

## ***Application Report No. A 07-5e*** **Cleaning a Filter Screen Drum**

Page 1/2

Status: 10/2005

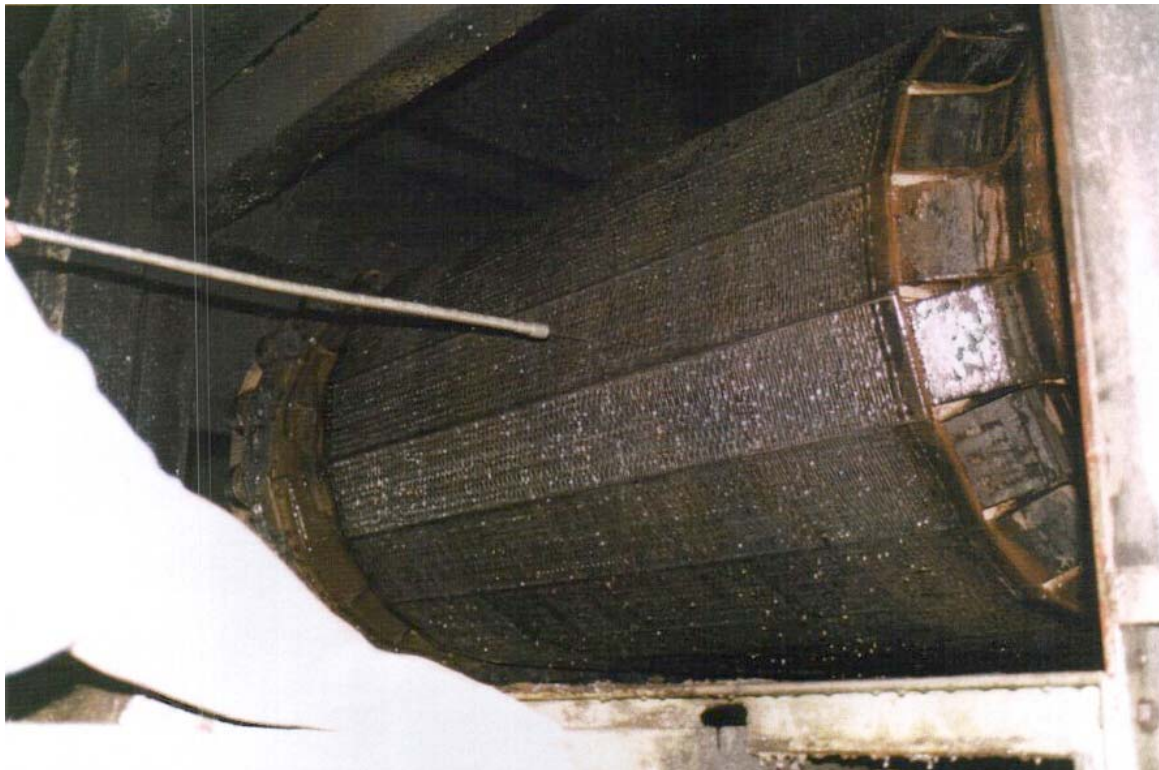
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In the process of paper manufacturing, particularly in the case of "recycled" paper, it is necessary to clean the perforated plates of the cylinders which are in use. The bores of the plates (exterior) have to be thoroughly cleaned so that there are no particles left which could find their way into the process once the system is restarted.

The work can be done manually or semi-automatically. In the case of manual cleaning, high pressure guns are used whereby the cylinder itself has to be turned slowly. As a semi-automatic procedure, a rotating nozzle is fixed to the cylinder and it moves along a guide track on the cylinder.

Some of the drums (with perforated plates) in use in the paper industry have conical bores and consist of one single cylinder. On this type of construction the cleaning can be done both externally and internally. Whenever the cleaning job is carried out from inside to the outside a rotating nozzle is fixed to a guide track and lead along the longitudinal axis of the cylinder.

Depending on the diameter of the cylinder the rotating nozzle can be fitted with extension arms so as to bring the water power as near as possible to the dirt.



The operator is guiding the high pressure gun with nozzle along the rotating cylinder.

***Application Report No. A 07-5e***  
**Cleaning a Filter Screen Drum**

Page 2/2

Status: 10/2005

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**Photo above:**

The picture shows the cleaned inner sleeve of a cylinder. The job was carried out using a KAMAT pump and an orbital nozzle, 2.5 mm at a working pressure of approx. 600 bar.

**Photo on the right**

The cleaned front face of the cylinder.

