

**Welcome to the torbo newsletter with the edition 05/2010!**

In the current newsletter you will find important Datas & Facts, more informationen about torbo and the technology of wet sandblasting. Enjoy your reading. The torbo team will be happy to hear from you - via e-mail, fax or phone call - should you have any questions or suggestions about your special applications!!

**torbo cleans Design Center in Düsseldorf**

The former production halls of the Henkel daughter "Thompson Siegel" in Düsseldorf are converted to a Design center.



1. bird's eye view

At this in tradition rich place they create a town accommodation with a distinctive ambiance and core identity. After it is ready in the year 2013 a complete renting area of 34.500 sqm will arise on a property of 40,000 sqm. There is still to do a lot of refurbishment, so therefore the torbo-car AC37 is in permanent use on this location. The buildings of the former Henkel area need, to be completely redeveloped and this from the bottom up to the roof.



Image 2: former Henkel area

First the black paint has to be removed from the walls inside the halls with a surface of more then 20,000 sqm. The cleaning is done with coalslag as the blasting media. Because of the thickness and flexibility of the paint layer you have to work with full power.



Image 3: before the work with torbo

When the inside renovation of various halls is done next the outside facades have to be blasted.



Image 4: before / after

After cleaning with torbo the old brick fronts will shine again as new. However, we will report in the next edition of our newsletter about that renovation.



**Careful cleaning of sand stone figures in Taiwan**

The Buddhist temple "Tian Yuan" is situated in the city of Puli. Our taiwanese torbo-partner, "Trans Companies", got the contract to clean 54 lion sculptures of sandstone. The lions are placed on a throne in front of the entrances to the temple. The biggest lion has a height of nearly two meters and a width of almost one meter.



Image 5: sandstone lion before the cleaning



Image 6: after the cleaning with torbo

The sandstone cleaning was done in five working days. As blasting media was used finicall. The blasting pressure at the torbo was 3 – 4 bar and the setting of the dosingvalves was S = 0,6 to 1,0 L/min and Z = 1,0L/min. After cleaning everybody was impressed with the beautiful result.



Image 7: torbo at work

### Rail renovation work with torbo



Image 8: Railway station in Lelystad

In the Dutch town Lelystad a new railway station section has to be built. The rail building company Edilon Sedra has received the order to construct a 1,5 km long silenced railway section.



Image 9: Railway works with torbo

The rails are layed in a concrete gutter construction. After these rails are fixed with a flexibel polyurethane foam to minimize the vibration of the trains. Before the rails are placed the concrete must be roughened-up to give a good attachment. Also the rails are blasted to SA 2,5 to get a better attachment for the foam. For blasting the concrete and the rails torbo had to be used because of its effectiveness and the dust free blasting.



Image 10: Filling blasting media in the AC76

### Biogas plants shine again with torbo

In Germany more and more biogas plants are built. Biogas is an ignitable gas that is produced by fermentation of biomass in a biogas reactor. This gas is used to produce electrical energy and to heat up water.



Image 11: Biogas plants

Biogas is quite a grass and gives a lot of maintenance. What is the best way to remove the inside coating in a biogas tank?



Image 12: Inside of the tank

Here the torbo wet blasting system has proven to be the best solution. The biogas tank has a diameter of 26 meters and a height of 6 meters. Therefore approx. 400 sqm has to be blasted with torbo.

Image 13: torbocar AC37 at work



The blasting work was done by the torbocar AC37 and the blasting media asilicos (grain sizes: 0,09 – 0,25).

### Preview:

Here is a small view of our next torbo newsletter:



Facade cleaning  
„German museum“

### Looking back to the SMM 2010



SMM 2010, 24th shipbuilding, machinery & marine technology, international trade fair hamburg, came after 4 (7 to 10 September) days to a successful end today. It gave powerful stimulus to the industry, with 2,003 satisfied exhibitors from 58 countries, and 50,000 trade visitors from all parts of the world.



Image 14: picture SMM 2010, Hamburg

The largest group of visitors was from the shipowners and shipping companies, followed by machinery and plant manufacturers, and the shipbuilding and shipyard industry. 69 % of the trade visitors at SMM 2010 had a decision making role in their companies. More than a third of trade visitors came from abroad.

**You will find regular and up-to-date information about the technology, the various applications of the torbo system and current trade fairs at our website:**

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