



INDUSTRIAL VACUUM SOLUTIONS
FOR CEMENT PLANT

CEMENT PLANT MAJOR ISSUES



When producing cement, a considerable amount of fine, harmful dust is released inside the plant. These harmful dust settle all over the plant and pose a serious threat to workers' health and production efficiency.

GENERAL CLEANING

Accumulation of cement dust on the floors, walkways, equipment, top of silos can create a risk for safety and create troubles in case of maintenance intervention.

It will also create a serious disease to workers that will breathe continuously dangerous dust



MATERIAL HANDLING

The cement production is based on a transfer through conveyor belts or buckets elevator that looses at the bottom of the material transported on top.

As a consequence, there is a large and regular accumulation of spillages that effects transport and may stop production quite often.



COAL MILL - ALTERNATIVE FUELS

Most of the SSF (Solid Secondary Fuel) used to fuel rotary kilns in cement plants is made up of materials such as shredded rubber tyres, animal (bone) meal, textile fibres and plastic residues.

The use of these materials that are no longer recyclable improves the national energy balance, saving large amounts of CO2.



PACKING PLANT - CLINKER MILL

A large amount of dust is produced by rotopack machines and the conveyors that transfer the bags to the loading area, the broken bags, and normal spillages during handling.

As a result, there is dust everywhere that affect the safety and health of operators



DELFIN DHV SPECIFIC SOLUTION

Heavy Duty Industrial Vacuum Cleaners range of products has been conceived to face any heavy and though challenge: High power, high collection capacity, long distances.

PREDICTIVE MAINTENANCE DELFIN VACUUM CLEANERS RANGE

Efficient housekeeping on regular bases will prevent all these problems and provide a safe working environment.

Delfin industrial vacuum cleaners are the best solution for the removal of dust and/or manufacturing waste from any work environment, ensuring maximum efficiency and security of each production area



EASY COLLECTION AND RECYCLING

To allow a good workflow and avoid any problems to the transport system, it is necessary a regular and efficient cleaning. Removing the dust with an DHV system will prevent any risk of stops.

DHV TANK

DHV tank (mobile) with 10 meters flexible hose. 800 It capacity with lever sensor, offers safety discharge



ATEX VACUUM SOLUTION

These buildings are in the need of regular cleaning to prevent the risk of explosion and in order to keep the crane working permanently (no stops). Removing the dust with an ATEX vacuum system will prevent any risk of explosion.

DHV TANK + SEPARATOR

DHV tank (mobile) with 10 meters flexible hose. Eventual short pipelines with silos (for recycling)



FIXED INSTALLATION

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

DHV HOPPER + CVS

DHV Hopper with pipeline CVS with recycling into the process. 1000 It hopper with integrated level sensor and manual or pneumatic actuator



WHY A HEAVY DUTY RANGE?

The range fulfills the needs of heavy industries which have to tackle the problem of large quantities of dusts, spillages and residuals which constantly mine their production efficiency.

MAIN BENEFITS

- + Recovery of spillages and savings on raw material
- + Reduction of maintenance costs and time
- + Healthier and safer environment
- + Reduction of production downtimes

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



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