



ECOFARIO

Next Generation Fluid Filtration

ADVANCED HYDROCYCLONE TECHNOLOGY

HIGH-EFFICIENCY REJECT AND PROCESS WATER TREATMENT

Improving Fiber Recovery and Process Stability in Modern Paper Mills

Rising raw material costs, increasing quality requirements, and growing pressure to reduce environmental impact are driving continuous optimization across the pulp and paper industry. At the same time, mills are confronted with increasingly complex raw material streams, higher levels of contamination, and tighter process windows.

ECOFARIO's High-G-Technology provides an advanced hydrocyclone solution designed to improve contaminant removal while minimizing fiber losses and maintaining stable process conditions.



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HIGH-G-TECHNOLOGY FOR HIGH-PERFORMANCE SEPARATION

ECOFARIO's High-G-Technology is based on an optimized hydrocyclone design that precisely controls tangential, axial, and radial flow patterns. The results are stable flow and significantly increased centrifugal forces, enabling highly selective separation between fibers and contaminants.

Unlike conventional hydrocyclones, the High-G-Separator operates with defined flow reversal and optimized velocity profiles. This improves separation efficiency while keeping fibers in suspension and directing contaminants such as plastics, stickies, sand, waxes, or dirt particles into the reject stream.

The hydraulic conditions, which are stable over a wide hydraulic range, reduce turbulence, minimize clogging risks, and enable consistent separation performance even under fluctuating operating conditions.



“Efficient separation is the foundation for stable and sustainable paper production. Our High-G-Technology enables mills to remove contaminants more selectively while recovering valuable fibers.”

DR. SEBASTIAN PORKERT

ANALYTICS

PROCESS IMPROVEMENT

Modern paper production requires separation systems that perform reliably across multiple process stages. ECOFARIO High-G-Technology can be applied in a wide range of areas within the mill, including stock preparation, approach flow systems, reject treatment, white water circuits, and wastewater treatment.

The technology improves pulp and process water cleanliness, stabilizes process conditions, and helps recover valuable fibers

● 01. Improved contaminant removal

High-G-Technology enables highly selective separation of heavy and light contaminants while maintaining stable flow conditions.

● 02. Reduced fiber losses

Optimized hydraulics minimize fiber thickening in the reject stream and significantly increase fiber recovery rates.

that would otherwise be lost with rejects or effluents. As a result, mills benefit from improved machine runnability, more stable product quality, and reduced operating costs. By combining efficient contaminant removal with improved fiber recovery, ECOFARIO systems support both economic performance and environmental sustainability. Lower raw-material losses, reduced water consumption, and lower energy demand contribute to more efficient and future-ready paper production.





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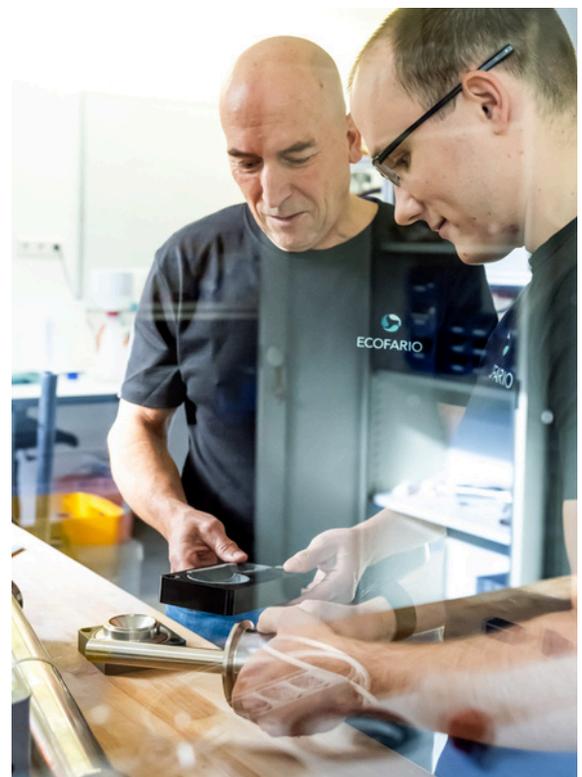
ECOFARIO GMBH

ABOUT ECOFARIO

ECOFARIO develops high-efficiency separation solutions that help paper mills improve fiber recovery, process stability, and product quality.

Our work focuses on reducing raw material losses and improving the efficiency of industrial water circuits in pulp and paper production.

By combining advanced hydrocyclone technology with practical engineering expertise, we deliver separation systems that are both highly efficient and easy to integrate into existing mill infrastructure. Each installation is a tailored plug & play solution for the specific process conditions and needs of the mill. ECOFARIO systems support cleaner production processes, improved operational reliability, and reduced environmental impact while providing measurable economic benefits through recovered fibers and lower disposal costs.



We aim to increase efficiency, strengthen sustainability, and deliver long-lasting performance benefits for our customers.



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