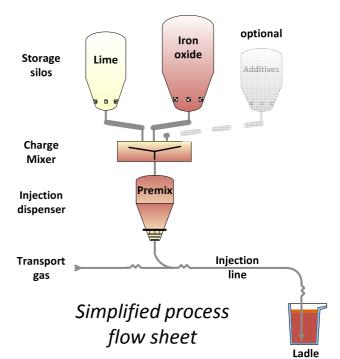
METINJECT



Küttner's <u>Direct Injection Process</u> (DIP) for Dephosphorization of HM

De-P of desiliconized HM is carried out by deep dense phase injection of an inhouse-made premix of lime and iron oxide.

- High flexibility
- Injection of a tailor-made premix
- Independence from reagent suppliers
- No lance clogging
- Minimum splashing
- Dense phase injection
- Easy to operate and maintain
- Minimum CAPEX and OPEX



Exemplary data of Küttner's Direct Injection Process for HM De-Phos:

Injected Premix 10 ~ 40 kg/tHM (up to 70 % Iron oxide)
Injection rate 30 ~ 100 kg/min (load > 50 kgsolid/kggas)

■ De-P degree 40 ~ 75 %

■ Temperature loss 2 ~ 3 °C/min

■ Ladle freeboard 50 ~ 100 cm

Latest references:

- TiZir, Norway (HM De-S, De-P)
- Sphinx, Saudi-Arabia (HM De-S, Re-C, Re-Si, CH)
- Tronox, South Africa (HM De-S, Re-C, Re-Si)
- TISCO, China / Isdemir, Turkey / etc. (HM De-S)

