



POWERING INNOVATION. TOGETHER.

Polyolefin Recycling Concepts for High Throughputs



About Nordson BKG

As part of **Nordson's Polymer Processing Systems** division, Nordson BKG specializes in precision-engineered solutions for polymer melt filtration, metering, and shaping. With decades of experience and **engineering excellence**, we deliver systems that ensure **consistent pressure and reliable performance**, even in the most demanding applications.

Since 1967, Nordson BKG has been at the forefront of innovation in **polymer melt delivery and pelletizing systems**. Our filtration systems are designed to meet the highest standards of **precision and reliability**, ensuring consistent product quality and process efficiency for plastics processors worldwide.

Our portfolio includes:

- High-performance filtration systems
- Precision melt pumps for pressure build-up
- Robust polymer valves
- Reliable pelletizing systems
- Pyrolytic cleaning ovens

What sets us apart:

- Deep expertise in melt filtration, pelletizing and overall process optimization
- Local technical sales and service teams for fast, responsive support
- Regional remanufacturing capabilities to extend equipment life and reduce downtime

At Nordson BKG, we don't just supply equipment - we deliver engineered solutions that drive progress. Our commitment to innovation and customer success makes us a trusted partner for plastics manufacturers around the globe.



About FIMIC

FIMIC's history dates back to 1963 and for the last 30 years it has been recognized as a leading manufacturer and specialized supplier of **automatic self-cleaning** melt filtration technologies.

This Italian Family Company is the only one in the market with a range of **seven different models of automatic melt filters**, capable to target highly contaminated plastics, especially **post-industrial and post-consumer plastics**. The company also offers a series of **screw pump** solutions that allow for the easy transfer of post-consumer plastics melted by the extruder to the filter without the use of gears, as well as **automatic guillotines** for efficient and safe cutting of plastic bales—ensuring complete automation of the recycling process.

FIMIC keeps improving its filtration technologies in order to **meet and satisfy the needs (quality, characteristics) of recyclers**, and at the same time facing the challenges of filtering out the ever increasing contaminations in post-consumer and post-industrial plastics.



Better Together. Recycling Together.

Accelerating Innovation Through Strategic Collaboration

When leading companies join forces, innovation moves faster.

Our partnership is more than a strategic alliance - it's a fusion of expertise, driven by a shared commitment to deliver efficient, high-performance solutions for the plastics industry.

Together, we provide a complete, integrated system designed to:



Meet evolving customer needs



Enhance product quality



Minimize operating costs

High-Throughput Performance. Exceptional Results.

With throughputs between 4 and 6 tons per hour of post-consumer plastics, our solutions ensure:



Superior filtration efficiency



Outstanding pellet homogeneity

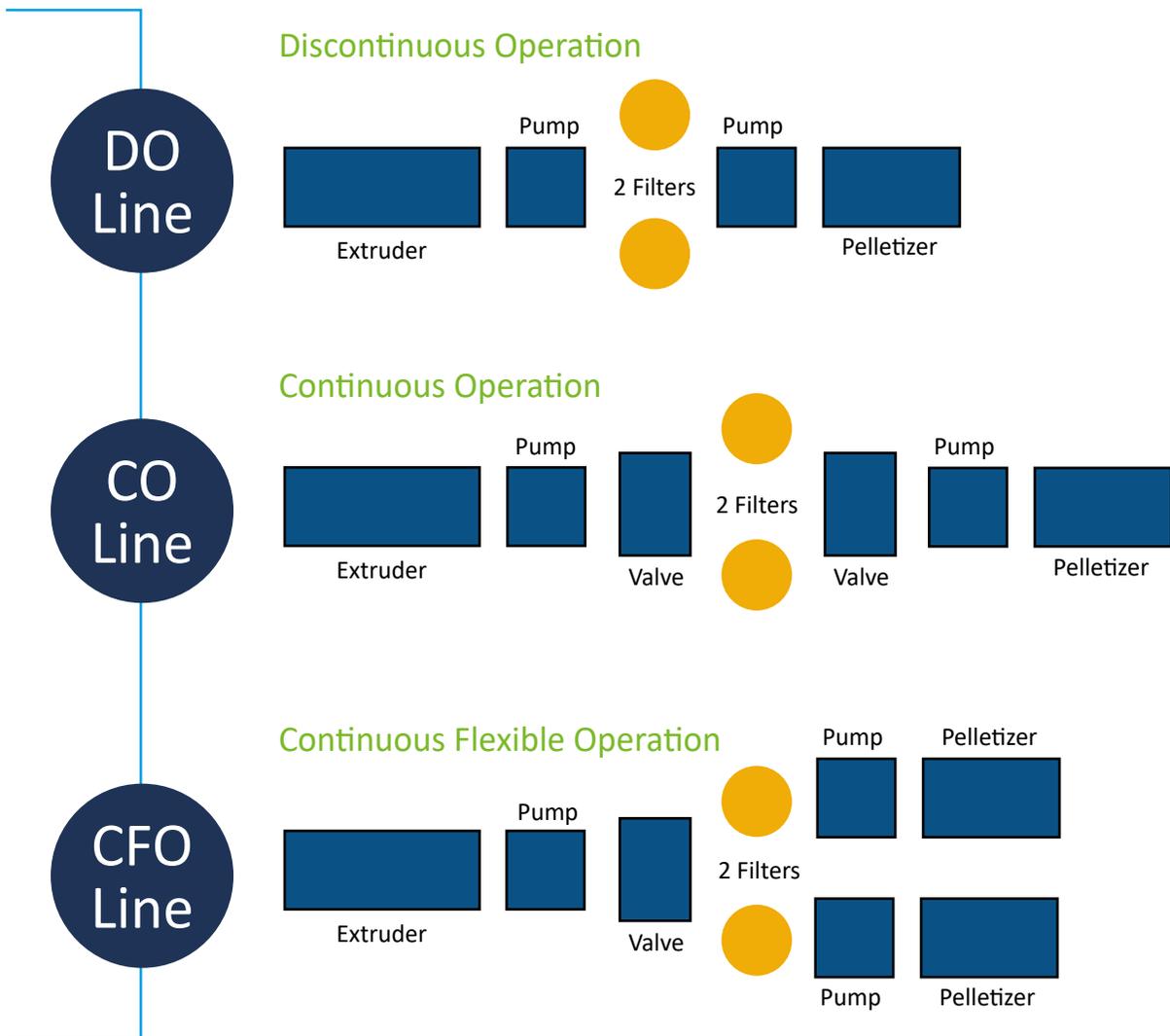


4.0 t/h
to
6.0 t/h

Polyolefin Recycling Lines

for High Capacities

Three modular concepts - seamlessly integrated to perform as **ONE POWERFUL UNIT**.

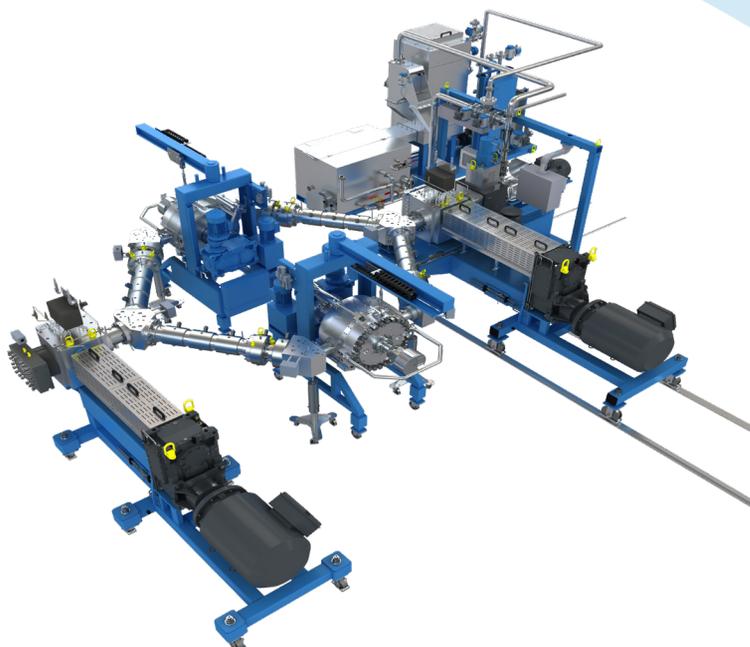




DO-Line

Discontinuous Operation

- **Pressure consistency** by using intelligent pump control
- **Lowest Total Cost of Ownership (TCO)** in the market by fastest filter exchange and cost for the filter media
- **Highest capacity** throughput in one line reduces investments
- **Rheologically optimized concept** throughout the line prevents degradation and end-quality defects
- **Lowest impact for operator intervention** by having the highest level of process automation
- **High level of automation** drives safe process performance and supports less operator intervention
- **Extended flexibility** in case of maintenance (pull screw) by using modular equipment
- **Prevents tension of the line equipment** in case of unequal heat extension by using flexible adjusting extension adaptors



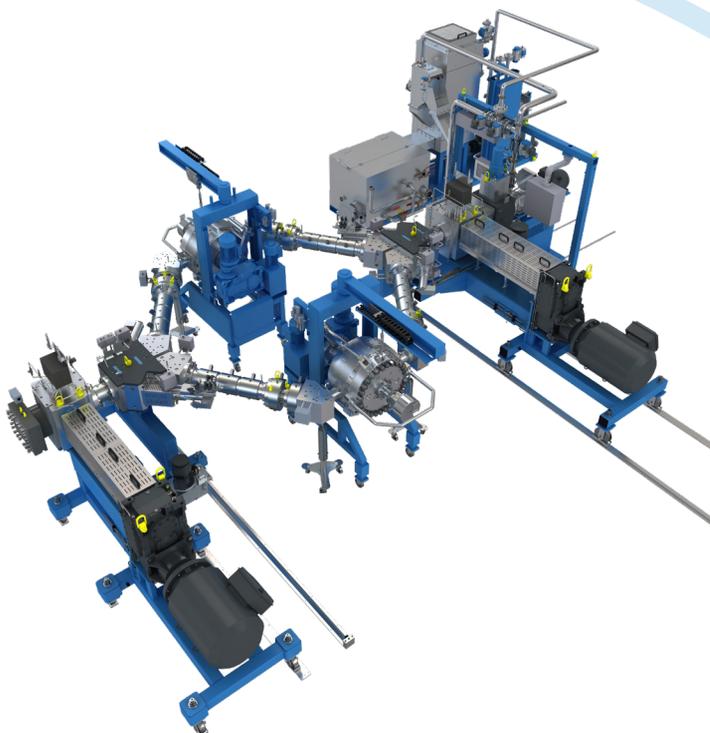
DO-Line



CO-Line

Continuous Operation

- **Continuous operation** - Screen change possible during production - without line shutdowns
- **High-level end-product quality** by using fully automated, pressure-adjusted venting after the screen exchange at all times
- **Pressure consistency** by using intelligent pump control
- **Lowest Total Cost of Ownership (TCO)** in the market by fastest filter exchange and cost for the filter media
- **Highest capacity** throughput in one line reduces investments
- **Rheologically optimized concept** throughout the line prevents degradation and end-quality defects
- **Lowest impact for operator intervention** by having the highest level of process automation
- **High level of automation** drives safe process performance and supports less operator intervention
- **Extended flexibility** in case of maintenance (pull screw) by using modular equipment
- **Prevents tension of line equipment** in case of unequal heat extension by using flexible adjusting extension adaptors



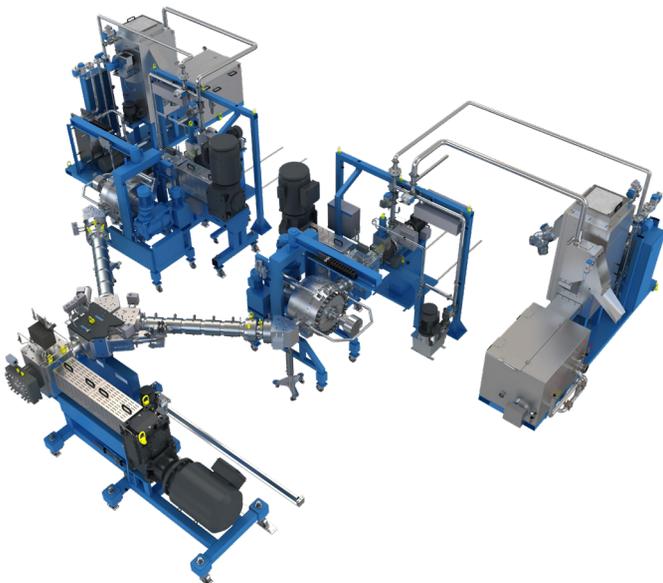
CO-Line



CFO-Line

Continuous Flexible Operation

- **Continuous operation** - Screen change possible during production - without line shutdowns
- **Pressure consistency** by using intelligent pump control
- **Lowest Total Cost of Ownership (TCO)** in the market by fastest filter exchange and lowest cost for the filter media
- **Rheologically optimized concept** throughout the line prevents degradation and end-quality defects
- **Lowest impact for operator intervention** by having the highest level of process automation
- **High level of automation** drives safe process performance and supports less operator intervention
- **Extended flexibility** in case of maintenance (pull screw) by using modular equipment
- **Prevents tension of the line equipment** in case of unequal heat extension by using flexible adjusting extension adaptors
- **High degree of maintenance flexibility** for the 2nd gear pump and the underwater pelletizer by shutting down 50% of the line
- **High safe running line performance** in case of possible underwater pelletizer or gear pump failures
- **Small downstream equipment** (gear pump & underwater pelletizer in comparison to the DO-Line and CO-Line) reduces spare parts cost and maintenance time



CFO-Line



Recycling

It's better together.

At Nordson BKG and FIMIC, innovation does not just come from machines - it comes from people. The experts behind our technology are not only leaders in polymer processing and recycling solutions, but also passionate collaborators, storytellers, and - as it turns out - surprisingly talented movie actors.

In our video, the spotlight shines on the real people driving our partnership forward. Their on-screen presence is more than just a performance - it's a reflection of the genuine collaboration between our teams. Across borders and time zones, Nordson BKG and FIMIC work hand in hand to develop smarter, more sustainable solutions for the plastics industry - for a greener tomorrow. And when it came time to tell that story, who better to do it than the people living it?

This unique blend of technical brilliance, human connection, and people passion is what makes our partnership so powerful. Because behind every innovation is a team that believes in what they do - and isn't afraid to have a little fun along the way.

Meet the experts. Watch the story. Experience the collaboration.





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