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## Rozwiązania HUBER dla przemysł papierniczy

- 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

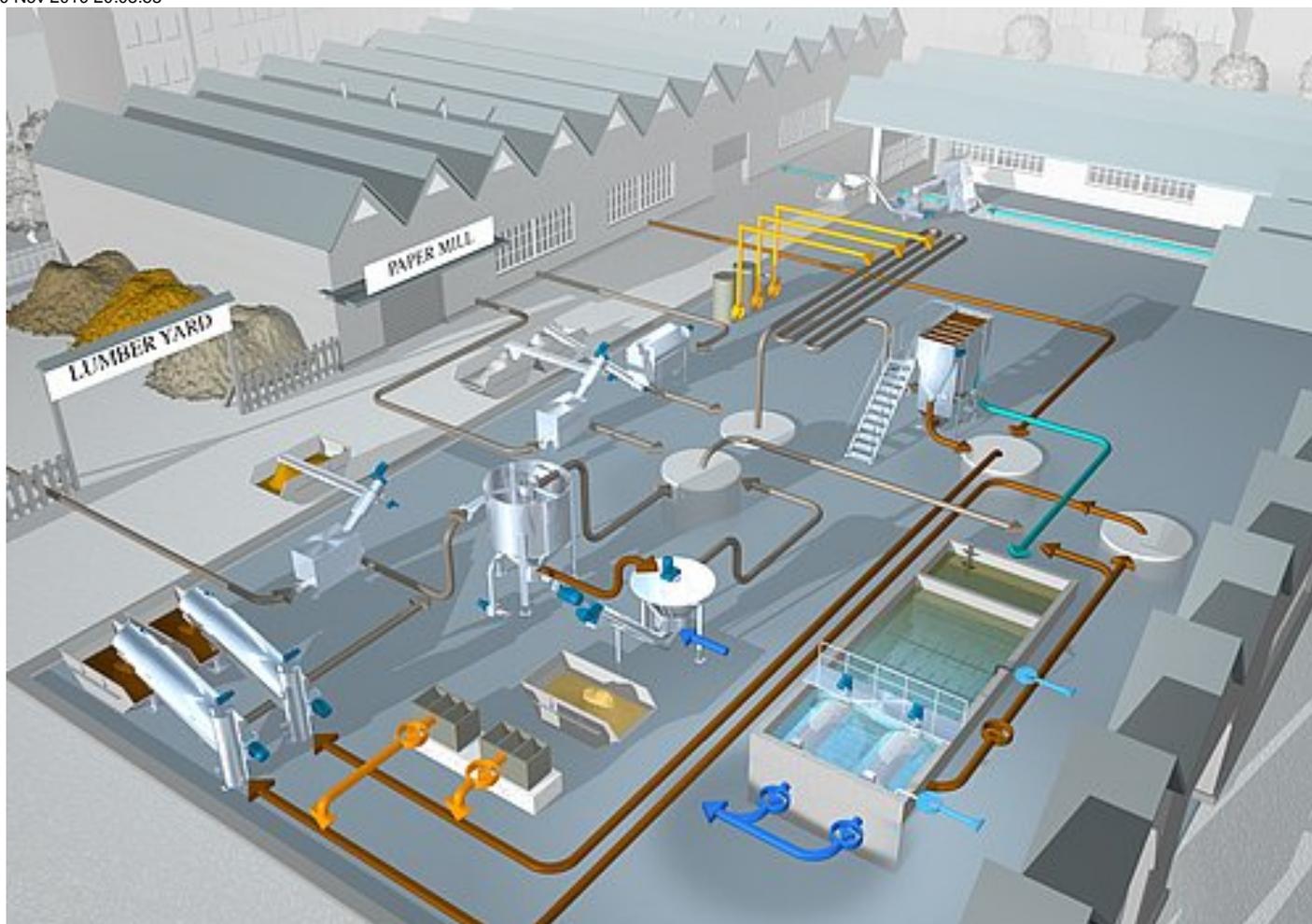
Pulp and paper mills consume much water and generate much wastewater; both generate environmental stress. It is even cost-effective to treat the wastewater such that it can be recycled as process water. In this way, both water supply and wastewater discharge costs are minimized.

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.

## Koncepcja systemu



Naciśnij na obrazek aby przejść do bardziej szczegółowego, interaktywnego widoku zawierającego dodatkowe informacje i odnośniki

## Opis procesu

### 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 flotatate 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 preferably 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.

## Przykłady wdrożeń

- [ROTAMAT® Screw Press RoS 3 – an international success in paper industry applications](#)
- [MDF fibreboard production: HUBER pre-treatment systems for optimised operation of Kronospan's wastewater treatment plant](#)

## Do pobrania

 [pro papier en.pdf](#) [pdf, 1.35 MB]

## Zdjęcia



## Produkty

- Krata zgrzeblowa HUBER RakeMax®
- HUBER Krata gęsta ROTAMAT® Ro1
- HUBER Sito bębnowe / Sito bębnowe perforowane ROTAMAT® Ro2 / RPPS / STAR
- HUBER Sito bębnowe RoMesh®
- Kraty schodkowe STEP SCREEN®
- HUBER Prasopłuczka skratek WAP®
- Piaskownik wirowy HUBER HRSF
- HUBER Coanda Separator płuczka piasku RoSF4
- HUBER Filtr membranowy VRM®
- HUBER Prasa ślimakowa S-PRESS
- HUBER Przenośnik ślimakowy Ro8 / Ro8 T
- Pokrywy włazów

Biuro Handlowe: ul. Ryżowa 51, 02-495 Warszawa, tel. + 48 22 572-28-60; fax + 48 22 572 28 68  
 Servis: ul. Ryżowa 51, 02-495 Warszawa, tel. + 48 22 572-28-60; fax + 48 22 572 28 98  
 KRS: 0000132940 Organ rejestrowy: Sąd Rej. dla m.st. W-wy w Warszawie, XIII Wydział Gospod. KRS

NIP 521-009-28-15  
 KRS 0000132940  
 Kapitał zakładowy 500.000 zł

Member of the HUBER group:  
[www.huber.de](http://www.huber.de)