



**INDUSTRIAL VACUUM SOLUTIONS**  
**FOR STEEL PLANTS**

# STEEL PLANTS MAJOR ISSUES

In steelworks and foundries dust is a serious problem. For this reason, the cleanliness of the working environment becomes of primary importance, as it improves productivity, efficiency, and safety of the whole production process



# DHV SPECIFIC SOLUTIONS

The DHV product range is designed to meet any difficult challenge. The range meets the needs of heavy industries to deal with the problem of large quantities of dust, spillage, and residues, which undermine constantly production efficiency.

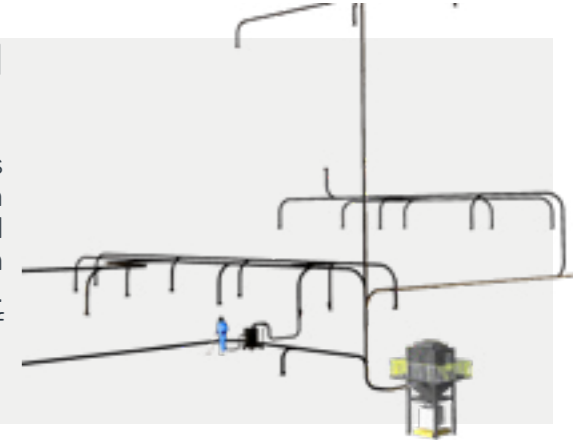


## FLYING LIME DUST

To reduce the oxidation of the steel, a large amount of lime dust is injected into the furnace. When the electric arc is activated, the lime dust flees everywhere. The flying lime dust accumulates on the railways of the crane and creates problems for the movement. It also accumulates on the walkway and electric panel-boards on the crane structure and needs to be regularly removed to avoid failures and unexpected stops of production.

## FIXED INSTALLATION

A dedicated powerful vacuum system with pipelines along the crane's railways is the most suitable solution to remove a large amount of dust on regular bases. All the material is transferred to the ground by the system and collected in a disposable big bag. The same system can be also used to clean the crane itself

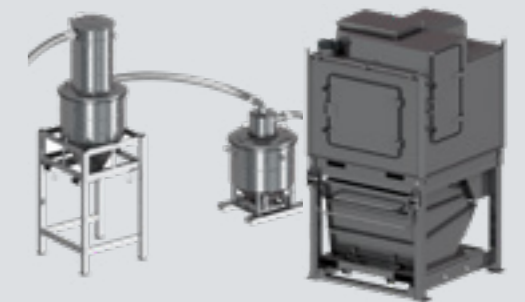


## MILL SCALE

The mill scale accumulates in a very large quantity on the cooling lines, on the rolls, and also on the pit situated under the lines. We can estimate over 25 tonnes of residual mill scale every week. It has to be removed to prevent unexpected stops of production and to assure the regular operation of the machinery.

## PNEUMATIC TRANSFER SYSTEM

Only a powerful vacuum unit with a lobe pump (reaching 85% of vacuum) can easily collect large quantities of heavy material like the Mill Scale. The material can be discharged to a container, big bag, or directly into a truck container for evacuation.



## FURNACE/EAF CLEANING

On the top of the furnace, there is a continuous large accumulation of dust and residual materials that need to be removed on a regular basis to allow the correct heat exchange, to prevent accidents and to improve the quality of the working environment.

## FURNACE CLEANING

The cleaning operation can be carried out with a solution mobile lobe pump suction system for heavy-duty applications or with a dedicated fixed installation (pipes + equipment fixed).



# REASONS FOR CHOOSING A DHV

The range meets the needs of heavy industries that have to deal with the problem of large quantities of dust, spills and residues that constantly undermine their production efficiency.

## BENEFITS

- + Material recovery and raw material savings
- + Reduction of costs and maintenance time
- + Healthier and safer environment
- + Reduction of machine downtime

Delfin was founded over 25 years ago by the passion of its founder, Antonino Siclari, for industrial vacuum cleaners. Delfin has never stopped working to offer its customers innovative and efficient solutions at the top of quality and design, solving cleaning problems for professionals and industries all over the world.



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