

MultiROB

Multifunctionality
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

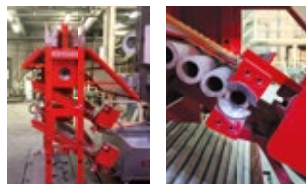
NEW!



Intelligent casing design for effective heat protection and reliable operation.

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.



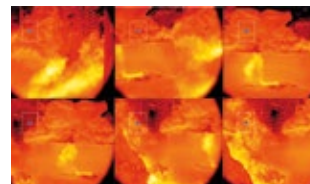
Cartridge exchange rack for automatic sample taking/temperature measuring cycle.

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.



Fully automatic tool exchange...



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

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