



RECYCLING LINE recoSTAR universal

for production and post-industrial scrap, film, fibres, nonwovens and lumps, no precutting, feeding control for consistency, operator and maintenance friendly, low manpower requirements





Machines pictured may include equipment sold as options.

State-of-the-art recycling technology for the efficient processing of all different kinds of films, fibres, nonwovens, mono- and multifilaments, tapes, fabrics, as well as solid lumps, start-up scrap and injection moulding parts, from materials such as PE, PP, PS, PA, PES, PET, PPS, PLA, and more.



The hydraulic pusher in the single-shaft cutter presses the material against the water-cooled rotating shaft and thus ensures efficient crushing. The extruder-controlled dosing screw allows continuous feeding of the extruder even when the bulk density varies.



The optional degassing extruder reduces degradation and purifies the melt from volatile contamination and monomers. For special input material which is, e.g., highly printed, humid, etc., other options such as double degassing, high-vacuum, and cascade degassing are available.



Continuous filters for dirt particle removal are available. The optional backflushing reduces costs for filter screens and operator intervention. In case of higher contamination, a power backflushing or continuous filter is recommended.

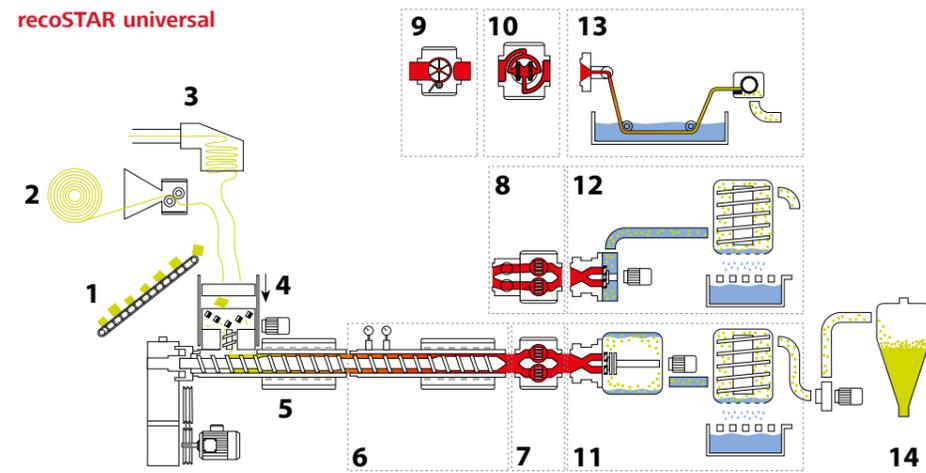


The patented water ring pelletiser ensures exact cutting for increased pellet quality and reduced wear of knives. Alternatively, strand, automatic strand, or underwater pelletising can be used.



Compounding with powder, liquid or masterbatch allows to upcycle the plastic scrap. In-house masterbatch production through our recoBATCH solution is possible. Constant high pellet quality is ensured.

recoSTAR universal

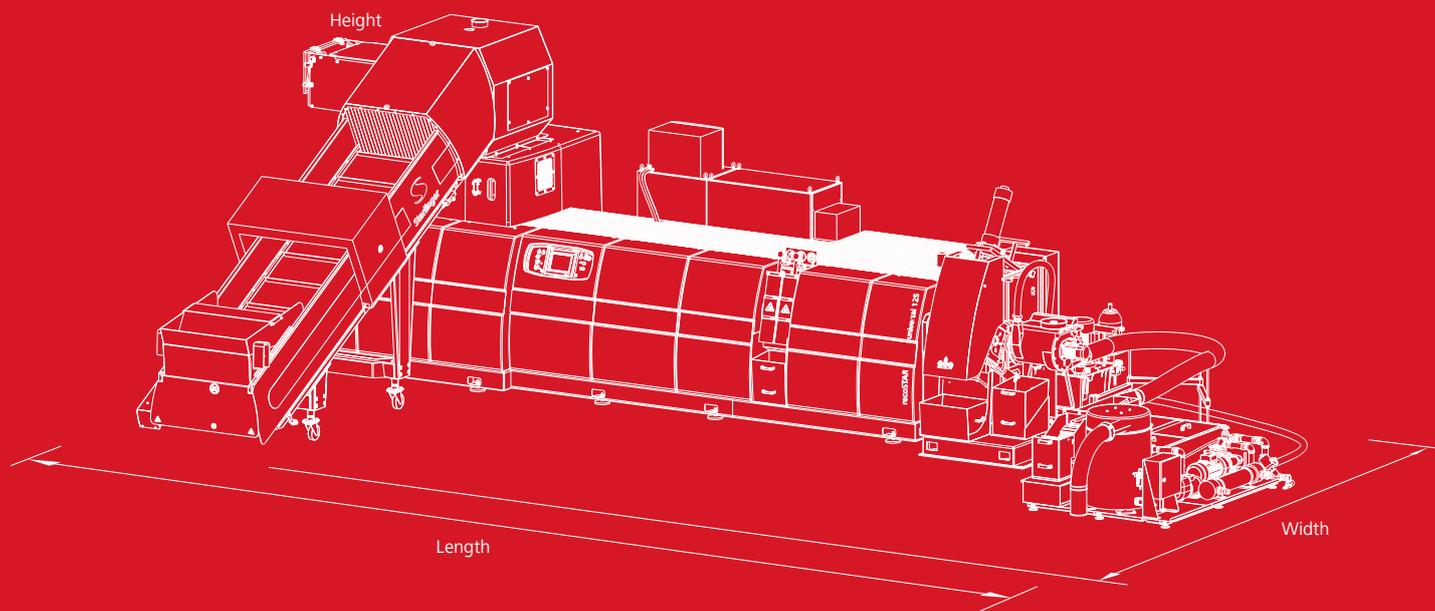


- | | | | |
|---|-------------------------------------|---|-----------------------------------|
| 1. Conveyor belt with optional metal detector | 5. Extruder | 9. Continuous rotation filter | 13. (Automatic) Strand pelletiser |
| 2. Nip roll feeder | 6. Degassing extruder | 10. Power backflushing filter | 14. Storage silo |
| 3. Edge trim cyclone | 7. Melt filter without backflushing | 11. Water ring pelletiser with centrifuge | |
| 4. Single-shaft cutter with speed-controlled dosing screw | 8. Melt filter with backflushing | 12. Underwater pelletiser with centrifuge | |

Advantages

- For hard-to-grind materials
- Most efficient material preparation
- Dosing screw system for perfect process stability
- Modular design provides flexibility
- Low energy consumption/kg
- One-button start/stop operation
- Sophisticated software





Dimensions in mm

	recoSTAR universal				
Type	65	85	105	125	165
Height	2960	2960	4300	4300	4300
Width	6020	6020	7600	6100	12500
Length (with degassing)	9400	8300	11800	12000	18800

Technical data

	recoSTAR universal				
Type	65	85	105	125	165
Output [kg/h]*	150 – 230	280 – 380	400 – 600	650 – 850	900 – 1300
Energy consumption [kWh/kg]	0.2 – 0.35	0.2 – 0.35	0.2 – 0.35	0.2 – 0.35	0.2 – 0.35

* without degassing

Single-shaft cutter

Shaft width [mm]	800	800	1200	1200	2000
Drive power [kW]	55	55	90/110	90/110	132/160

Extruder

Screw diameter (L/D) [mm]	65 (24; 40*)	85 (24; 40*)	105 (24; 40*)	125 (24; 40*)	165 (24; 40*)
AC drive [kW]	55/75	90/110	160/200	200	315/345/355

* with degassing

Downstream equipment

Degassing	<input type="radio"/>				
High-vacuum execution	<input type="radio"/>				
Water ring pelletiser	<input checked="" type="radio"/>				
Strand/automatic strand pelletiser	alternative	alternative	alternative	alternative	alternative
Underwater pelletiser	alternative	alternative	alternative	alternative	alternative

● standard ○ option

Starlinger Head Office
Sonnenuhrgasse 4
1060 Vienna, Austria
T: + 43 1 59955-0, F: -180

Starlinger Factory 2
Furtherstrasse 47
2564 Weissenbach, Austria
T: + 43 2674-800, F: -87582

recycling.starlinger.com
E: recycling@starlinger.com

Starlinger & Co. Gesellschaft m.b.H.
A member of Starlinger Group

All data depending on design!

recoSTAR® is a registered trademark of Starlinger & Co. Gesellschaft m.b.H.