polytec
APPLIED ROBOTICS
WORK SAFELY, THINK ROBOTIC

PolySAMPLE LF

ROBOTIC SOLUTION FOR SAMPLE PICKING AND TEMPERATURE MEASUREMENT IN LADLE FURNACE

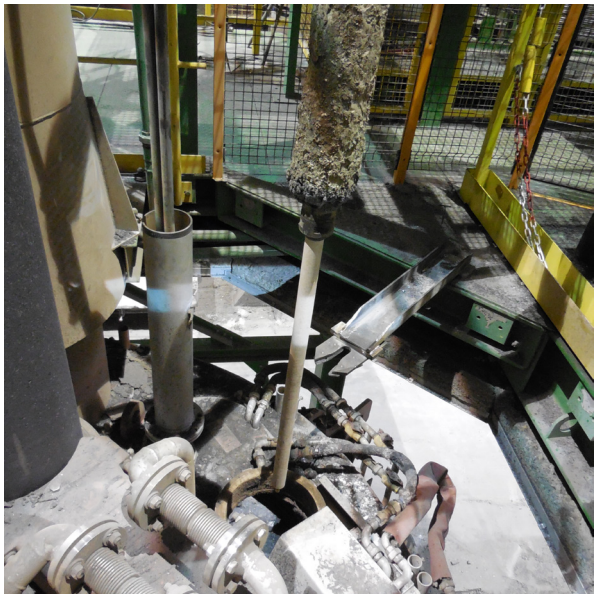
PolySAMPLE LF

The system is constituted by an heavy industrial Robot, insulated with textile thermal protection with temperature control. The six-axis robot provides the measurement of temperature, oxygen and the sample picking.
The cell can have more of one warehouse with 60 sensors in order to work in a totally automatic way, without intervention of operator upside the ladle.
The cell can be equipped with an automatic station to clean sample and transport to operator station.

PolySAMPLE LF benefits:

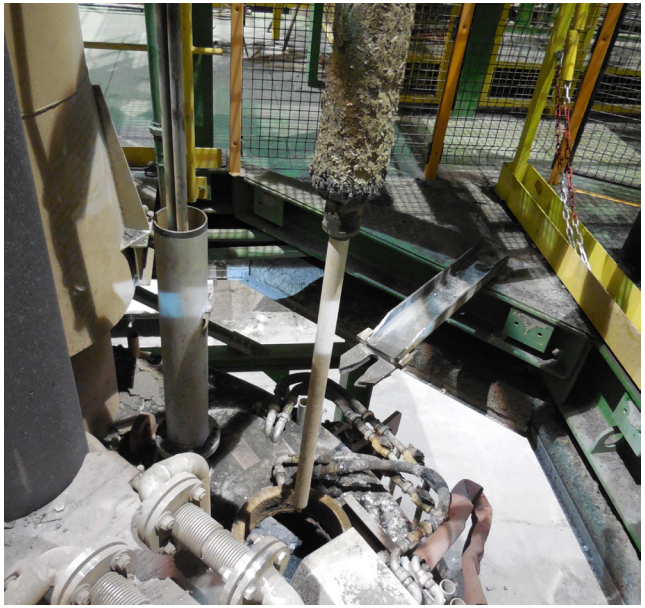
Reduce time and consequently energy for each heating cycle typically from 30" to 2'
Reduction of the additives in the ladle due to repeatability of measure.
Increased the efficiency of 2 – 4 %
Heavy-duty textile thermal protection insulation.
Six axis industrial heavy-duty robot for high precision position system.
Dynamic parameterization of inclination, height and speed on molten steel.
Working range up to 3500 mm.
Designed for use in confined spaces.
Advanced algorithm for collision detection in order to guarantee the safety of lance and arm.
Special software functionalities for homing recovery.
Scalability of the product by simple manipulator to fully automated complete laboratory analysis feasible in separate steps.

FEASIBILITY STUDY on COSTUMER NEED



DESIGN I SIMULATION I PRODUCTION

YOUR ROBOTIC SOLUTION



LET'S WATCH THE VIDEO!

YOUR ROBOTIC SOLUTION

ENHANCED SAFETY

ZERO DOWNTIME

AVAILABLE SERVICES

Technical Support

Installation and Setup

Maintenance

Application Support

Hardware Support

Guaranteed Warranty

Remote Access via VPN

AVAILABLE SOLUTIONS:

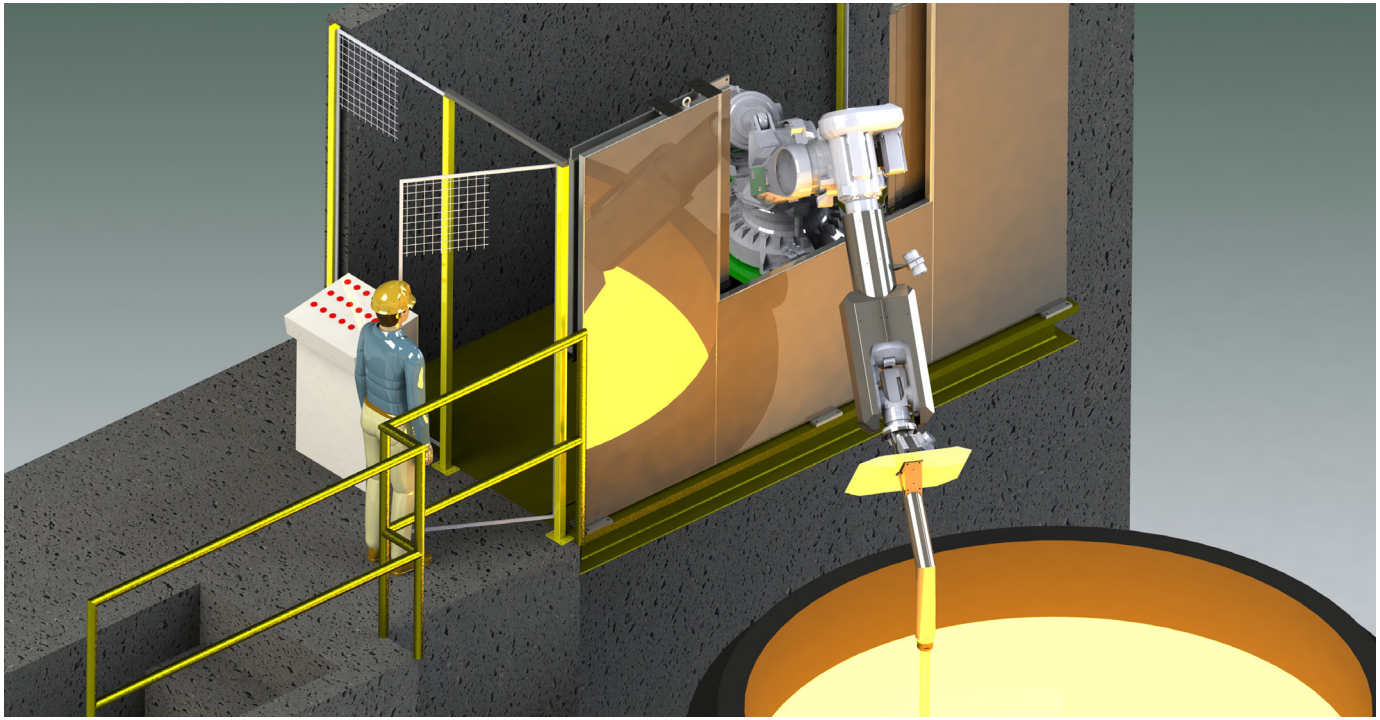
PolySAMPLE LF is composed by:

Robot with manual charge of cartridge.
Container with cartridge warehouse
(as option).

PolyCLEAN for automatic cleaning sample (as option).

PolyBELT for transportation of sample to laboratory (as option).

PolyLAB for automatic analysis and marking of sample with data and image storage (see dedicated document).



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