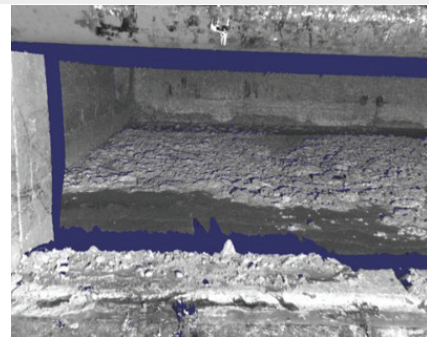


ARFT

PATENT
PENDING

— Automatic Robotic Furnace Tending

A multifunction, programmable, high-range robotic unit for skimming, cleaning, stirring and alloying operations in aluminium remelting and casting furnaces.



BENEFITS

- Reduced Opex:
 - Reduction of refractory breakage
 - Reduction of operating personnel
- Increased security; eliminates operator exposure to hot metal
- Skimming accuracy allows reduction of metal losses in dross
- Regular cleaning of furnace to ensures cleaner metal and prevents metal accumulation
- Reduction of production losses due to dirty metal in furnace

TECHNICAL FEATURES

- Multifunction robotic operations:
 - Skimming
 - Cleaning
 - Stirring
 - Alloying
 - Sampling
- Mobility/transportation options:
 - By AGV: Automated displacement and positioning via Auto-Guided Vehicle
 - By rail
 - By dedicated vehicle
 - By forklift
- Powered by rechargeable electric batteries
- Vision system:
 - Dross identification
 - Quality control of skimming and cleaning