

## ***Application Report No. A 05-6e*** **Automatic Ship Hull Cleaning at 2500 bar with Suction Device and Filtration**

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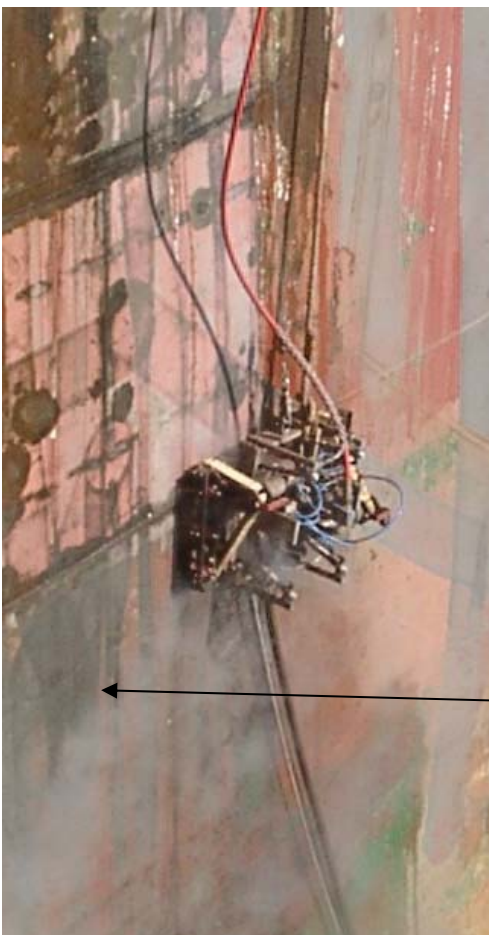
Status: 10/2006

S.Smets

KAMAT customers in Greece, Romania and Hungary are already utilizing the new, automatic steel surface treatment system, which comprises a high pressure pump unit, the SHC 2500 / 250 (Magnet-Crawler) and a suction / filter system type KAMVAC.

All kinds of steel surfaces such as ship hulls, storage tanks (internal and external) are thoroughly cleaned to the cleaning standard of WJ 1, whereby paint layers and rust are completely removed. At the same time, all the debris removed is drawn off by suction using the KAMVAC system and all particles > 100 µm are filtered off. The dirty water is constantly pumped off by a special pump, without any interruption of the cleaning process.

A cleaning rate of 40 to 60 m<sup>2</sup> per hour can be achieved, depending on the thickness of the paint layers and the degree of rust.



*Photo above: The SHC 2500 with suction and filtration*

*Photo on left: The SHC in operation without suction*

*All the applications shown in this report have been carried out according to internationally accepted **standard WJ-1***

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The KAMAT system in operation at a dry dock in Constance, Romania

- KAMVAC Suction and Filter System
- KAMJET unit



### Technical Data SHC 2500/250

- |                              |               |
|------------------------------|---------------|
| • Maximum flow               | 40 l/min      |
| • Maximum operating pressure | 3000 bar      |
| • Working width (diameter)   | 250 mm        |
| • Width of housing           | 700 mm        |
| • High pressure fitting      | 14x1.5 LH     |
| • Weight                     | approx. 90 kg |
| • Number of nozzles          | max. 8        |
| • Min. air pressure required | 6 bar         |
| • Stepless adjustment speed  | 0-4 m /min    |
| • Control voltage            | 24 V          |

### KAMVAC

Compact, mobile vacuum suction device with separator and dirty-water return pump in weather-proof, robust design and height-adjustable frame.

#### For suction of fluids and solids

Ideally suited for use with KAMAT SHC 2500, Wall Cleaner and Surface Cleaner 2500 bar, using hoses up to a maximum length of 50 m (DN 40 and 50).

