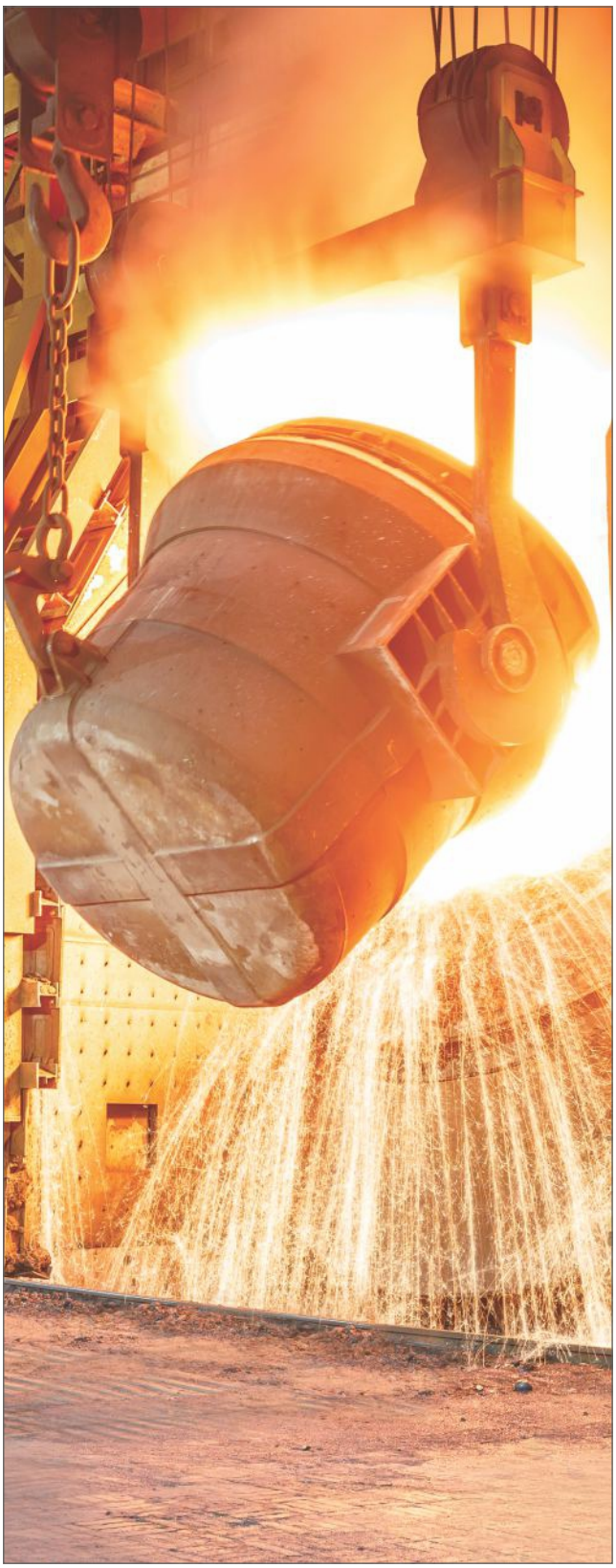
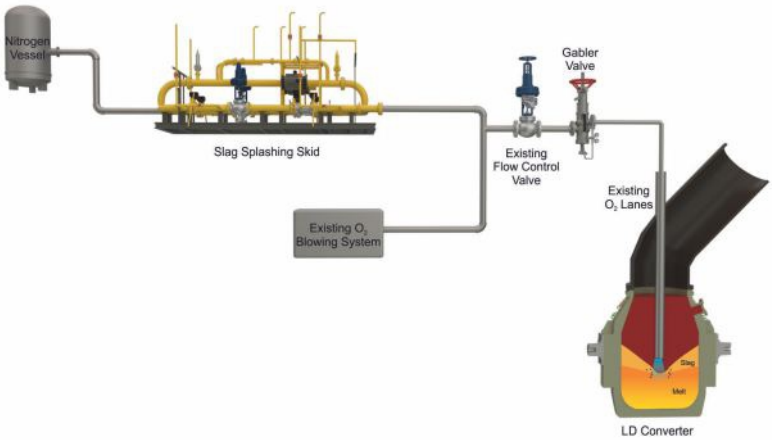
Slag Splashing System

Ready to Install Skid for Steel Making



Process



Slag splashing is a powerful technique available to steelmakers for increasing the lining life of LD converters, maximising production from the existing equipment and reducing refractory and gunning cost.

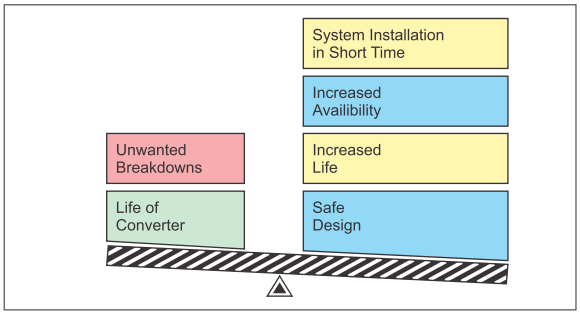
Slag splashing involves injecting nitrogen into a conditioned slag at a given flow rate and lance height. The existing oxygen lancing equipment is used. By varying the lance height and nitrogen flow rate slag can be selectively targeted and blown into particular areas of the furnace. Slag splashing is faster than slag coating, process time varies between 1 to 4 minutes.

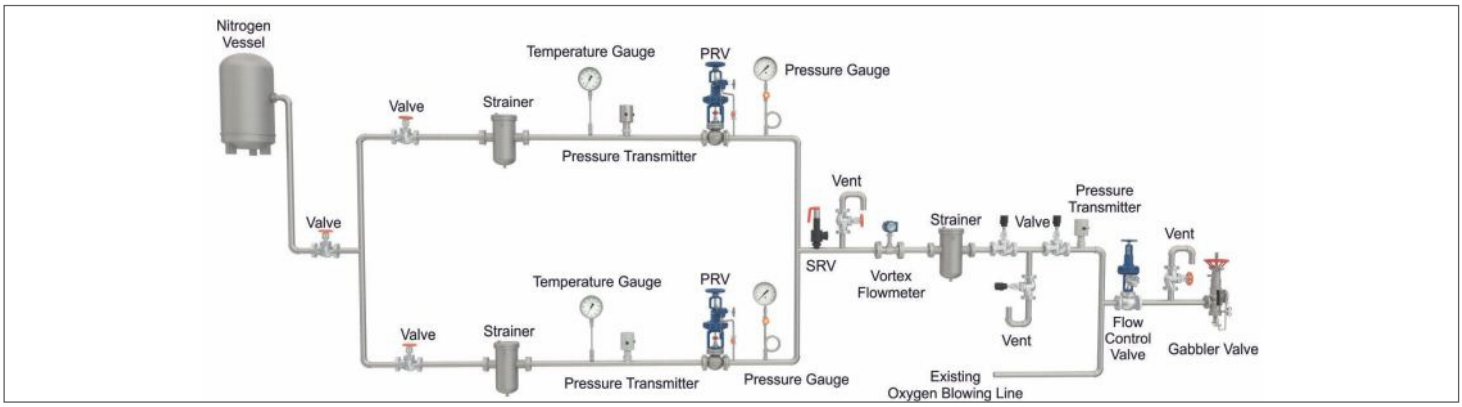
Slag splashing begins when the laser readings show a defined wear area in the refractory. Typically, slag splashing is initiated when the refractory thickness is reduced to 4 or 5 inches. The wear areas usually express themselves in the barrel trunnion area. Erosion of the refractory leads to reduced converter life. Breakdown due to this leads to huge loss of production.

Once slag splashing is initiated it should be done on a regular basis. Most mills practice slag splashing after every heat. Regular laser readings are taken to ensure that the desired furnace refractory quality parameters are maintained..

The Forbes Marshall Solution

Forbes Marshall offers a reliable engineered skid system that is safe, quick to install and easy to operate.





Features and Benefits

Pre-fabricated, factory tested, certified, easy to install skid based solution

90% of the components connected to the oxygen and nitrogen lines such as flow and pressure transmitters, tight shut-off ball valve, strainer and safety valve are manufactured in-house

Built in safety interlocks for smooth commissioning

Increase in refractory lining life by up to 20,000 heats and reduction of gunning rates to 500 grams per ton of steel

Recycling of steel making slag

Reduced flux consumption

Low cost of engineering and site installation

Cost of engineering is reduced as it can be completely done by us

Other Systems

RH dessing skid

S-Purge caster mold and tun-dish purging stations

LF top and bottom purging skids

Converter bottom stirring station

Oxygen Pressure Reducing Skid and Nitrogen Pressure Reducing Skid

Steam conditioning station for ejector

Skid for secondary cooling

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Forbes Vyncke
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