

**FRECH**  
[redacted]

**Welcome** to  
the World of  
**Die Casting Technology**

RANGE OF SERVICES | **EN**

# BETTER TOGETHER

*"Tradition is also a quality. And the company that has repeatedly been the first in its industry since 1949 has a very special quality – innovativeness."*

Wolfgang Frech

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Every great  
pioneering  
achievement  
tells its own

story.





Our story begins in 1949 with the foundation of the company for the production of casting dies and plastic injection moulding dies. From the very outset, the FRECH values have been based on respect, hard work and the desire to find the best solution – without making any compromises. And it is these very virtues that were and still are the key to success. The newly-formed company was thus able to evolve from the small die-making workshop to a machine producer in just a few years. The driving force behind this was Wolfgang Frech, the son of the company's founder, who joined the firm in the 1950s. Wolfgang Frech developed the first hot-chamber diecasting machine; this was the cornerstone that enabled FRECH to grow into a technology company. Later, cold-chamber diecasting machines were added to the product portfolio. From this point onwards, FRECH, with numerous game-changing developments and achievements, set standards on the international market as well, and thus rapidly made a name for itself.

Wolfgang Frech took over the entire responsibility for the company from his father in 1965 when he became its managing partner. In the following decades, he set the company's systematic course towards globalisation. International assembly plants in the USA, China and Poland as well as more than 20 branches in many countries throughout the world now provide consultation and training services for our business partners, interruption-free spare parts supply and rapid-response customer support on site. The takeover of the diecasting division of Müller-Weingarten AG resulted in large-volume cold-chamber machines with locking forces of up to 48,000 kN being added to the already extensive product portfolio.

The FRECH management team has always been visionary, meaning that the need to offer complex diecasting cells was identified at an early stage. The FRECH Group thus has an unparalleled product portfolio alongside its expertise in the construction of technically unbeatable diecasting machines. Die technology with the associated engineering as well as excellent training in machine and process technology to ensure systematic knowledge transfer are the starting point. We can supply diecasting machines and complex, customized diecasting cells from a single source. To do this, we use the products from our subsidiaries Robamat and Meltec, who supply efficient furnace and temperature control technology. Thanks to VDS, vacuum systems are included in the FRECH Group product range and Spesima contributes automation solutions. The portfolio is rounded off by the complete digitalization of entire foundries by insightfabrix solutions, and the 100% FRECH service, which includes machine overhauls in addition to the traditional services, such as customer support, spare parts and replacement parts.

For us, sustainability is more than just a word.

## **Sustainability is a matter that is close to our heart.**

Ecologically responsible actions have therefore been an integral part of our values for many years. And it goes without saying that our environment and energy management system is certified.

Due to the systematic use of renewable energies and the purchase of carbon-neutral energies only, Oskar Frech GmbH + Co. KG was able to achieve carbon neutrality (Scope 1+2) as early as in 2023. At our main plants, we have examined the overall energy structure and have invested in PV systems, a combined heating and power plant and other resource-saving technologies.

Through the "avoidance and recycling instead of disposal" principle, we have been able to reduce the already good waste ratio by approximately 11% in the last few years.

We take sustainable business practises very seriously and invest every year in order to further increase our contribution to protecting the environment. Without an intact environment there can be no future – not for the human race nor for the flora and fauna. It is the irreplaceable foundation of our long-term success.

# Carbon neutrality

since 01.01.2023

**-10,7%** waste\*

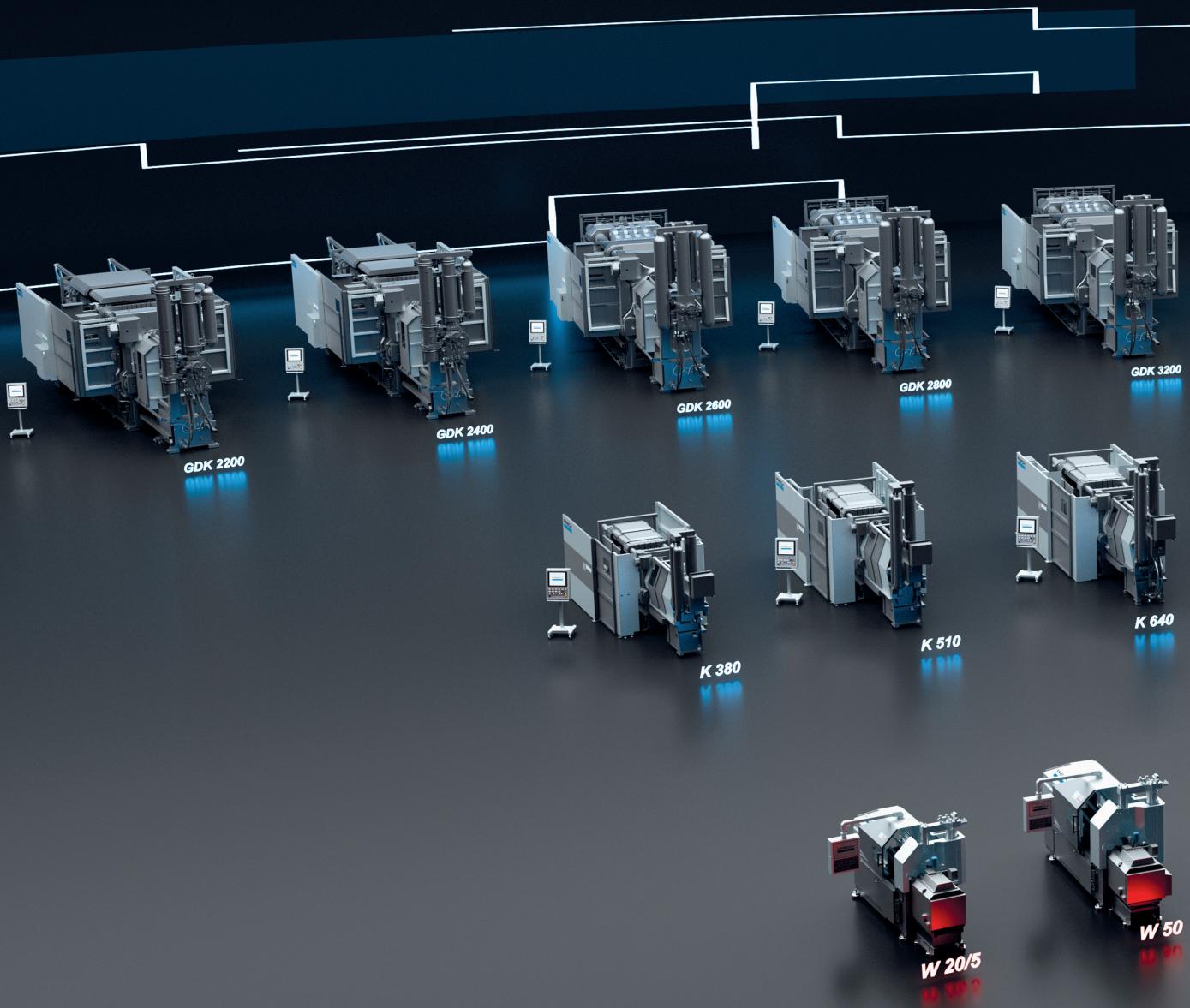
**approx. 810 MWh p.a.**  
of electricity generated by photovoltaic systems

Certification of our sites in accordance with

DIN EN ISO 14001  
DIN EN ISO 50001

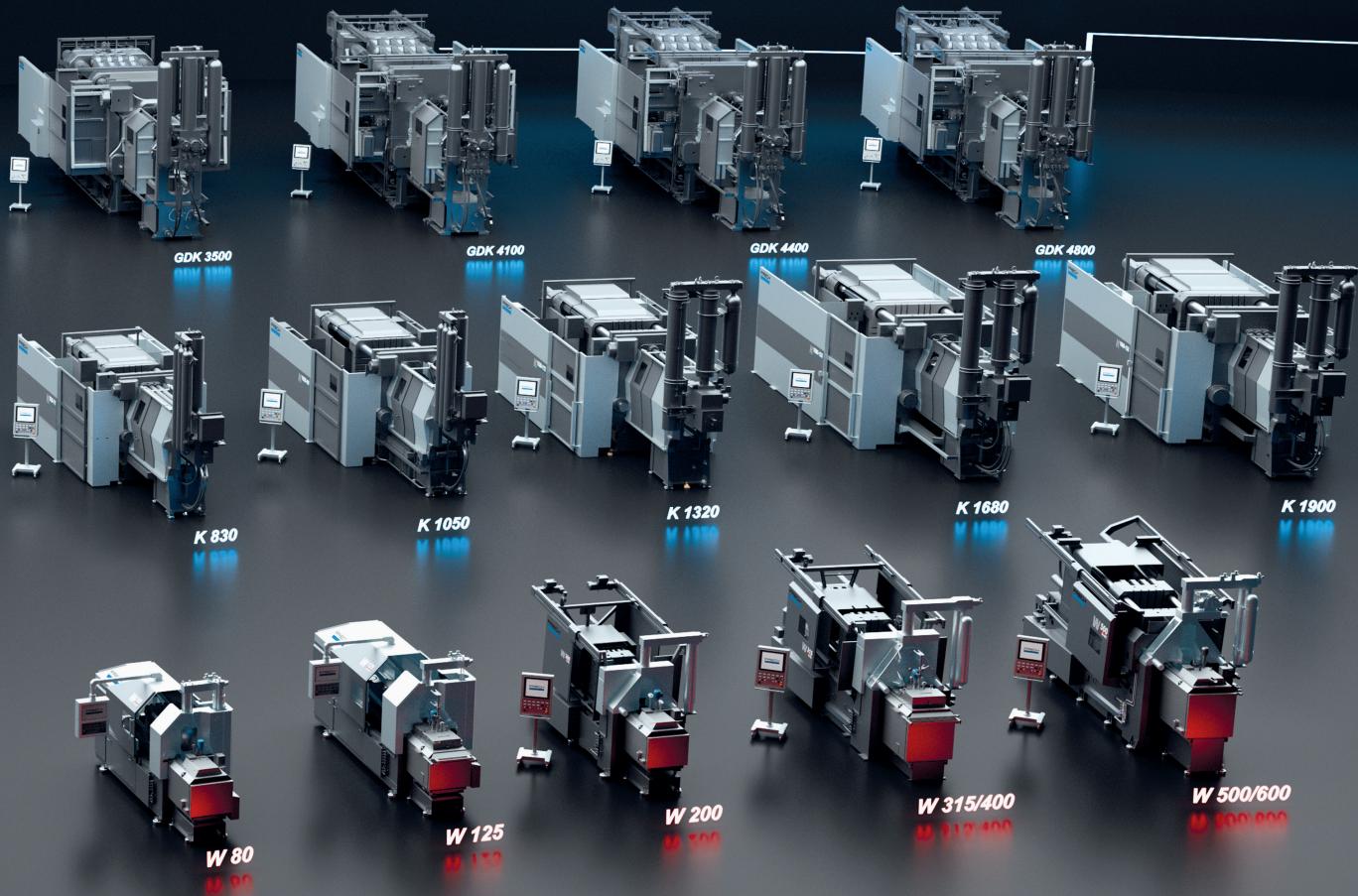
**-30,4%**  
energy consumption\*

\*Reference year 2022



OUR PORTFOLIO:  
IMPRESSIVE THROUGHOUT

**FRECH**



**THE ENTIRE RANGE.**

# STRONG PERFORMANCE FOR EVERY DIMENSION.

FRECH Cold Chamber Die Casting Machines focus on top levels of availability and are known for using resources sparingly. With locking forces from 3,800 kN to 48,000 kN and perfected mechanical 3-plate technology, we provide outstanding production systems that do exactly what they should – help our customers to become market leaders.



## One plus point after the other

- + Robust design for many years of service
- + Selected top-quality standard hydraulic/control components for maximum reliability and fast supply options worldwide
- + Modular and highly-accessible mechanical/hydraulic machine component construction for easy/fast repair in the event of a failure
- + Excellent transparency and in-depth diagnostics with regard to control systems (hydraulic diagrams, scopes, control workflow chart, diagnostics texts) for rapid error detection in common languages
- + Minimal use of hydraulic components for low TCO, mechanical 3-plate locking unit for 99.9% availability



Technical data

OEE = availability x speed x quality

### AVAILABILITY

Secures your production operation!

- ✓ **Fully automatic locking force setting:** monitoring with few inputs
- ✓ **Casting unit concept without check valve:** reduced downtime
- ✓ **Innovative hydraulics concept:** low-maintenance with reduced number of valves and hoses
- ✓ **Top quality components:** mechanical, electrical and hydraulic
- ✓ **Fast diagnostics:** scope function, service pages with interactive hydraulic and wiring diagrams
- ✓ **Detailed monitoring functions:** with informative warnings and failure messages
- ✓ **Comprehensible information:** for resolving failures quickly

### SPEED

Secures a high yield!

- ✓ **Cycle time reduction:** through shortened opening stroke
- ✓ **Dynamic movements:** through energy-efficient hydraulic drive
- ✓ **Cycle time optimization:** through analytics of detailed time and trend diagrams
- ✓ **Speed:** when opening and closing the die
- ✓ **Multi-cavity dies and structural components:** through large clamping surfaces
- ✓ **Optimized processes:** through interactions and synchronous movements of participating peripheral devices
  - Early dosing process
  - Early sprayer start
  - Synchronous movement of die and core pullers
  - Early release for start of removal
  - Cast part pre-monitoring
- ✓ **Short starting times:** through dynamic starting program

### QUALITY

Secures and increases your ratio of good parts!

- ✓ **Highly dynamic casting unit:** real-time controlled with self-optimized intensifier
- ✓ **Adaptation of casting capability:** through possibility to select from different casting unit sizes
- ✓ **Very short pressure rise times:** as a check valve is not needed
- ✓ **Top repeatability:** through high-quality components and systems with top production quality
- ✓ **Machine and process monitoring:** through extensive sensors
- ✓ **Diverse monitoring of process parameters:** by means of quality table, trend diagrams and SPC analysis

- ✓ **State-of-the-art service concepts:** online spare parts catalog and remote service with FRECH Eye for extremely fast assistance and excellent availability
- ✓ **High level of availability:** through stocks of spare parts and wearing parts
- ✓ **Skilled team of experts:** from knowledge transfer to production support

# STANDARDS CAN BE COMPLIED WITH OR REDEFINED.

Our Hot Chamber Die Casting Technology has been setting standards in the industry from the very outset. So that it stays this way, we always go one step further.

With technologically sophisticated machines, equipped with state-of-the-art assistance systems for semi-autonomous operation, we enable your staff to produce products of absolute top quality. You can rely on the proven FRECH quality – excellent reproducibility and dynamics, coupled with customization across the board, mean every requirement can be met.

	<b>AVAILABILITY</b> Secures your production operation!	<b>SPEED</b> Secures a high yield!	<b>QUALITY</b> Secures and increases your ratio of good parts!
<b>OEE = availability x speed x quality</b>	<ul style="list-style-type: none"> <li>✓ <b>Assistance systems:</b> the optimal machine settings with just a few clicks</li> <li>✓ <b>Innovative hydraulics concept:</b> low-maintenance with reduced number of valves and hoses</li> <li>✓ <b>Top quality components:</b> mechanical, electrical and hydraulic</li> <li>✓ <b>Fast diagnostics:</b> scope function, service pages with interactive hydraulic and wiring diagrams</li> <li>✓ <b>Detailed monitoring functions:</b> with informative warnings and failure messages</li> <li>✓ <b>Comprehensible information:</b> for resolving failures quickly</li> <li>✓ <b>SensiLock®:</b> fully automatic locking force and die protection setting with precise monitoring</li> <li>✓ <b>"Technology" ejector function package:</b> the intelligent and precise program for protecting the ejector</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Cycle time reduction:</b> through shortened opening stroke           <ul style="list-style-type: none"> <li>• Synchronous ejector and die opening movements</li> <li>• FDS® (FRECH-Dosing-System®) facilitates casting practically without the 1st phase</li> <li>• Stationary spraying</li> </ul> </li> <li>✓ <b>Dynamic movements:</b> through energy-efficient hydraulic drive</li> <li>✓ <b>Cycle time optimization:</b> through analytics of detailed time and trend diagrams</li> <li>✓ <b>Speed:</b> when opening and closing the die</li> <li>✓ <b>Multi-cavity dies:</b> through large clamping surfaces           <ul style="list-style-type: none"> <li>• With FGS® (FRECH-Gating-System®) dies and reduced runners for maximum cavity count</li> </ul> </li> <li>✓ <b>Optimized processes:</b> through interactions and synchronous movements of participating peripheral devices           <ul style="list-style-type: none"> <li>• Early sprayer start</li> <li>• Demolding control using camera system</li> </ul> </li> <li>✓ <b>Short starting times:</b> through dynamic starting program</li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Top repeatability:</b> through high-quality components and systems with top production quality</li> <li>✓ <b>Highly dynamic casting unit:</b> real-time controlled or as ShotStop variant with deceleration phase</li> <li>✓ <b>Machine and process monitoring:</b> through extensive sensors</li> <li>✓ <b>Innovations:</b> FDS® (FRECH-Dosing-System®) with actively switched valve in the gooseneck for top surface finishes and extremely high density</li> <li>✓ <b>Diverse monitoring of process parameters:</b> by means of quality table, trend diagrams and SPC analysis</li> <li>✓ <b>Assistance systems:</b> the best possible quality with just a few clicks</li> </ul>
<ul style="list-style-type: none"> <li>✓ <b>State-of-the-art service concepts:</b> online spare parts catalog and remote service with FRECH Eye for extremely fast assistance and excellent availability</li> <li>✓ <b>High level of availability:</b> through stocks of spare parts and wearing parts</li> <li>✓ <b>Skilled team of experts:</b> from knowledge transfer to production support</li> </ul>			

## One plus point after the other

- + The standard: the benchmark amongst the hot-chamber machines
- + Robust, sophisticated and extremely durable machine portfolio from 90 kN to 6,500 kN
- + Unique combination of high-tech and patented process innovations for the most demanding requirements
- + Intuitive, 1000-times trialled control system with revolutionary user assistance systems
- + Well-conceived energy concept from the furnace to the casting system, FRECH hot-chamber machines already meet the requirements of the future



Technical data



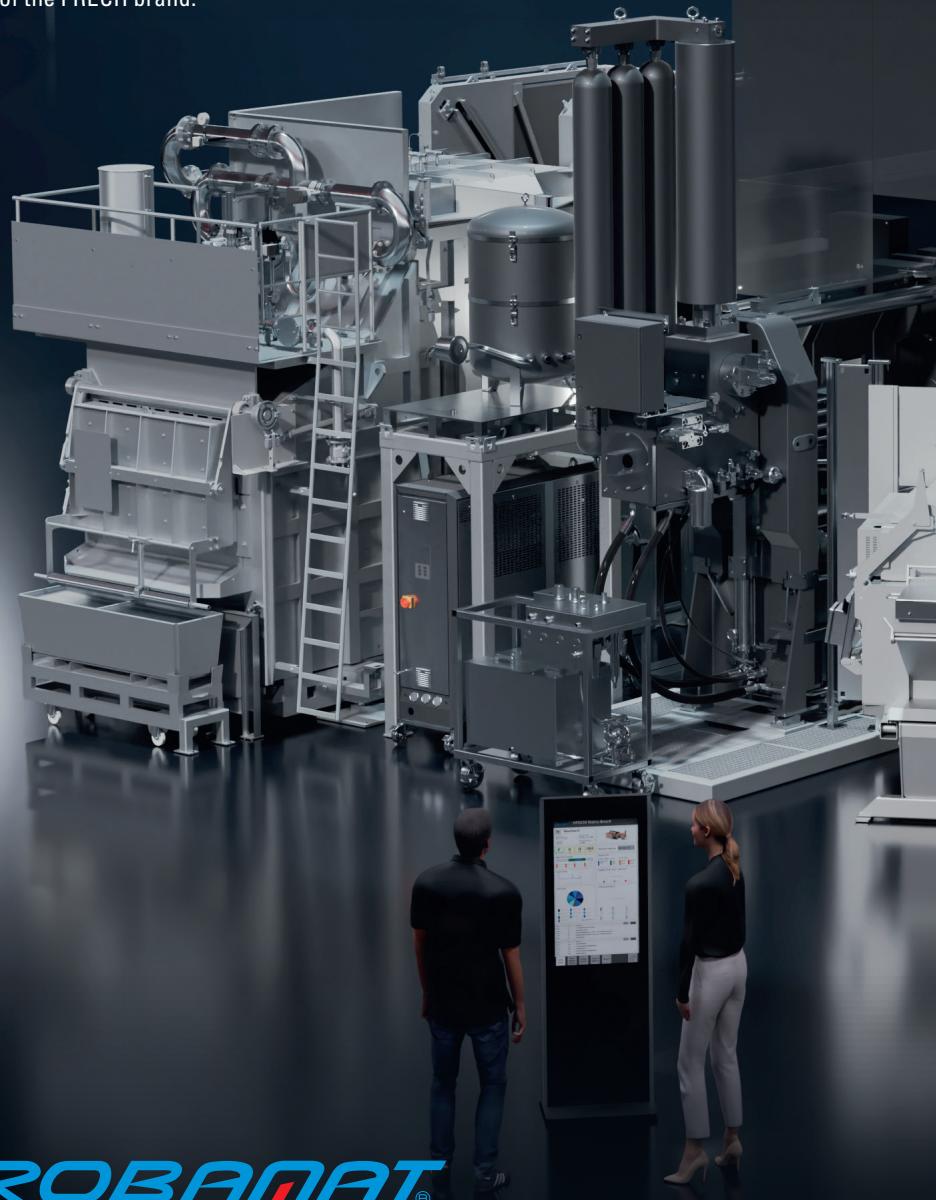
POOLED  
**EXPERTISE**  
IS CREATED



WHEN **TEAMWORK**  
**AND PASSION**  
COME TOGETHER.

# FRECH Group

We're better together. And we are particularly proud of that. The FRECH Group is the only company in the die casting industry that can offer everything from a single source, with products from its own corporate group. The benefits for our customers: clearly defined contact persons, no external interfaces and, in particular, no shifting responsibilities. With the most innovative products in the industry, we offer next-level turnkey casting cells. All of this comes with the superior quality promise of the FRECH brand.

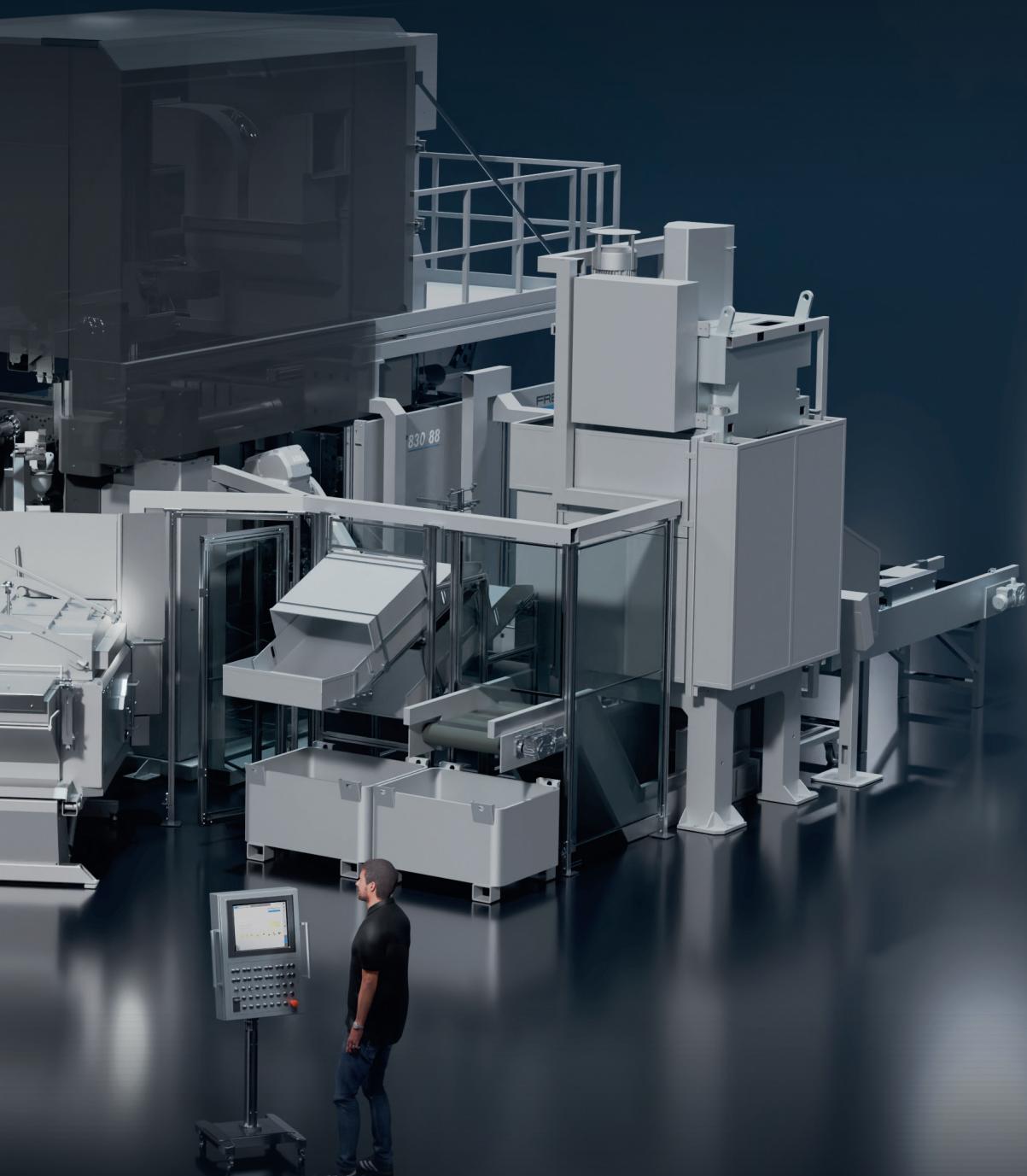


**GROBANAT**  
Automatisierungstechnik GmbH



**INSIGHTFABRIX SOLUTIONS**  
YOUR CHALLENGE / OUR PASSION

**VDS**



MELTEC®

 **SPESIMA®**

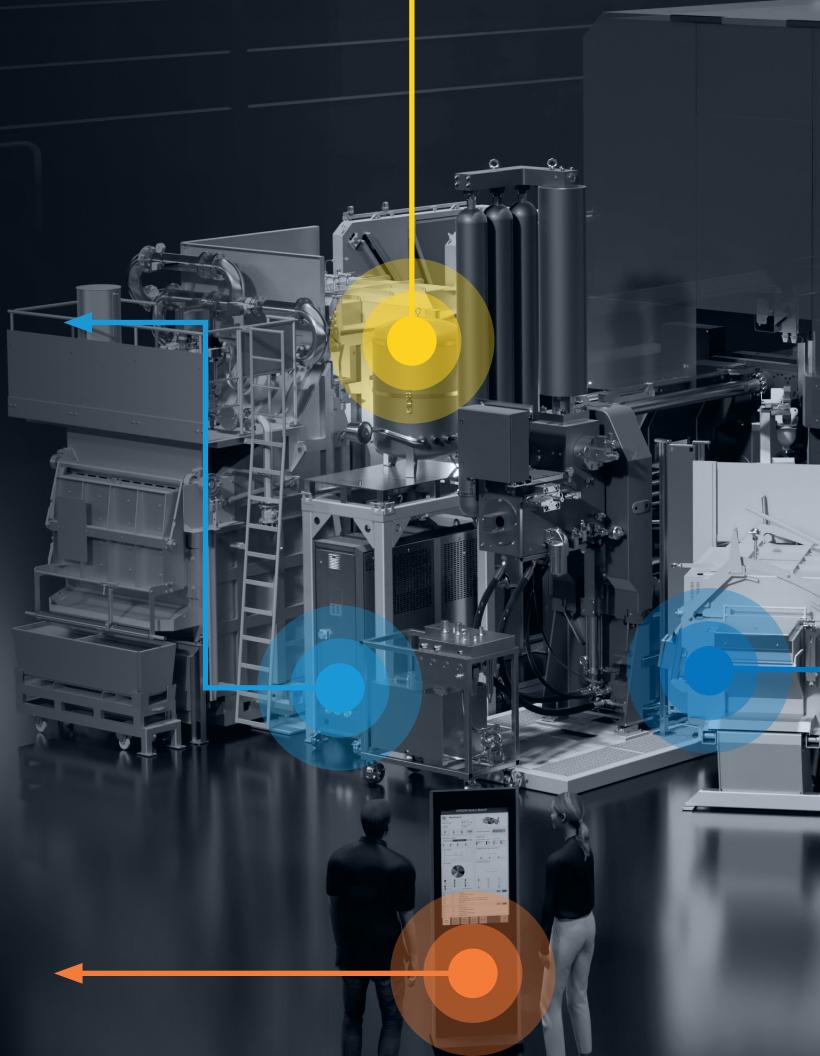
**CASTFEX**  
unlocking the potential of die casting



The foundry industry deals with air and gas porosity every day. This is exactly where the highly-experienced Swiss vacuum specialist comes into its own. Since 2013, VDS has enriched the product portfolio of the FRECH Group with vacuum systems of the highest level. Designing, constructing and adapting in line with specific requirements and always thinking one step ahead – these are the strengths of VDS.

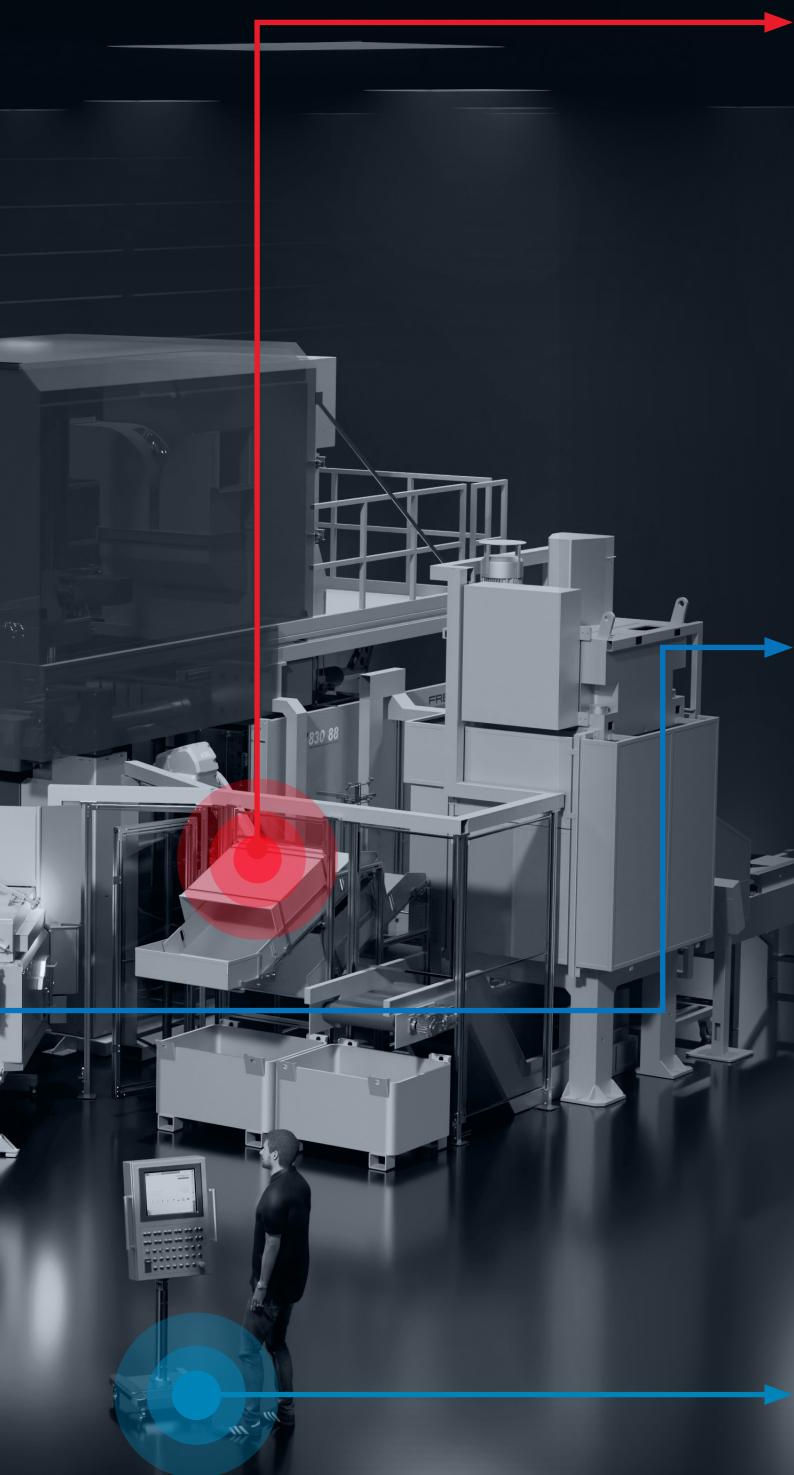


As a specialist for all temperature control needs, Robamat, headquartered in Austria, has been part of the FRECH Group since 1997. From the single-circuit system through to complex multiple zone temperature control systems for mega and giga casting, the perfect temperature can be found for every application. High-tech, high spirits, high quality and more than 40 years of experience – this is Robamat.



**INSIGHTFABRIX SOLUTIONS**  
YOUR CHALLENGE / OUR PASSION

insightfabrix solutions is the perfect partner for die casting foundries who want to achieve targeted improvement in terms of their efficiency, agility and sustainability through digitalization. With smartfoundry.solutions, the company provides a portfolio of software, hardware and auxiliary services – developed by diecasters for diecasters. The modular structure, as well as support through training courses and consulting, facilitate adaptations in line with individual needs. insightfabrix takes on the operation, maintenance and further development of the solutions – allowing the diecaster to focus on their core area of business.



The customized products from Spesima take diecasting cell automation to the next level. As part of the FRECH Group since 1997 and headquartered in Bulgaria, Spesima offers everything from robots and conveyor belts through to highly-customized solutions. Ingeniously simple and simply ingenious - this is where Spesima has made its name.



Meltec, one of the world's global leaders in producing furnace technology and headquartered in Austria, became part of the FRECH Group as early as the year 2000. Meltec rightly maintains this position through highly modern products and global innovations such as the aluminum vacuum dosing furnace. With intelligent solutions for the melting process, we strive to meet the global challenges and are not satisfied with merely talking about sustainability; instead, we put it into practice. Only those who do not settle for what has already been achieved will attain a better outcome. This is what Meltec is all about.



As a modern company with a dynamic, experienced team, we want to play an active role in shaping the die casting market – making innovations ready for series production and using our know-how to develop intelligent, efficient solutions. With approximately 40 employees, state-of-the-art facilities covering 3,000 m<sup>2</sup> and high-end machines from development, through production, to quality control, castFEX boasts the ideal framework for meeting your requirements.



# unlocked the potential of die casting

We make die casting-ready and future-proof components – efficiently and reliably. With state-of-the-art technology, in-depth process know-how and practical support, we ensure project goals are achieved, from the prototype to series production. In our Experience Center, we demonstrate diecasting's full potential and empower both beginners and experts to proficiently and confidently manage the entire process chain. As an innovation driver, we set new standards, turn developments into series-ready outcomes and create sustainable solutions that shape technological progress in the field of die casting.



## Transfer to Die Cast

We analyze your existing components, processes and applications and show you how complexity and production costs can be reduced through optimization and geometrical adaptations.

### One plus point after the other:

- + Many years of experience in the design and development of diecasting-compatible components
- + Support for material selection, taking into account your requirements in terms of strength, tolerances and surface quality
- + Target price analysis – economic viability check
- + Our patented small-batch kit system facilitates short production times and reduced costs
- + Production at our plant on state-of-the-art die casting systems with downstream mechanical processing
- + From quantities as low as approx. 200 pieces



## Prototypes

Series quality for prototypes used to involve high costs and a large amount of work. This problem is a thing of the past thanks to our patented small-batch kit.

### One plus point after the other:

- + Best possible results from the first cast part onwards thanks to detailed simulation studies of a wide variety of shot and ventilation designs
- + Extremely fast production times coupled with a minimum use of resources due to our patented small-batch kit
- + No limitations with respect to component complexity
- + Problem-free processing of special alloys
- + Quantities as low as 50 pieces are possible



## Series Applications

Scalable quantities for small, medium and large series. From the first cast part up to series production, we ensure stable workflows, reproducible results and the efficient use of resources.

### One plus point after the other:

- + State-of-the-art foundry technology from the FRECH Group and other renowned producers
- + Stable and high-quality production is ensured thanks to expert staff and foundry technologists from our own Academy
- + 6 separate melting furnaces and a preparation system mean that your projects can be produced trouble-free, even if very small quantities or special alloys are involved
- + In-house, downstream mechanical processing and heat treatment are facilitated
- + Quality assurance for component inspection during production is possible, e.g. spectographic analysis, x-ray, tactile measuring



Website



## Academy

Passing on knowledge and making technology tangible. At our Academy, reinforcing training courses with practical units in the Experience Center is a matter of course.

### One plus point after the other:

- + Extensive training course portfolio with online and in-person offerings
- + In-person training courses are held at our new training and technical center, using state-of-the-art equipment provided by the FRECH Group
- + Customized training courses can be carried out at your plant
- + Experience gathered since 1949 makes a key difference
- + Participants receive extensive training materials and certificates



## Innovations

As a pioneer in the field of die casting, FRECH laid the foundation for excellent die casting machines. As the implementation partner for the FRECH Group, we are the driving force behind the development of future-focused technologies, which we make ready for series production. Play an active role in shaping the future of die casting technology and, as a first mover, benefit from the latest diecasting technology and process findings at an early stage.

- + Hot runner – FRECH Gating System®
- + Special alloys, such as ZEP 1510
- + Conformal cooling
- + Lost core
- + Aluminum hot chamber die casting method
- + Melcon® semi-solid





# THE EXPERT FOR TOP-CLASS FURNACE AND DOSING TECHNOLOGY.

Meltec is one of the world's global leaders in producing furnace and dosing technology for the die casting industry and offers the melting technology for the three main alloys: aluminum, magnesium and zinc.

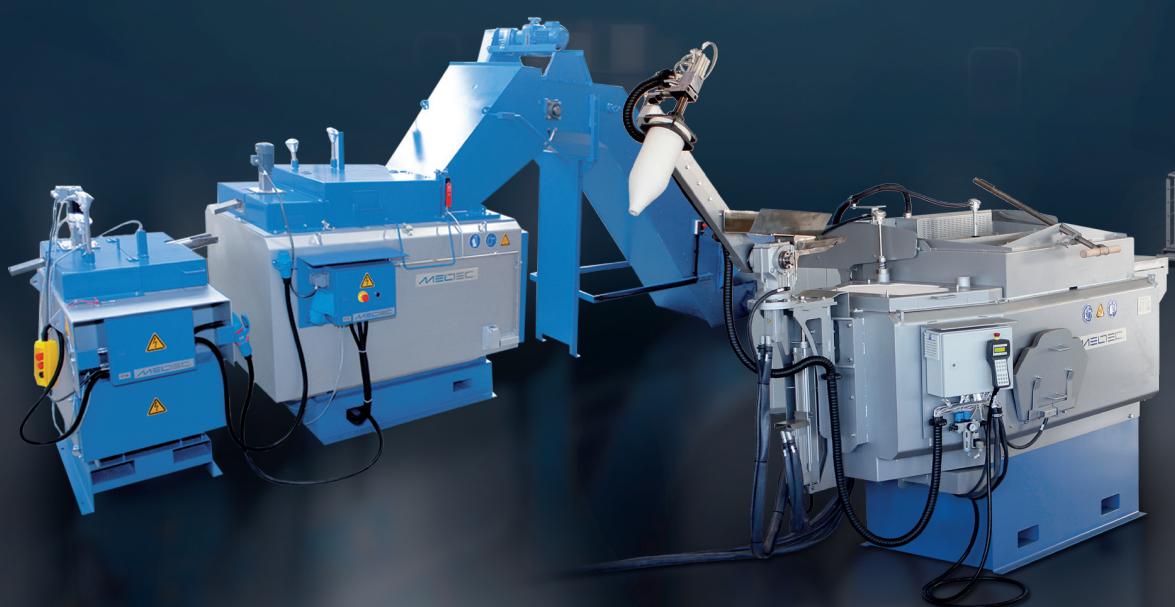
Meltec rightly maintains this position through highly modern products such as the aluminum vacuum dosing system. With intelligent solutions for the melting process, Meltec strives to meet the global challenges and is not satisfied with merely talking about sustainability and energy efficiency; instead, it puts it into practice. Only those who do not settle for what has already been achieved will attain a better outcome. This is what Meltec is all about.

## One plus point after the other

- + Excellent dosing accuracy due to precise weight measurement
- + Melt collection under the surface of the bath
- + Excellent melt quality due to less air contact during transport
- + Improved component quality due to a reduction of oxides
- + Less temperature loss as the container is closed
- + Energy efficient and economical process



[Website](#)





# MODULAR DIGITALIZATION SOLUTIONS FOR DIE CASTING FOUNDRIES

Robamat Automatisierungstechnik GmbH has offered an extensive portfolio of highly modern temperature control solutions for the diecasting industry since 1979. Our product range includes oil and water units, heating and cooling systems, and die cleaning units.

A particular highlight is the advanced MZT multi-zone system that facilitates even heat distribution and a high level of process stability through precise temperature management. This concept improves the efficiency and quality of your production systems significantly. Also, the integrated leak detector ensures a safe production process.

With our expertise and innovativeness, we help you to take your production processes to the next level. Put your trust in Robamat – your partner for reliable and future-focused temperature control technology.

## One plus point after the other

- + Better and consistently reproducible quality
- + Longer die service life
- + Reliability and efficiency
- + Less spraying agent consumption
- + Shorter cycle times
- + Less risk of core overheating
- + Standardized casting process
- + Precise temperature management
- + Worldwide sales and service network
- + Innovative technology through continuous research and development
- + Customer-specific solutions
- + Sustainability and cost effectiveness



Website





# VACUUM TECHNOLOGY PAR EXCELLENCE.

VDS SA offers the diecasting and injection moulding industry innovative vacuum solutions that combine excellent flexibility with efficiency. The modular ProVac® systems can be optimally adapted to various cast part sizes. Excellent process reliability is ensured through durable, specially-developed valves and stable vacuum tanks. Thanks to integrated control solutions and IoT interfaces, VDS facilitates precise control and trouble-free integration into Industry 4.0 environments, meaning that downtimes are reduced and efficiency is increased.

Swiss precision ensures that all systems comply with the stringent quality standards and thus support sustainable production. From installation to maintenance, you benefit from individual service and the many years of experience of the VDS specialists.

## One plus point after the other

- + Modular vacuum systems for maximum flexibility thanks to ProVac® FLEX vacuum systems that facilitate flexible adaptation in line with various production requirements through modular tanks from 200 to 1,000 liters
- + Innovative valve technology for increased efficiency through ULTRA SONIC valves with the largest evacuation cross section coupled with very small dimensions
- + Integrated maintenance solutions for reduced downtimes thanks to the all-in-one maintenance system
- + Simple integration into existing production lines
- + Expert customer service and global support



Website





# TURNKEY AUTOMATION SOLUTIONS.

Spesima stands for high-performance automation solutions that meet the most exacting industrial demands. With a comprehensive portfolio of innovative extraction robots, spraying and dosing devices, conveyors, cooling systems and other customer-specific peripherals, the company offers cutting-edge technology for the diecasting industry and much, much more. Focusing on technical excellence and customization, Spesima is a valuable partner for optimizing production processes. The core areas of expertise are in the development of robust and flexible systems that meet the increasing demands of modern industry. Spesima is dedicated to empowering its customers to stay competitive and to continually improve their capabilities in a fast-paced market.



## One plus point after the other

- + Ready to use solutions with immediate integration into production lines
- + High reliability and long-lasting durability
- + Intuitive operation and low maintenance design
- + Customer-specific design with excellent precision and flexibility
- + Practice-focused training
- + Remote support
- + Worldwide sales and service network



Website





**INSIGHTFABRIX SOLUTIONS**  
YOUR CHALLENGE / OUR PASSION

# TAILORED DIGITALIZATION- SOLUTIONS FOR FOUNDRIES.

With smartfoundry.solutions powered by insightfabrix solutions, our customers are given matching digitalization solutions to enable them to improve efficiency in their foundry.

smartfoundry.solutions are modular software applications, services and industry-ready hardware solutions developed by diecasters for diecasters. The range of services includes the operation and administration of the system components, maintenance of the hardware and software and the management of IT security. The product and service portfolio ranges from the individual sensor, through interfaces with the production systems and hybrid database systems, to the cloud components and the intuitive applications. Due to the modular structure of the product and service range, it is possible to respond to the specific requirements of the individual foundries.

The product and service portfolio is completed by training and consulting offerings to facilitate successful foundry digitalization and to ensure that, together, the highest possible level of efficiency, agility and sustainability can be continually achieved.

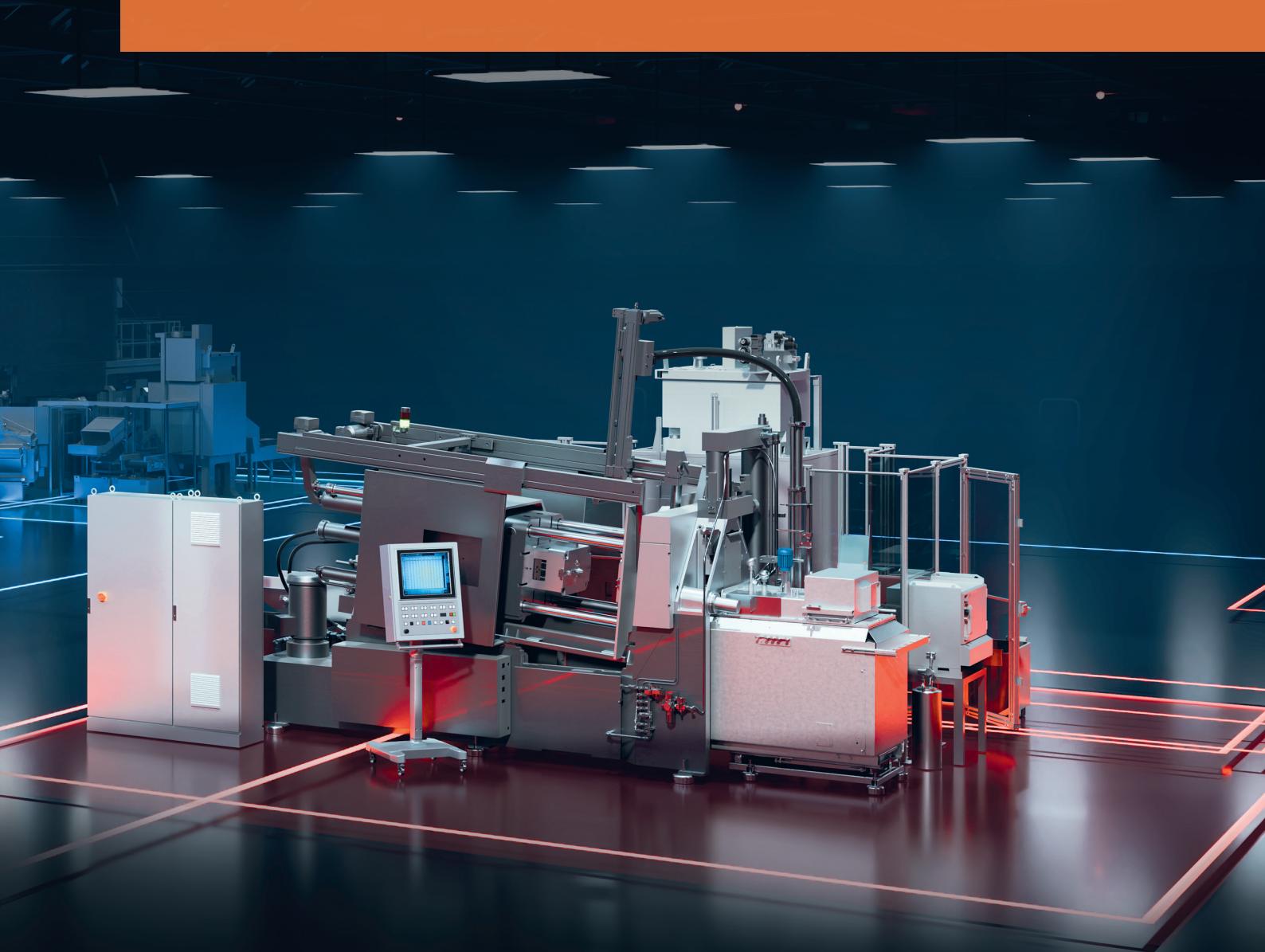


## One plus point after the other

- + Applications and services developed by diecasters for diecasters
- + Optimization of availability, efficiency and quality, as well as improvement of the foundry's flexibility
- + Applications and systems optimized for various roles and usages
- + Functions for the analysis and improvement of sustainability and of the carbon footprint
- + Software, hardware and services as a modular solution package designed to meet the needs of the diecasting foundry
- + Data capture, processing and analysis from the sensor through to the cloud
- + Operation, maintenance and monitoring of the hardware and software components by insightfabrix
- + Single-site and multi-site technology for individual enterprises and corporate groups
- + Assistance through support, training courses and consulting before, during and after the launch
- + Fair subscription model meaning a low level of initial investment and maximum planability
- + Ongoing optimization and further development without additional costs



Website



# 100% FRECH SERVICE FOR A LIFE-LONG PARTNERSHIP

## We love service!

For us, service is not a faceless endeavor. There is no waiting in line or constantly changing contact persons. Service means trust. Your personal contact persons with their high level of technical expertise provide you with customized support. Our Service department is closely involved as early as during the assembly of your diecasting machines and cells. We will be at your side from the delivery of the new FRECH technology to your plant, through commissioning and many years of production, to the last production cycle. This is 100% FRECH service that makes all the difference.



Website



**Quality signed and sealed:**  
more than 7,500 FRECH spare parts  
are readily available at any time.



**Ready for the second life cycle:**  
facilitated by FRECH  
modernization.



**Expert repairs:**  
economically expedient and  
ecological valuable.



**First-rate customer service,**  
**the way you want it:** any time,  
anywhere and with rapid response.



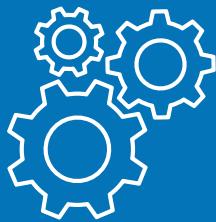
**Starting off into the high-tech**  
**world of FRECH:** top-quality second-hand  
machines, available immediately.





## Spare parts

–  
availability &  
quality signed  
and sealed



Irrespective of whether you need original spare parts or wearing parts – our global logistics network means that the FRECH spare parts service is your reliable partner when it comes to ensuring maximum machine availability.

You also receive customized solutions to optimize your machine workflows as far as possible.

### Your benefits at a glance

- **Comprehensive availability:** more than 7,500 spare parts available immediately from inventory
- **Individual delivery:** minimized downtimes due to flexible shipping options
- **Top quality:** FRECH original parts – always state-of-the-art
- **12-month guarantee:** on all FRECH original spare parts

## Modern- ization

–  
more than just  
standard solutions



With customized adaptations and optimizations, FRECH modernization opens up new potential for your foundry. Instead of focusing on standardized solutions, we concentrate specifically on your individual requirements – for maximum efficiency and the optimum performance of your existing machines, ready for the coming years:

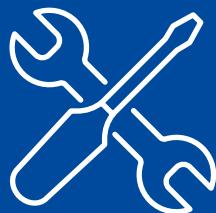
- Adaptations and optimizations to specific components or assemblies
- Individual consultation, customized concepts and in-depth expertise
- Machine conversions directly on site at your premises or at our FRECH plant

### Your benefits at a glance

- More potential for your production processes
- Individual solutions matched perfectly to your specific needs
- Complete service provision from the initial idea through conversion to the successful approval of your machine

## Repairs

—  
Benefit from expert service



The FRECH repair team provides economically expedient repairs of virtually all viable components in order to ensure long-term production support. You can thus minimize downtimes and maximize efficiency. We also offer repair exchanges for many high-value machine components, such as valves, pumps, controls and generally overhauled parts.

### Your benefits at a glance

- **Sustainable reconditioning:** efficient repairs for the economic operation of your machines
- **Top quality:** the use of original spare parts and extensive quality tests ensure that the components and assemblies are completely functional
- **Short cycle times:** optimized processes ensure fast repairs

## Customer service

—  
comprehensive service provision for your products



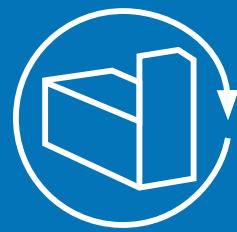
Our top priority is solving your problems and meeting your needs. We thus respond quickly to your issues and offer suitable solutions. Our qualified team has extensive know-how that is used to provide expert support. Thanks to our proven remote service, we solve cases quickly and at low cost – without long waiting times. Our experts analyze your issues online and provide immediate assistance. With a high level of technician availability and a global service network, we are there for you wherever you are – on-site or online. From commissioning through maintenance and inspection to repairs, we accompany you throughout the entire life cycle of your machines.

### Your benefits at a glance

- Fast solutions
- Easy-to-reach
- Fast and low cost troubleshooting through our online service
- High level of service technician availability
- International service network
- Modern service concepts

## Second-hand machines

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FRECH second-hand machines are a great choice



Well-served with FRECH second-hand machines. It is possible to start off into the high-tech world of FRECH even with a small budget thanks to original FRECH second-hand machine technology. Due to our many years of experience, we know exactly which machines meet your requirements. With our extensive range of second-hand machines, we can respond quickly and thus provide rapid assistance for virtually every requirement.

### Your benefits at a glance

- Energy and material efficiency
- Low cost solution
- All-round support
- Customer-specific needs can be met
- Extensive stocks mean short delivery times



[www.frechgroup.com](http://www.frechgroup.com)

Printed in Germany www.kerler.info Version EN 01.2026 Technical changes reserved