RECYCLING LINE recoSTAR direct

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

Starlinger

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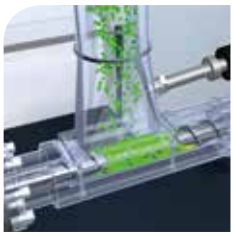
State-of-the-art recycling technology for the **cost-effective processing** of regrind with high bulk density (> 300 g/l): **production and post-industrial scrap** from materials such as PE, PP, PS, PA and PLA.



The direct feeding of regrind with high bulk density 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 down-loaded via the USB-port.

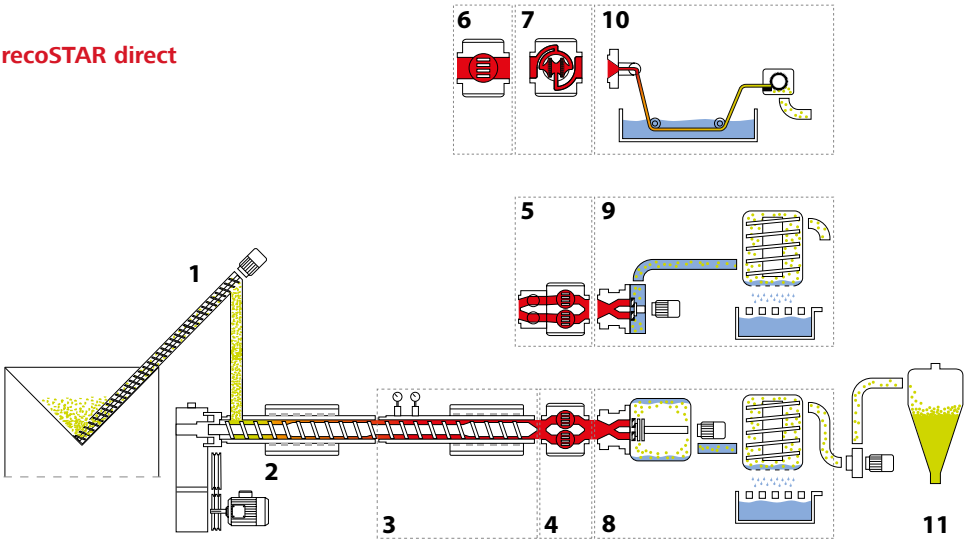
A variety of different melt filters for dirt particle remo-val is available. The optional backflushing reduces costs for filter screens and operator intervention. For higher con-tamination, a power back-flushing or continuous rota-tion filter is recommended.

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 consistently high quality. The uniform pellets have flow characteristics like virgin resin and can be re-used up to 100 % in the same applicati-on, or up-cycled for other purposes.

Machines pictured may include equipment sold as options.

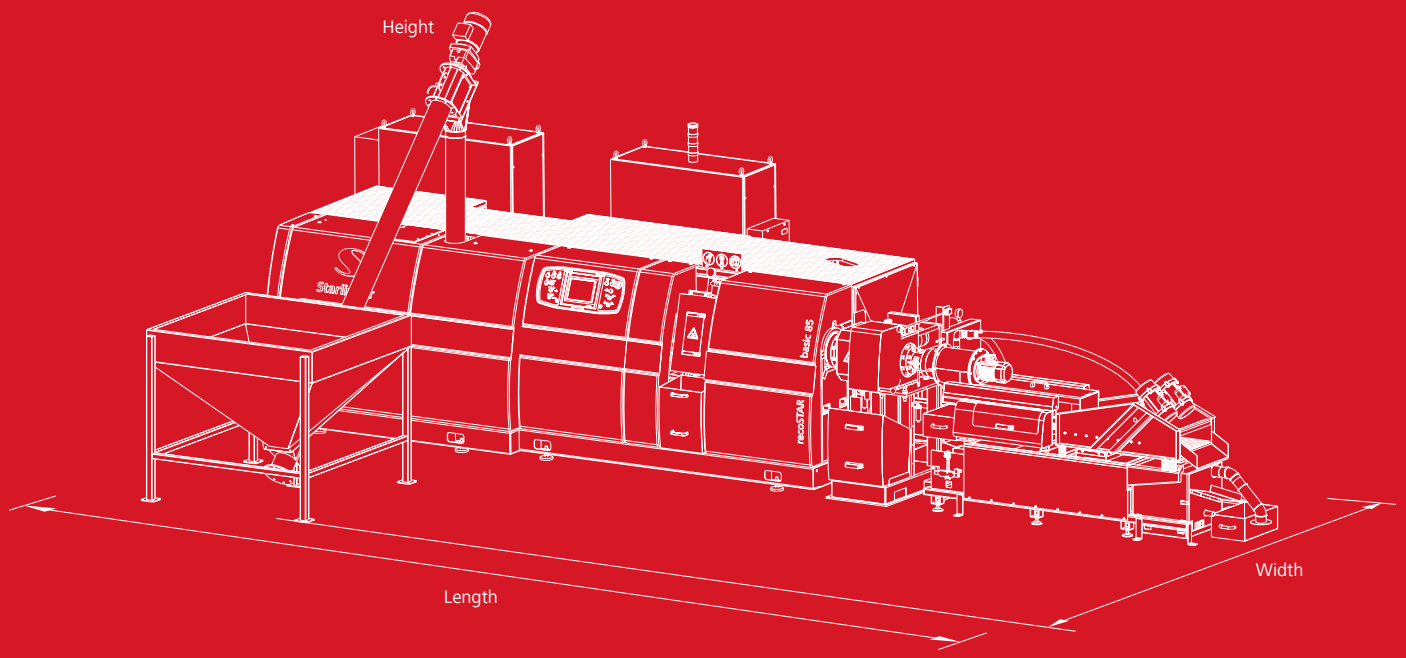
recoSTAR direct



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

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



We reserve the right to technical modifications. DPR-24871-085

Dimensions in mm						recoSTAR direct
Type	**65**	**85**	**105**	**125**	**145**	**165**
Height	4240	4240	4240	4240	4500	4500
Width	5800	5800	5800	8900	10300	10300
Length (without degassing)	7850	9150	10100	11400	15100	15100

Technical data						recoSTAR direct
Type	**65**	**85**	**105**	**125**	**145**	**165**
Output [kg/h]*	130 – 180	250 – 350	400 – 600	650 – 800	800 – 1000	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	0.20 – 0.35
* without degassing						
Extruder						
Screw diameter (L/D) [mm]	65 (24; 40*)	85 (24; 40*)	105 (24; 40*)	125 (24; 40*)	145 (24;40*)	165 (24; 40*)
AC drive [kW]	45/55	75/90	110/132	160/200	200/250	250/315
* with degassing						
Downstream equipment						
Degassing	❍	❍	❍	❍	❍	❍
High-vacuum execution	❍	❍	❍	❍	❍	❍
Water ring pelletiser	●	●	●	●	●	●
Strand/automatic strand pelletiser	alternative	alternative	alternative	alternative	alternative	alternative
Underwater pelletiser	alternative	alternative	alternative	alternative	alternative	alternative

● standard ❍ option

Starlinger recycling technology
Furtherstrasse 47a
2564 Weissenbach, Austria
T: + 43 2674 808 3101
F: + 43 2674 86328
E: recycling@starlinger.com
recycling.starlinger.com

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

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