the production of thin-walled parts made of standard plastics produced at extremely short cycle times all the way to highly corrosive or abrasive plastics.

Plasticising engineering solutions: Material classes

- **Basic**: for additive-free thermoplastics with low corrosive potential
- **Advanced**: for thermoplastics with additive content of up to 30%, corrosion resistant mould type
- **High Performance**: in combination with 3 zone screws for thermoplastics with additive content above 30%, corrosion resistant mould type

Geometry is the key

Where process engineering requirements are tougher, standard geometries are often not sufficient. ENGEL offers a wide selection of custom geometries for such cases. They ensure maximum plasticising performance, superb colorant blending, and excellent metering consistency.

Technology packages

Moreover, ENGEL offers additional technology packages in the various material classes designed to meet the requirements of special process technologies. They include processing of plastics that are highly sensitive to shearing or high performance screws for high feed volumes with improved melt quality.

- **PVC package**
- **High performance package**
- **High performance package for cap production**

ENGE| Solution Competency

The requirements of the plasticising unit are constantly becoming tougher. Plastics with special properties continually require the use of new additives or other admixed materials to fulfill these needs. In view of increasing productivity, such newly developed plastics need to be processed faster and with premium quality on state-of-the-art injection moulding machines. All these factors lead to increased stress on all plasticising unit components - resulting in a shorter life cycle as well as in process fluctuations.

Success through persistent ongoing development

To be able to fulfill increasing demands in the future, plasticising systems require continuous development - both in terms of geometry and material design. With our extensive experience, competency and state-of-the-art facilities, such as our own materials laboratory, or screw testing center, ENGEL remains on the leading edge in plasticising engineering.
4 Technologies

For moulded parts with special characteristics. ENGEL injection moulding machines provide a full range of options for standard injection moulding at the highest level. But ENGEL also offers the right solutions for products that cannot be manufactured using standard technology.
When individual characteristics and function join to form a more powerful whole, the result is superior in performance compared to a stand-alone solution. The ENGEL combimelt technology follows this principle. Instead of assembling individual parts, a combination of materials is achieved by injection moulding. This approach creates innovative moulded parts with different colours, properties and functions.

Decades of experience
ENGEL offers the appropriate application and machine technology to produce the parts you designed: whether by sequentially adding materials or simultaneous injection of two components, whether you need two, three or up to six different components in a cycle, whether your are producing microparts or heavyweights.

ENGEL combimelt
Combination competence.

ENGEL coinjection
Reduce costs and improve quality.

ENGEL coinjection is a sequential form of multi component technology. It involves a second component (core) being injected into the first component (skin). A special coinjection nozzle controls the ratio between the first and second components using differential pressure.

This method can save costs, as it allows a cheaper core material, such as regranulate, to be used. It is also possible to enhance the quality of a component by giving it a fibre-reinforced core and an unreinforced skin. Sink marks can be prevented by using expanding agents in the core, which can also lead to a reduction of clamping force required - an additional positive side effect.

In the packaging industry, coinjection is applied in barrier injection moulding. When polyolefins are processed, a gas-tight material like EVOH is used as a barrier layer in the core.

Another special application of coinjection is interval injection moulding, used to produce marbled moulding parts. Because of repeated switching between the two components during the injection process, a reproducible marbling effect is created when moulding parts with complex profiles, and a tiger stripe pattern in the case of simple profiles.
The ENGEL LIM-machine range is perfectly adapted to the various LSR applications. The portfolio includes flexible systems for production of diverse products – from micro parts to multi component applications (thermoplastic/LSR bonding) to high volume parts (e.g. high voltage insulators). All systems offer a wide range of combinations and configurations.

The first choice for LSR applications.

LIM injection unit
- available with screw injection unit or piston unit

Perfects metering
- system compatible with all popular brands of metering pumps and systems

Integrated control of
- metering pumps
- automation components, interface of de-moulding devices

Crystal clear large surface area parts offer decisive benefits compared to silica glass. They are lighter, offer more freedom in design, and can be perfectly combined with other materials - including functional integration. Thanks to ENGEL's intelligent glazemelt technology, these large surface area, multiple component parts can be produced with excellent optical quality, low stress and extreme efficiency.

Arranging the moulded parts in layers saves clamping force while at the same time supports the production of the largest possible parts in relation to the clamping force. This process is not entirely restricted to crystal clear moulded parts, but suitable for any kind of multiple component part with a large surface area.

Especially developed for this technology, ENGEL offers a screw with optimized geometry.
The successful injection-compression moulding process extends the injection moulding process by adding a compression movement of the clamping unit. This offers versatile capabilities depending on your application. Where melt distribution with substantially reduced clamping force is the major focus for moulded parts with a large surface area, the process demonstrates its capabilities in the homogeneity of the cavity pressure for thick-walled moulded parts. This opens up a large range of applications from automobile glazing, through optical lenses, to moulding of finest microstructures for innovative analysis applications in medical technology (lab-on-a-chip).

**ENGEL coinmelt**

Decisive benefits.

- Maximum reproducibility and optimised dynamics open up new potential for speed and force-controlled injection compression moulding with the fully electrical ENGEL e-motion series.
- Active parallelism control for the clamping unit on the ENGEL duo dual platen machine for large-scale moulded parts guarantees optimised moulding despite a decentralised sprue position.
- Equipment packages that match your expectations form the basis for economic production.

**variomelt**

for optimised surfaces through targeted temperature variation

The combination of the injection moulding process with a variotherm mould temperature control enables the manufacture of moulded parts with special surface qualities. Variotherm describes the function, namely that the injection moulded part is not cooled with the constant temperature of the mould surface but rather with a cyclically variable temperature. Variothermal processing is a combination of cyclical heating and cooling.

The goal of this strategy is to use the glass transition or crystalline melting temperature to temporarily control the mould wall temperature while the mould is filling to prevent the outside skin from cooling off immediately. This permits the “self-healing” of surface flaws, such as flow marks or weld lines, as well as enabling the casting of fine surface structures, such as nanostructures on optical lenses. Although the principle of cyclical heating and cooling is identical for all applications, the methods, particularly for cyclical heating, are very versatile.
Lightweight technical moulded parts with excellent precision, low distortion levels and thus maximum dimensional and shape stability are what ENGEL foammelt is all about. They are produced by dosing inert gas (nitrogen or carbon dioxide) directly into the plasticising unit on the injection moulding machine, where it is completely dissolved in the melted plastic and held in a one-phase polymer-gas mix with the help of constant pressure control of the screw.

The foaming process is only initiated once the material has been injected into the mould and there is a significant drop in pressure in the cavity. The foaming pressure, which replaces the post-injection pressure of the conventional injection moulding process, has a homogeneous effect along the entire length of the part and therefore reduces any inhomogeneous shrinking (distortion). Parts made with this method have a compact outer layer and a microcellular foam structure inside. The material density is reduced, which in turn reduces the weight of the moulded part.

In an additional step, once the injection process has been completed, the mould cavity can be monitored and opened when a predefined final wall thickness has been reached. The negative compression process allows the foam structure, and thus the part properties, to be set specifically, a higher degree of foaming to be produced and even more homogeneous cell distribution to be achieved.

ENGEL foammelt is a low pressure injection moulding method. Therefore, machines with a lower clamping force can be used compared to standard injection moulding methods.

 Added value thanks to design
No matter if your design needs are simply technological, playfully romantic, or elegantly stylish: The design options that decor foils offer are manifold. Decor foils set design highlights in many fields of daily life. Surfaces in wood, aluminium or carbon look support customisation of automotive interiors. Foils with graphical designs upgrade the look of sports equipment, mobile phone covers, furniture components, office accessories and trendy lifestyle as well as packaging products.

 Added value thanks to integrated functions
Besides surface decoration, foils are also perfect for the specific integration of additional functions in the component: Passive transponders can be inserted in the label and back injected to allow automatic, contactless identification of moulded parts. Typical applications for the RFID (Radio Frequency Identification) technology can be found in pallets, transport boxes or implants. Newly developed, pressure sensitive foils based on capacitive technology can be used for measuring weights, identifying objects or positioning, or as electric switches (“smart plastics”).

ENGEL foilmelt
Individual surfaces and smart, value-added functions thanks to foils.

- Surfaces with special effects (metallic paint, aluminium design, chameleon effect, holograms)
- Maximum freedom of design and quick design changes from item to item
- Direct production without refinishing
- Integration of additional functions
- Improved and permanent bond compared to adhesive foils
The demand for decor parts in vehicles is growing. They reduce both the tendency to split and ambient noises. Whether column trims or door panels, back shelves or boot linings, the intelligent ENGEL tecomelt technology offers an extremely efficient, gentle and cost-optimized approach to producing textile-plastic composite parts. Moulding of the part and assembling details occurs in a single step with textile decoration.

Due to the specific structural properties of fabrics and foils, which would not be capable of withstanding "normal" process conditions in standard injection moulding, ENGEL tecomelt relies on the consistent implementation of strategies for low pressure cavity filling. This can be achieved by a multiple point sprue system with cascade control, or by combining conventional injection moulding with a compression moulding process.

Material savings and cycle time reduction are decisive economic factors. For moulded parts with greater wall thicknesses, or considerable wall thickness differences; these product properties are not always achievable using conventional legacy techniques as a high level of shrinkage causes undesirable surface defects. The ENGEL gasmelt und ENGEL watermelt gas and water injection processes therefore provide an economic solution.

More precision cavities and less material
Depending on the requirements, the pressurised media gas or water, targettedly create cavities. This saves material, reduces the thickness of walls that require cooling and at the same time improves the surface finish precision.

The potential applications for gas as a pressure medium are versatile. From creating small gas bubbles in local melt concentrations to complex hollow structures. Water as a pressure medium supports the manufacturing of pipes in freely definable, three-dimensional shapes that other processes could not achieve.
Scratch-proof, high quality surfaces combined with 3D effects that visibly impress. Thanks to ENGEL’s innovative clearmelt process, decor parts with these characteristics can now be produced in a time-saving, economic and highly productive manner. A thermoplastic carrier is flowcoated with transparent polyurethane - using familiar techniques from multiple component injection moulding such as sliding tables, rotating platens etc.

ENGEL clearmelt. A flood of benefits.
Compared to standard thermoplastic methods, the required level of scratch resilience and 3D effect is achieved with thin coatings using the ENGEL clearmelt approach. Conventional coating systems can only achieve similar quality in time-consuming and expensive multiple coating processes. These are, due to the multiple stage process, also prone to high reject levels.

In contrast to this, ENGEL clearmelt achieves visually impressive effects on decor parts using back-injected foils as a carrier. This makes panels in vehicle interiors real eye catchers. And: This technology might shed new light on the world of switches in the future. The reason for this is that ENGEL clearmelt also supports overlaid carriers with integrated circuits which are comprehensively protected by a layer of PUR sufficiently thin to support easy handling.

Focus on precision. ENGEL optimelt
Optical moulded parts are characterised by stringent requirements with respect to contour trueness, internal stress, transparency and cost-effectiveness. These requirements can be fulfilled thanks to gentle plasticising, optimised closing behaviour of the return flow shut-off device and precise process guidance.

Excellent moulded part quality and economy aren’t necessarily a contradiction. For this, ENGEL optimelt is the best proof. The combination of the injection moulding process with custom technologies offers decisive benefits especially in the field of demanding imaging and illumination optics.

- The injection-compression process supports the manufacturing of moulded parts with a low level of internal stress.
- In multiple layer injection moulding, the moulded part is built up by adding layer after layer of the same material – excellent contour trueness and shorter cycle times are thus reconcilable.
- Variothermal mould temperature control is used whenever it is necessary to mould fine structures with utmost precision.
The revolution in lightweight construction. The new ENGEL organomelt technology substitutes steel and aluminium sheets with especially light and thin – nevertheless strong – thermoplastic fabrics.

ENGEL organomelt involves the thermoforming of thermoplastic fibre semi-finished parts being merged with injection moulding in a processing cell. Parts manufactured in this manner impress through their stability and mechanical qualities. Another plus of the ENGEL organomelt technology is its economic efficiency. The highly integrated and automated processes allow ready-to-use parts to be produced at a very low cost and with very small amounts of resources. Many steps, assembly steps in particular, are no longer needed.

These are all requirements for the application in the automotive industry. Nevertheless, innovative lightweight concepts have many other areas of application – as for example covers of portable electric devices with marginal wall thickness.

The solutions available are as diverse and as plentiful as your ideas. To benefit from the full potential of fibre composite technologies, it is not just necessary to select the best composite material for each application, but also to choose the most efficient combination of processes and systems. With the specially founded ENGEL technology centre for lightweight composites, ENGEL will – in co-operation with partner companies and institutes – help you plan and implement tailored system solutions, including heating, plasticising and mixing techniques.

ENGEL strives to create new approaches and constant further development, especially in the area of lightweight composites. As an innovative partner, ENGEL provides the following technologies in this area: organomelt (see page 54), HP-RTM, in situ.

To meet the specific demands of lightweight construction and its processes, ENGEL designed the v-duo specifically for the processing of fibre-reinforced plastics. In order to achieve an optimal process chain, an infra-red oven was developed for the organomelt technology. As a result, ENGEL has long been a pioneer for fibre composite technologies and offers single-source turnkey solutions.
5 ENGEL services

Plastics processing represents a constantly shifting challenge for you and your machines service range. This comprises global support on site, high quality retrofitting, and training portfolio. – a whole machine’s lifetime long. We support you with our extensive know-how and our optimization tools (available at all times) as well as a comprehensive, professional...
ENGEL services
always there where you need us

Your concern is our challenge

It is important to always keep your injection moulding equipment in top shape and constantly available. The wide range of services offered by ENGEL ensures that you can produce competitively at any time. It does not matter whether your production cell is a single machine or a complex integrated system solution. ENGEL makes it possible for you to utilise all options for optimisation at any time, and therefore consistently get the most out of your machine over the long term. In addition, we offer professional training for machine operators as well as fast worldwide delivery of spare parts and their professional replacement. Diverse maintenance contracts also guarantee top-level machine availability. Our goal is the best possible performance of your ENGEL machinery.

Support – we assist you on-site

- save costs incurred by downtime
- immediate support 24/7, worldwide
- knowledgeable help from the ENGEL service team
- for ENGEL injection moulding machines of any generation
- for all ENGEL technologies and any control unit version

Upgrade – install reliable added value

- for all ENGEL injection moulding machines
- professional upgrade solutions
- to supplement and optimise
- equip machines for use with completely new applications
- utilise machines with greater cost-effectiveness

Know-how – increase your competence

- thorough training with a comprehensive transfer of know-how
- make optimal use of machine potential
- individual seminars and training programs for you and your staff
- informative events on industry-specific topics
- take advantage of efficient, targeted and practical information, instruction and training
- either at your own facility or at one of the worldwide ENGEL training centres

560 of the best equipped service technicians
55 support hotline technicians
9 production plants
29 sales subsidiaries
60 representatives