

State-of-the-art technology for rPET production with and without food grade /



Typical materials /

- PET bottle flakes
- Polyester fibres
- PET film
- Thermoformer waste

Optimized for applications /

Recycling of post-consumer or post-industrial PET waste.

Production of PET pellets for food use thanks to the integration of the SSP MOBY reactor from SB Plastics Machinery.

Benefits /



No loss of IV

- High vacuum system to remove moisture
- Specific screw for PET
- Minimal shear and temperature degradation



Maximum control

- Performance monitoring screen
- Precise control of all critical parameters
- Online IV measurement



High profitability

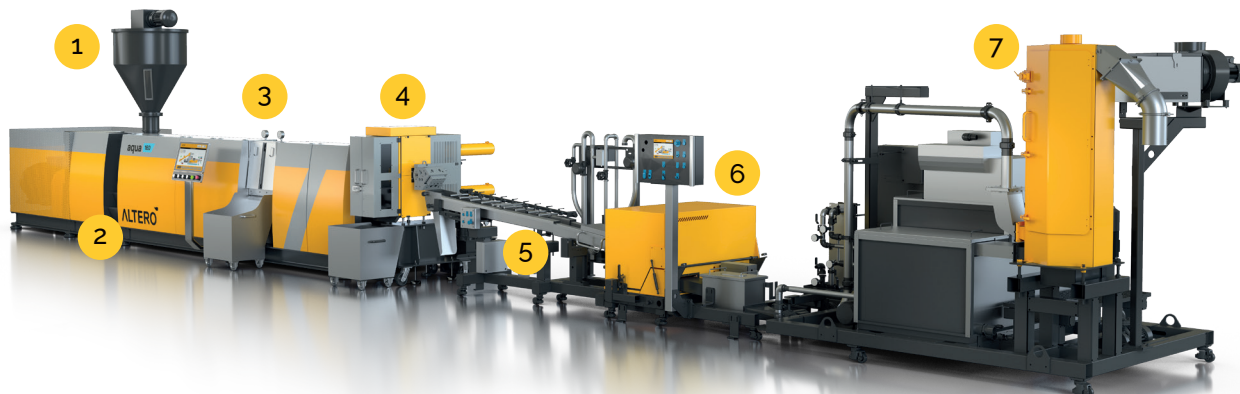
- Highly competitive prices
- Optimal production/energy consumption ratio
- Wear parts repair



Premium quality

- Premium quality components
- IPS pelletising system
- Stabilisation of IV in the pellets produced

Components



- 1** Vertical **feeding hopper** with gravimetric dosage and anti-vault system. Optionally incorporates a vacuum system.
- 2** **Single-screw extruder with specific screw for PET.** Optimised design to minimize IV drop and avoid the appearance of black spots.

 - Includes the best reducer for extrusion Applications and highest efficiency motors.
 - Precise and efficient temperature control by infrared (heating) and thermal oil (cooling).
- 3** **High vacuum degassing system** for removal of moisture and other volatiles. 5 mbar working pressure with different flow rates depending on the moisture content of the material. Adjustable vacuum pressure to stabilize IV with fluctuating humidity values.
- 4** **Specific filter** with a large filtering surface to work with low and constant pressures. Filtration level up to 30 microns.
- 5** **Thread nozzle and cooling system with automatic guides.** Threads are transported by the constant flow of water to the pelletiser. Optionally, a pelletising system totally submerged in water can be used (Premium option). Made in Germany.
- 6** **Underwater pelletiser** to offer the best cutting quality. Maximum quality and robustness. Made in Germany.
- 7** **Vertical centrifuge** with great drying power and minimal generation of fines. Made in Germany.



Reactor SSP Moby

- IV stabilization
- Maximum energy efficiency thanks to the use of IR
- Patented technology
- IV increase up to 1.3 dl/gr



Models

Different configurations with productions from 250 to 1,600 kg/h approximately.