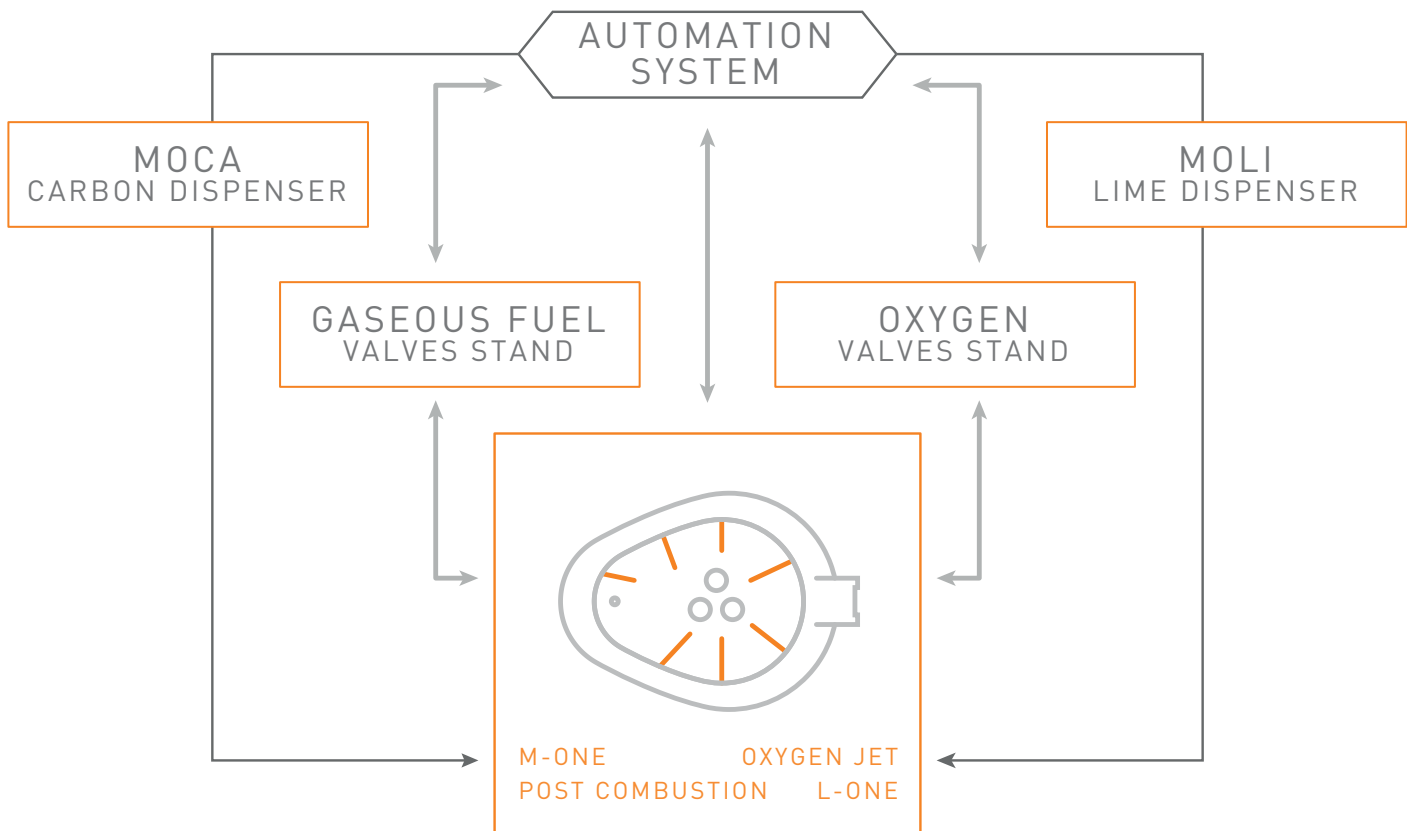


MODULE TECHNOLOGY

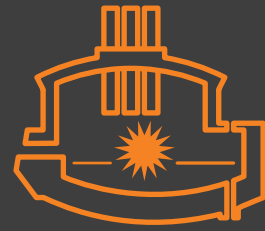
OXYGEN, CARBON AND LIME SIDE WALL INJECTION TECHNOLOGY FOR ELECTRIC ARC FURNACES

The **MODULE TECHNOLOGY**: state-of-the-art chemical energy package for electric arc furnaces, combines a variety of fixed injectors and related control devices (i.e.: valve stands, carbon/fluxes dispensers, automation system and Human Machine Interface). Injectors add chemical energy by exothermic reactions, post-combustion control and foaming slag optimization to improve the overall EAF performances and to reduce transformation costs.

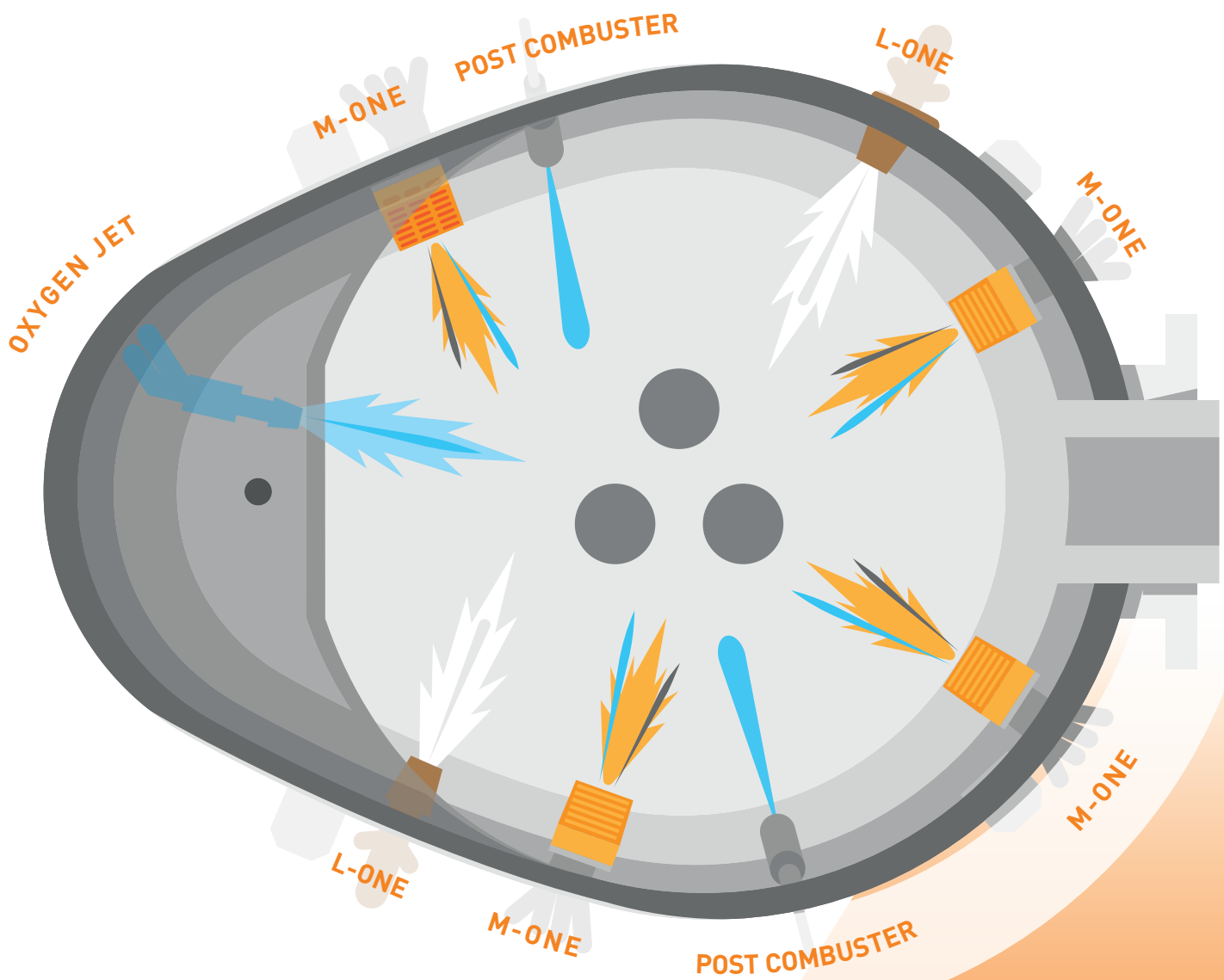


BENEFITS

- Increased oxygen efficiency and carbon recovery.
- Increased metallic yield.
- Increased productivity.
- Improved foaming slag conditioning.
- Improved metallurgical process control.
- Improved overall operating efficiency.
- Improved process gas emission.
- Reduced fuel usage.
- Reduced electrical energy usage.
- Reduced power-on time.
- Reduced conversion costs.



**CHEMICAL
ENERGY
PACK**

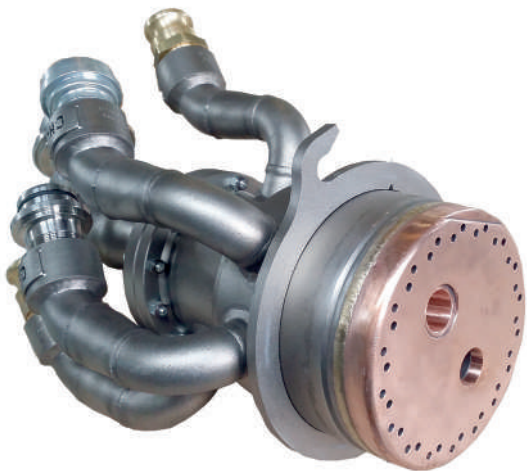


MORE



M-ONE

M-ONE is an advanced side-wall injector which integrates three functions in a single unit: burner, supersonic oxygen and high-efficiency carbon injection.



MIXED SWIRLED FLAME
BURNER



HIGH EFFICIENCY SUPERSONIC
COHERENT OXYGEN LANCING



HIGH MOMENTUM COAL
INJECTION



OXYGENJET

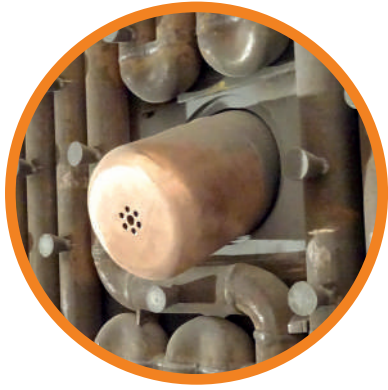
OXYGENJET is dedicated supersonic oxygen for lancing. It is mostly used as a supplementary injection point, especially to clean the scrap and the skulls at the sump area, in order to assume EBT free-opening.



MIXED SWIRLED FLAME
BURNER

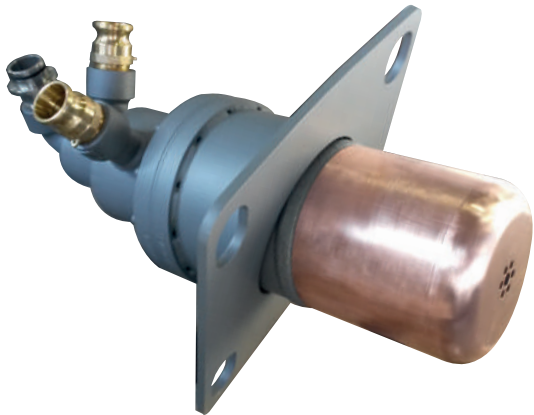


HIGH EFFICIENCY SUPERSONIC
COHERENT OXYGEN LANCING



POST COMBUSTOR

The **POST COMBUSTOR** is a dedicated tool to manage the post combustion within the EAF shell by injecting low speed oxygen during every melting phase.



MAXIMIZATION OF THE POST-COMBUSTION INSIDE THE FURNACE

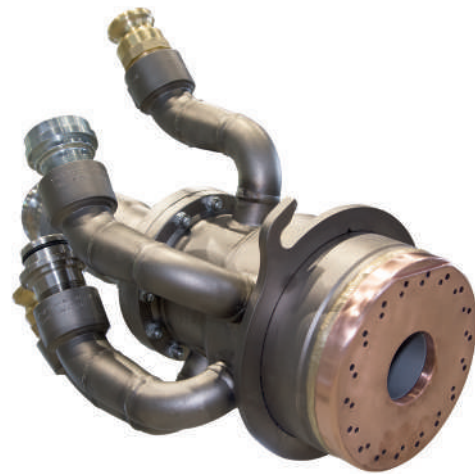


DYNAMIC CONTROL OF THE OXYGEN FLOW RATE BY THE CO₂ AND CO READINGS FROM THE OFF-GAS ANALYSIS SYSTEM



L-ONE

The **L-ONE** is a side-wall injector specifically designed to inject grain sized slag formers with a speed up to penetrate the thick slag layer.



MIXED SWIRLED FLAME BURNER



HIGH MOMENTUM LIME INJECTION



REFRACTORY HOT SPOTS PROTECTION

MORE

W

R

O

N

MORE

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