

user-friendliness. The touch screen enables a simple start-stop procedure, RFID-chip user levels and screenshots (USB port). This ensures highest efficiency and consequently fast ROI. Features are either standard or can be added according to customer's requirements.



Using a DSL connection, the customer – wherever in the change of settings. world it is installed.



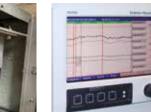
Inline viscosimeter

The continuously measured IV **measurement** online support establishes a of the PET melt during extru- Colour deviations from a set The online writer collects all connection from Starlinger sion helps to control quality standard are detected and to the recycling line at the and indicates any required serve as an inline quality



Online colour

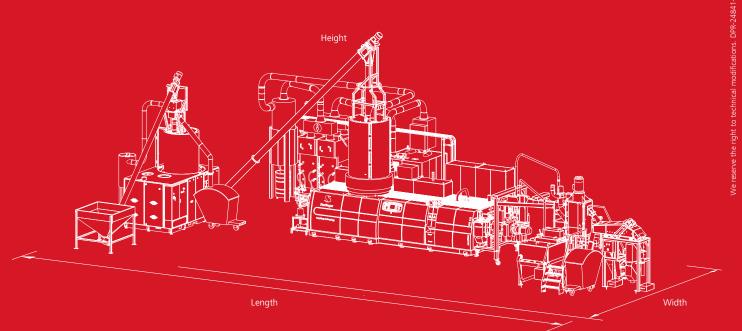
control of the input material. Deviations can be offset by in short intervals in an adding additive (either liquid internal memory and thus or masterbatch).



and archiving

secure traceability. Up to 50 parameters can be stored are saved in the event of a power cut.





Dimensions in mm		recoSTAR PET FG / FG+			
Туре	125	165	215	330	
Height	7250	7250	11700	11700	
Height in inches	290	290	460	460	
Width	11100	13400	16000	11700	
Width in inches	440	530	630	460	
Length	21600	22800	32000	27100	
Length in inches	850	900	130	1070	

Technical data				
Туре	125	165	215	330
recoSTAR PET FG / FG+				
Output [kg/h]	650 - 900	1200 - 1650	2000 - 2400	2500 - 3300
Output [lbs/h]*	1430 - 1980	2640 - 3640	4400 - 5300	5500 - 7280
AC drive [kW]	160	315	530	630 (2 x 315)
Extruder				
Screw diameter (L/D) [mm]	125 (40)	165 (40)	215 (40)	2 x 165 (40)
Screw diameter (L/D) [inch]	4.9 (40)	6.5 (40)	8.5 (40)	2 x 6.5 (40)
Energy consumption [kWh/kg]	0.25 - 0.35	0.25 - 0.35	0.25 - 0.35	0.25 - 0.35
High-vacuum [mbar]	≤ 10	≤ 10	≤ 10	≤ 10
Downstream equipment				
Strand pelletiser				
Underwater pelletiser	•	•	•	

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RECYCLING LINE recoSTAR PET FG/FG+

for production and post-consumer scrap, preforms, bottle and sheet flakes, integrated pre-drying, dust-free processing, energy efficient, high ROI, full automation









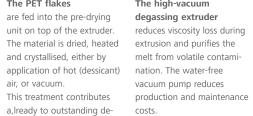
with reduced output





The PET flakes are fed into the pre-drying unit on top of the extruder. and crystallised, either by air, or vacuum.

contamination results.





Continuous filters reduces viscosity loss during available with or without



for dirt particle removal are backflushing. The direct material flow reduces stress on material. Finest filtration available on request.



is energy-saving, features a **crystallisation** simple start-up procedure, and can replace the strand pelletiser or automatic strand energy savings, and high pelletiser. Pellet size and bulk crystallinity. density are adjustable for all Online colour measurepelletising systems.



after underwater pelletising ensures optimised foot-print, ment guarantees first-class

colour values.



alternative for heating.



Resin-like characteristics such as natural gas or steam of the rPET in terms of form, can be used as a cost-friendly flow behaviour, crystallinity, humidity, dust content, etc. Suitable & accepted for a wide range of food-contact applications.

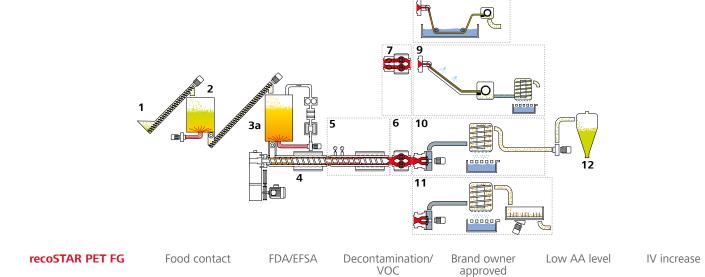
Advantages

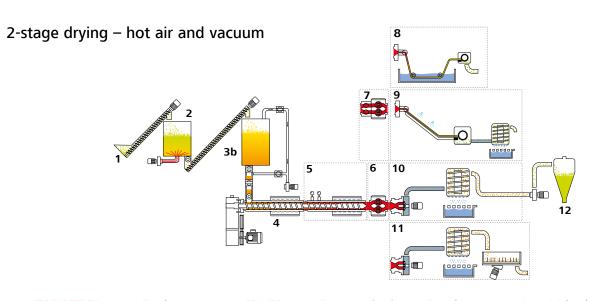
- Food-contact decontamination
- FIFO ensures uniform treatment
- Energy-saving through inline processing
- Improved production efficiency
- User-friendly touchscreen and high automation
- Modular design provides flexibility – e.g. single-mode extruder operation for recoSTAR PET 330



Starlinger recycling technology allows utmost flexibility for the customer and adjustment to the ever changing requirements in the market or applications through modular design.

2-stage drying – hot air and dry air





	✓	~	VV		optionally	with full output	
coSTAR PET FG+	Food contact	FDA/EFSA	Decontamination/ VOC	Brand owner approved	Low AA level	IV increase	

PET flakes are heated and dried in a two-stage process, first with hot air, then by means of dry air or vacuum. The special design of the dryer outlets results in center flow prevention, consistent residence time and FIFO processing. This ensures decontamination for food contact applications and ideal preparation for the extrusion process with IV increase. A choice of filtration and pelletising systems is available. Once installed, the unit can be equipped with an SSP reactor (iV+) to increase viscosity and decontamination levels.

- 2. Hot air drying unit Extruder
- **3a/b.** Pre-drying unit/pre-drying unit under vacuum
- 5. High-vacuum degassing extruder
- 6. Melt filter without backflushing
- 7. Melt filter with backflushing 8. Strand pelletiser
- 9. Automatic strand pelletiser 10. Underwater pelletiser
- 11. Underwater pelletiser with inline crystallisation
- 12. Storage silo