

100% PET fibre-to-fibre recycling.
With added flexibility.

INNOVATION

Proven shredder-extruder combination
New IV Optimiser



ISEC^{evo} FibrePro:IV

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All-in-One: Schredder, Extruder & IV Optimiser.

PET fibre-to-fibre recycling with added flexibility.



Ready for respinning. The 100% rPET pellets produced by the ISEC evo FibrePro:IV have it all: high colour fidelity and the excellent mechanical properties needed for further processing into ultra-fine, 100% recycled PET fibres with a titer of 2 dtex. Suitable for filament, staple and BCF fibres.

Flexible material all-rounder:

Regardless of whether PET continuous fibres, fabrics or clumps: With the ISEC evo FibrePro:IV, you get maximum flexibility. The unique ifeed technology makes it possible with the combination of double feed ram system and single shaft shredder.

Thanks to the high degree of technology integration, several essential process steps are integrated compactly in one plant. As a result, no additional upstream processes and equipment are required for shredding and agglomeration, for example.

Thanks to IV Optimiser technology, the system delivers high recovery performance and is ideal for medium levels of contamination (spin finish and additives) as well as medium levels of moisture.

ISEC ^{evo}. FibrePro:IV

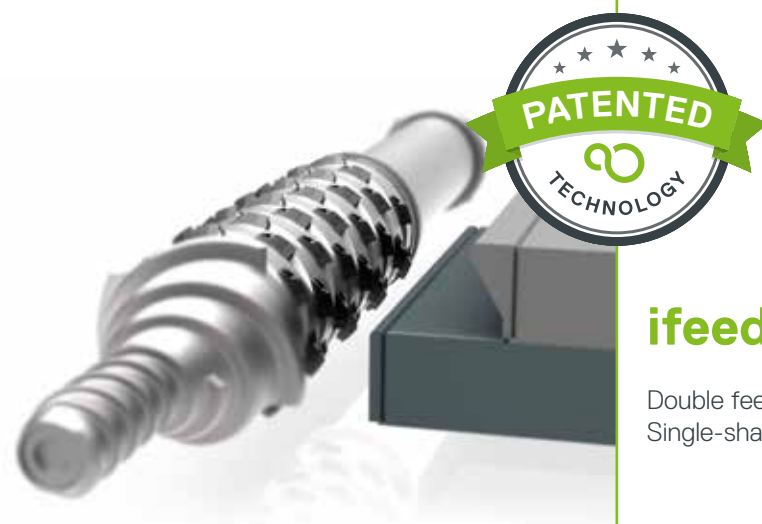
The future of
textile recycling
in sight

PURE LOOP is leading the way in fibre recycling with innovative solutions - an important contribution to today's circular economy. The company has set a significant milestone on route to future textile recycling.



Intensifibre your sustainability!

PET fibre-to-fibre recycling



ifeed technology:

Double feed ram system and
Single-shaft shredder



The **benefits** at a glance:

Ultra fine, high quality, 100% rPET fibres

- 100% PET fibre-to-fibre recycling
- high colour fidelity (white tones)
- ultra fine fibres with 2 dtex possible
- for filament, staple and BCF fibres

Flexible material all-rounder thanks to robust ifeed technology

(Combination of double feed ram system and single shaft shredder)

- wide range of different material types and shapes
- from PET continuous fibres, to fabrics and clumps
- from heavy, compact to light, high-volume materials

Energy-saving all-in-one technology concept: Shredder, extruder and IV Optimiser in one line

- no additional upstream processes and equipment are required for shredding and agglomeration

Good recovery performance and repolymerisation thanks to IV Optimiser technology

Increases the IV value by up to 0.20 dl/g compared to the input material

Ideal for **medium contamination levels** (spin finish and additives) as well as **medium moisture levels**

High energy efficiency

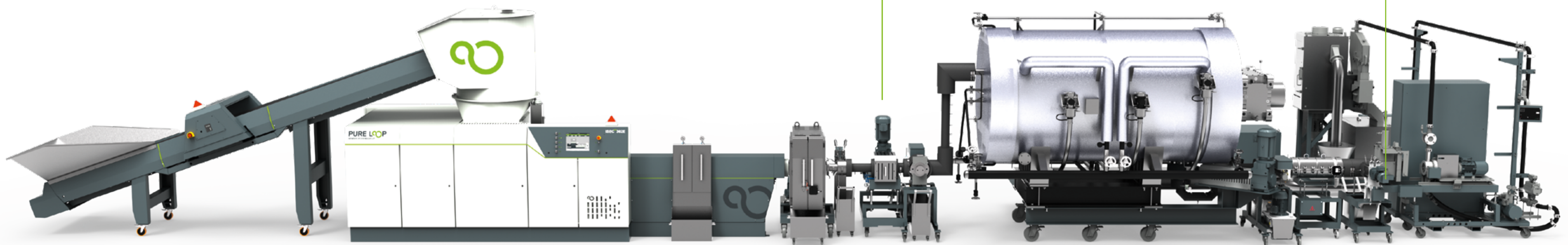
Systems available

for outputs of 450, 900 and 1,350 kg/h

ISEC^{evo} FibrePro:IV

Perfectly interwoven:

Proven ISEC evo machine combined with innovative IV Optimiser technology



ISEC evo

- shredder-extruder combination in a compact unit
- flexible material all-rounder thanks to ifeed technology
- robust, proven, efficient

The finest filtration

- highly efficient, fine filtration for clean recycled pellets

IV Optimiser

- tailored to the specifications of the fibre industry
- fibres cleaned efficiently of additives (spinning oils, texturing oils, etc.)
- **Optimises and increases the intrinsic viscosity (IV value)** to the required level during the melt phase
- **repolymerisation**



High quality rPET pellets: Immediately ready for the spinning process



End product:
Top fibre quality

Fibre Recycling Centre in Austria

Test us - using your material

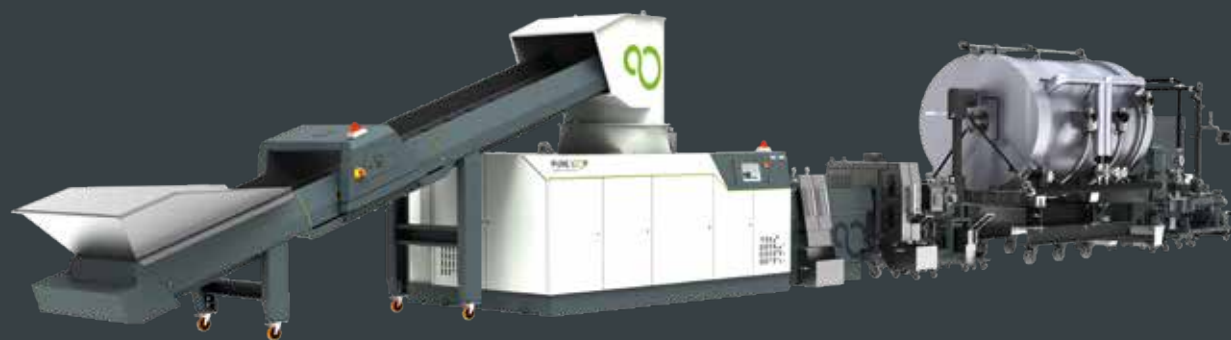
At our state-of-the-art Fibre Recycling Centre in Austria, you can use our selection of PET fibre recycling machines and technologies for trial runs with your own test materials. The tests are carried out in realistic production conditions and therefore provide the results you need to optimize your specific machine configuration – tuned precisely to your application.

- **basic test runs:** 1 tonne of PET fibre material
- **full-loop test runs:** from 3 tonnes of PET fibre material
- **output rate:** 350 kg/h



PURE LOOP
MEMBER OF EREMA GROUP

ISEC^{evo} FibrePro:IV



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