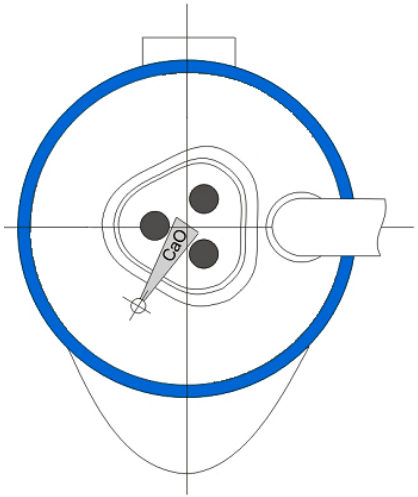
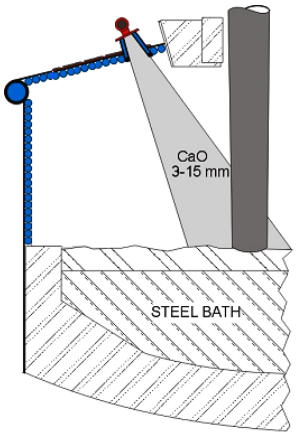
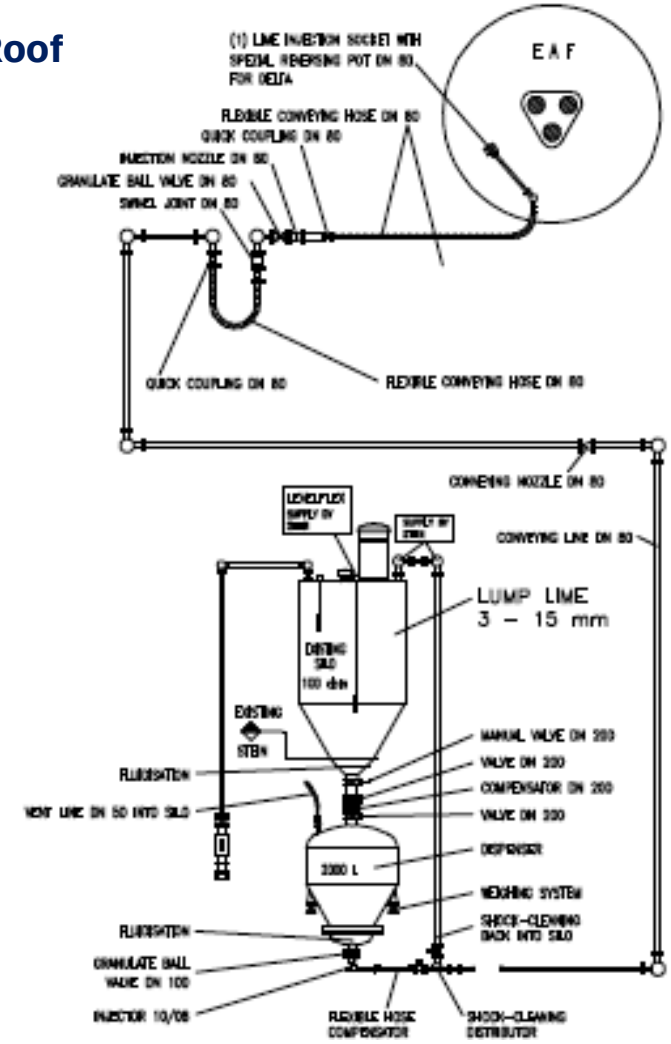
SLAG TREATMENT - Injection via Furnace Roof

Basic Layout:

The Lime will be injected via the furnace roof directly into the Delta between the electrodes.







SLAG TREATMENT - Injection via Furnace Roof

PROCESS PARAMETER :

Pipe / Hose diameter:	3“
Flowrate:	up to 500 kg/min
Lime:	Lump Lime (CaO content > 90%) Grain size: 6 - 15 mm, max. 18mm Bulk Density: ~ 1,0 t/m³
Media:	Dry Air / N_2 , depending availability
Pressure:	6 bar constant
Media consumption:	depending on flow rate

ADVANTAGES AND DISADVANTAGES :

Pros:
- Very high flow rate possible
- Early injection in melting cycle
- Injection into the furnace hottest area (Delta between electrodes)
- Fast melt down of Lime due to portion wise injection
- Fast roof exchange due to installation of spare roof

Cons:
- Lime fines will be exhausted into Back-house
- Roof / Spare roof installation necessary
- Purge media required
-Modification of roof panel necessary