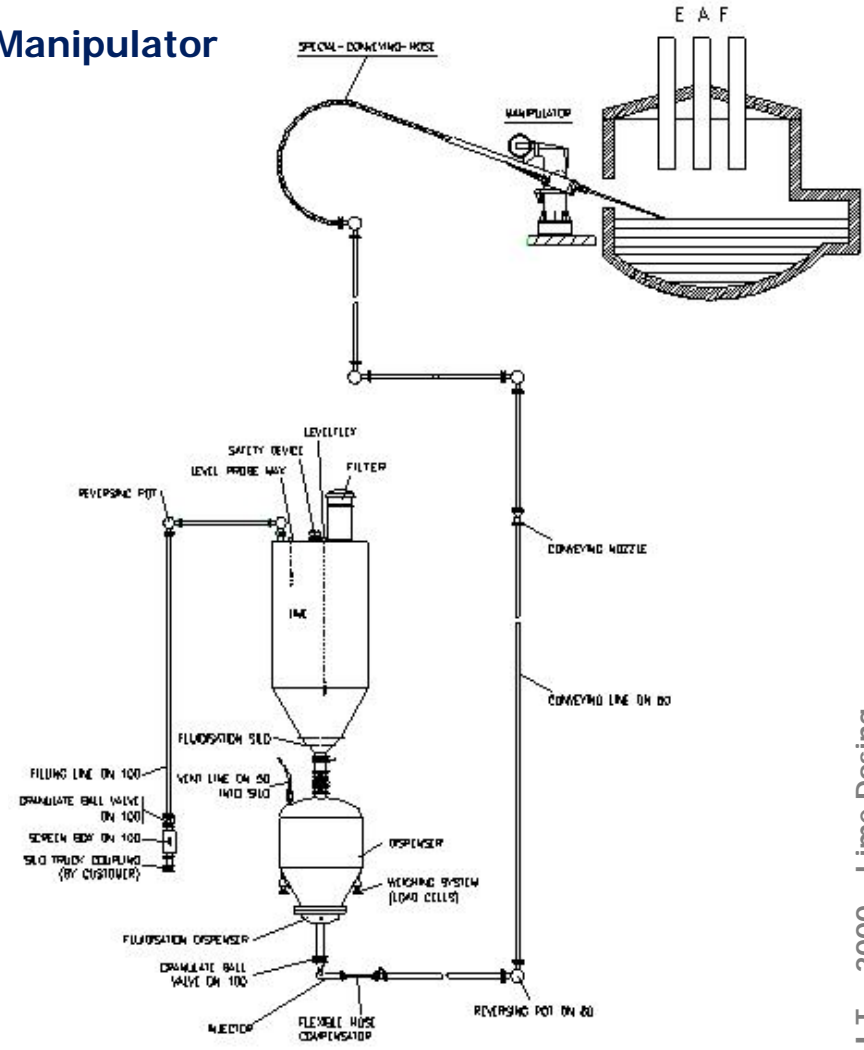
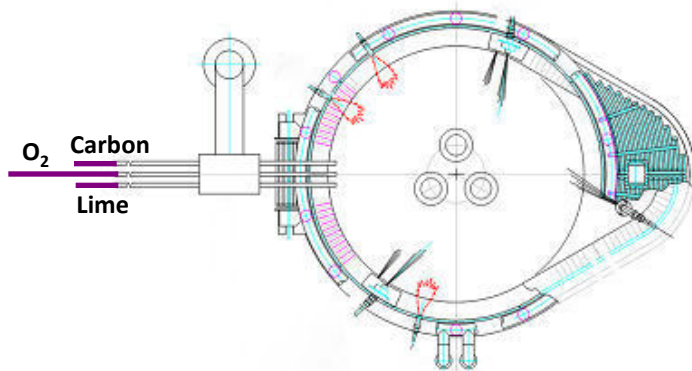


## SLAG TREATMENT - Injection via Lance-Manipulator

### Basic Layout:

The Lime-lance will be mounted on the manipulator and connected to the conveying hose via Lance holder. The injection lance can be either a self-consumable or water-cooled.



## SLAG TREATMENT - Injection via Lance-Manipulator

### PROCESS PARAMETER :

Pipe / Hose diameter:	1-½ " – 3"
Flowrate	(Lance: 1-½ ") : up to 125 kg/min (Lance: 2") : up to 200 kg/min (Lance: 3") : up to 400 kg/min
Lime:	Dolomite Lime (MgO) Lump Lime (CaO) Grain size: 0 - 10 mm (>30% fines possible) Bulk Density: ~ 1,0 t/m <sup>3</sup>
Media:	<u>Dry</u> Air / N <sub>2</sub> , depending availability
Pressure:	6 bar constant
Media consumption:	depending on flow rate

### ADVANTAGES AND DISADVANTAGES

#### *Pros:*

- Movable injection lance
- No modification works at furnace shell
- High flow rate possible
- Low investment if existing LM can be used
- No purge media required
- Flexible process

#### *Cons:*

- Major injection only during refining phase
- Upgrade of LM sometimes necessary
- No even distribution of Lime in the complete furnace
- Efficiency depends on human factor