

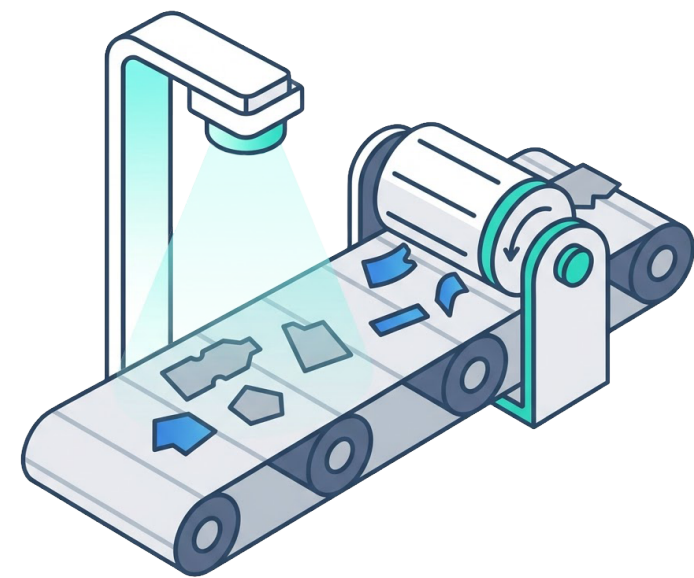
INCIRCULAR Pilot line

How Advanced Machinery and Digital Twins Turn
Waste Into Smart Products



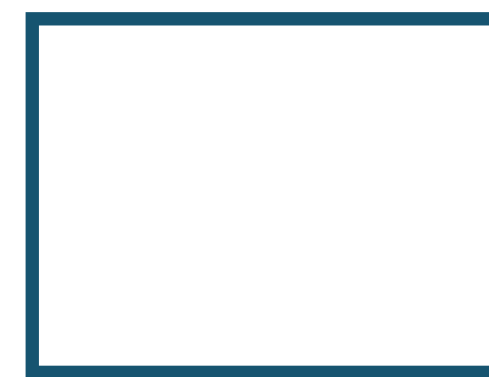
Welcome to the INCIRCULAR Pilot Plant.

This panel showcases the advanced, interconnected machinery that makes our closed-loop plastic recycling possible. Explore our pilot line, a state-of-the-art demonstrator for modern circular manufacturing.



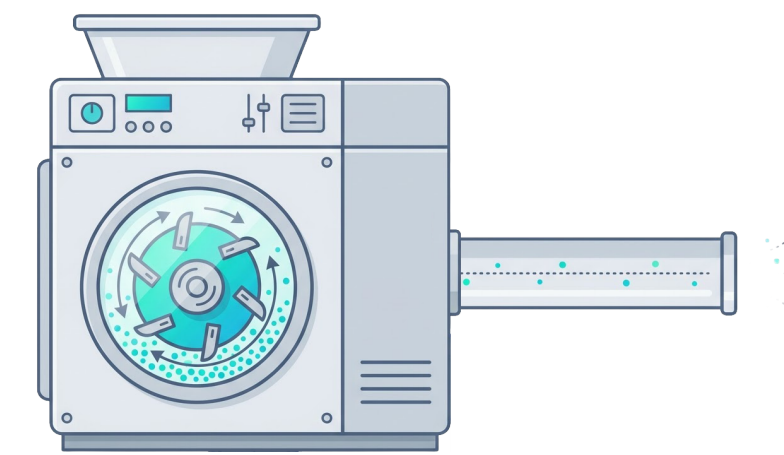
Sorting belt

A mechanical conveyor system integrated with high-tech separation sensors, such as magnetic separators and NIR spectrometer cameras.



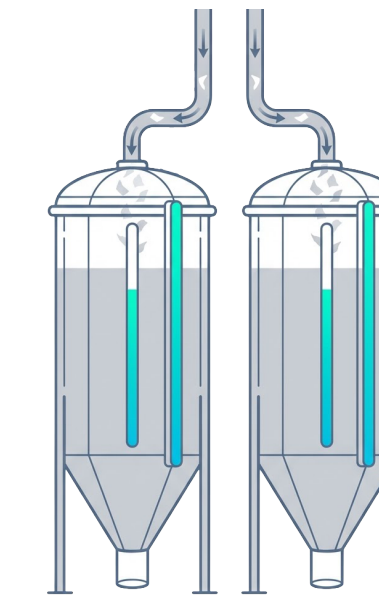
Shredder

A heavy-duty machine featuring a steel frame and rotating knives.



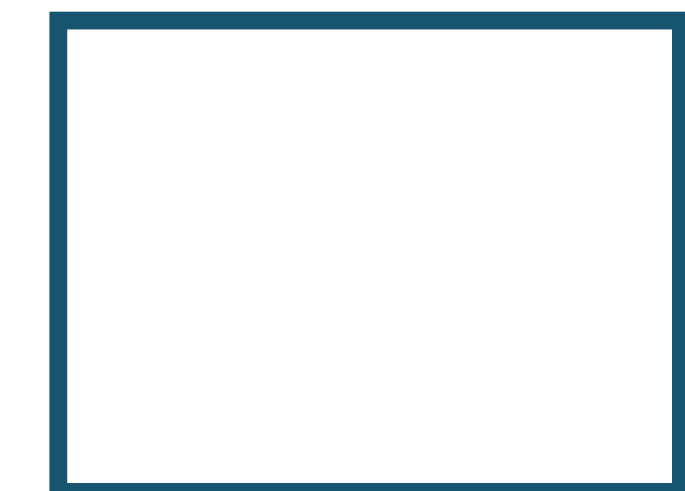
Mill / Granulator

A machine with a cutting rotor, fixed knives, and screens.



Storage Silos

Large storage units that hold the finely ground, clean, and uniform plastic fractions.



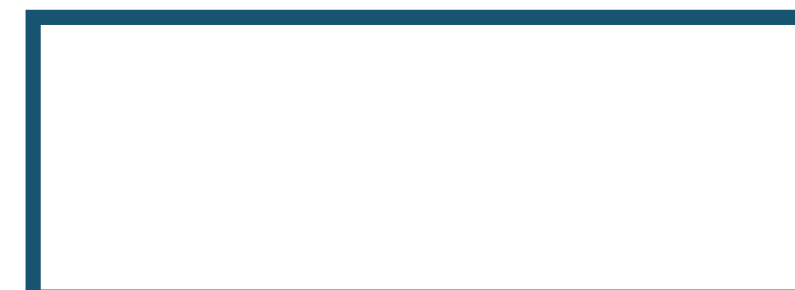
V-Mixer

First segment of the extrusion machine specialising in mixing the different material inputs.



Extrusion Compounding Machine

A specialised twin-screw extrusion system with heating zones and dosing units.



Cooling Pool / Bath

A water-based cooling system designed to solidify the molten plastic strands exiting the extrusion machine.



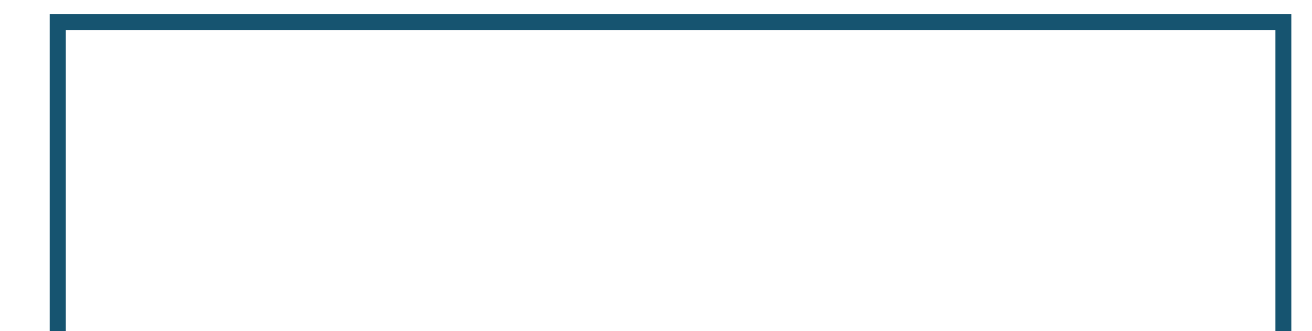
Pelletizer

A specialised cutting machine that slices the cooled, solid plastic strands into small, uniform pellets (granulate)



Vacuum Drying Chamber

A sealed drying system that removes moisture under reduced pressure.



Injection Moulding Machine

A massive machine with an injection unit, clamping unit, and hydraulic/electric drives.



Scan to visit the INCIRCULAR Interactive Toolkit

Want to see these machines running in a 3D simulation?
Or test if your company's production line is ready for circular plastics?
Scan the QR code to access our interactive online Toolkit and explore the virtual pilot plant!



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