

Note, this is a free translation of relevant parts related to the ILMEG Centralized Zero Dust system from the interesting original article from the Norwegian Magazine Anlegg & Transport, issue September 2004.

A Complicated Operation Close To A Hospital

It is no problem to excavate and move 330.000 m³ just close to a hospital in full operation. Cleaning systems at all entrances and exits, improvised silencing screens and last but not least the first centralized zero dust system for the drilling application. This was the solution to Skanska.

The new hospital under construction at Lorenskog, north of Oslo, is a huge project. Seven billion Norwegian kroner is the contract value. The new Akerhus university hospital (Ahus) will be as large as the national hospital in Oslo. However, it is not the size that makes this project so interesting. The interesting part is that the new hospital was built wall to wall with the existing hospital. The existing hospital was continuing all activities during the construction period.

"The owner's demand on dust and vibrations was extremely hard, one can understand" says Project Manager Tom Hansen, Skanska Norway A/S.

New special dust collector in the offer.

The project has been running since March and now PEAB takes over the concrete works for the foundations. Totally 330.000 m³ has been excavated whereof 1/3 blasted rock.

"We had to document the sound levels on all machines" says Hansen. In the offer he also included an appetizer for the owner, whom is extremely aware of environmental issues. If the owner was prepared to pay a little extra, Hansen would include the newly developed centralized zero dust collector system, which would reduce the dust levels to a minimum on the construction site. The owner accepted.

The new dust collector system came from ILMEG Products AB, based in Sweden.



“The drilling process is carried out as normal but the drilling rig is connected through 40-50 m long hoses to a centralized dust collector unit. We can blast without moving the unit” says Gunvald Johanssen, manager blasting at Skanska. Practically all dust was collected by the new dust collector.

The dust collector is mounted on top of a container where all dust is gathered. The container is equipped with forklift brackets so that the container can be easily moved and emptied.

“It works similar to a central dust collector system that you might have at home” Johansson smiles.

The dust collector is operated via radio signals and is electrically powered. The man behind this environmental solution is Gunnar Hallinder at ILMEG Products AB. They have had great success with this concept in Sweden for some time. Skanska’s two units are the first in Norway. There will certainly be more units coming. The company characterises the purchase of these units as a success.

“Through the whole project the owner has monitored the dust inside the existing hospital. If the dust levels were too high they would have closed down the construction works immediately. This has not happened” says Hansen pleased.

Both Hansen and Johansen say the new dust collector system will be used extensively in the future. Even if the demands on dust levels are not as strict in other cities, we experience continually stricter demands. The new zero dust collector system will be of use in construction sites close to cities and in residential areas.



The article from Norway contains more information about the construction site. For more information please contact ILMEG Products AB.

Phone +46 155 22 02 70
Fax +46 155 22 02 77
e-mail info@ilmeg.se
www.ilmeg.se

