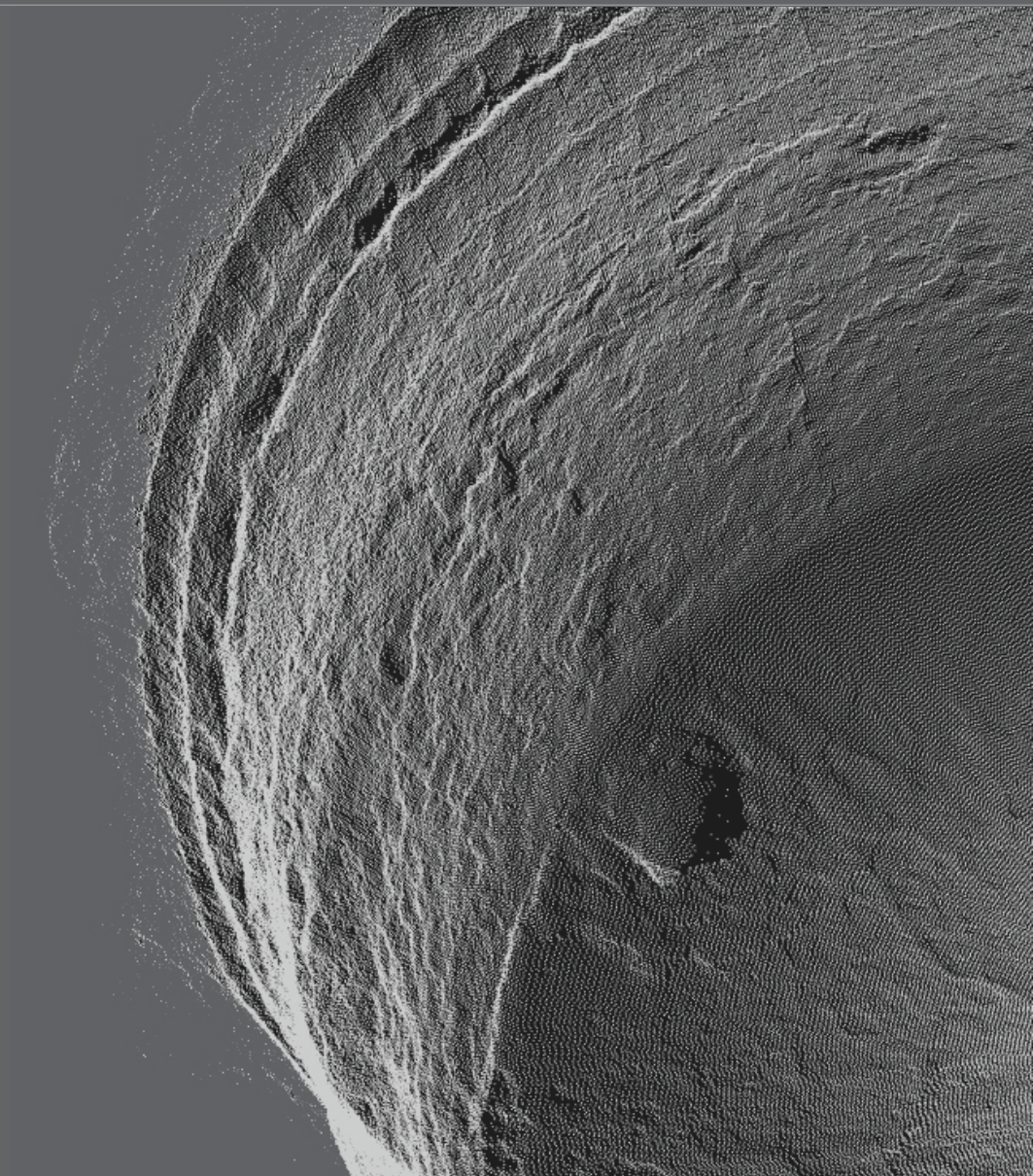




MINSCAN™-B

MINSCAN™ - Basic version

14.11.2025



What is MINSCAN™ ?

Technology to maintain EAF refractories in optimal condition.
Maintenance is done in a hot EAF furnace after tapping and before charging.



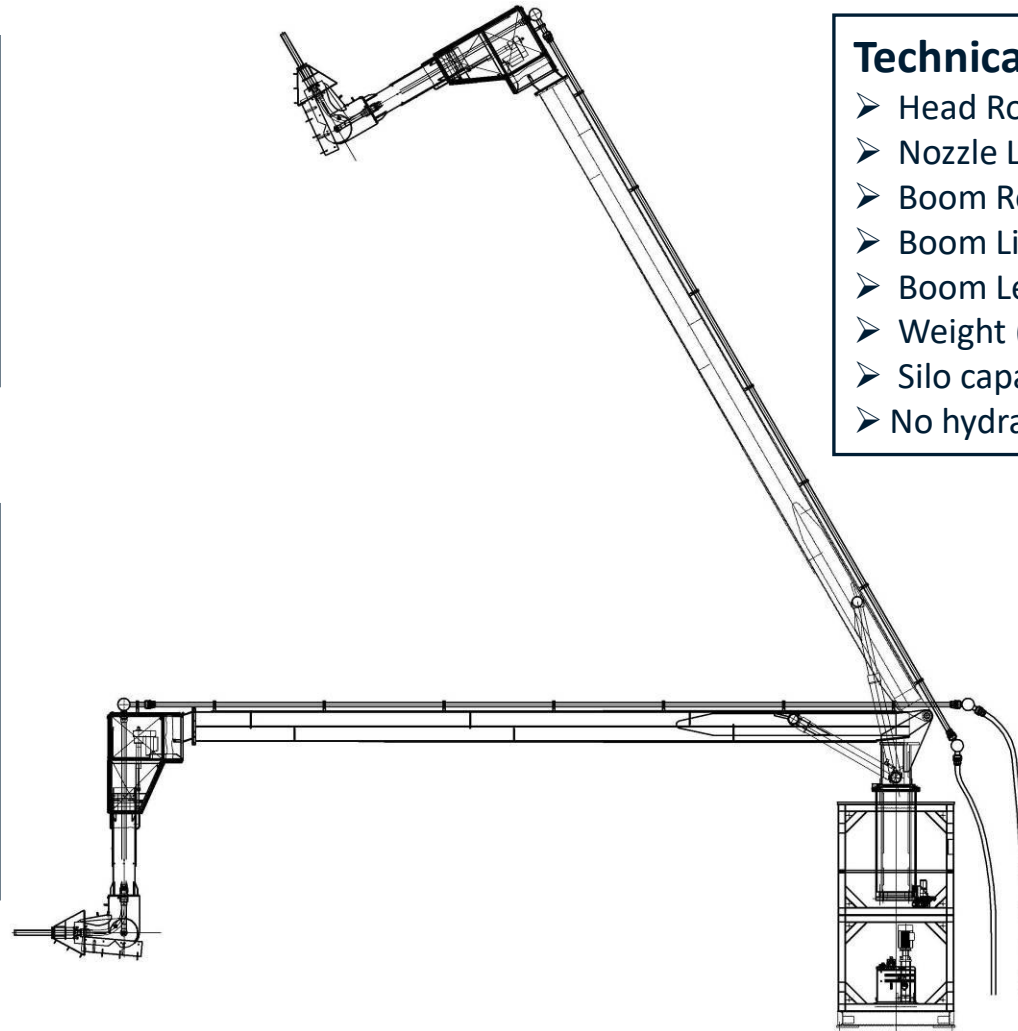
Liquid refractory material is sprayed onto the hot furnace walls by a tiltable and rotatable nozzle.

Gunning Capabilities

- MINTEQ®'s Patented Nozzle
- Up to 150 kg/min wet material
- Up to 250 kg/min dry material
- EAF Maintenance possible immediately after tapping
- EAF Maintenance possible with remaining steel in the furnace

Control System

- Remote Control of all movement and for material selection
- Controlled by **SIEMENS PLC** and frequency inverters
- Hydraulic movements controlled by proportional valves
- Emergency functions available to move the unit out of the EAF
- CE Certified reg. **EN 98/37/EC**

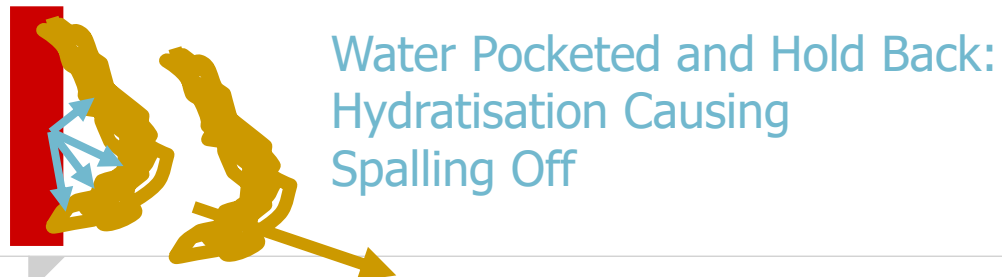
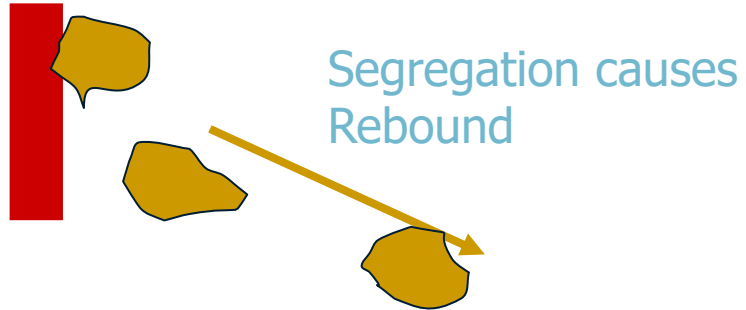


Technical Data

- Head Rotation 360° endless
- Nozzle Lift 1° – 105°
- Boom Rotation 0° – 300°
- Boom Lift 0° – 80°
- Boom Length up to 12 m
- Weight (empty) 7.500 kg
- Silo capacity 3 mt; Tank capacity 1.5 mt
- No hydraulics in hot furnace zones

Advantages Versus Hand-Gunning

Conventional Gunning from elevated position:



Minscan™ Gunning by Manipulator:



	NOT UPGRADABLE
Name	Minscan™ -B
Mode	Basic
<u>Minscan</u>	 S7-1500  HMI  Remote Control
Laser	----
Laser (Boom)	----
Gunning Strategy	Operator
Camera	 Borosc. Camera OPTIONAL
Batchgun	1 2 3 (*) CUSTOMISED

(* = without Batchgun)

Minscan™-B: Basic Manual Version (not upgradable) Spraying Manipulator with Radio Remote Control

- Control PLC with CPU for EU S7-1500 (TIA-portal), for USA also Alan Bradley on demand
- No 2nd arm for laser foreseen, tower in basic execution
- Most cost-efficient solution for gunning only
- Operator analyses EAF and works with remote control for spraying

MiNTEQ

A MINERALS TECHNOLOGIES COMPANY

FERROTRON
A **MiNTEQ** DIVISION