

## Casting Solutions\_Die Casting



**Foundry products are the basis of a lot of everyday objects – from the mobile phone to the automotive gear housing. These components are mostly produced by die casting procedures. KUKA offers integrated, adapted automation concepts.**

### **The Technology**

In die casting the liquid metal is pressed with high pressure into a die casting mold in which it solidifies. This process achieves a high casting quality despite the high speed at which it is performed and is especially suited to components with thin walls. The particularity of this casting technology is a permanent die casting mold which – once produced – can be

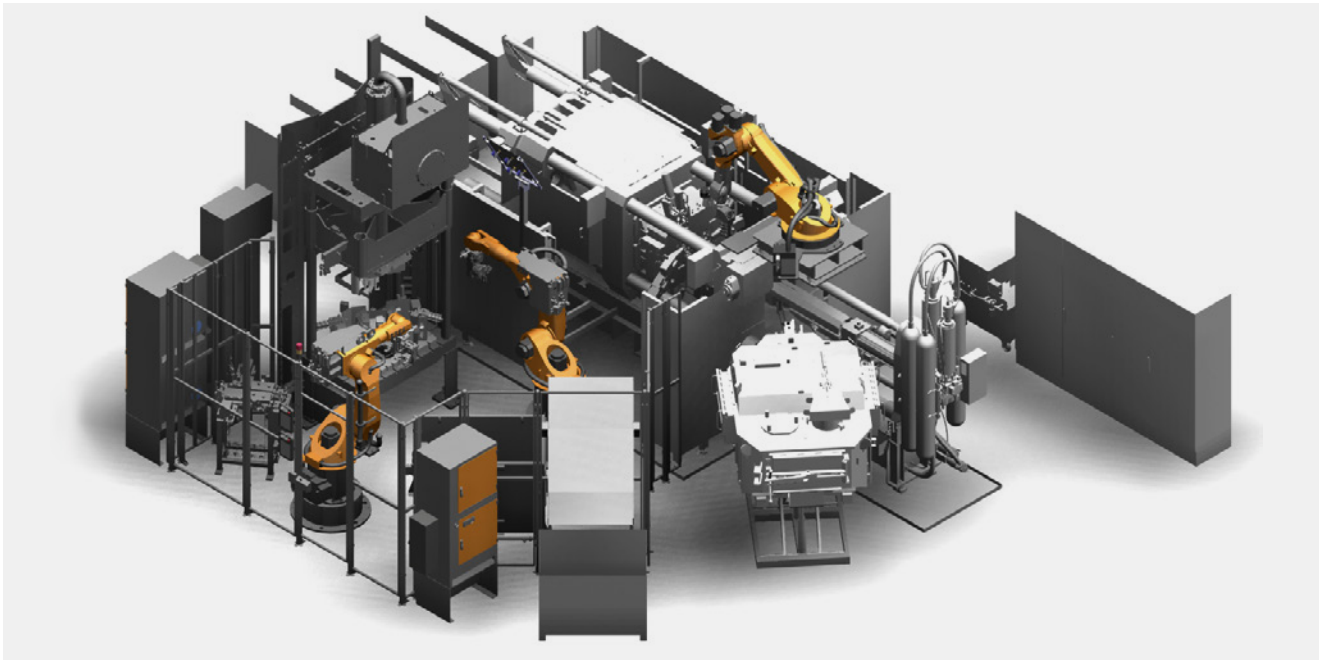
used for ten thousands of parts. This is why the die casting process is mainly used in the mass production of construction parts.

### **Automated die casting**

With its automation solutions for the die-casting industry, KUKA covers all tasks in the field of die casting: Starting from foundry-specific removal from the die casting machine via die spraying and quenching of the parts and subsequent trimming with trim presses and trim tools. From process simulation and visualization via follow-up processing to the cell control and quality assurance, consistent, field-proven, own solutions are available. For your production from removal of the part up to the finished component.



## Casting Solutions\_Die Casting



### Your advantages

- The complete system is controlled consistently and without interface problems
- A field-proven software developed in our house connects all components including the peripheral equipment
- Based on the VDMA interface standardization "DISPO", the robot control gathers the information from all active components and peripheral units and evaluates them as leading system
- A monitor in the operator housing at the casting cell gives a view to all production-relevant information
- To ensure greater security of investment for your production, saving energy is a top priority when designing the systems

### Our products

- Spray robot
- Removal robot
- Removal gripper
- Parts integrity control
- Cooling station (water or air cooling)
- Cell control/visualization
- Marking system
- Trim press
- Trim tool
- Processing stations
- Conveyor belts
- Outfeed chutes
- Parts separation
- Cell enclosure

For further information please contact us at  
[casting.industries.de@kuka.com](mailto:casting.industries.de@kuka.com)