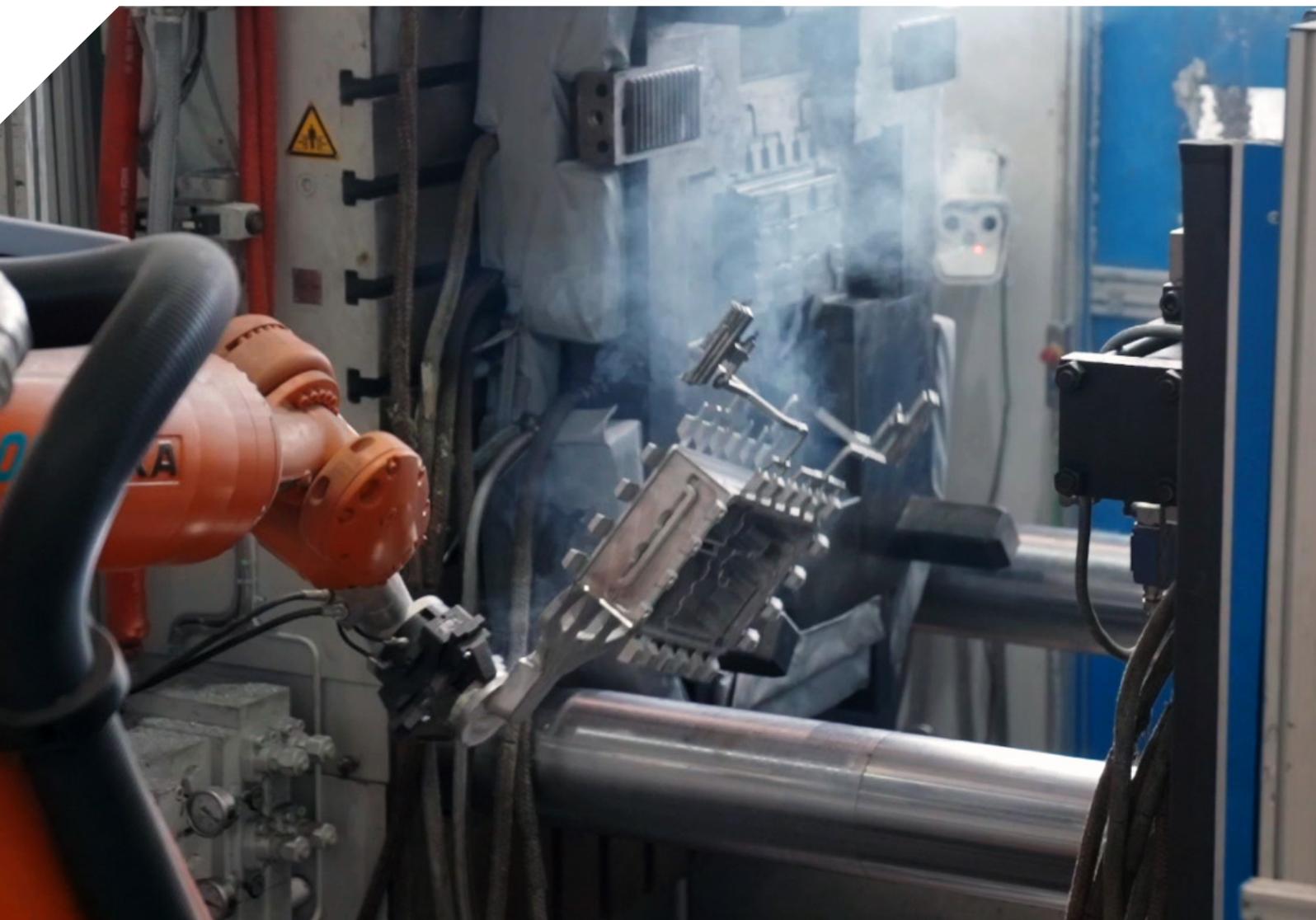


COLD CHAMBER DIE CASTING PRODUCTION 850 - 9200 T CLAMPING FORCE

From incoming goods to outgoing goods

The know-how of the employees and the availability of the machines is the basement for the quality and efficiency of an aluminium and magnesium die-casting production. This means that correct and sensible designs are the basis for process-reliable production. Resources for engineering and product development are usually very limited. However, these factors have a considerable influence on casting quality, tool life, testing effort and rework costs. A detailed consideration of the influencing variables saves costs and time in numerous cases.





TOTAL TRAINING TIME 5 DAYS

QUALITY OPTIMISATION & QUALITY ASSURANCE IN AL/MG HPDC

MODULE 1 - 1 DAY
PROCESS INPUT
VARIABLES

MODULE 2 - 2 DAYS
PROCESS
DEVELOPMENT

MODULE 3 - 2 DAYS
PROCESS EVALUATION

A profound understanding of **quality optimisation & quality assurance** of your products is the goal of the modular training. This ensures the successive formation of a uniform and technically correct communication of your employees and the required quality over the entire production period (from SOP to ramp-down) with stable performance.



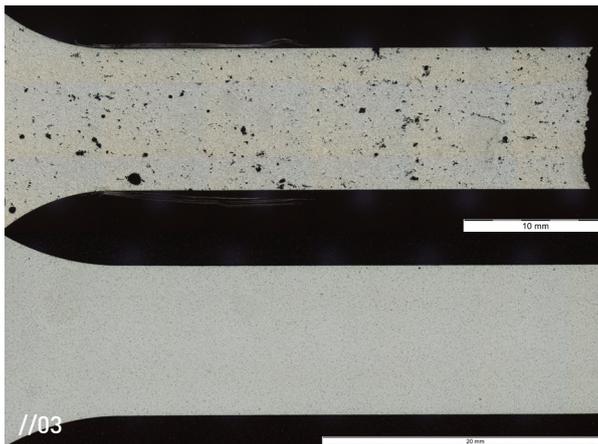
MODULE 1

PROCESS INPUT VARIABLES EVALUATION AND ANALYSIS

This module handles the numerical framework conditions based on the theoretical principles of a mould filling simulation: What can be simulated - what cannot? We mirror production framework conditions into the simulation and evaluate them according to how they can be influenced. Your employees learn in which way these framework conditions have an influence, for example, on the constructive design of the component.



//02



//03

MODULE 3

PROCESS EVALUATION COMPONENT-RELATED PROCESS OPTIMISATION

This module concludes the theoretical part of a product development and manufacturing process and is dedicated exclusively to practice-oriented tasks. Questions about the characteristics and definition of defects as well as their localisation possibilities in simulation and serial production are answered here. Last but not least, we develop approaches to solutions and sustainable elimination measures: The participants now independently implement sustainable optimisations based on the results from casting simulation and defect analysis into serial production.

MODULE 2

PROCESS DEVELOPMENT PROCESS AND MOULD DESIGN

This module covers some short calculations, which concern the necessary requirements such as the periphery in the production and the casting system design. Another important topic is the selection of materials and the associated production requirements. Here we develop solutions and remedial measures in the team and on components from your portfolio, which are then put into practice after the training.

//01 Casting cell 1200to Frech DAK112 with: DGF "cast pipe" incl. VDS vacuum unit / Meltec dosing system Al&Mg / Robamat temperature control units / Wollin conv. linear & minimum quantity and infrared camera for process monitoring at LKR

//02 "Casting pipe component"

//03 Influence of vacuum support on casting quality shown by metallographic results at the LKR

INFORMATIONS

PARTICIPANTS

Employees from the areas of casting production, machining, technical sales, process and product development, quality assurance and work preparation.

NUMBER OF PARTICIPANTS

Maximum of ten participants per module

TRAINING DURATION

- **Single Module 1** 1 day (950€/person)
- **Single Module 2** 2 days (2.200€/person)
- **Single Module 3** 2 days (2.600€/person)
- **Booking complete package** 5 days (4.900€/person)

Cost saving complete package
to single booking 850€ per person

Individual training modules: by arrangement

TRAINING LOCATION

LKR Leichtmetallkompetenzzentrum Ranshofen GmbH
Lamprechtshausenerstraße 61
5282 Braunau am Inn - Ranshofen | Austria

REGISTRATION

www.ait.ac.at/en/casting

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