

INTAREMA® FibrePro:IV

PET fibre-to-fibre recycling.
Spin finish under perfect control.

CHOOSE THE NUMBER ONE.

EREMA®
PLASTIC RECYCLING SYSTEMS

INTAREMA® FibrePro:IV

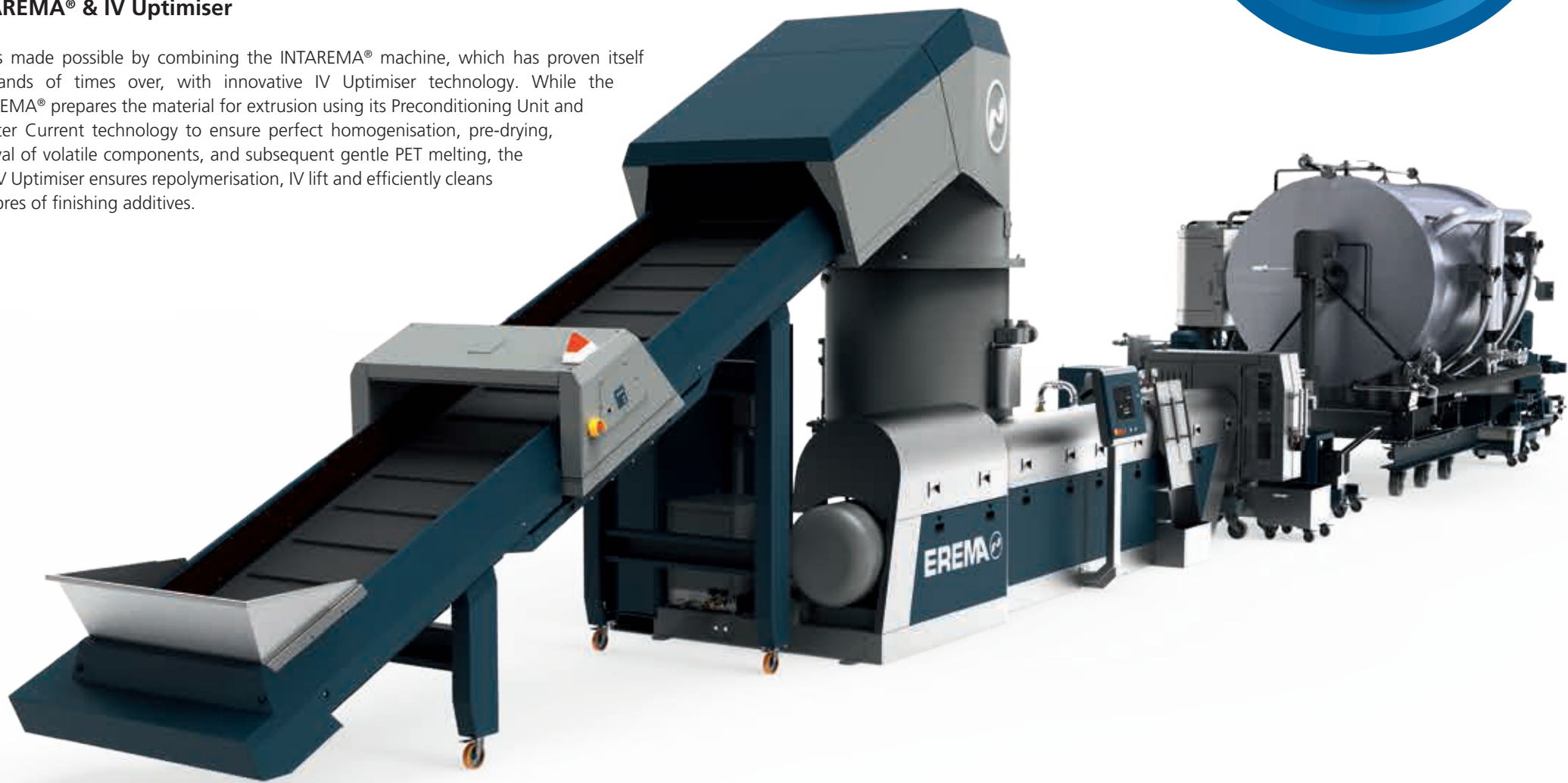
Spin finish under perfect control.
PET fibre-to-fibre recycling
as a fine art.

Ready for respinning. The 100% rPET pellets produced by the INTAREMA® 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.

As a result of its efficient cleaning and recovery performance, the new INTAREMA® FibrePro:IV is also the first choice for especially challenging input materials such as PET fibres that are heavily contaminated with spin finish and have high levels of moisture.

**Unique combination of technologies:
INTAREMA® & IV Optimiser**

This is made possible by combining the INTAREMA® machine, which has proven itself thousands of times over, with innovative IV Optimiser technology. While the INTAREMA® prepares the material for extrusion using its Preconditioning Unit and Counter Current technology to ensure perfect homogenisation, pre-drying, removal of volatile components, and subsequent gentle PET melting, the new IV Optimiser ensures repolymerisation, IV lift and efficiently cleans the fibres of finishing additives.



Future textile recycling in sight

EREMA is leading the way in PET fibre-to-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.



FibrePro:IV

The benefits at a glance:



**Ultra fine, high quality,
100 % rPET fibres**

- ultra fine fibres with 2 dtex possible
- for filament, staple and BCF fibres



Excellent recovery performance:
high IV lift and repolymerisation thanks
to IV Optimiser Technology

Increases the IV value by up to 0.25 dl/g
compared to the input material



**Heavy duty: suitable for especially
challenging materials**

- fibres cleaned efficiently of
spin finish and additives
(spinning oils, texturiser oils
and other processing oils)
- up to 2 % spin finish and
additives possible
- high moisture
(up to 10 %)



High colour fidelity
(white tones)

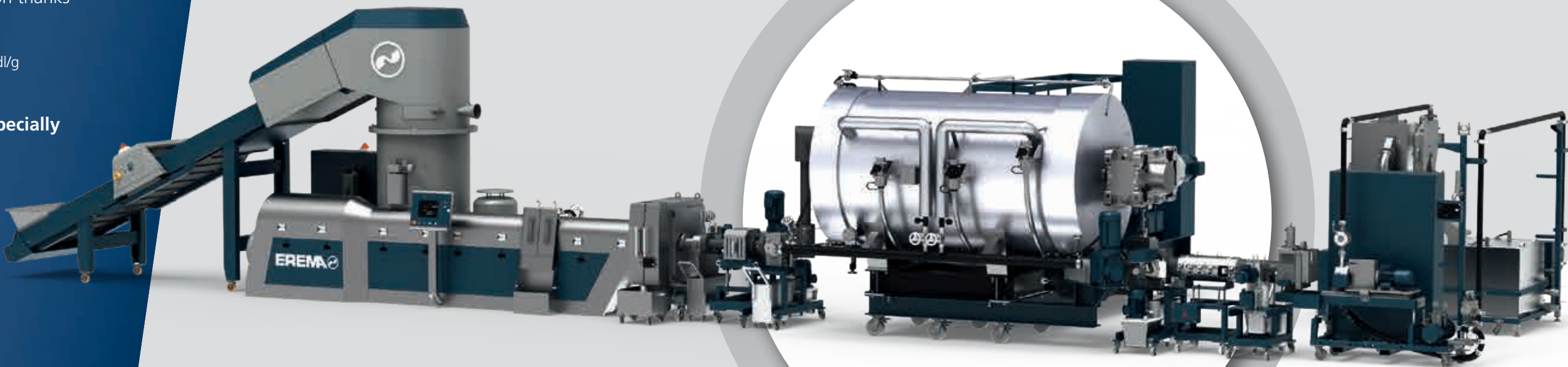


High energy efficiency



Intensify your sustainability!

PET fibre-to-fibre recycling
Spin finish under perfect control



INTAREMA® FibrePro:IV

Technical data INTAREMA® FibrePro:IV

Systems available	Average output capacity in kg/h*	
	min	max
INTAREMA® 1310 TE FibrePro:IV	450	550
INTAREMA® 1714 TE FibrePro:IV	800	1000
INTAREMA® 1716 TE FibrePro:IV	1100	1300

*) all output capacities are examples, output capacity depending on material properties such as residual moisture, print, degree of contamination, etc.

INTAREMA® FibrePro:IV

A strong fibre package: proven INTAREMA® technology combined with the innovative IV Optimiser

Preconditioning unit Ideal material preparation

Cutting, homogenising, heating, drying (input material with up to 10 % moisture), compacting, buffering and dosing – in a single process. The patented, dynamically controlled preconditioning unit gives the material the best possible preparation for the downstream tangentially connected extruder.

- 
CUTS
- 
HOMOGENISES
- 
HEATS
- 
DRIES
- 
COMPACTS
- 
BUFFERS
- 
DOSES



IV online measurement



END PRODUCT
Top fibre quality



OUTPUT
High quality rPET pellets
Immediately ready for the spinning process

INTAREMA®

- robust machine
- technology proven 1,000 times over

ULTRA FINE FILTRATION

- highly efficient, fine filtration for clean recycled pellets

IV-UPTIMISER

- tailored to the requirements of the fibre industry
- efficient removal of spin finish and additives (spinning oils, texturiser oils, etc.)
- optimises and increases intrinsic viscosity (IV value) to the required level during the melt phase
- repolymerisation

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 optimise 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



Headquarters & Production Facilities

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