

ADVANCED HYDROCYCLONE TECHNOLOGY

MAXIMIZING FIBER RECOVERY

Next-Level Separation for Improved Fiber Yield

High-G-Technology improves fiber recovery and process stability while increasing overall efficiency. Its optimized design enhances separation, minimizes losses, and supports sustainable production in modern paper manufacturing.



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HIGH-G-TECHNOLOGY FOR HIGH-PERFORMANCE PROCESSES

ECOFARIO's High-G-Technology improves separation efficiency by stabilizing flow conditions inside the hydrocyclone. The result is cleaner furnish, reduced fiber losses and higher operational reliability.

"Our High-G-Technology enables mills to operate more efficiently while advancing their sustainability targets."



DR. SEBASTIAN PORKERT

The High-G-Separator uses optimized geometry and defined flow reversal to increase G-forces while maintaining uniform velocity profiles. This creates a highly selective separation environment that retains valuable fibers while directing contaminants—such as flakes, dirt specks, splinters, sand, stickies, waxes or Styrofoam—into the respective reject stream. Improved stability of the flow patterns reduces undesired fiber losses and ensures consistent results across changing production conditions and raw material qualities.

In daily operation, mills benefit from lower fiber losses, cleaner stock and improved machine cleanliness. The system can be integrated as a multi-stage cleaner unit or used as a fiber-recovery tail-stage upgrade. Operators can easily adjust reject rates and dilution settings, enabling flexible performance tuning without interrupting production. This provides measurable efficiency gains and supports long-term sustainability goals.

ANALYTICS

PROCESS IMPROVEMENT

We apply clear, data-driven methods to optimize fiber recovery and improve long-term operational reliability across the entire system.

The High-G-Separator delivers consistent efficiency across a wide range of operating conditions. Even with variable fiber mixes or fluctuating production capacities, the system maintains stable separation performance and reduces the load on downstream stages. Mills experience fewer disruptions caused by contamination spikes, resulting in smoother daily operation and more predictable production output. In addition to improving day-to-day reliability, the technology supports long-term process optimization. Cleaner accepts reduce wear on equipment and help maintain consistent quality at the paper machine. Because the system is easy to adjust, operators can fine-tune reject rates and dilution settings to match changing grade requirements without stopping production. This flexibility makes the High-G-Technology a valuable and future-proof addition to any system.

- **01. Improved separation efficiency**

High-G-Technology increases G-forces and stabilizes flow patterns, enabling cleaner accepts and more reliable contaminant removal.

- **02. Reduced raw-material losses**

Lower fiber thickening reduces raw-material losses and increases raw-material efficiency while reducing disposal costs.

Beyond improved separation quality, the technology strengthens overall resource efficiency by lowering raw-material losses. This directly reduces disposal volumes and supports sustainability objectives without requiring major process adjustments. Combined with its compact footprint, High-G-Technology offers an immediate, practical upgrade for mills aiming to modernize key process steps. Additionally, the High-G-Separator is the only unit on the market designed to be 100% recyclable for its intended applications, lifting it to the next level of product sustainability.





ECOFARIO

Next Generation Fluid Filtration

ECOFARIO GMBH

ABOUT ECOFARIO

ECOFARIO develops high-efficiency separation solutions that help paper mills optimize fiber recovery and improve paper quality.

Our work is driven by a clear mission: reducing resource losses and supporting cleaner, more efficient industrial water circuits. By combining advanced hydrocyclone designs with practical, hands-on engineering, we help mills increase operational performance while lowering environmental impact. Each installation is tailored to individual process and product requirements, ensuring consistent results even in demanding applications.

With a strong focus on innovation, we work closely with customers to understand their challenges and translate them into effective, scalable solutions. Our technology integrates easily into existing systems, allowing mills to modernize key stages without major structural changes. This approach provides long-term value, reduced operating costs and greater overall reliability.

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



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