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HUBER Solutions for the Pulp and Paper Industry

- Tailored overall solutions from one source
- Long expertise in industrial wastewater treatment
- Well-proven products
- Global presence

High amounts of fresh water are needed for the production processes in paper and pulp industries, with a high environmental impact and the result of enormous costs. It is therefore getting more and more important to treat wastewater and return it to the process.

As the wastewater and sludge to be treated originate from different production processes, they require specific treatment to ensure their as complete as possible conditioning and reuse. HUBER offers tailored overall solutions from one source:

- | | |
|------------------------------|-----------------------------------|
| ■ Coarse Material Separation | ■ Process Water Treatment |
| ■ Fiber Material Recovery | ■ Biological Wastewater Treatment |
| ■ Grit Separation | ■ Sludge Treatment |

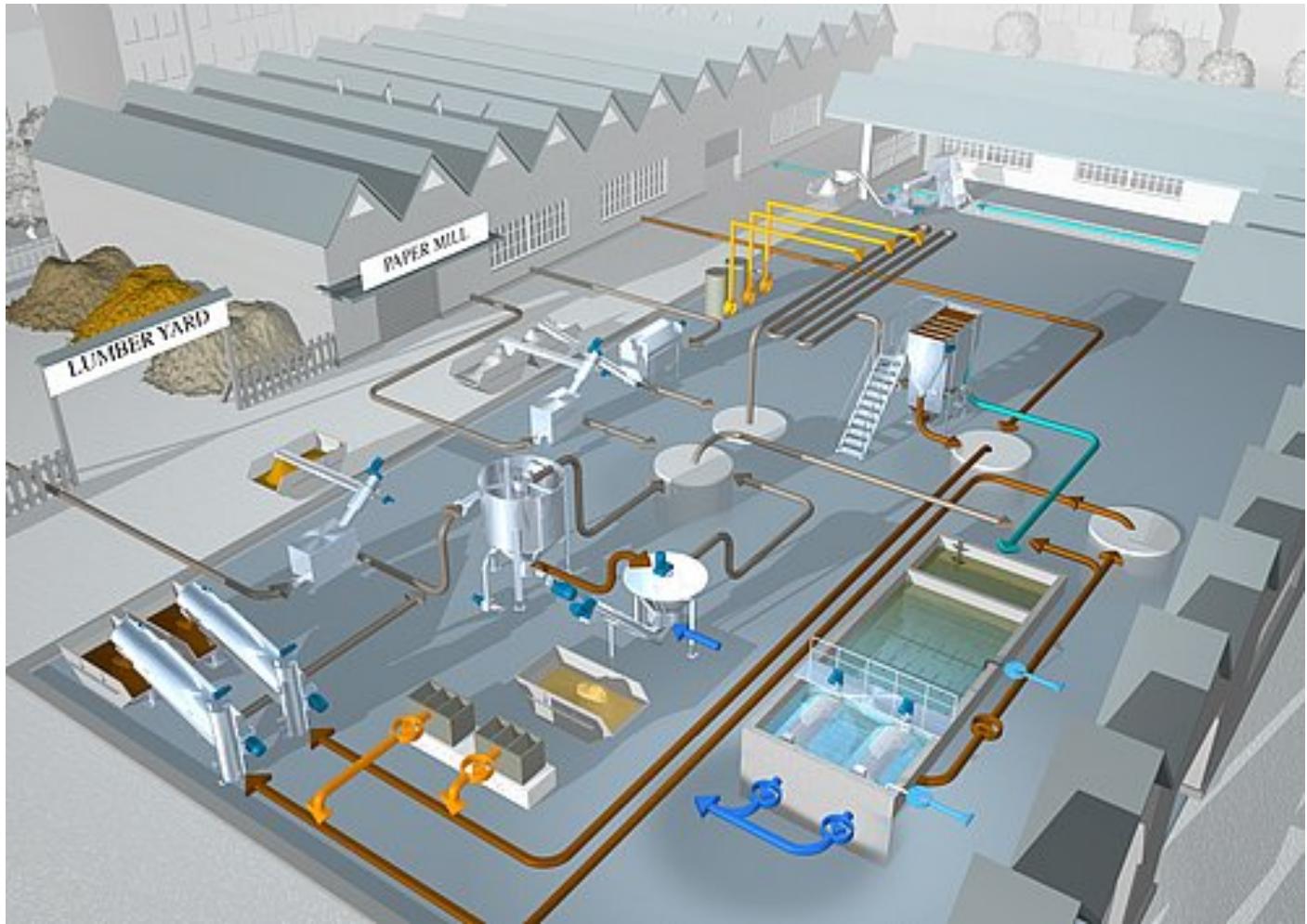
Pulp and paper mills consume much water and generate much wastewater; both generate environmental stress. It is even cost-effective to treat the wastewater such that it can be recycled as process water. In this way, both water supply and wastewater discharge costs are minimized.

Disposal of removed solids and sludge becomes ever more costly. Retained paper fibres can be recycled into the production. Removed sludge is dewatered and disposed of, e.g. by incineration as solid waste.

Precondition for any customized solution is thorough investigation of the specific conditions.

HUBER is your experienced, reliable partner for such concepts and solutions and will develop them in cooperation with its customers. The final design and process will combine the reliability of well-proven HUBER products coupled with intelligent and innovative engineering and technical solutions.

[Berendezés koncepciója](#)



A részletes információkat tartalmazó nagyobb, interaktív megjelenítéshez és további linkekhez kattintson a képre

Folyamatleírás

Process Description

Surface water for use as process water flows through a [HUBER Multi-Rake Bar Screen](#) that removes debris and other disturbing solids. The screenings are washed, dewatered and compacted in our [Wash-Press \(WAP\)](#).

Wastewater from lumberyards contains solids, such as wood chips, that we remove with our [ROTAMAT® Fine Screen](#). The screen simultaneously washes, dewateres and compacts the screening, so that they can be incinerated as solid waste. Then we remove soil, sand and grit with a [HUBER Circular Grit Chamber](#) and separate mineral and organic solids in our [Grit Washer](#). The washed and dewatered sand and grit is reusable as construction material.

Wastewater from the production that is highly polluted with organics flows for mechanical pre-treatment through our [ROTAMAT® Rotary Drum Screen](#) with rotating wedge wire. This screen usually has a wedge wire spacing of 1 mm.

Wastewater from the production that contains many fibres is pumped through our [ROTAMAT® Rotary Drum Screen RoMesh®](#). This screen is made of a wire mesh with a mesh size between 0.2 and 1 mm. After chemical conditioning we remove remaining very fine fibres and other solids in a [HUBER Dissolved Air Flotation Plant](#) (DAF). The DAF effluent can be discharged into the municipal sewer.

For further full-biological treatment we provide a HUBER Membrane Bio-Reactor. Its effluent can be directly discharged into receiving waters. The permeate effluent is of outstanding, contains neither solids nor bacteria, and can be recycled as process water.

Fibre sludge from the production and fibre-containing flootate sludge (primary sludge) are dewatered in our [Screw Press](#) and then recycled back into the production. Waste activated sludge (secondary sludge), consisting of biomass generated by biological treatment, is dewatered in another Screw Press. This sludge cake is preferable supplied to a biogas plant, in order to increase its gas production.

When we implement our solutions, we also provide our well-proven HUBER stainless steel components, e.g. [Screw Conveyors](#), [Manhole Covers](#) and Stairways, Platforms and Guardrails.

Tapasztalatok

- [ROTAMAT® Screw Press RoS 3 – an international success in paper industry applications](#)

Downloads

[Letöltés: Wastewater treatment in paper and pulp industry \(angol nyelven\) \[pdf, 1.35 MB\]](#)

Fényképek



Termékek

- HUBER Gereb-körülfutó rács RakeMax®
- HUBER Finomrács ROTAMAT® Ro1
- HUBER Szűrőberendezés ROTAMAT® Ro2 / RPPS / STAR
- HUBER Dobszűrő RoMesh®
- Lépcsősrács STEP SCREEN®
- HUBER Mosóprés WAP®
- HUBER Körhomokfogó HRSF
- HUBER Coanda Homokmosó RoSF4
- HUBER Csigaprés S-PRESS
- HUBER Szállítócsigák Ro8 / Ro8 T
- Aknalefedések



Silex Water Technologies Kft.
H-8230 Balatonfüred
Fürdő u. 17/B.
Magyarország

Tel. +36 87 580 140
Fax +36 87 580 139
Email info@huber-technology.hu
WWW www.huber-technology.hu

A HUBER csoport képviselete