Insertec DIGITAL SERVICES

Enhancing Control, Safety, and Efficiency

ROBOTIZATION \

GARBI – EUTSI



insertec
Furnaces & Refractories

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DIGITAL
SERVICES

Enhancing Control, Safety, and Efficiency

Automation & robotization: a union for safe work.

Technologies that reduce risk and boost safety while enhancing people's capabilities and redefining their roles. Together, they form the unstoppable engine that drives us forward.

As we develop these technologies, we optimize processes, reduce operational costs and raise the quality of our products. All these gears are driving us towards a future perspective where work will have fewer risks and infinite possibilities.

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GARBI-AL \

- Melting tower | Aluminium industry

GARBI-AL is specially designed for skimming and optimization operations of melting towers.

The robotic cell evenly distributes the material in the melting area, minimizing clogs and stoppages, and performing automatic skimming of the molten aluminium periodically, avoiding the appearance of corundum. User-defined trajectories and operations allows to maintain a high-quality and high-yield melting process.

It runs quickly, effectively and safely, by guaranteeing maximum safety for the plant operators and improving their working conditions. Connected to our integral plant management software, it collects information about the most critical points of the furnace, and thus contributing to improve its performance.



Advantages:

- Fast intervention with minimal downtime
- Unattended and automatic skimming system
- Operator safety enhancement
- Connection to plant management software



Robotized | Data based | 95% Unattended

Garbi-AL-Video

GARBI-HIC \

- Induction furnace | Steel industry

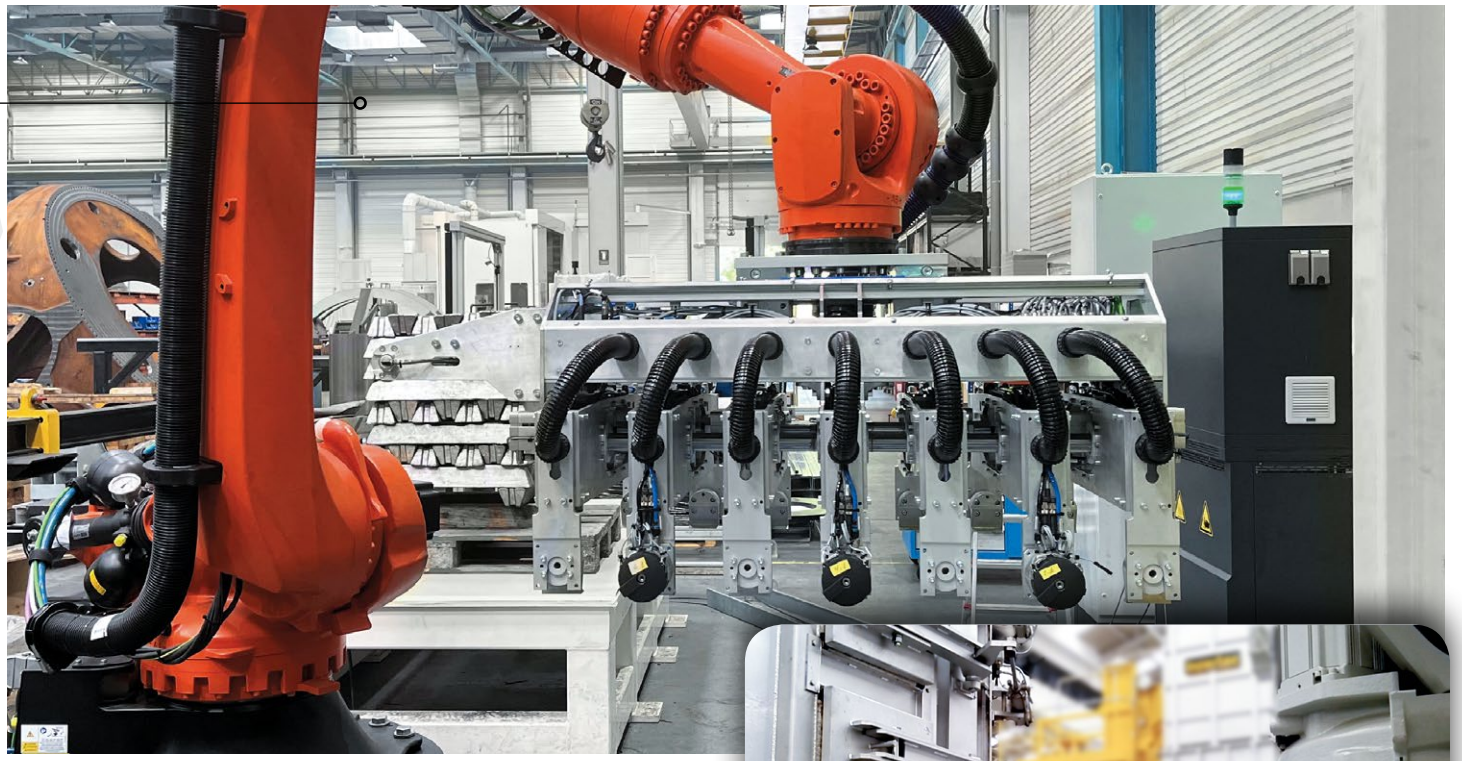
A robotized solution to minimize human risk and exposure at induction furnaces.

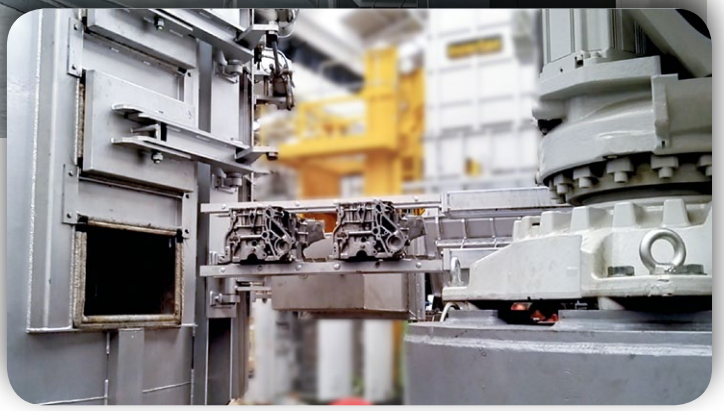
The melting process could be relied on data-based decisions, and thus, optimizing process duration and maintenance schedule with the support of a fully automated and tailor-made system.

Advantages:

- Deslagging process throughout multiple and adjustable cleaning cycles.
- Automatic or semi-automatic mode.
- Refractory wall de-drossing and cleaning.
- Alloy, salts and flux automatic dosing system.
- Automatic Tª measurement and TC substitution.
- Automatic aluminium sampling for analysis.
- Automatic tool painting station.







EUTSI \

- Multi-purpose handling system

1. Operations of handling and transporting parts inside heat treatment furnaces: the equipment is self-regulated without the intervention of the operator, ensuring maximum safety at maximum performance.

2. Handling and transporting final products with custom-made storage solutions. Sorting, weighing, labeling, palletizing and strapping of aluminum ingots.

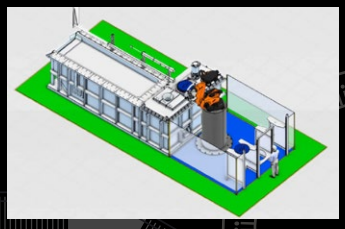
Advantages:

- Fast and precise operations, equipment self-regulation, minimum downtimes and error minimization.

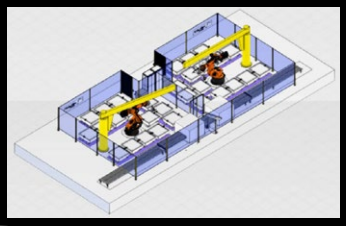
R&D \

- Other ongoing developments

In order to improve plant efficiency, minimize risks and increase plant knowledge, our R&D team is working on new process automation solutions.



Sidewell skimming and impeller management robotic cell



Sow management robotic cell



Agile logistics and mold shop management robotic cell



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