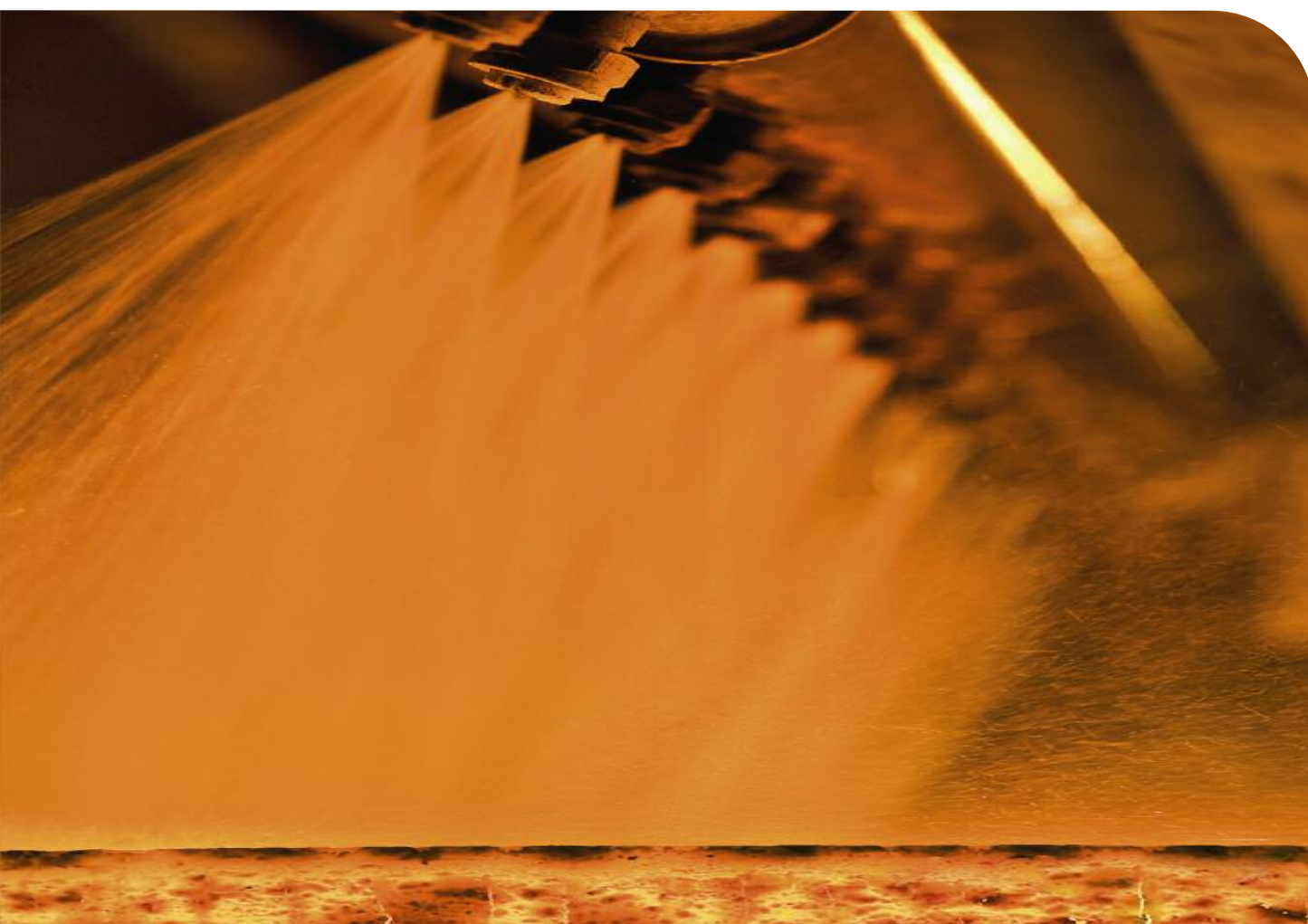


SLAB CLEANER

for CSP® plants



SLAB CLEANER

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YOUR REQUIREMENTS

- Prolongations of maintenance intervals of tunnel furnaces.
- Significant reduction of pick-ups on furnace rolls and avoiding of imprints on the slab underside.
- Improvement of the quality of temperature measurement before, inside and after the tunnel furnace.

OUR SOLUTION

With the slab cleaner, SMS Siemag offers a new, patented solution for scale removal.

Low-pressure water is used for cleaning the top and bottom side of the slab. The extremely compact design of the equipment allows installation between the withdrawal and straightening unit and the shear in front of the furnace. The top spraying header of the slab cleaning equipment can be lifted off if not used. Water collecting troughs within the equipment prevent unwanted escape of water. The utilized cleaning water and the accumulated scales are diverted into the scale flume.

Cross sprays prevent spray water from entering into the withdrawal and straightening unit. Compressed air is used for blowing off residual water from the slab top side.

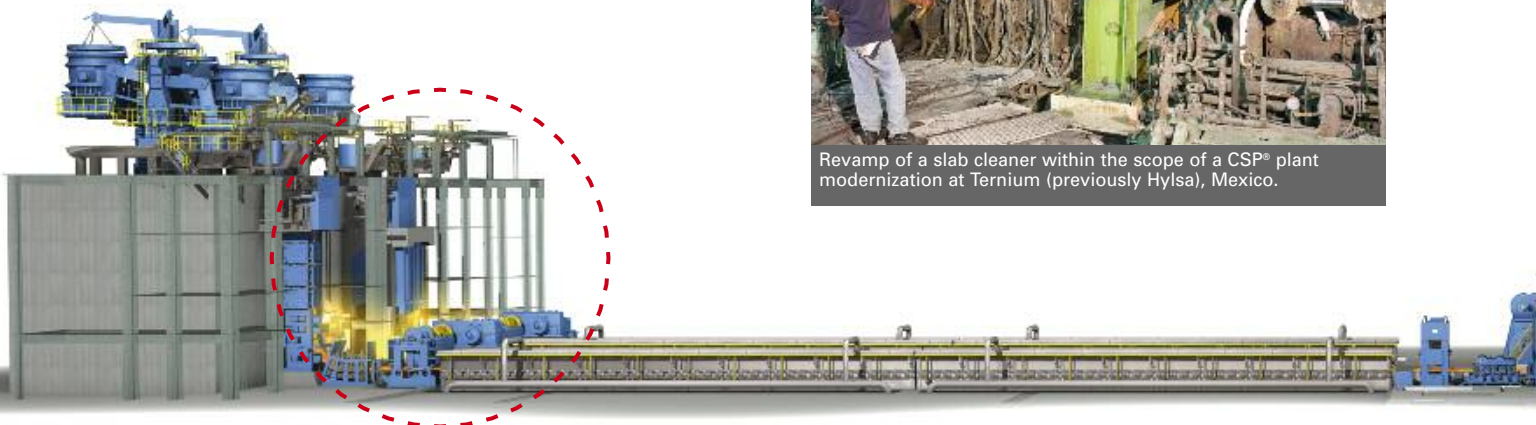
The cleaner cannot only be used in new plants but can also be included in existing plants during modifications and modernizations.



General arrangement of the slab cleaner in a CSP® plant.



Revamp of a slab cleaner within the scope of a CSP® plant modernization at Ternium (previously Hylsa), Mexico.



RESULTS

Comparison pictures taken directly in front of the tunnel furnace clearly show a recognizable cleaning effect. Cooling down the slab is not critical since only very little water is used.



Slab surfaces without slab cleaning equipment (top) and with slab cleaning (bottom).

ADVANTAGES

- Reduction of scale pick-ups on furnace rolls.
- Improved surface quality of the slab.
- Prolonged useful life of furnace rolls.
- Less storage of loose scale in the tunnel furnace; thus less maintenance necessary.
- More effective furnace operation due to improved heat transfer into the slab.
- Reduction of furnace scale.
- Energy cost savings.

REFERENCES

GSteel Thailand
GJSteel Thailand
Essar Steel India
Tata Steel India
Handan Iron & Steel China
ArcelorMittal Sestao (ACB) Spain
Ternium Hylsa Mexico
Megasteel Malaysia
Severstal USA
Maanshan Iron & Steel China
Jinguan Iron & Steel (Jisco) China
Liyuan Iron & Steel China
ThyssenKrupp Stahl (Bruckhausen) Germany





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MEETING your EXPECTATIONS

"The information provided in this brochure contains a general description of the performance characteristics of the products concerned. The actual products may not always have these characteristics as described and, in particular, these may change as a result of further developments of the products. The provision of this information is not intended to have and will not have legal effect. An obligation to deliver products having particular characteristics shall only exist if expressly agreed in the terms of the contract."