



RECYCLING LINE recoSTAR direct

for production and post-industrial scrap, pre-ground materials with high bulk density, wide range of thermoplastics, space and energy saving, one button start/stop, cost-effective solution, high ROI



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State-of-the-art recycling technology for the **cost-effective processing** of pre-ground materials with high bulk density (> 300 g/l): **production and post-industrial scrap** from materials such as PE, PP, PS, PA and PLA.



The direct feeding of the pre-ground materials without any preparation or pre-drying is done by a feeding screw mounted on top of the extrusion line. Additional dosing of master-batches or additives is possible.



The user-friendly touch-screen allows simple operation with password-controlled administration on different user levels, alarm history, recipe management, maintenance control, etc. Screenshots can be downloaded via the USB-port.



A variety of different melt filters for dirt particle removal is available. The optional backflushing reduces costs for filter screens and operator intervention. For higher contamination, a power back-flushing or continuous rotation 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 under-water pelletising can be used.

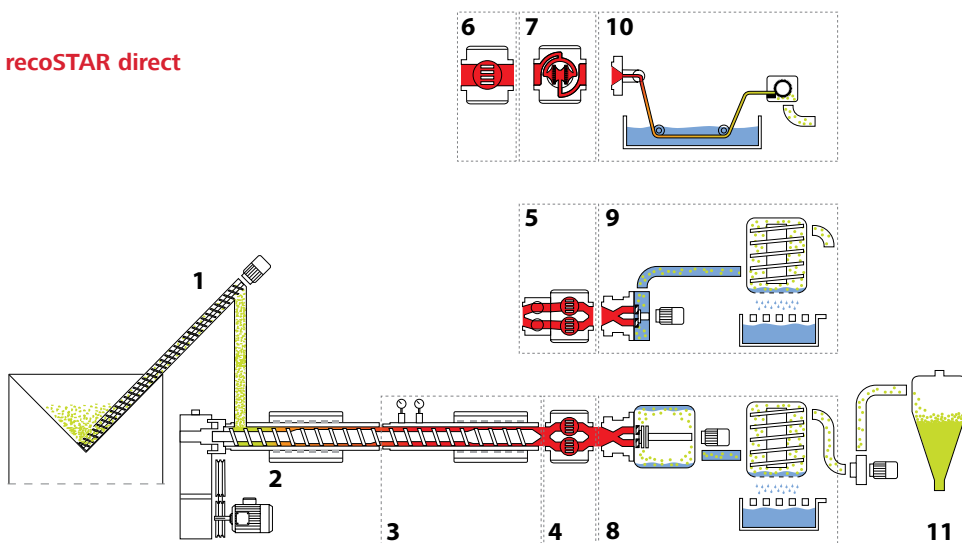


The result: Regranulate with constant high quality. The uniform pellets have flow characteristics like virgin resin and can be re-used up to 100 % in the same application, or up-cycled for other applications.



Machines pictured may include equipment sold as options.

recoSTAR direct

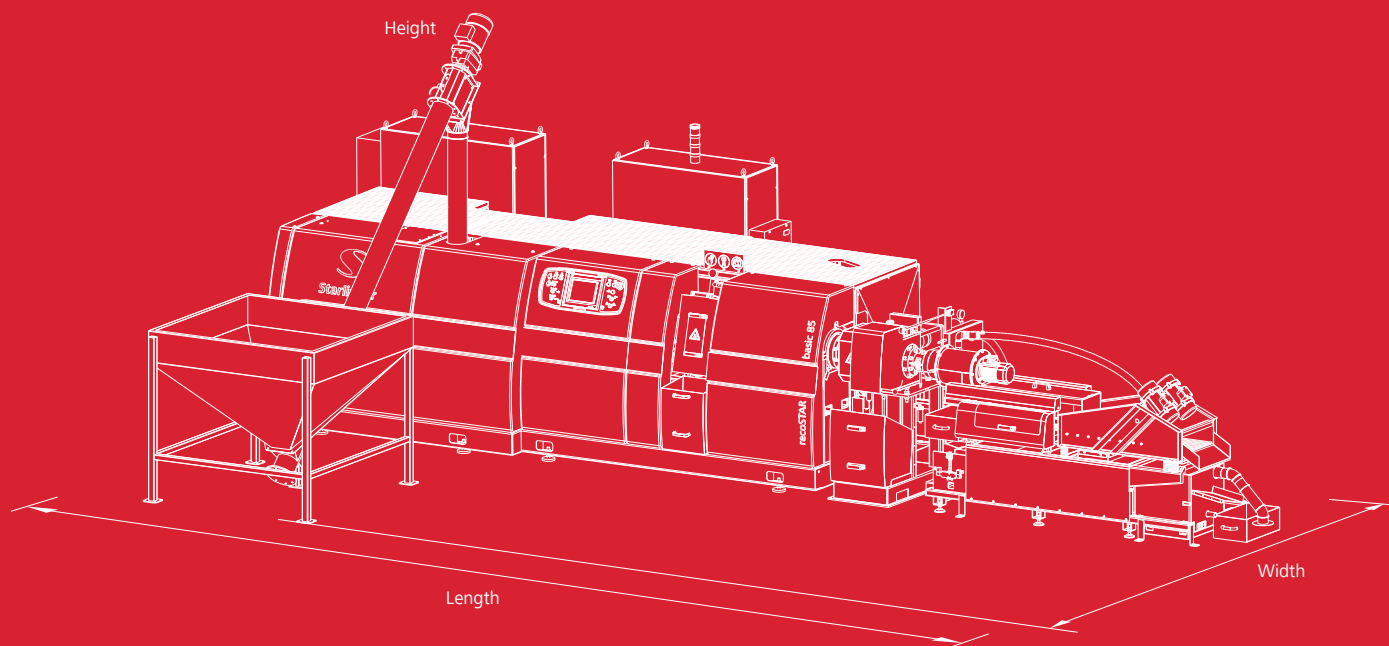


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|-------------------------------------|--|--|
| 1. Hopper with feeding screw | 5. Melt filter with backflushing | 9. Underwater pelletiser with centrifuge |
| 2. Extruder | 6. Discontinuous melt filter | 10. (Automatic) Strand pelletiser |
| 3. Venting extruder | 7. Power backflushing filter | 11. Storage silo |
| 4. Melt filter without backflushing | 8. Water ring pelletiser with centrifuge | |

Advantages

- Dusty regrind transformed into dust-free regranulate
- Economic investment
- Low energy consumption/kg
- Easy-to-work-with recycling solution
- Operator and maintenance friendly
- For a wide range of thermoplastics
- Advantageous processing costs





Dimensions in mm

	recoSTAR direct				
Type	65	85	105	125	165
Height	4240	4240	4240	4240	4500
Width	5800	5800	5800	8900	10300
Length (without degassing)	7850	9150	10100	11400	15100

Technical data

	recoSTAR direct				
Type	65	85	105	125	165
Output [kg/h]*	130 – 180	250 – 350	400 – 600	650 – 800	1000 – 1200
Energy consumption [kWh/kg]	0.20 – 0.35	0.20 – 0.35	0.20 – 0.35	0.20 – 0.35	0.20 – 0.35

* without degassing

Extruder

Screw diameter (L/D) [mm]	65 (24; 40*)	85 (24; 40*)	105 (24; 40*)	125 (24; 40*)	165 (24; 40*)
AC drive [kW]	45/55	75/90	110/132	160/200	250/315

* with degassing

Downstream equipment

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

● standard ○ option

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