MultiROB

Multi-functionality
Rapidness & Reliability
Operator Safety
Best Technology

Principles.
- Implementation of a standard industrial robot upgraded with special equipment and features for steel plant operation.
- Installation at any kind of EAF, LF or BOF. Easily adjustable to new situations.
- Basic functions:
  - Temperature and sample taking
  - Automatic cartridge exchange
  - Tool exchange
  - Furnace inspection with camera
- Wide range of further development options and applications

Concept.
- Remote controlled from the operator room.
- Intelligent detection of collision risks stops the robot and retracts it back into parking position automatically.
- Cartridge exchange either manually by operator in safe distance or automatically, based on a classical cartridge rack enabling the concurrent storage/usage of different cartridge types.
- Tool exchange by mechanical clamping of two plates equipped with pins and holes.
- Detailed furnace inspection with camera tool for detection of skulls, hazardous water leakages, bath level and refractory status.

Advantages.
- Massive improvement of safety and work conditions.
- Minimum space requirement.
- Reliable operation – heat and dust protection of relevant parts.
- Quick and easy maintenance.
- Increase of flexibility – tool exchange provides for multiple functions with solely one robot.
- No interruption of power-on cycle and foaming slag practice during temperature and sample taking.

NEW!

Intelligent casing design for effective heat protection and reliable operation.

Cartridge exchange rack for automatic sample taking/temperature measuring cycle.

Fully automatic tool exchange...

...also enables the usage of a camera tool for furnace inspection.

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We are Steelmakers!

BSW and BSE – a unique partnership that will help you to reach even ambitious goals.

Since 1983, the Badische Stahl-Engineering GmbH (BSE) has been acting as a service provider for increasing the efficiency and productivity in the electric steel industry worldwide.

BSE is a sister company of the Badische Stahlwerke GmbH (BSW), one of the world’s most efficient Electric Arc Furnace steel plants.

This unique partnership between BSW and BSE ensures that all products and services provided by BSE are not just based on mere theory, but on more than 5 decades of own proven operational experience.

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