CASTFEX
unlocking the potential of die casting

Seminar program

2027

2027 Event Schedule

CASTFEX
unlocking the potential of die casting

Operations and Process Knowledge

Face-to-Face seminar

» **Process Technology, Latest Developments,** Die Design and Consulting Service. Hot Chamber and Cold Chamber
» Basic Knowledge for Die-Cast Product Customers and Users

Online seminar

» Temperature Parameters Hot Chamber
» Three Important Screen Pages Hot Chamber
» Three Important Screen Pages Cold Chamber

Die Design and Consulting

Face-to-Face seminar

» Process Technology, Latest Developments, **Die Design and Consulting Service**. Hot Chamber and Cold Chamber

Online seminar

» Thermal Die Design „Compact“ Hot Chamber and Cold Chamber
» Geometric Die Design „Compact“ Hot Chamber and Cold Chamber
» Mathematical Die Design „Compact“ Hot Chamber and Cold Chamber
» Interpreting Die Filling Simulations „Compact“ Hot Chamber and Cold Chamber

Maintenance and Troubleshooting

Face-to-Face seminar

» Maintenance of the Hot Chamber Die Casting Machine

Online seminar

» Maintenance „Compact“ of the Hot Chamber Die Casting Machine

Individual Training and Consulting

» We would be happy to develop a training program tailored specifically to your needs. Which can take place online, at our location in Winterbach, or even at your facility. We’ll tailor it entirely to your needs.

2027 Event Schedule

castFEX
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The castFEX Academy combines theoretical and practical sessions at our modern training center, a technical facility equipped with six hot- and cold-chamber machines and a production foundry. In this way, we impart in-depth, immediately applicable die-casting expertise, supported by customized training, comprehensive documentation, and the experience of directly involved experts and external partners. A particular advantage for participants is that they can immediately apply what they've learned right here at our facility. For example, they can verify the effects of parameter variations directly using production-grade quality assurance equipment such as X-ray technology.

February - April 2027

26th February 2027
Maintenance „Compact" of the Hot Chamber Machine

15th April 2027
Three Important Screen Pages Cold Chamber

27th April 2027
Temperature Parameters Hot Chamber

29th April 2027
Three Important Screen Pages Hot Chamber

Face-to-Face Online Hot Chamber Cold Chamber

June - November 2027

14th - 16th June 2027
NEW: Basic Seminar on Die-Casting for Customers and Users

28th September - 1st October 2027
Process Technology, Latest Developments, Die Design and Consulting Service. Hot Chamber and Cold Chamber

14th October 2027
Three Important Screen Pages Cold Chamber

4th November 2027
Temperature Parameters Hot Chamber

5th November 2027
Three Important Screen Pages Hot Chamber

On Request:

- Thermal Die Design „Compact" Hot and Cold Chamber
- Geometric Die Design „Compact" Hot and Cold Chamber
- Mathematical Die Design „Compact" Hot and Cold Chamber
- Interpreting Die Filling Simulations „Compact" Hot and Cold Chamber
- Maintenance of the Hot Chamber Die Casting Machine

Our team of trainers and experts



Ulrich Keller
Training and Consulting



Frank Balbier
Training and Consulting



Marius Stilz
Technical Center



Robin Koppenhöfer
Technical Center



Ronny Aspacher
Mechanical Design

Member of the FRECH Group

We're better together. And that's exactly what we're particularly proud of. As the only company in the die-casting industry, the FRECH Group can offer everything from a single source using products from within our own corporate group. The benefits for our customers: clear points of contact, no external interfaces, and—above all—no shifting of duties and responsibilities. With the industry's most innovative products, we offer next-level turnkey die-casting cells.
And all of this comes with the FRECH brand's overarching quality promise.

Our goal and our mission are not only to be a full-fledged member of the Frech Group, but also to create added value as a partner for manufacturing applications by working closely with Frech and all partners within the Group, serving as a functional showroom and a hub for knowledge transfer regarding the Frech Group's technologies and services.

Process Technology, Latest Developments, Die Design and Consulting Service
Hot Chamber and Cold Chamber

Target Group:
Operators, die designers, foundry specialists and quality staff

Prior Knowledge:
Basic die casting knowledge is needed

Pro

Day 1 and 2 - Process Days:

- Shot End, Casting Parameters
- Adjustment Possibilities, Quality Control
- Casting Defects in Theory and Practice
- Casting Experiments
- Die Temperature Control

Day 3 and 4 either Die Design and Consulting or Deep Practical Session:

Die Design and Consulting:

- Runner, Gate Design, Flow
- Engineering, Ventilation
- Simulation Interpretation
- Mathematic Calculations
- Consultation Service

Deep practical session for the hot chamber process

- Practical set up procedure of a new die with and without „The Assistance“
- How to set a brake
- Temperature check
- The injection graphics
- Cycle time optimisation

Notes
Participants will individually be divided in Hot and Cold Chamber groups. Please advice when booking. For day 3 and 4 we offer 2 topics in parallel. Please make up your mind which one you would like to attend. Participants are invited to bring die casting parts incl. runner to the seminar.

Event Date: 28th September- 1st October 2027
Morning 9 a.m.

Registration

Prices
Costs per person: €2680.00

Prices are subject to 19% VAT - multi-attendee discounts are available

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NEW: Basic Knowledge for Die-Cast Product Customers and Users

Target Group:
Purchasing managers, Project managers, Quality assurance staff (customers and end-users; Design engineers, Anyone involved with die-casting and die-cast components

Prior Knowledge:
Not needed

Basic

In addition to the theoretical fundamentals, the seminar includes practical training sessions:

» The design and function of a die-casting die are explained in our toolmaking department
» In our aluminum production foundry, equipped with cold-chamber die-casting machines, the process chain from melting to the finished casting is explained. The influence of individual process parameters is illustrated using a component.
» The hot-chamber die-casting process using a zinc alloy is demonstrated in our technical center.

Inhalte:

» Fundamentals of die-casting technology, definitions and terminology
» Distinction between hot-chamber and cold-chamber processes
» An overview of typical alloys used in die-casting
» Standards and guidelines
» Common testing methods
» Component defects and their possible causes
» Cost analysis of die-cast parts
» Emissions in die-casting – an overview
» What is required to manufacture components using the die-casting process: A component suitable for die-casting, the die, melting of alloys, dosing systems, the die-casting machine, die spraying systems, temperature control, automation, auxiliary materials and consumables,

Event Date: 14th - 16th June 2027
Morning 9 a.m.

Registration

Prices

Costs per person: €2380.00

Prices are subject to 19% VAT - all additional participants from the same company receive a 10% discount.

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Temperature Parameters Hot Chamber

Target Group:
Machine operators, machine setters, quality management staff, tool makers, Die Designers

Prior Knowledge:
Not needed

Basic

Content:

- Quality-related temperature parameters in hot chamber die casting, their effects and the systematic procedures for optimization
- Avoiding cold flow and bubbles with correct temperatures
- Influence of temperature parameters on cycle time
- Freezing nozzle tips: Effects and troubleshooting
- Sprue bush and distributor cooling
- Die preheating, tempering and cooling
- Tempering with water or/and oil
- Correct selecting and connecting thermal connections with pipes, hoses and couplings

1. Event Date: 27th April 2027
Duration: 3 hours
Registration

2. Event Date: 4th November 2027
Duration: 3 hours
Registration

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Three Important Screen Pages Hot Chamber

Target Group:
Machine operators, machine setters, quality management staff

Prior Knowledge:
Not needed

Basic

Content:

- Together with the injection graphic, the casting parameter calculation is required for correct profile input
- Setting of 1st phase speed
- Setting of 2nd phase starting point and speed
- Identifying the braking point for ShotStop and RC machines
- Monitoring of the nozzle tip with regard to freezing zinc (P0)
- Positioning of the limit lines for correct visualization of the casting process
- Monitoring of a constant casting process using the limit lines
- Reading, understanding and interpreting the injection graphic

1. Event Date: 29th April 2027
Duration: 3 hours
Registration

2. Event Date: 5th November 2027
Duration: 3 hours
Registration

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Three Important Screen Pages Cold Chamber

Target Group:
Machine operators, machine setters, quality management staff

Prior Knowledge:
Not needed

Basic

Content:

- Together with the injection graphic, the casting parameter calculation is required for correct profile input
- Setting of 1st phase speed
- Setting of 2nd phase starting point and speed
- Identifying the braking point
- Adjusting the final pressure
- Positioning of the limit lines for the correct visualization of the casting process
- Monitoring a constant casting process using the limit lines
- Reading, understanding and interpreting the injection graphic

1. Event Date: 15th April 2027
Duration: 3 hours
Registration

2. Event Date: 14th October 2027
Duration: 3 hours
Registration

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Die Design and Consulting

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Process Technology, Latest Developments, **Die Design and Consulting Service**
Hot Chamber and Cold Chamber

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Prior Knowledge:
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Pro

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Morning 9 a.m.

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Prices

Costs per person: €2680.00

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Thermal Die Design „Compact“ Hot and Cold Chamber

Target Group:
Developers, die designers, technologists, quality management staff

Prior Knowledge:
Not needed

Basic

Content:
- Dimensioning and design of tempering channels
- Determination of the necessary capacity of heating and cooling units
- Contour-based tempering completes classic tempering systems

Note:
In addition to this online module we offer 2 further modules for geometric and mathematical die design. As an alternative or in addition we offer our Hot-Cold Chamber Process Technology face-to-face seminar.

Event Date 2027: On Request
Duration: 3 hours

Request

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT.

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Geometric Die Design „Compact“ Hot and Cold Chamber

Target Group:
Developers, die designers, technologists, quality management staff

Prior Knowledge:
Not needed

Basic

Content:
- Geometric design of the runner and gating system
- Sensible part placement and gate design
- Showing of venting possibilities
- We use die filling simulation as a modern auxiliary tool

Note:
In addition to this online module we offer 2 further modules for mathematical and thermal die design. As an alternative or in addition we offer our Hot-Cold Chamber Process Technology face-to-face seminar.

Event Date 2027: On Request
Duration: 3 hours

Request

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Mathematical Die Design „Compact“ Hot and Cold Chamber

Target Group:
Developers, die designers, technologists, quality management staff

Prior Knowledge:
Not needed

Basic

Content:
- Cross-section calculations with Excel forms
- Calculation of the required locking force
- Calculation of theoretical and practical casting volume
- Calculation of casting capacity, flow rates and pressures
- Calculation of casting parameters such as filling time, velocities etc.

Note:
In addition to this online module we offer 2 further modules for geometric and thermal die design. As an alternative or in addition we offer our Hot-Cold Chamber Process Technology face-to-face seminar.

Event Date 2027: On Request
Duration: 3 hours

Request

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Interpreting Die Filling Simulations „Compact“ Hot and Cold Chamber

Target Group:
Developers, die designers, technologists, quality management staff

Prior Knowledge:
Not needed

Basic

Content:

- The main objectives of a simulation
- Presentation of results: as movie, image or statistic
- What parameters can a simulation show?
- Many evaluations show the same content in different result representations
- What a simulation cannot do
- How much simulation is necessary?
- How is a simulation created?
- The simulation progress in 4 milestones

Event Date 2027: On Request
Duration: 3 hours

Request

Prices:
Costs per person: €520.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Maintenance of the Hot Chamber Die Casting Machine

Target Group:
Maintenance personnel, foundry planners

Prior Knowledge:
Basic technical understanding

Pro

Content:

- Safety during maintenance is the top priority
- Organize maintenance according to checklist
- Determine the mechanical, hydraulic and electrical condition of the components during a virtual tour around the machine
- Tips on filter replacement
- Check hydraulic hoses and initiate the necessary measures
- Waterglycol, taking samples, but correctly
- Screen pages for maintenance

Event Date: On Request

Registration

Prices:
On Request

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Maintenance „Compact“ of the Hot Chamber Die Casting Machine

Target Group:
Maintenance personnel, foundry planners

Prior Knowledge:
Basic technical understanding

Pro

Content:

- Safety during maintenance is the top priority
- Organize maintenance according to checklist
- Determine the mechanical, hydraulic and electrical condition of the components during a virtual tour around the machine
- Tips on filter replacement
- Check hydraulic hoses and initiate the necessary measures
- Waterglycol, taking samples, but correctly
- Screen pages for maintenance

1. Event Date: 26th February 2027
Duration: 4 hours

Registration

Prices:
Costs per person: €690.00 per license (up to 6 users per license)
Prices are subject to 19% VAT

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Individual Training and Consulting

As individual as the requirements and levels of knowledge of your employees may be, our training programmes can be tailored precisely to meet their specific needs.

Whether process expertise, die design, machine maintenance or other topics relating to die casting, castFEX will develop a comprehensive, customised training concept for you. Together, we define the objectives, identify the target group and individually determine the format (online or in-person) and venue.

The following considerations can help you choose the right training location:

Advantages of training at castFEX:
» Away from day-to-day work
» No interruptions during the training, allowing participants to focus fully on the content
» No production machine needs to be taken out of operation
» Dies and die casting machines are available exclusively for training purposes, allowing limits to be tested as well
» Off-site training is often perceived by employees as a special sign of appreciation

Advantages of conducting the training at your site:
» Training on your die casting machines, peripheral equipment and dies – ideal for focusing on quality and cycle-time optimisation
» No travel or accommodation costs for training participants
» Opportunity to temporarily involve additional personnel in the training

Whichever option you choose, our experts will be fully available to you, bringing extensive expertise and focused support.

We look forward to receiving your inquiry

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General Information

castFEX
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1. Registration and Booking of Fee-Based Events
Registration is completed using the relevant registration form or directly by email (academy@castFEX.com). Upon request, we will be pleased to provide you with an individual quotation. By registering, you submit a binding offer to participate. A contract is concluded upon our booking confirmation.
For multiple registrations from the same company, discounts may be granted where these are expressly stated in the respective seminar description.

2. Participation Fees and Services
The applicable participation fees can be found in the relevant description. All prices are exclusive of the applicable statutory value-added tax. The participation fee includes the services specified in the relevant description. In particular, travel, accommodation and other personal expenses are not included.
For online seminars, the agreed fee generally applies per access account. Unless otherwise agreed, up to six persons named in advance may participate via one access account.

3. Invoicing and Payment
Invoices are issued after the event has taken place. Invoices are payable without deduction within 14 calendar days of the invoice date.

4. In-Person Seminars
In-person seminars generally take place at castFEX in Winterbach. Should a change of venue become necessary, we will inform registered participants in good time. Information regarding travel directions, start time, schedule and, where applicable, recommended hotel options will be provided with the booking confirmation. Hotel bookings and the organisation of travel to and from the venue are generally the responsibility of the participants.

The following additional provisions apply to face-to-face seminars:
Events at castFEX: Participants acknowledge the applicable safety requirements and the safety briefing provided at the beginning of the event and undertake to comply with them.

Events at the customer's premises: castFEX personnel are authorised to conduct a safety check of the work environment and machinery before practical activities begin. castFEX will only commence work on customer machinery once this safety check has been successfully completed and the operating conditions have been assessed as safe.

5. Online Seminars via Microsoft Teams
Our online seminars are conducted via Microsoft Teams. Access details or the participation link will be sent in good time before the event begins to the email addresses you have provided. Please provide us with the names and email addresses of all participating persons no later than five working days before the start of the event. Access details are personal and may not be passed on to third parties.

Participants are responsible for checking the technical functionality of their devices, internet connection, and audio and video settings in good time before the event begins. We recommend joining the session approximately five minutes before the event starts.

6. Materials, Certificates of Participation and Recordings
Materials will be provided in digital or printed form. All content, including digital files, presentation slides and exercise sheets, is protected by copyright (Copyright © castFEX GmbH & Co. KG). Without prior written permission, this material may not, in whole or in part:
be copied, scanned or reproduced digitally; be made available on internal or external networks (e.g. intranet, internet or cloud systems); or be used as training data for artificial intelligence (AI) systems (Section 44b German Copyright Act – UrhG). Unauthorised use may result in criminal consequences.

Certificates of participation will be issued or transmitted digitally following full participation in fee-based seminars.

7. Cancellation
Cancellation is free of charge up to 14 calendar days before the start of the event. The following rules apply to later cancellations:

13 to 7 calendar days before the start of the event: 50% of the participation fee;
from 6 calendar days before the start of the event, in the event of non-attendance or failure to log in: 100% of the participation fee.
A suitable substitute participant may generally be nominated free of charge, provided prior notice is given before the event begins. For online seminars, the substitute participant must be named in sufficient time before the start so that the access details can be adjusted accordingly.

Any statutory right of withdrawal for consumers remains unaffected.

8. Changes, Postponements and Cancellations by castFEX
We reserve the right to postpone events for good cause, change the venue, change the format from face-to-face to online, or cancel events. This applies in particular in the event of insufficient participant numbers, illness of speakers, technical disruptions, force majeure or comparable circumstances beyond our control.

Registered participants will be informed without delay. In the event of cancellation by castFEX, any participation fees already paid will be refunded in full. Further claims, in particular for reimbursement of travel, accommodation or other consequential costs, exist only in the event of intentional misconduct or gross negligence by castFEX.

A change of speakers or content adjustments that do not materially alter the overall character of the event do not entitle participants to cancel free of charge.

9. Data Protection
Personal data is processed exclusively for the purpose of handling registration, conducting the event, communicating with participants and fulfilling legal obligations.

For online seminars, the technical delivery is carried out via Microsoft Teams. In this context, personal data such as name, email address, as well as image and audio data where the camera or microphone is activated, may be processed. Further information can be found in the data protection notices of castFEX and Microsoft.

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