

Increase Yield and Safety in Foundries

Optimizing processes and protecting people and machines with MOBOTIX video technology

- Quality assurance (Foundry monitoring)
- Process and temperature monitoring
- Workplace safety
- Access control
- Perimeter protection



Five central areas in foundries

in which you can protect people and assets and optimize values and optimize processes:

1 Quality Assurance - Die Casting

Constant process and holding temperatures of molds and/or workpieces avoid scrap during or after the production of die cast parts. MOBOTIX monitors the workpieces using trained neural networks and thermal TR modules.

2 Quality Assurance - Injection Molding

The correct process and holding temperatures in the low temperature ranges are elementary. The quality and productivity specifications require compliance with these ranges and special cooling processes. Here, too, MOBOTIX is able to offer professional thermal imaging systems with thermal TR modules can significantly support process control.

Practical example of an aluminum foundry from the automotive industry

Area	Effect of the MOBOTIX system
Investment	5.000€* p. camera
Efficiency gains per month (automation, productivity, avoiding losses, etc.)	2.500 € p. camera
Amortization time	2 months
Efficiency gains (over 5 years)	150.000 € p. camera

*Typical system comprising 1 camera and software for 1 aluminum pressing unit

3 Safety in the Workplace

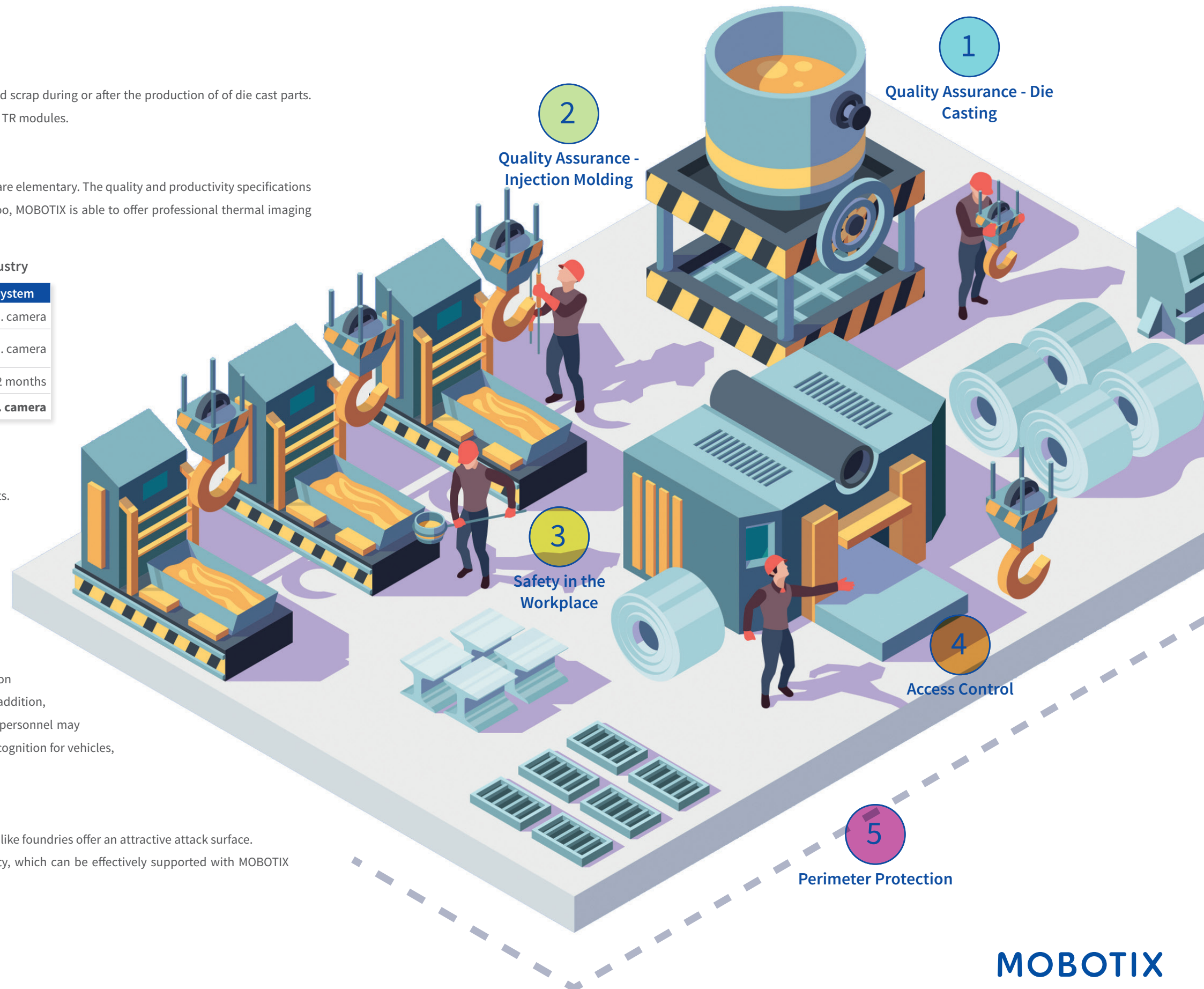
Employee protection is essential in safety-critical areas of industrial plants. Working with hazardous substances and at high ambient and surface temperatures and liquid metals in foundries pose particular risks. MOBOTIX offers helpful apps and solutions for this, such as fall detection or the detection of protective equipment (helmet, mask, vest, etc.) via camera.

4 Access Control

Industrial companies maintain a discreet approach to internal information and processes, so access for employees and visitors is strictly controlled. In addition, there are special safety-critical work areas to which only authorized/trained personnel may have access. With IP video door stations, individual apps, and license plate recognition for vehicles, MOBOTIX supports the security of these entrances and exits.

5 Perimeter Protection

With a lot of expensive, high-value materials and equipment, industrial plants like foundries offer an attractive attack surface. Securing the premises around the clock is an essential task of plant security, which can be effectively supported with MOBOTIX system.





MOBOTIX Video Systems - Robust, efficient and flexible

MOBOTIX offers industrial quality insensitive to high ambient temperatures, dust and dirt. Reduced power consumption, bandwidth-optimized applications, fail-safety (no single point of failure) characterize the flexible systems. MOBOTIX reduces the expenses for a new network infrastructure to a minimum and thus achieves measurable return on investment (e.g., system downtime, insurance sums in the event of damage, etc.).

MOBOTIX thermal cameras are a worthwhile alternative to dedicated industrial cameras. Camera APIs and onboard I/Os enable seamless integration/remote control in existing industrial systems. The modular concept incl. Custom App Development Service allows short-term adaptation to a very dynamic market (e.g., due to legal or social aspects).

Intelligent Video Security Solutions Made in Germany

MOBOTIX offers a comprehensive range of solutions for all aspects of video-based security. We develop high-quality, decentralized, energy-efficient systems that mean our customers save money on every MOBOTIX system installed.

Our motto **BeyondHumanVision** is also our mission: MOBOTIX is fully committed to making itself the most reliable company it can be, one that protects people and property by using intelligent, cyber-secure video technology to go beyond human vision.

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