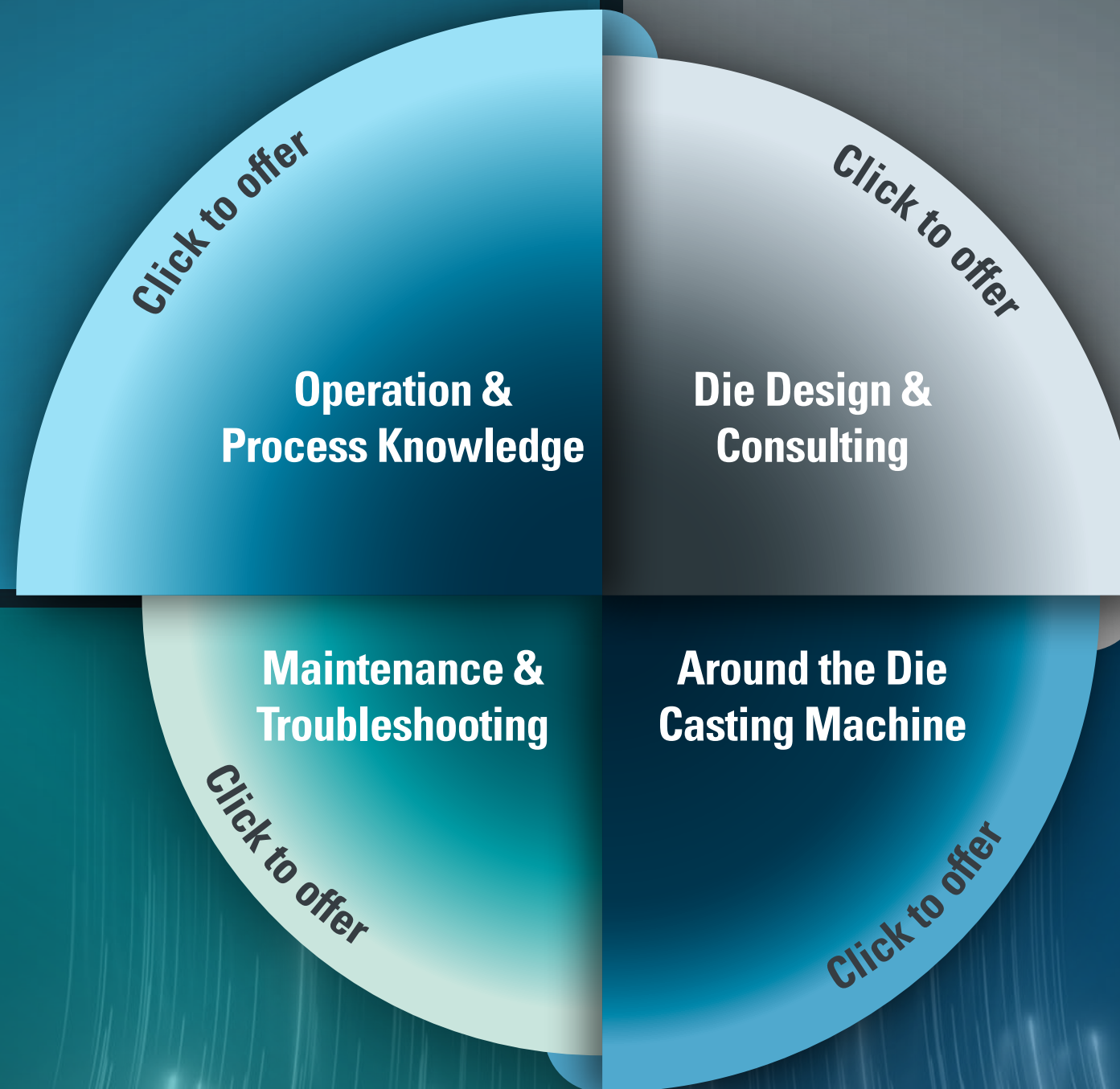


Nothing works without basic and process knowlege



The heart of the die casting progress: the die

There is never the right time for a machine breakdown, but there is a perfect time for maintenance

Thinking outside the box



We also offer all fee-based seminars as individual seminars.

FACE-TO-FACE SEMINAR

FRECH HEADQUARTER GERMANY
HOT-COLD CHAMBER
PROCESS TECHNOLOGY

Process Technology, Maintenance, Latest Developments,
Die Design and Consulting Service

FRECH USA MICHIGAN CITY
HOT-COLD CHAMBER
PROCESS TECHNOLOGY

Die Design and Consultation Service



We also offer all fee-based seminars as individual seminars.

ONLINE SEMINARS

HOT CHAMBER
TEMPERATURE PARAMETERS
Overview, Setting

HOT-COLD CHAMBER
INJECTION GRAPHICS
See what happens during
the casting process

HOT CHAMBER
3 IMPORTANT SCREEN PAGES
Calculation, graphic, profile

HOT CHAMBER
PRESENTATION OF THE
FRECH-DOSING-SYSTEM FDS®
Structure and function

COLD CHAMBER
3 IMPORTANT SCREEN PAGES
Calculation, graphic, profile

HOT CHAMBER
OPERATION OF THE
FRECH-DOSING-SYSTEM FDS®
Structure, handling, operation and setting

We also offer all fee-based seminars as individual seminars.

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

(P-GB-Wk-Kk-Seminar)

TARGETS

A successful foundry needs everything: deep process knowledge, skilled operators and a strong maintenance group. However, the die is at the heart of the process and has to be designed professionally. We discuss new developments, experiences and trends in the diecasting industry with our participants during the lessons and breaks. Our various evening events are also a very important part of our traditional 4-days face-to-face seminar.

CONTENT

Day 1 and 2 - Process Days HC/CC:

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

Day 3 and 4 either die design and consulting or maintenance and troubleshooting:

Die Design and Consulting HC/CC:

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

Maintenance and Troubleshooting HC/CC:

- Safety first
- Organization according Checklists
- Determine all Machine Components
- Filter, Hoses, Waterglycol
- Screen Pages for Maintenance
- Tour around the Machine



FACE-TO-FACE SEMINAR

NOTES

Meeting point: FRECH headquarter Schorndorf-Weiler, Germany.
 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.



TARGET GROUP

Operators, die designers, foundry specialists, quality- and maintenance stuff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

Oct. 8th - Oct. 11th, 2024
 Morning: 9:00 a.m.
 Europe, Berlin

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

Costs per person:
 4 days 1.990,00 €
 Additional persons from the same company 1.790,00 €
Please note: These prices are subject to 19% VAT

Temperature Parameters **Hot Chamber**

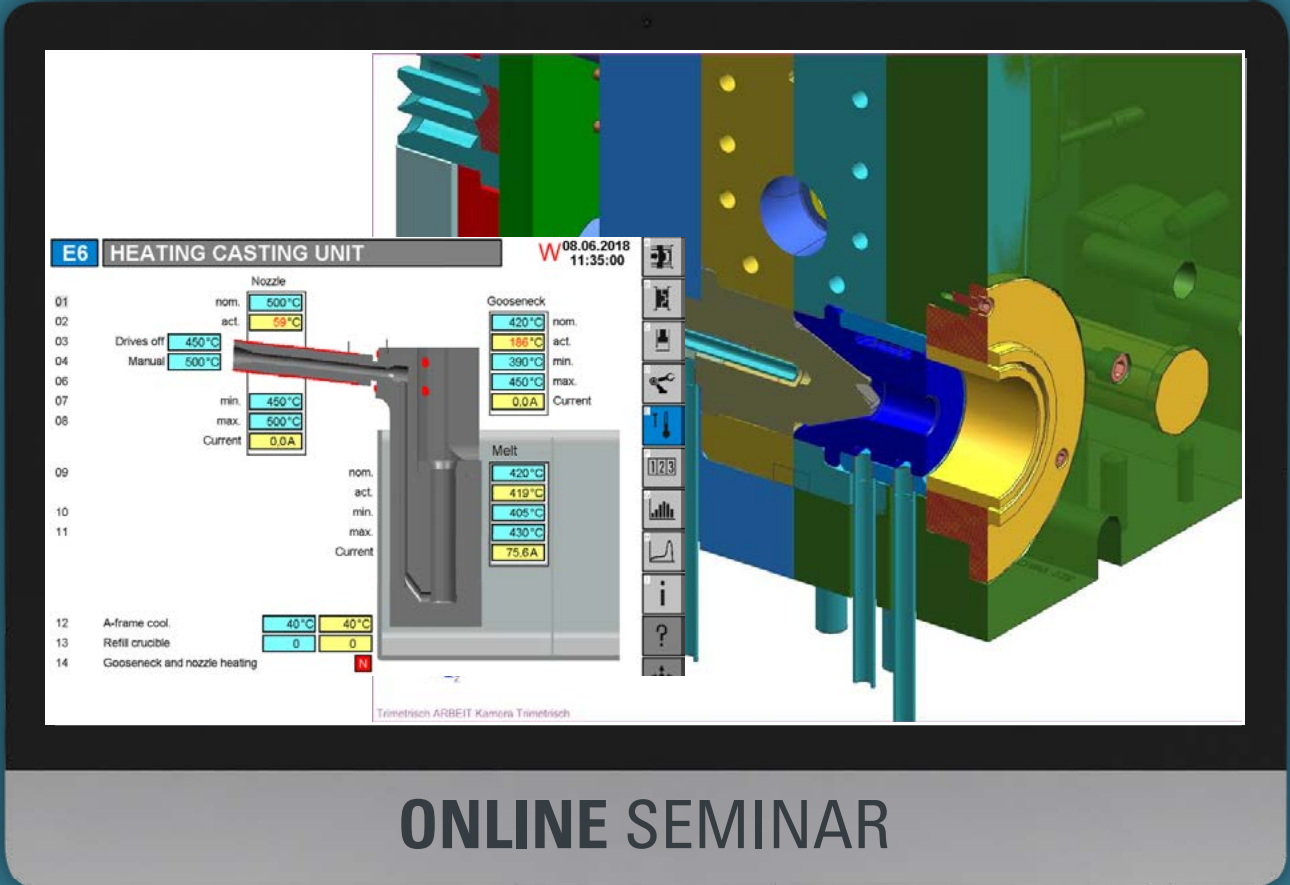
(O-GB-Wk-Temp-Para)

TARGETS

Die casting is a temperature-dependent process. At the end of this online seminar, your employees will be able to understand the complex temperature balance in the casting process, to adjust it and to identify the temperature-relevant problems.

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



ONLINE SEMINAR



TARGET GROUP

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



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Oct 29th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Dec 2nd, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

Three Important Screen Pages **Hot Chamber**

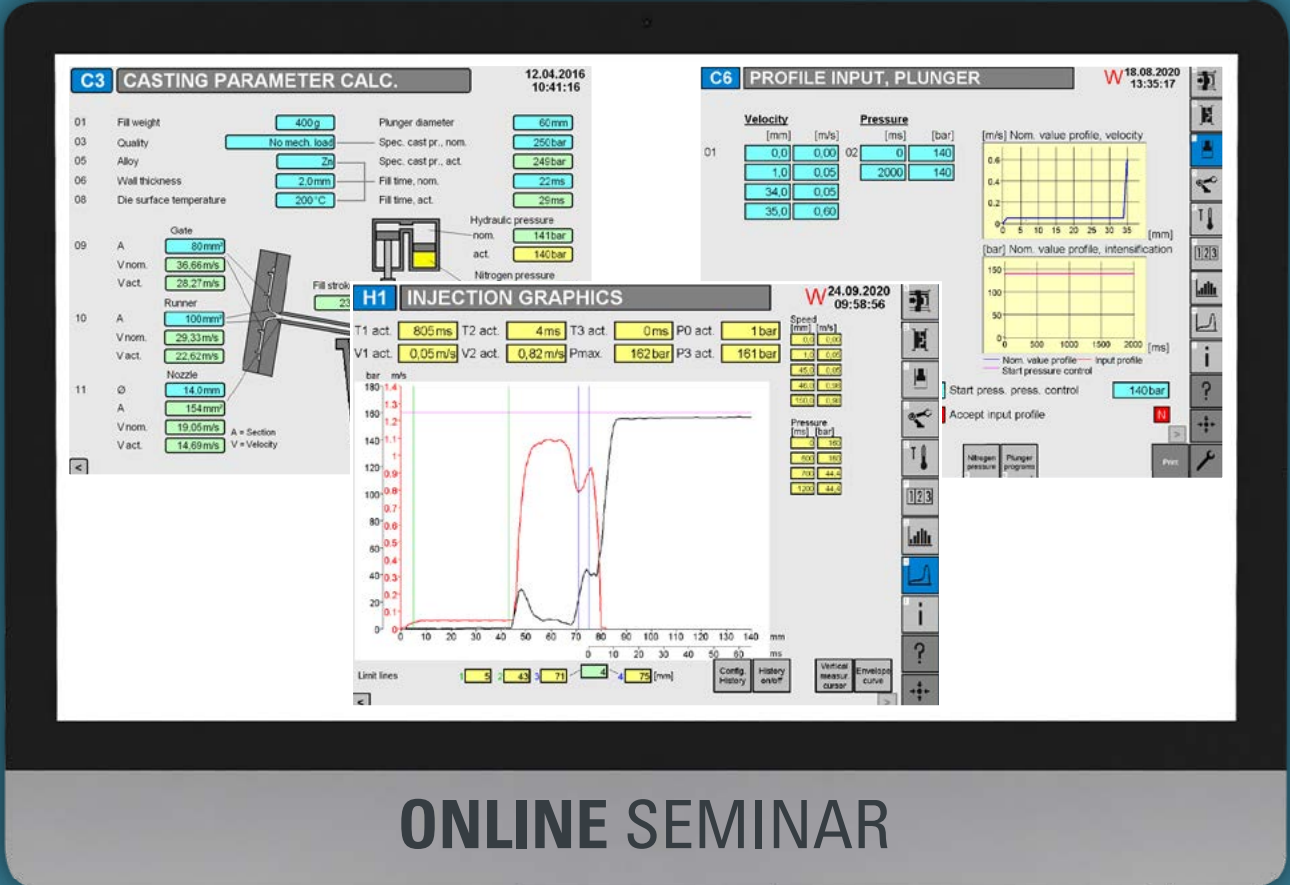
(0-GB-Wk-3Screens)

TARGETS

There are three elementary important screen pages in die casting: Casting parameter calculation, profile input and injection graphics. The aim of this online seminar is to enable your employees to understand and use these three important screens for process setting.

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



TARGET GROUP

Machine operators, machine setters, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Oct 30th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Dec 3rd, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

[REGISTRATION](#)

[REGISTRATION](#)

[REQUEST INDIVIDUAL SEMINAR](#)



PRICES

480,00 € / access

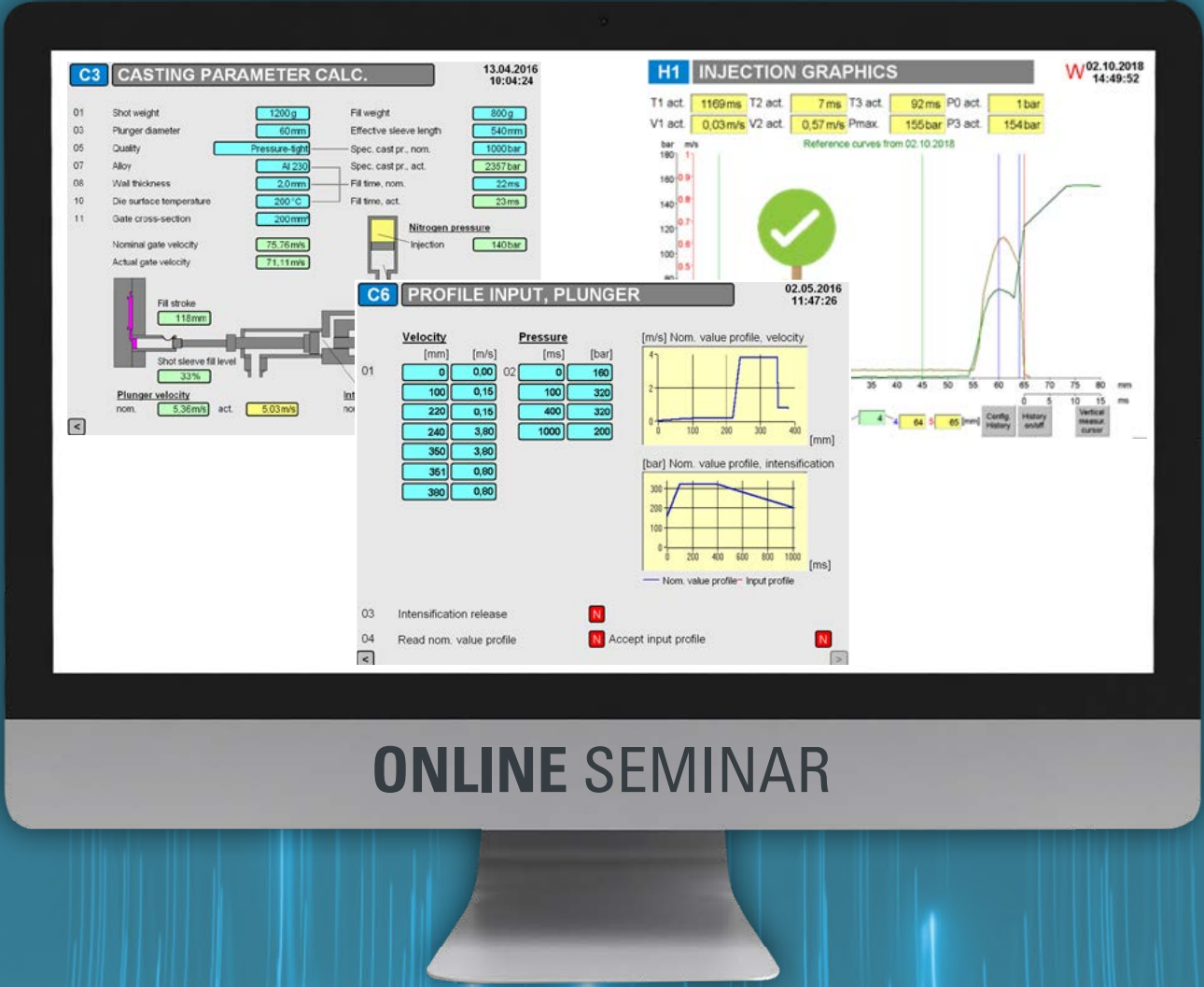
Three Important Screen Pages Cold Chamber (0-GB-Kk-3Screens)

TARGETS

There are three elementary important screen pages in die casting: Casting parameter calculation, profile input and injection graphics. The aim of this online seminar is to enable your employees to understand and use these three important screens for process setting.

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



TARGET GROUP

Machine operators, machine setters, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: May 10th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Nov 22nd, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

[REGISTRATION](#)

[REGISTRATION](#)

[REQUEST INDIVIDUAL SEMINAR](#)



PRICES

480,00 € / access

[BACK TO OVERVIEW](#)

INJECTION GRAPHICS

See what happens during the casting process (O-GB-Wk-Kk-graphics)

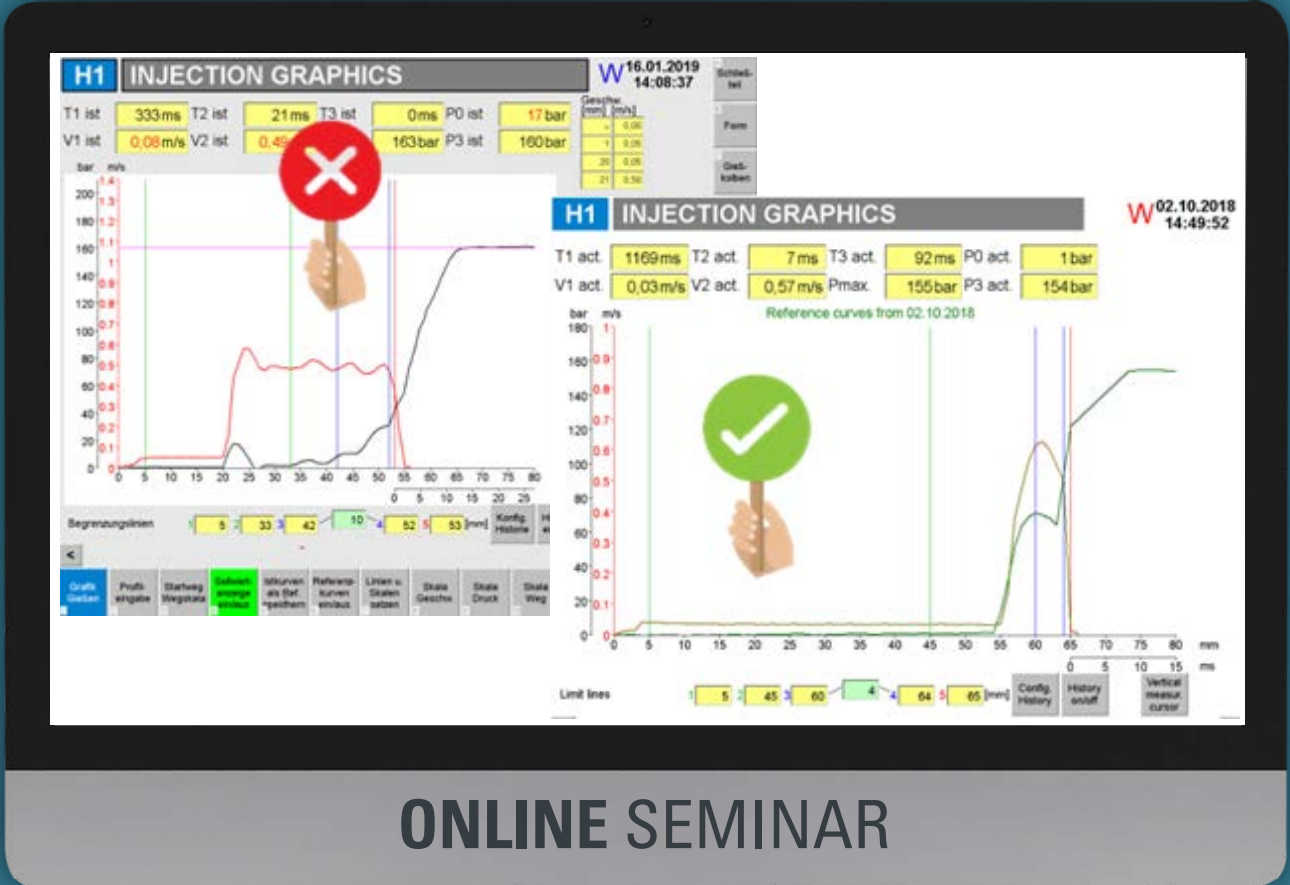
*Insight,
Perspective,
Foundry View*

TARGETS

With the injection graphics, the casting process becomes transparent and better understandable. It serves as an adjustment guide and is a valuable measuring tool for monitoring the casting process. With the curve history, you can see at a glance how steadily the casting process is progressing. For those who need to measure more precisely, envelope curves are available.

CONTENT

- We explain how to measure, adjust and monitor the filling process using the injection graphics
- The meaning of the limit lines
- Reading and understanding speed and pressure curves
- Reference curves
- Curves History
- Envelope curves



ONLINE SEMINAR



TARGET GROUP

Machine operators, machine setters, quality management staff, foundry manager



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Oct. 28th, 2024
 Morning: 8:00 a.m.
 Europe, Berlin
 Duration: 30 minutes

2nd date: Oct. 28th, 2024
 Afternoon 3:00 p.m.
 Europe, Berlin
 Duration: 30 minutes

REGISTRATION

REGISTRATION



PRICES

Free of charge

Presentation of the Frech-Dosing-System FDS®

(O-GB-Wk-FDS-Info)

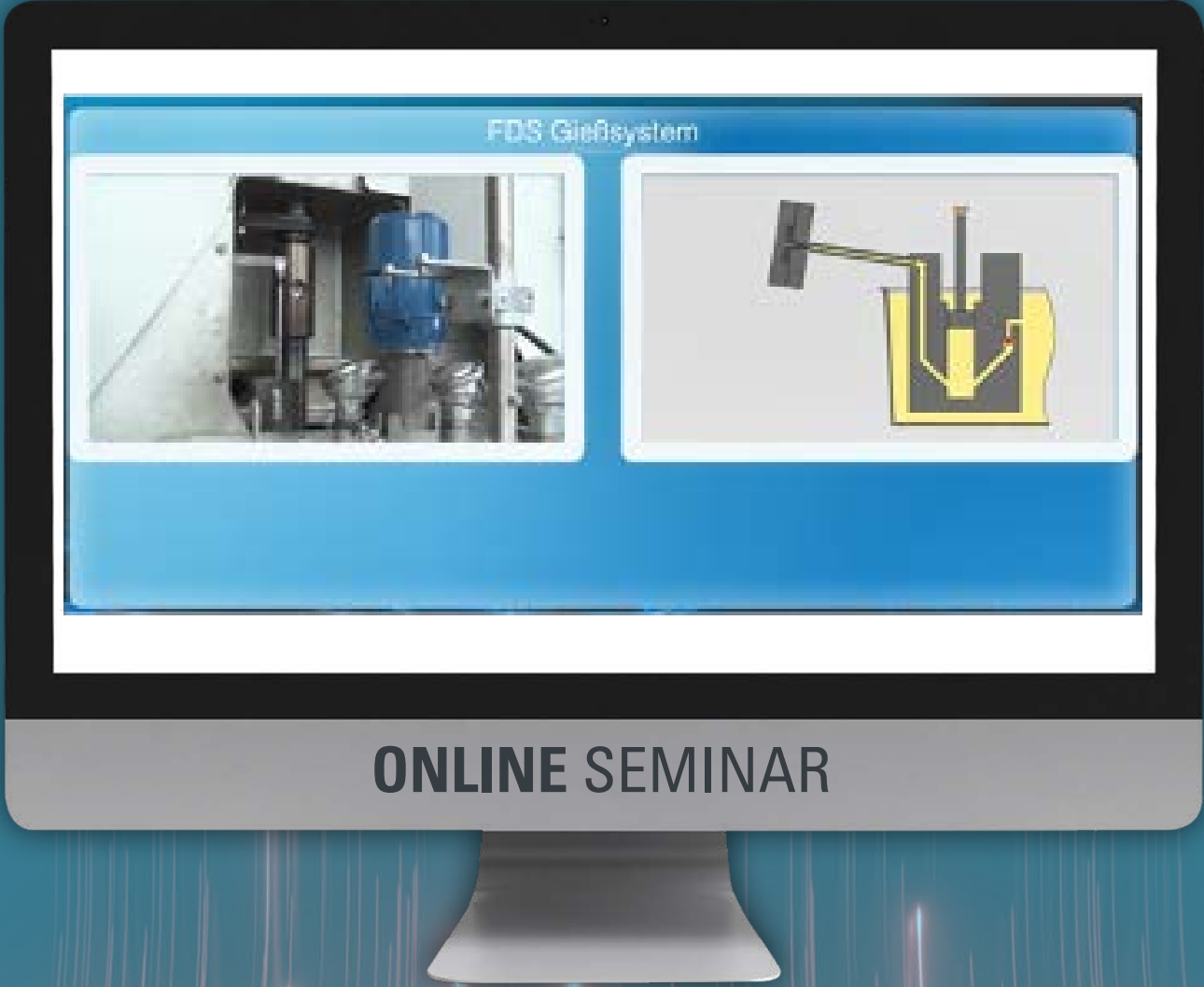


TARGETS

We present the new patented FRECH dosing system FDS® for zinc hot chamber machines. The process innovation revolutionizes the hot chamber casting process with the active melt filling valve.

CONTENT

- Functionality of the FDS® system
- Differences to the conventional casting system
- Features and advantages
- Upgrading possibilities



TARGET GROUP

All those who are interested in this new FDS® system



EVENT DATE

1st date: Mar 12th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 30 minutes

2nd date: Mar 12th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 30 minutes

[REGISTRATION](#)

[REGISTRATION](#)



PRICES

Free of charge



FDS TRAILER

Operation of the Frech-Dosing-System FDS®

(O-GB-Wk-FDS-Profi)



TARGETS

The new FDS® system can be activated in just a few simple steps. We explain the functional principle and the input options so that the FDS® system can be set quickly and correctly.

CONTENT

- How the FDS® system works
- Differences to the conventional casting system
- Features and advantages
- Upgrading possibilities
- Handling, operation and adjustment
- Dependency of component characteristics on achievable improvements with FDS®



TARGET GROUP

All FDS® users
Operators and setters who manage the FDS® system



PREVIOUS KNOWLEDGE

Basic knowledge of hot chamber die casting is required



EVENT DATE

Mar 12th, 2024
Morning: 10:00 a.m.
Europe, Berlin
Duration: 2 hours

[REGISTRATION](#)

[REQUEST INDIVIDUAL SEMINAR](#)



FDS TRAILER



PRICES

320,00 € / access

[BACK TO OVERVIEW](#)

FACE-TO-FACE SEMINAR



FRECH HEADQUARTER GERMANY
HOT-COLD CHAMBER
PROCESS TECHNOLOGY

Process Technology, Maintenance, Latest Devolpements,
Die Design and Consulting Service

We also offer all fee-based seminars as individual seminars.

ONLINE SEMINARS

HOT-COLD CHAMBER
DIE DESIGN
COMPACT PART 1
Thermal

HOT-COLD CHAMBER
DIE DESIGN
COMPACT PART 2
Geometrical

HOT-COLD CHAMBER
DIE DESIGN
COMPACT PART 3
Mathematical

HOT-COLD CHAMBER
INTERPRETING DIE
FILLING SIMULATIONS
Read and understand

HOT-COLD CHAMBER
PART DESIGN COMPACT
Part design suitable for diecasting

We also offer all fee-based seminars as individual seminars.

Thermal Die Design „Compact“ Hot and Cold Chamber

(O-GB-MtWk-Kk-Therm)

TARGETS

Die casting is a temperature-dependent process and requires careful design, placement and conceptualization of tempering channels. We explain the most important relationships, so that the chapter „thermal design“ can be included in the designer's to-do-list.

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.**



ROBANAT



TARGET GROUP

Developers, die designers, technologists, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 10th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Nov. 18th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

Geometric Die Design „Compact“ **Hot** and **Cold Chamber**

(O-GB-MtWk-Kk-Geo)

TARGETS

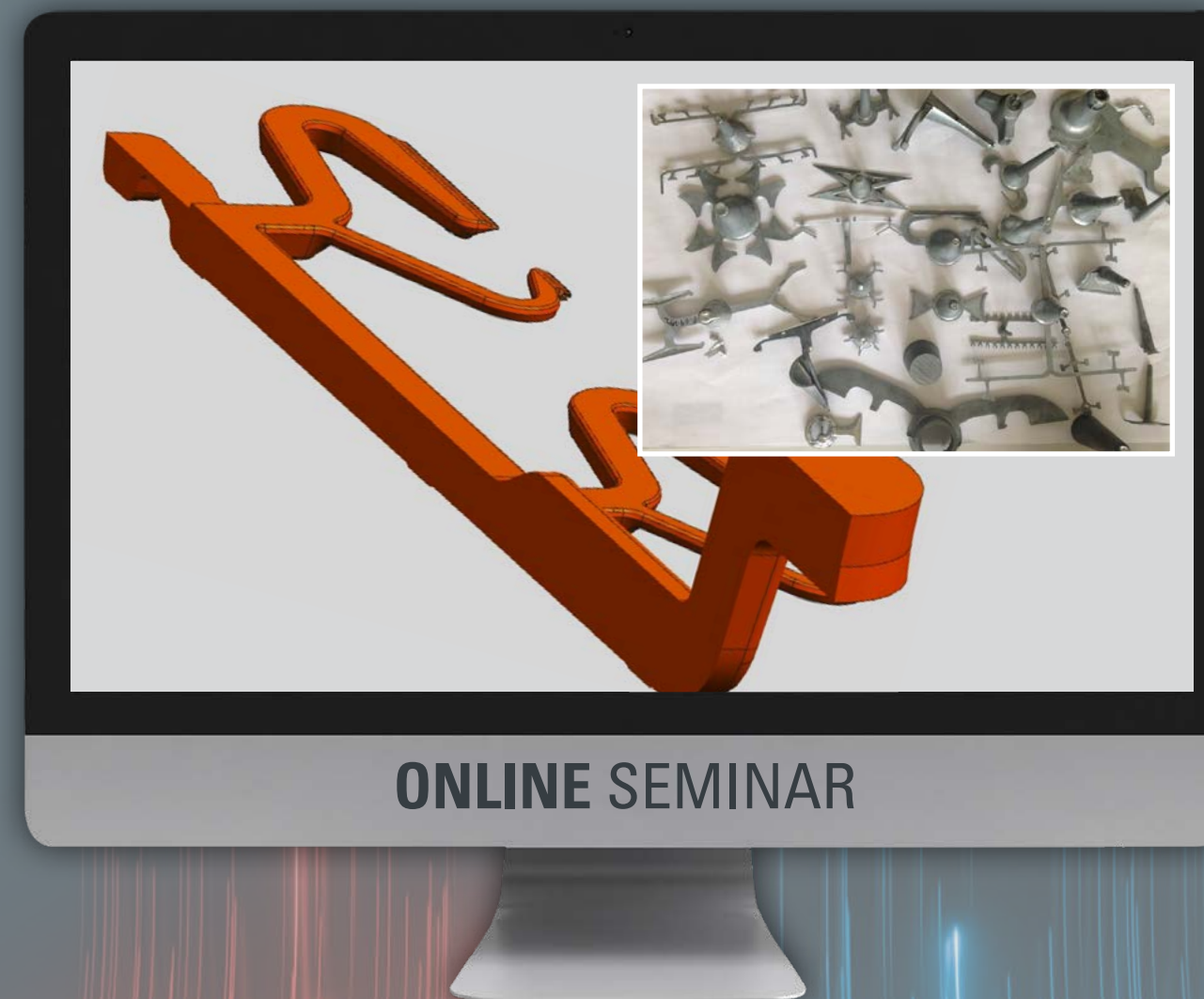
A professionally designed runner and a well-considered gating design are the elementary prerequisites for perfect die filling. Prior to each simulation corresponding concepts must be developed, which we will work out with you in this training module.

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.**



TARGET GROUP

Developers, die designers, technologists, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 11th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Nov. 19th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

Mathematical Die Design „Compact“ Hot and Cold Chamber

(O-GB-MtWk-Kk-Math)

TARGETS

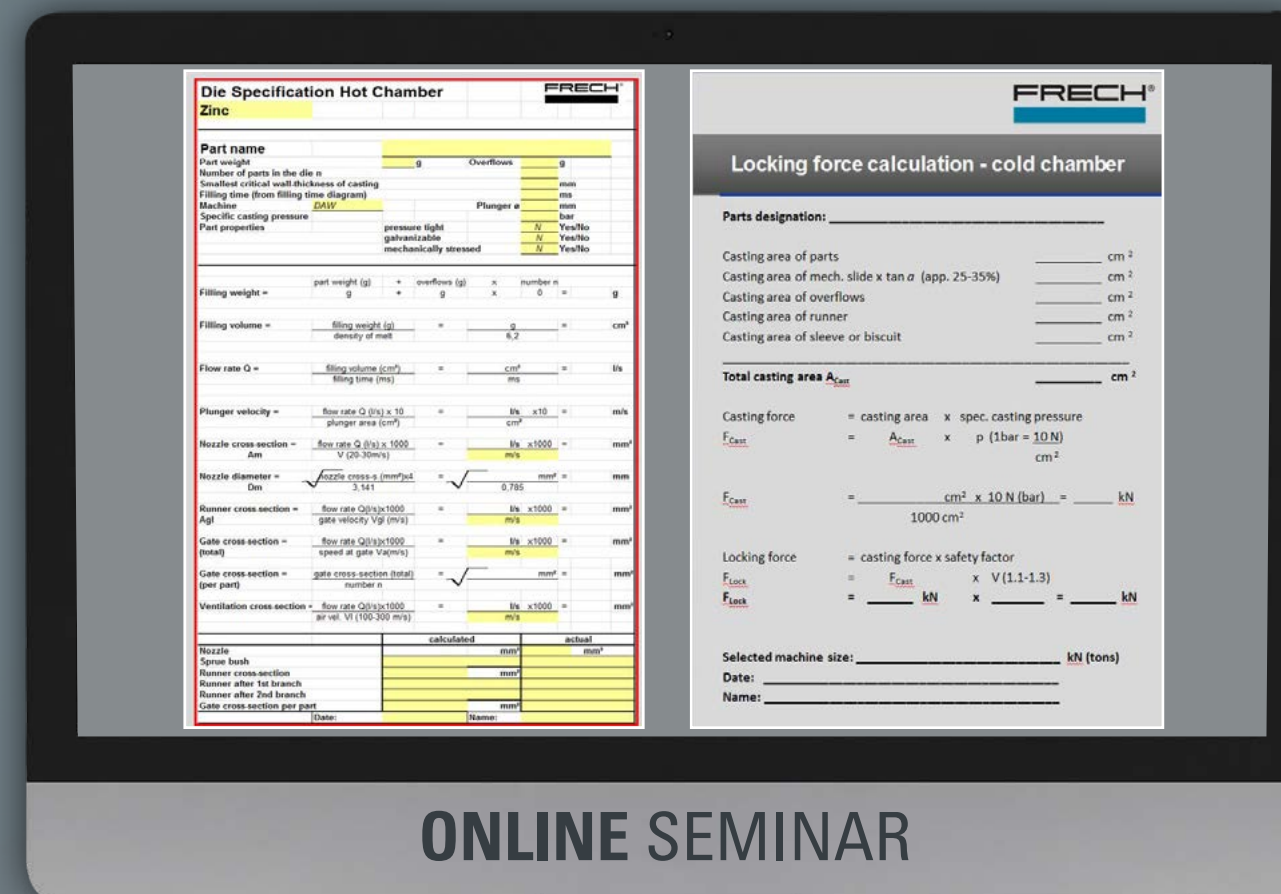
The mathematical die configuration is the preparation for the correct cross-section design and the basis for the required parameters of a die filling simulation. In this training module we concentrate on the necessary calculations.

CONTENT

- Cross-section calculations with FRECH 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.**



ONLINE SEMINAR



TARGET GROUP

Developers, die designers, technologists, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 12th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 4 hours

2nd date: Nov. 20th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 4 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

Interpreting Die Filling Simulations „Compact“ **Hot** and **Cold Chamber** (O-GB-MtWk-Kk-Simu)

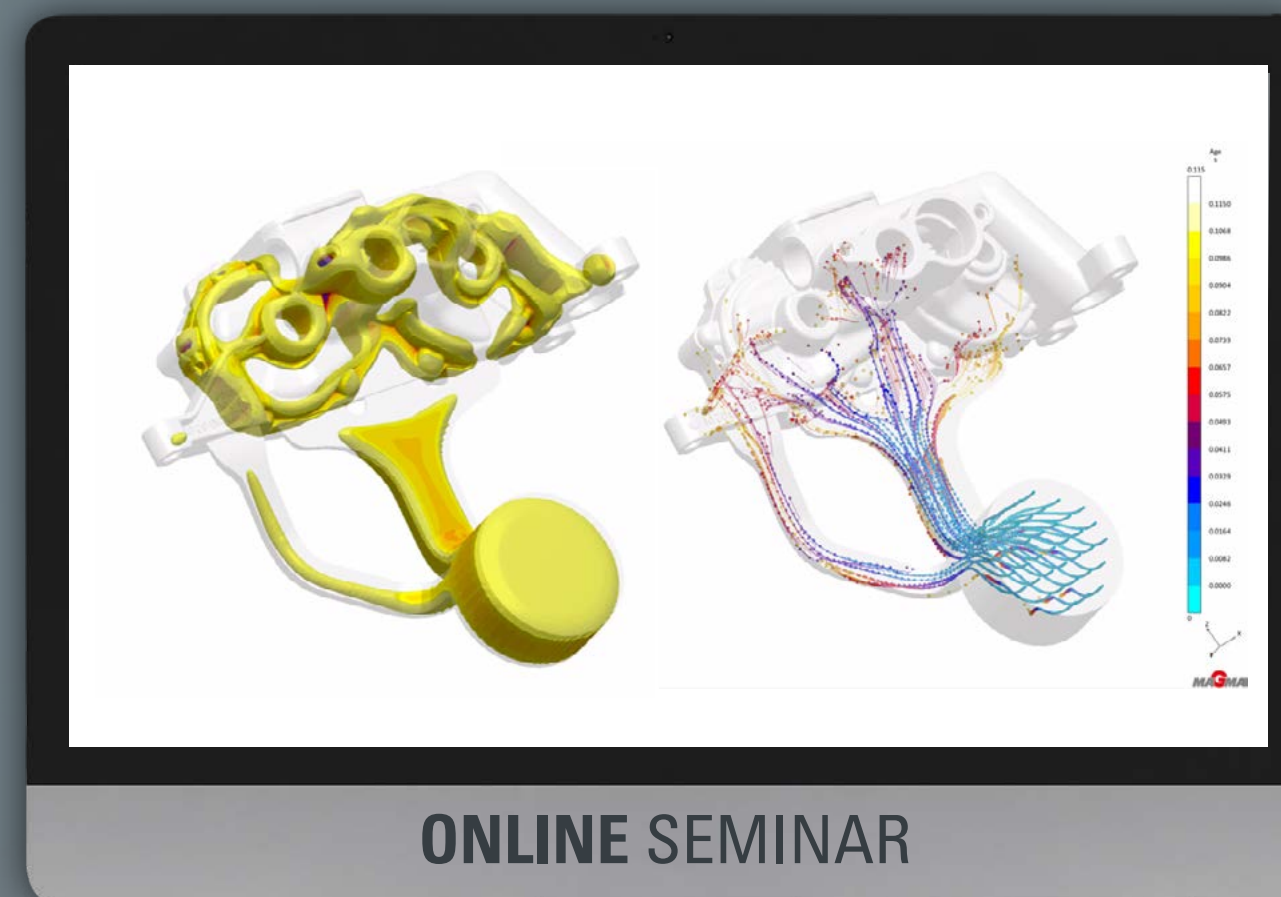
Information
instead of
Irritation

TARGETS

Die filling and solidification simulations are now „state of the art“. We will show how simulations are created and what general conditions and prerequisites are required. To derive measures from simulations, they have to be interpreted. This seminar is a tutorial on the interpretation of die filling and solidification simulations.

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



TARGET GROUP

Developers, buyers, die designers, technologists, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 13th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Nov. 21st, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

Die Casting-compatible part design "Compact" Hot and Cold Chamber (O-GB-Wk-Kk-part-design)

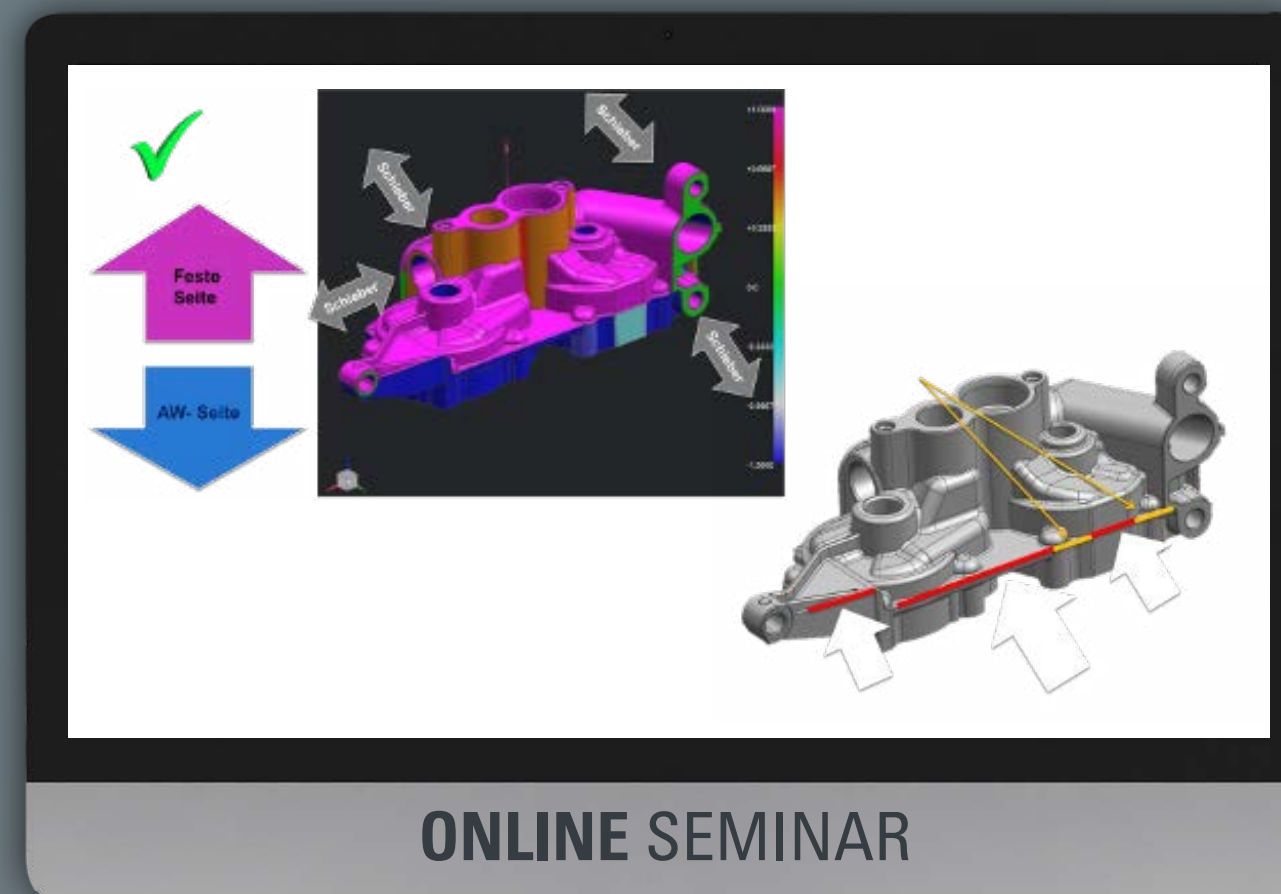
This is how parts can be casted

TARGETS

If the rules for casting-compatible part design are followed, many geometries can be casted excellently. However, this requires a number of considerations and possible compromises. We give you an overview, almost as a kind of checklist for die casting-compatible part design.

CONTENT

- Possible process chain of part development
- Deformability (draft angles) and undercuts
- Wall thicknesses, parting lines
- Shrinkage (recommendations for die manufacturing)
- Gate options, determination and recommendation for placement
- Determination of vent positioning



TARGET GROUP

Developers, die designers, technologists, quality management staff



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 14th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 3 hours

2nd date: Nov 14th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 3 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

480,00 € / access

ONLINE SEMINARS

HOT CHAMBER
MAINTENANCE COMPACT
Instruction for maintenance


COLD CHAMBER
MAINTENANCE COMPACT
Instruction for maintenance

COLD CHAMBER
MAINTENANCE COMPACT
GDK-SERIES
Instruction for maintenance



**ONLINE SPARE
PART CATALOG**

[REQUEST INDIVIDUAL MAINTENANCE SEMINAR](#)

 We also offer all fee-based seminars as individual seminars.

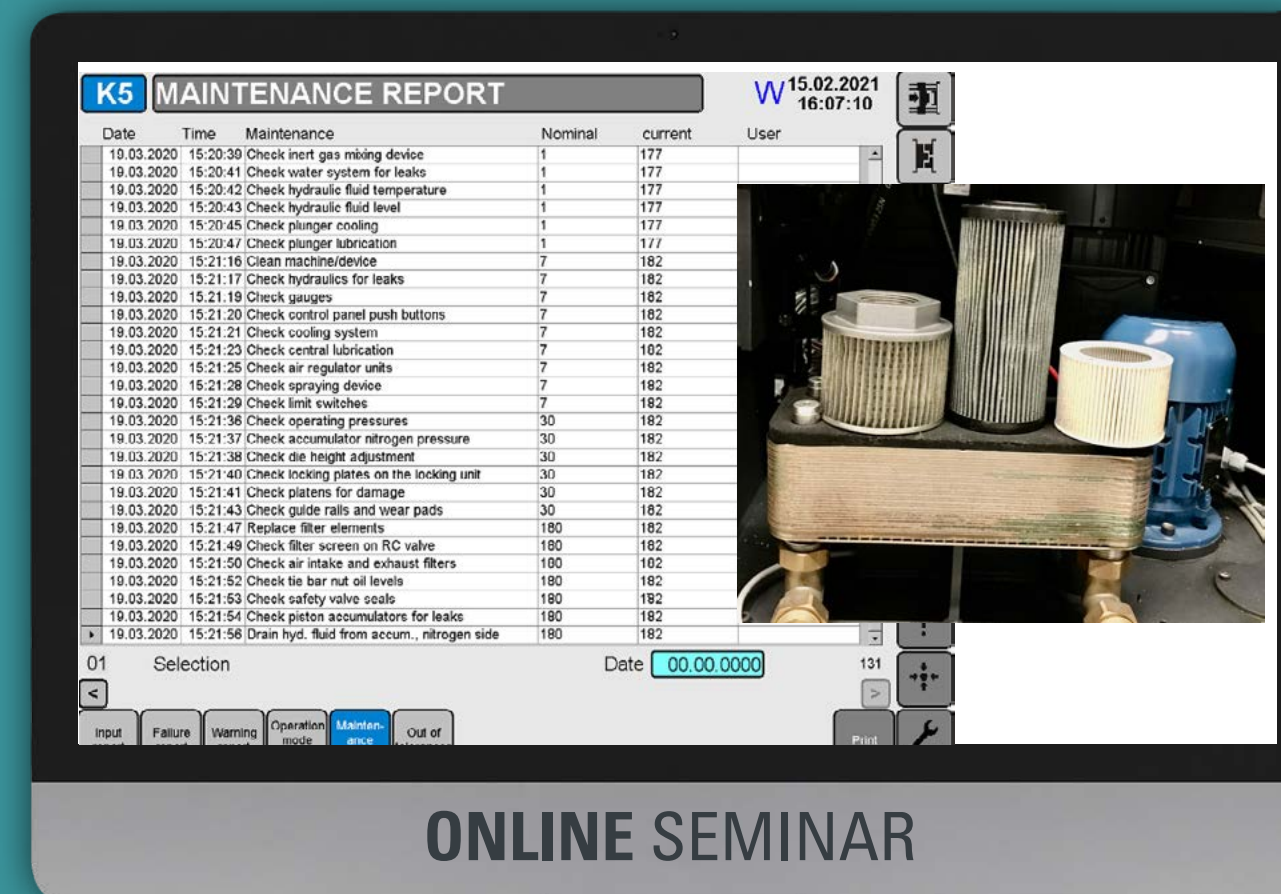
Maintenance „Compact“ of the **Hot Chamber** Die Casting Machine (O-GB-WaWk-Compact)

TARGETS

With this online module we train your employees to carry out maintenance independently, to determine the detailed technical condition of the machine and measures to be taken. The explanations are illustrated with a virtual tour around the machine.

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



TARGET GROUP

Maintenance personnel,
foundry planners



PREVIOUS KNOWLEDGE

Basic technical understanding



EVENT DATE

1st date: Apr 30th, 2024

Morning: 8:00 a.m.

Europe, Berlin

Duration: 4 hours

2nd date: Nov 12th, 2024

Afternoon: 3:00 p.m.

Europe, Berlin

Duration: 4 hours

REGISTRATION

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



PRICES

640,00 € / access

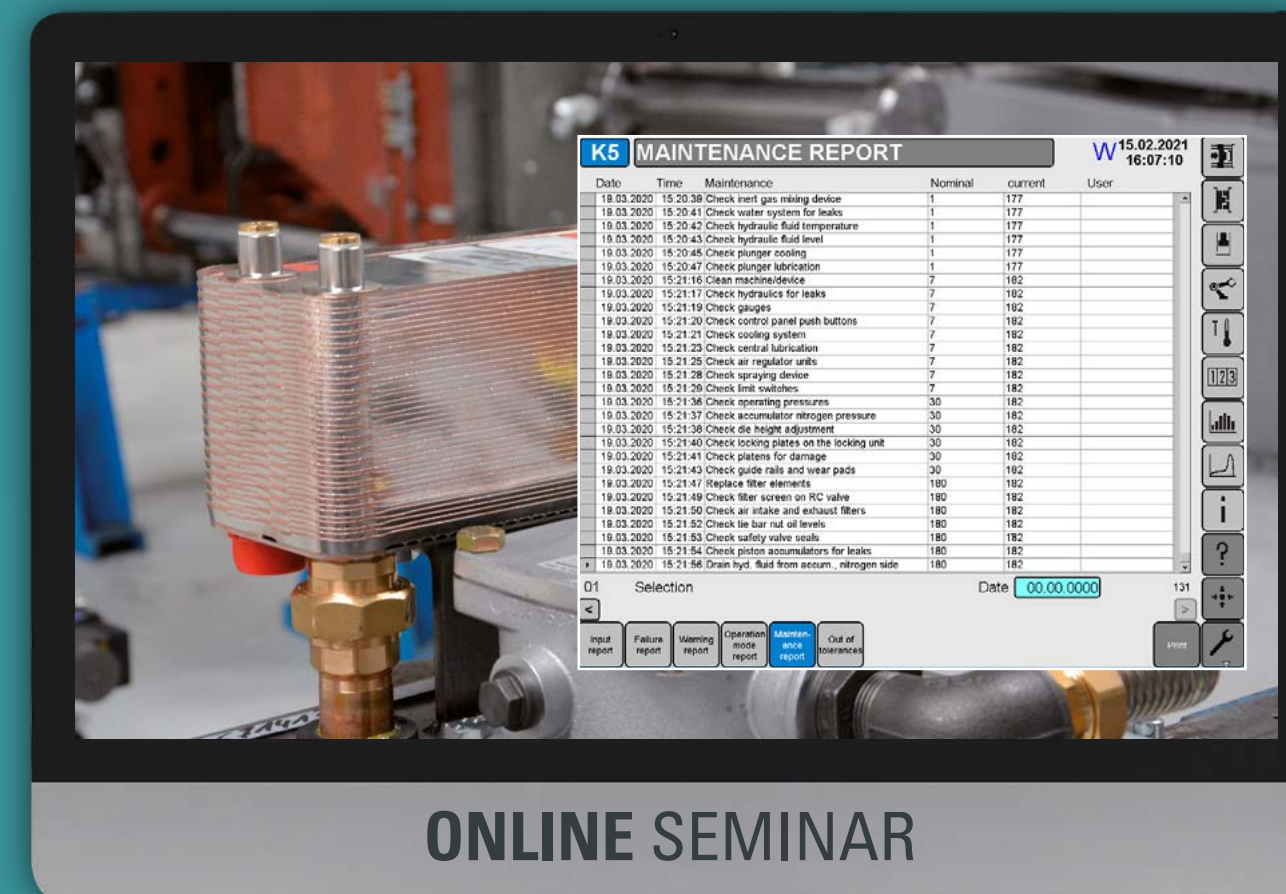
Maintenance „Compact“ of the Cold Chamber Die Casting Machine (GDK-Series) (O-GB-WaGDK-Compact)

TARGETS

With this online module we train your employees to carry out maintenance independently, to determine the detailed technical condition of the machine and measures to be taken.

CONTENT

- Safety is the top priority during maintenance
- The essential points of maintenance: Procedure, evaluation, measures
- Media preparation and filtration as the basis of a „clean“ hydraulics
- Check hydraulic hoses and initiate the necessary measures



TARGET GROUP

Maintenance personnel,
foundry planners



PREVIOUS KNOWLEDGE

Basic technical understanding



EVENT DATE

on request

[REQUEST INDIVIDUAL SEMINAR](#)



PRICES

on request

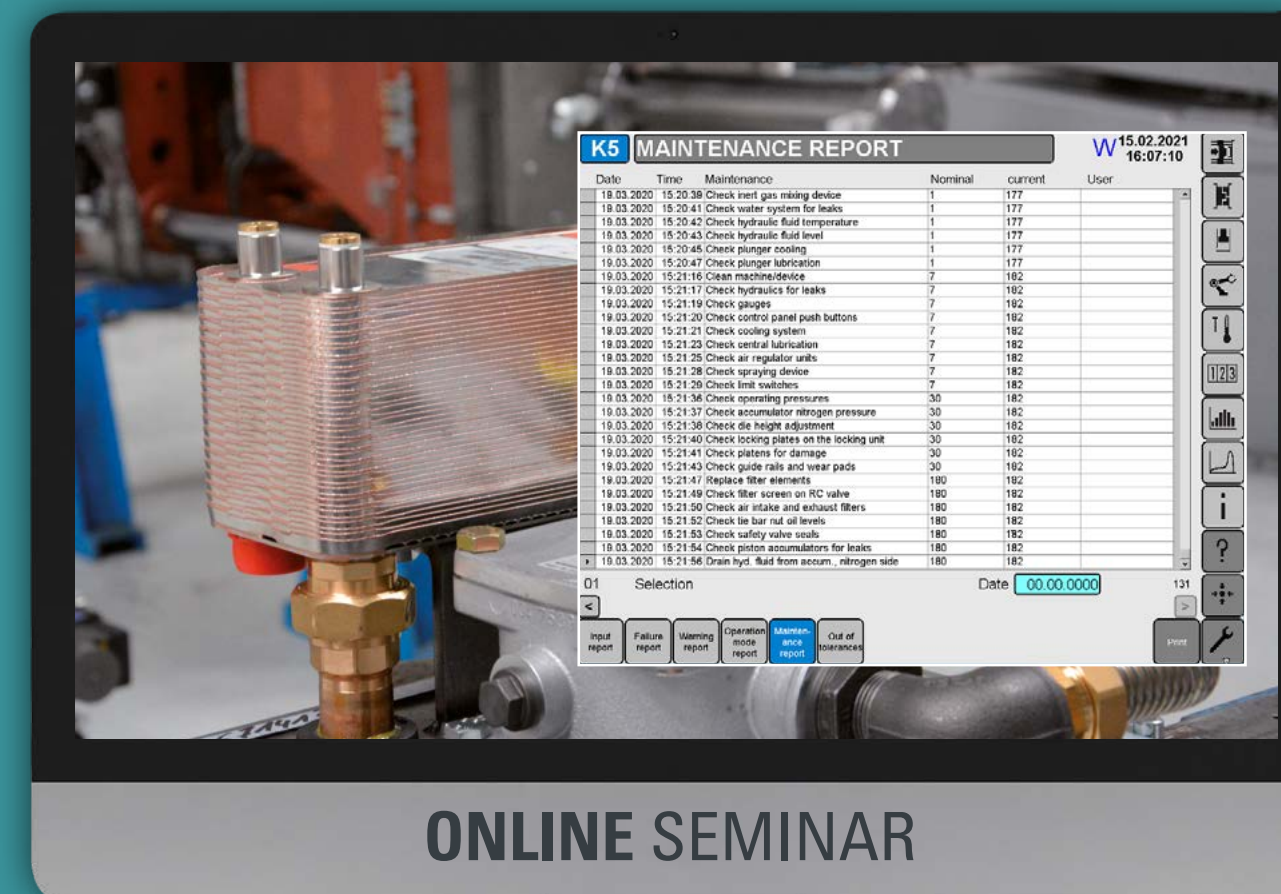
Maintenance „Compact“ of the Cold Chamber Die Casting Machine (M- and K-Series) (O-GB-WaKk-Compact)

TARGETS

With this online module we train your employees to carry out maintenance independently, to determine the detailed technical condition of the machine and measures to be taken. The explanations are illustrated with a virtual tour around the machine.

CONTENT

- Safety is the top priority during maintenance
- Carry out maintenance according to checklist
- Determining the current machine condition
- Media preparation and filtration as the basis of a „clean“ hydraulics
- Check hydraulic hoses and initiate the necessary measures



ONLINE SEMINAR



TARGET GROUP

Maintenance personnel,
foundry planners



PREVIOUS KNOWLEDGE

Basic technical understanding



EVENT DATE

1st date: Apr 10th, 2024

Morning: 8:00 a.m.
Europe, Berlin

Duration: 4 hours

REGISTRATION

2nd date: Oct 23rd, 2024

Afternoon: 3:00 p.m.
Europe, Berlin

Duration: 4 hours

REGISTRATION

REQUEST INDIVIDUAL SEMINAR



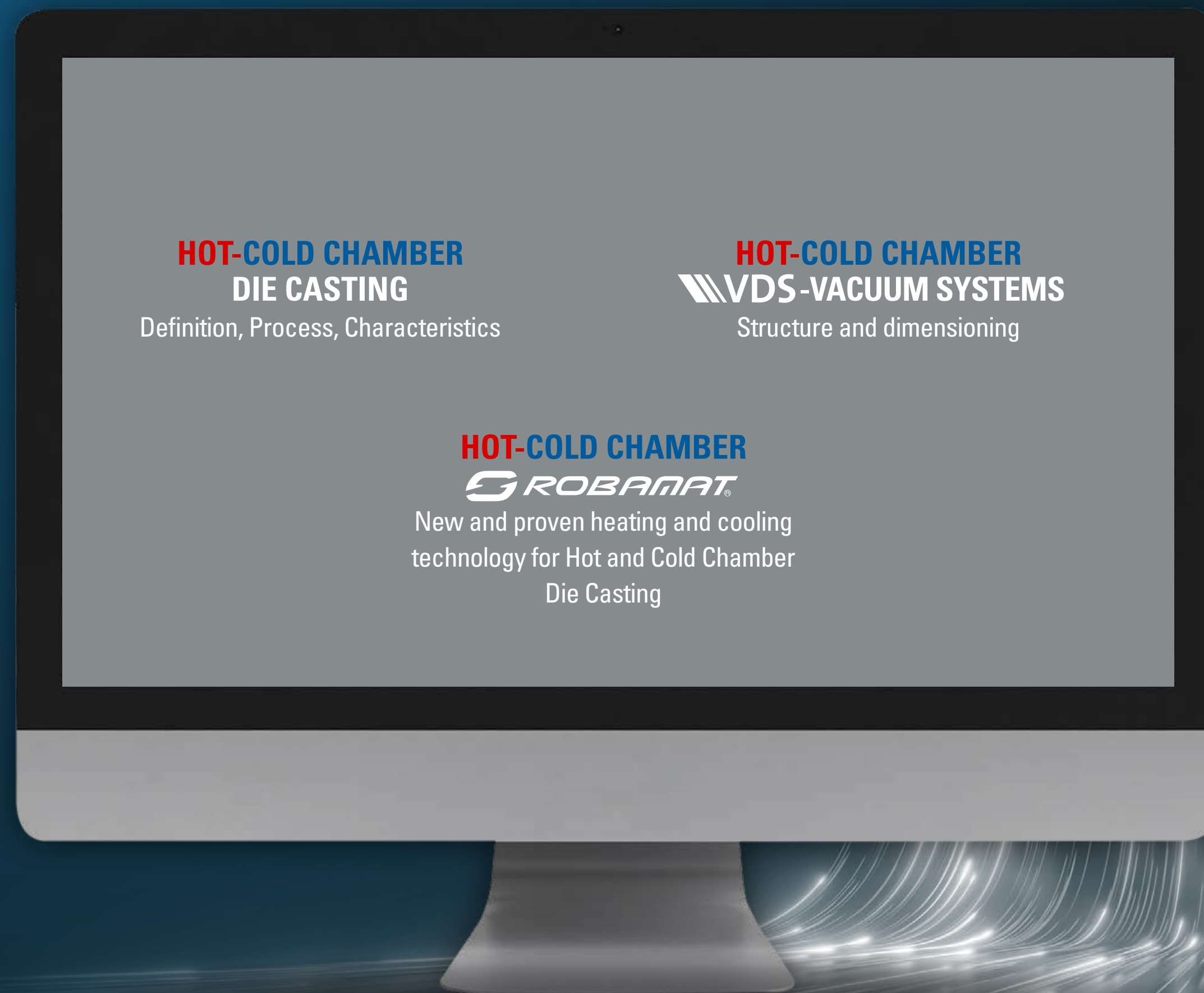
PRICES

640,00 € / access

BACK TO OVERVIEW

ONLINE SEMINARS

ONLINE SEMINARS



HOT and COLD CHAMBER „What is it?“

(0-GB-Wk-Kk-Basis)

TARGETS

One may also ask which die casting processes there are and how they differ. We explain what is behind the name „Hot and Cold Chamber“.

CONTENT

- Definition of the term „Die Casting“
- Brief description of both processes
- A virtual hot chamber cycle explained by means of an animation
- A virtual cold chamber cycle explained with an animation

(better than youtube!)



TARGET GROUP

All who are interested in die casting.
All who have to do with die casting.
Also suitable for your customers!



EVENT DATE

1st date: Jun 20th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 30 minutes

2nd date: Jun 20th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 30 minutes

REGISTRATION

REGISTRATION



PRICES

Free of charge

Vacuum Systems for **Hot** and **Cold Chamber** Die Casting



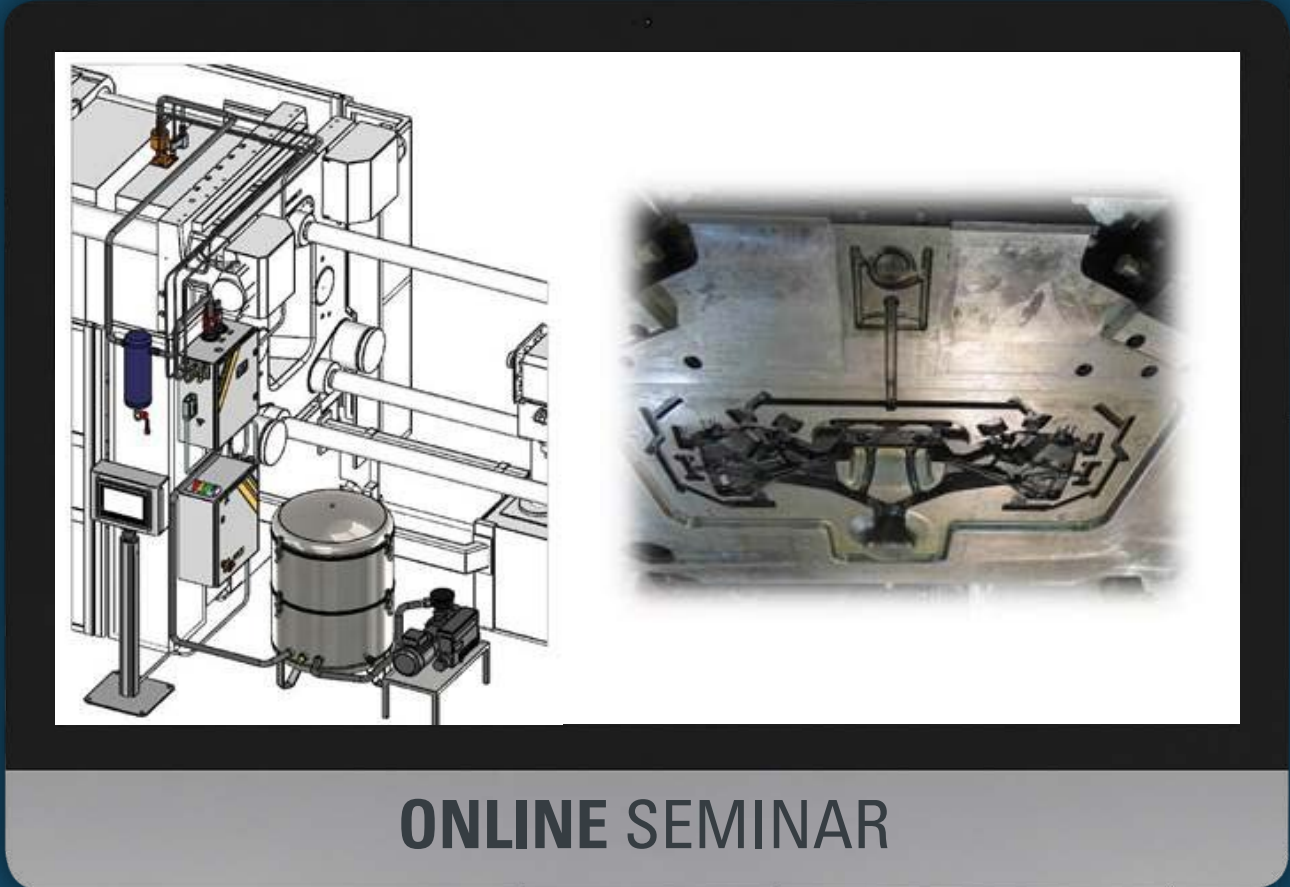
(O-GB-Wk-Kk-VDS-vacuum)

TARGETS

Unfortunately, there is no such thing as non-porous die casting, but there is one with less pores. If passive venting is no longer sufficient to achieve the desired component quality, die evacuation systems are used. You will get to know their structure, dimensioning and application with practical examples. We will show you how to adapt the vacuum unit to your casting process, which has a significant influence on the efficiency and repeatability in production.

CONTENT

- Comparison and application possibilities of Chill Vents compared to valves
- Characteristic values and parameter settings of the vacuum unit
- Leak test of die and sleeve
- Process monitoring
- Maintenance and optimization
- Optimal integration and linking of evacuation elements



TARGET GROUP

Machine operators, machine setters, die designers



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Jun 21st, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 1 hour

2nd date: Jun 21st, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 1 hour

[REGISTRATION](#)

[REGISTRATION](#)



PRICES

Free of charge

New and proven heating and cooling technology for **Hot** and **Cold Chamber Die Casting**

(O-GB-Wk-Kk-Heating-Cooling Technology)



TARGETS

Die casting is a „temperature sensitive“ process. The temperature control must be adapted and designed to the process, the part, the alloy and the requirements for part quality in order to maintain a stable cycle. We present new but also proven heating and cooling systems. A broad overview!

CONTENT

- Basics of die temperature control
- Proven and new heating and cooling systems
- Water/oil
- Common water and oil units of all performance classes
- Die tempering systems
- Design and function of the new multi-zone temperature control system (MZT)
- Multi-zone temperature control versus standard temperature control



TARGET GROUP

All those who are fundamentally interested in temperature control systems from machine operators to technologists and buyer



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Apr 18th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 1 hour

2nd date: Apr 18th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 1 hour

[REGISTRATION](#)

[REGISTRATION](#)



PRICES

Free of charge

[BACK TO OVERVIEW](#)

Aluminum Alloys

Overview, properties, applications, processing (O-GB-Kk-Aluminium)

TARGETS

Getting to know the mechanical properties of aluminum alloys, overview of the standardized die casting alloys and the commonly used special alloys as well as modern melting and process technology and the most common special alloys.

CONTENT

- Aluminum alloys according to DIN EN 1706
- Mechanical properties
- The most common alloys
- Alloy components and their effects on castability and parts properties
- Melting and process technology
- Melt cleaning and handling
- Outlook - challenges for the future



SPEAKER

Dr.-Ing. Stuart Wiesner
Aluminium Rheinfelden Alloys GmbH



TARGET GROUP

Operators, machine setters, foundry managers, buyers



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: May 8th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 1 hour

2nd date: May 8th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 1 hour

[REGISTRATION](#)

[REGISTRATION](#)



PRICES

Free of charge

Magnesium Alloys

Overview, properties, applications, processing (O-GB-Wk-Kk-Magnesium)

TARGETS

Getting to know the mechanical properties of magnesium alloys compared to aluminum alloys, overview of all standardized alloys and the most common special alloys.

CONTENT

- Magnesium alloys according to DIN EN 1753
- Mechanical properties
- The most common alloys and their applications
- Alloy components and their effects on castability and parts properties
- Handling instructions for use in die casting machines
- Outlook



ONLINE SEMINAR

SPEAKER

Christoph Schendera
EFM



TARGET GROUP

Operators, machine setters,
foundry managers, buyers



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: May 7th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 1 hour

2nd date: May 7th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 1 hour

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PRICES

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Zinc Alloys

Overview, properties, applications, processing (O-GB-Wk-Zinc)

TARGETS

Getting to know the mechanical properties of zinc alloys, overview of all standardized die casting alloys and the most common special alloys.

CONTENT

- Zinc alloys according to DIN EN 1744
- Mechanical properties
- The most common alloys
- Alloy components and their effects on castability and parts properties
- Handling instructions for use in die casting machines
- Outlook



ONLINE SEMINAR

SPEAKER

Dr. Didier Rollez
RDDC-Diecasting-Consulting



TARGET GROUP

Operators, machine setters, foundry managers, buyers



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Apr 25th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 1 hour

2nd date: Apr 25th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 1 hour

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PRICES

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smartfoundry.platform – Module 1

„Use of process and machine data in daily life“ (O-GB-Wk-Kk-SFS-1-platform)

TARGETS

Through 24/7 process and machine data acquisition, states and trends can be recorded. With a smart data analysis and display adapted to the task, daily work can be simplified and optimization projects can be accompanied. We present the smartfoundry.platform and various applications and show through selected case studies, how process and machine data can be used profitably.

CONTENT

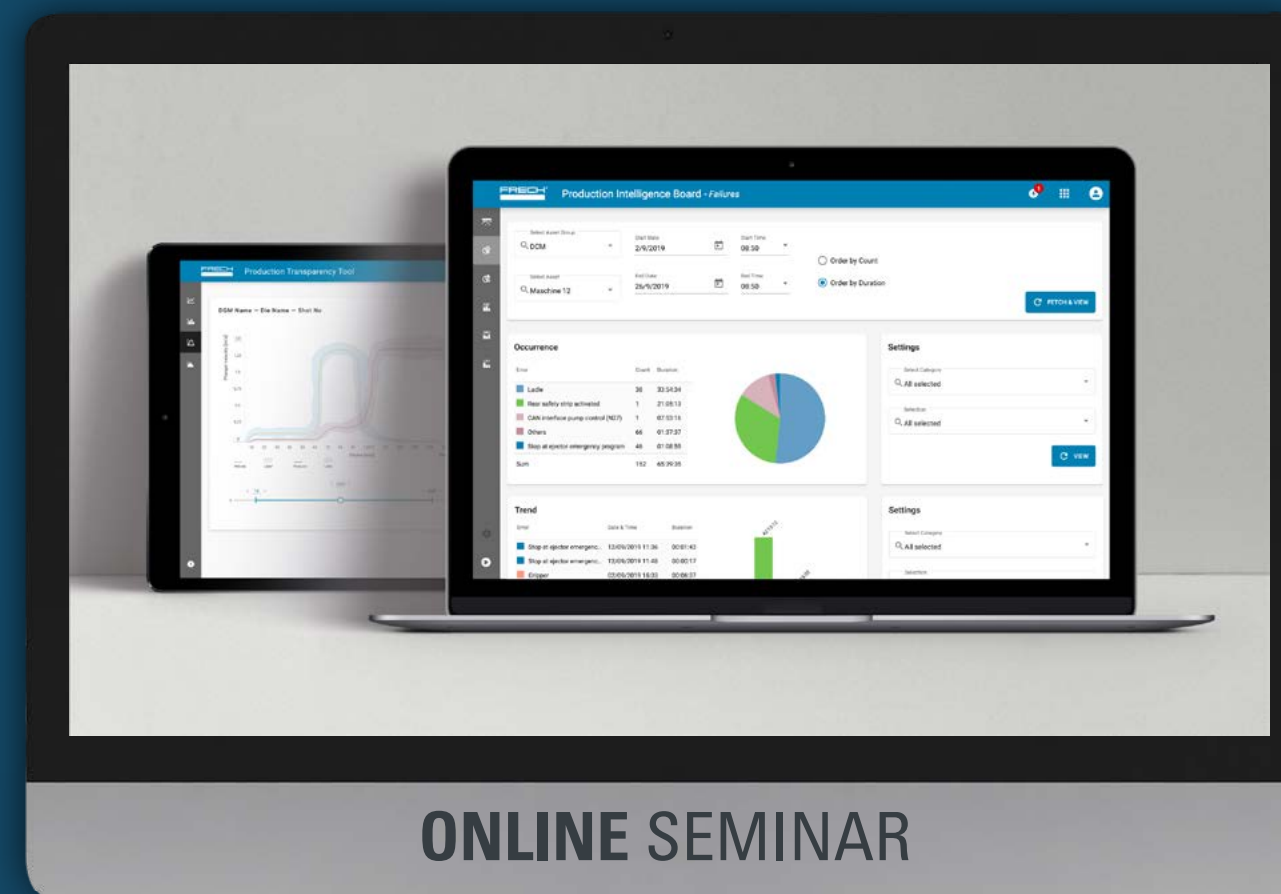
- Presentation of the components for data acquisition
- Presentation of foundryOS and the smartfoundry.platform
- Presentation of the platform application „Production Intelligence Boards“
- Presentation of the platform application „Production Transparency Tool“
- Presentation of the platform application „OEE Agent“
- Discussion of selected case studies

NOTE

This is the first of 4 smartfoundry modules.

Please also note:

- Module 2 „Data Connector“
- Module 3 „Production Transparency Boards“
- Module 4 „Recording and Analysis of Energy Data“



ONLINE SEMINAR

SPEAKER

Dr.-Ing. Kai Kerber
Oskar Frech GmbH + Co.KG



TARGET GROUP

Management, foundry management and anyone interested in smartfoundry systems



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: **Mar 12th, 2024** changed date

Morning: 8:00 a.m.
Europe, Berlin

Duration: 1 hour

REGISTRATION

2nd date: Mar 7th, 2024

Afternoon: 3:00 p.m.
Europe, Berlin

Duration: 1 hour

REGISTRATION

3rd date: Oct 10th, 2024

Morning: 8:00 a.m.
Europe, Berlin

Duration: 1 hour

REGISTRATION

4th date: Oct 10th, 2024

Afternoon: 3:00 p.m.
Europe, Berlin

Duration: 1 hour

REGISTRATION



PRICES

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Data Connector – Module 2

„An industrial measuring system for process and machine data“ (O-GB-Wk-Kk-SFS-2-dataconnector)

TARGETS

Not all machine and process data can be recorded via interfaces of the die casting machines or the peripheral devices. In the course of digitalization, additional sensors and measuring devices are increasingly being installed in production. In some cases, personnel, processes and machines are already to be influenced based on the results of data analysis. The Data Connector from smartfoundry.solutions has been developed for this range of tasks. We want to present the current functions, sensor packages and use cases.

CONTENT

- Presentation of the Data Connector
- Insight into the OPC UA interface functions
- Presentation of the integration of the Data Connector into the smartfoundry.solutions data acquisition system
- Presentation of selected sensor and function packages
- Discussion of selected use cases

NOTE

This is the second of 4 smartfoundry modules. Please also note:

- Module 1 „smartfoundry.platform“
- Module 3 „Production Transparency Boards“
- Module 4 „Recording and Analysis of Energy Data“



SPEAKER

Dr.-Ing. Kai Kerber
Oskar Frech GmbH + Co.KG



TARGET GROUP

Management, foundry management and anyone interested in smartfoundry systems



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Mar 21st, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 45 minutes

2nd date: Mar 21st 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 45 minutes

[REGISTRATION](#)

[REGISTRATION](#)

3rd date: Oct 17th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 45 minutes

4th date: Oct 17th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 45 minutes

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Production Transparency Boards – Module 3

“Visualization of data in and for production” (O-GB-Wk-Kk-SFS-3-Productionboard)

TARGETS

Extensive data and settings, various functions and assistance systems have been available in the controls of production machines for a long time. However, many of these data and functions are not used because the information is difficult to access or is simply available in the wrong place. Data can be visualized interactively, in the right place with a display adapted to the user and the task, by Production Transparency Boards. We want to present Production Transparency Boards and discuss the possible applications.

CONTENT

- Production Transparency Boards in the smartfoundry.network
- Use Case „Machine State“
- Use Case „Maschine State in Detail“
- Use Case „Maintenance and Repair“

NOTE

This is the third of 4 smartfoundry modules.

Please also note:

- Module 1 „smartfoundry.platform“
- Module 2 „Data Connector“
- Module 4 „Recording and Analysis of Energy Data“



ONLINE SEMINAR

SPEAKER

Dr.-Ing. Kai Kerber
Oskar Frech GmbH + Co.KG



TARGET GROUP

Management, foundry management and anyone interested in smartfoundry systems



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Mar 28th, 2024

Morning: 8:00 a.m.

Europe, Berlin

Duration: 45 minutes

REGISTRATION

2nd date: Mar 28th 2024

Afternoon: 3:00 p.m.

Europe, Berlin

Duration: 45 minutes

REGISTRATION

3rd date: Oct 24th, 2024

Morning: 8:00 a.m.

Europe, Berlin

Duration: 45 minutes

REGISTRATION

4th date: Oct 24th, 2024

Afternoon: 3:00 p.m.

Europe, Berlin

Duration: 45 minutes

REGISTRATION



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Recording and Analysis of Energy Data – Module 4

(0-GB-Wk-Kk-SFS-4-energy)



TARGETS

Rising energy and material prices represent a new challenge for die casting foundries. Energy and material demands must be recorded and their use optimized as best as possible. We will present various sensors and components from smartfoundry.solutions that allow energy and process media data to be recorded with minimum effort and allow high-quality analysis.

CONTENT

- Presentation of sensors for energy and process media data acquisition
- Presentation of the Data Connector for aggregation of sensor data
- Presentation of Platform Applications for visualization and analysis of energy and process media data
- Discussion of selected case studies

NOTE

This is the fourth of 4 smartfoundry modules.

Please also note:

- Module 1 „smartfoundry.platform“
- Module 2 „Data Connector“
- Module 3 „Production Transparency Boards“



TARGET GROUP

Management, executive board, foundry management and anyone interested in smartfoundry systems



PREVIOUS KNOWLEDGE

Not needed



EVENT DATE

1st date: Apr 4th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 45 minutes

2nd date: Apr 4th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 45 minutes

[REGISTRATION](#)

[REGISTRATION](#)

3rd date: Nov 7th, 2024
Morning: 8:00 a.m.
Europe, Berlin
Duration: 45 minutes

4th date: Nov 7th, 2024
Afternoon: 3:00 p.m.
Europe, Berlin
Duration: 45 minutes

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FRECH

REGISTRATION AND BOOKING

You choose an online seminar or consulting module and register by mail using the registration form provided.

COSTS

Please refer to the individual seminar descriptions for costs.
We charge per access, i.e. per customer with max. 5-6 participants.

AFTER BOOKING

Please provide us with the relevant email addresses of the participants who will be attending the online seminar. Unknown mail addresses or participants cannot attend for security reasons and will be removed from the online seminar.

30 MINUTES BEFORE THE SESSION

- We will send you a link to start the training
- We at FRECH are currently working with ZOOM
- You can find more information about Zoom at <https://zoom.us/>.
- For laptops / desktop PCs no preparation is required
- Tablets / smartphones require the download of the application „Zoom“.
- On the homepage of „ZOOM“ via „Support“ into the „Help Center“ > „First steps“ > „Mobile devices“

SHORTLY BEFORE THE SESSION

Connection check on both sides to image, sound and camera. For your part, please use the rooms provided for this purpose. Recording of an online seminar is generally not permitted.

SHORTLY AFTER THE SESSION

We are sending documentation and certificates of participation in the case of payable online seminars. Feedback - We always want to improve, so we welcome your feedback on our online seminar, even afterwards, at: gramm.sabine@frech.com.

CANCELLATION CONDITIONS

Online training courses can be canceled free of charge up to one week before the start of the seminar; for cancellations from 4 days before the start of the seminar, we reserve the right to charge 50% of the seminar fee. If you cancel less than 1 day before the start of the event and if you do not log in, the full participation fee is due.

INFORMATION

Seminar inquiries, questions about registrations and information can be obtained from Ms. Sabine Gramm.

Tel: 0049 (0) 7181 702-249

Mail: gramm.sabine@frech.com

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