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Комплексные решения HUBER для очистки стоков и обработки осадков ЦБП

- Комплексные решения для каждого проекта индивидуально
- Многолетний опыт в промышленной очистке вод
- Надёжное оборудование
- Представлена по всему миру

В целлюлозно-бумажной промышленности для различных производственных процессов требуется большое количество чистой воды, которую затем необходимо подвергнуть очистке. Этот объёмный сток не только обуславливает значительные платежи за водоснабжение и водоотведение, но и оказывает существенное негативное влияние на окружающую среду.

В связи с этим представляется целесообразным производить очистку и подготовку сточных вод для их повторного использования в производственных процессах.:

- Отделение твёрдых веществ ■ Подготовка технической воды
- Извлечение волокон ■ Биологическая очистка воды
- Отделение песка и обработка ■ Обработка осадка

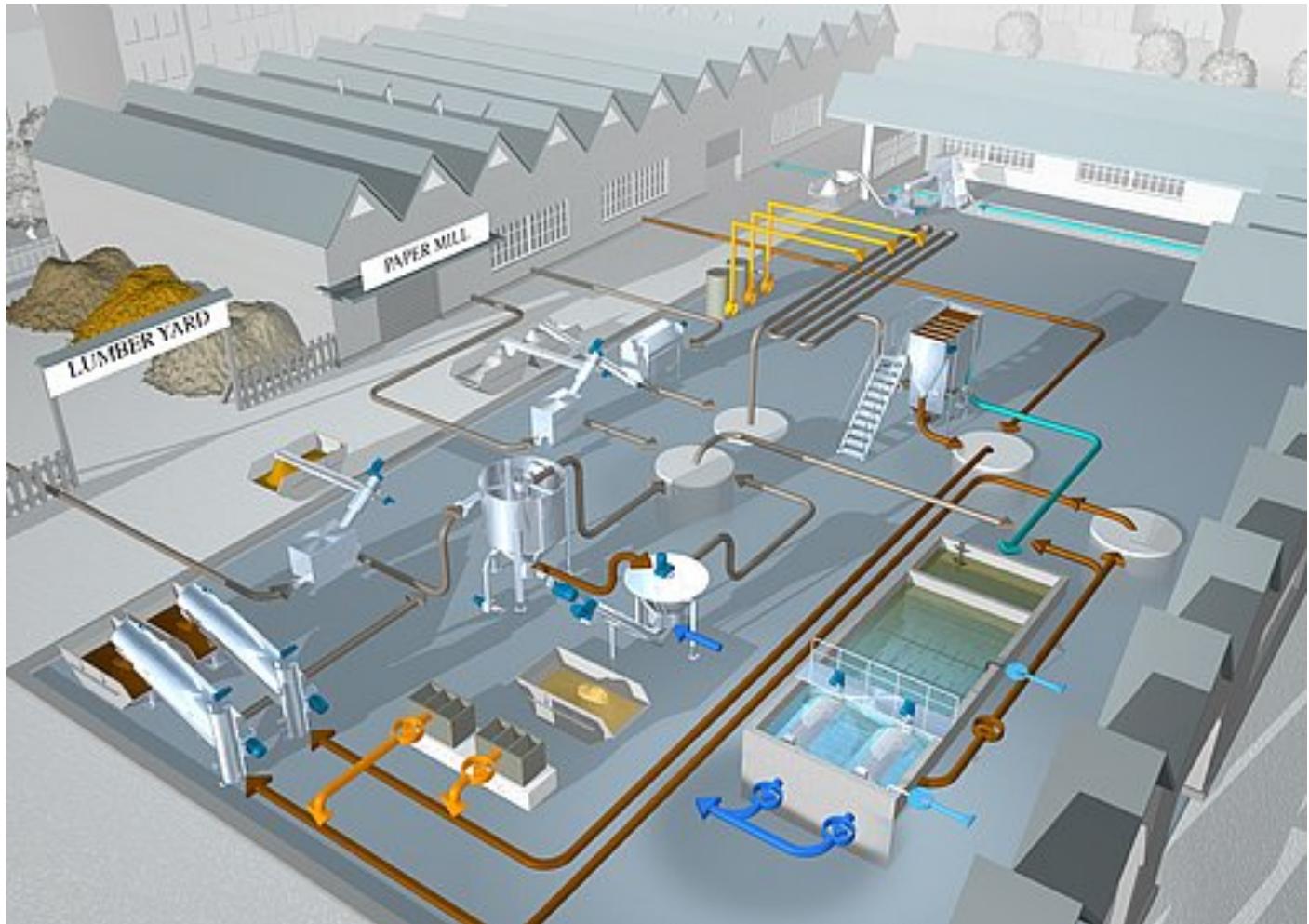
Pulp and paper mills consume much water and generate much wastewater; both generate environmental stress. It is even cost-effective to treat the wastewater such that it can be recycled as process water. In this way, both water supply and wastewater discharge costs are minimized.

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.

[КОНЦЕПЦИЯ](#)



нажмите для увеличения и перехода к интерактивной картинке

ТЕХНОЛОГИЯ

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.

ПРИМЕРЫ ИЗ ПРАКТИКИ

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

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[проспект: Комплексные решения HUBER для очистки стоков и обработки осадков ЦБП](#) [pdf, 7.98 MB]

фотографии



Обладнання

- HUBER Механізована грабельна решітка RakeMax®
- HUBER Барабанна решітка з обертовою гребінкою ROTAMAT® Ro1
- HUBER Обертова барабанна решітка ROTAMAT® Ro2 / RPPS / STAR
- HUBER Фільтраційний барабан RoMesh®
- Ступінчаста решітка STEP SCREEN®
- HUBER Прес-мийка для шламу WAP®
- HUBER Круглий піскоуловлювач HRSF
- HUBER Coanda Класифікатор-мийка піску RoSF4
- HUBER Шнековий прес S-PRESS®
- HUBER Шнековий конвеєр Ro8 / Ro8 T
- Люки

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