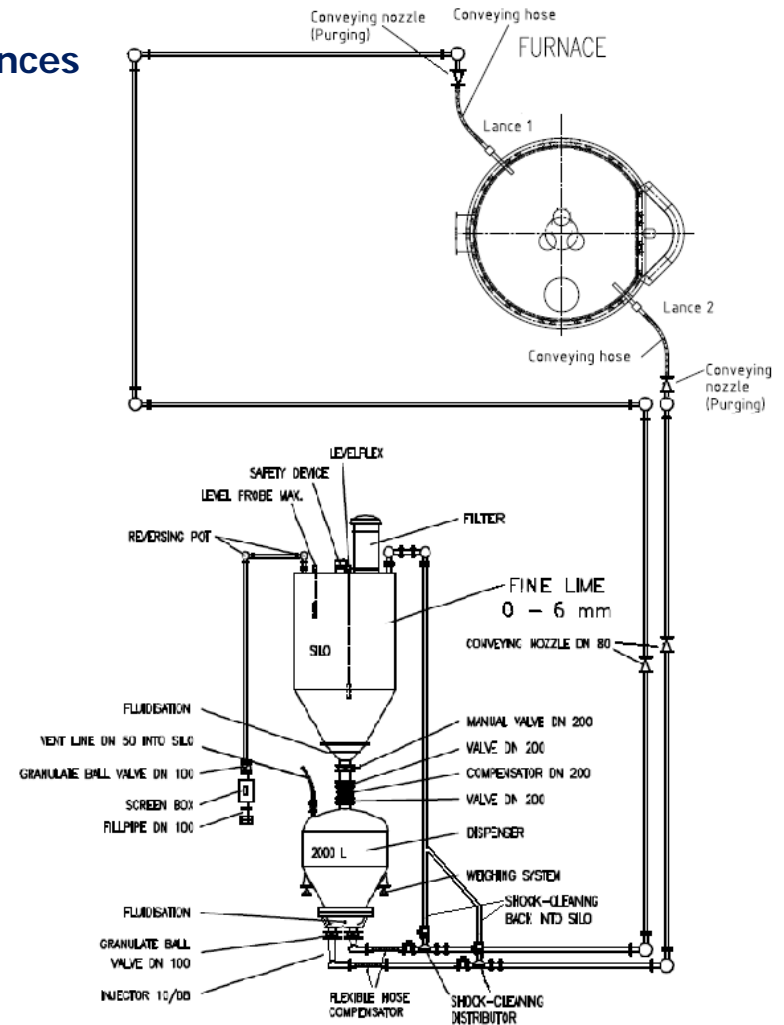
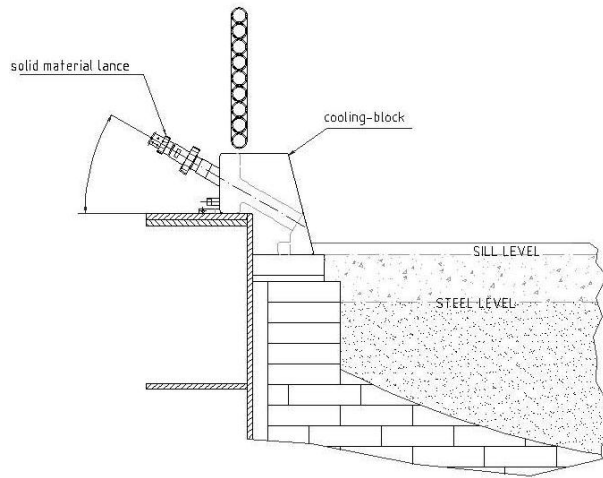


SLAG TREATMENT - Injection via Sidewall-Lances

BASIC LAYOUT :

The lances must be installed at the sidewall so that the Lime will be injected directly into the hot areas of the furnace and shall be turned into the rotation direction of the melt.



SLAG TREATMENT - Injection via Sidewall-Lances

PROCESS PARAMETER :

Pipe / Hose diameter:	max. 2"
Lances recommended	2 -3 pcs.
Recommended diameter:	1-½ "
Flowrate:	up to 150kg/min per line
Lime:	Dolomite Lime (MgO) Lump Lime (CaO) Grain size: 3 - 6 mm, max. 10mm Bulk Density: ~ 1,0 t/m ³
Media:	<u>Dry</u> Air / N ₂ , depending availability
Pressure:	6 bar constant
Media consumption:	depending on flow rate

ADVANTAGES AND DISADVANTAGES :

Pros:

- Lime injection into foamy slag (less lime in Bag-house)
- Support of slag foaming
- Distributed injection (2-3 injection points)
- Flow rate adjustable by DQRS, if necessary
- Installing of clogging prevention system possible.

Cons:

- Injection only during refining phase possible
- Danger of Iceberg / Balcony formation
- Consumable Lance-pipes need maintenance
- Max. lance diameter 40mm = max. flow rate of ~150 kg/min
- High air consumption (Purging necessary)
- Modification of furnace shell necessary