

Recycling Made Simple



Film. Raffia. Regrind.

Simple Operation.

Easy Maintenance.

POLYSTAR

Post-industrial

In-house recycling at its best

- 100% pellets reusability right back into your production line
- Minimal material degradation without property change
- Reduces production cost by reprocessing your own industrial waste

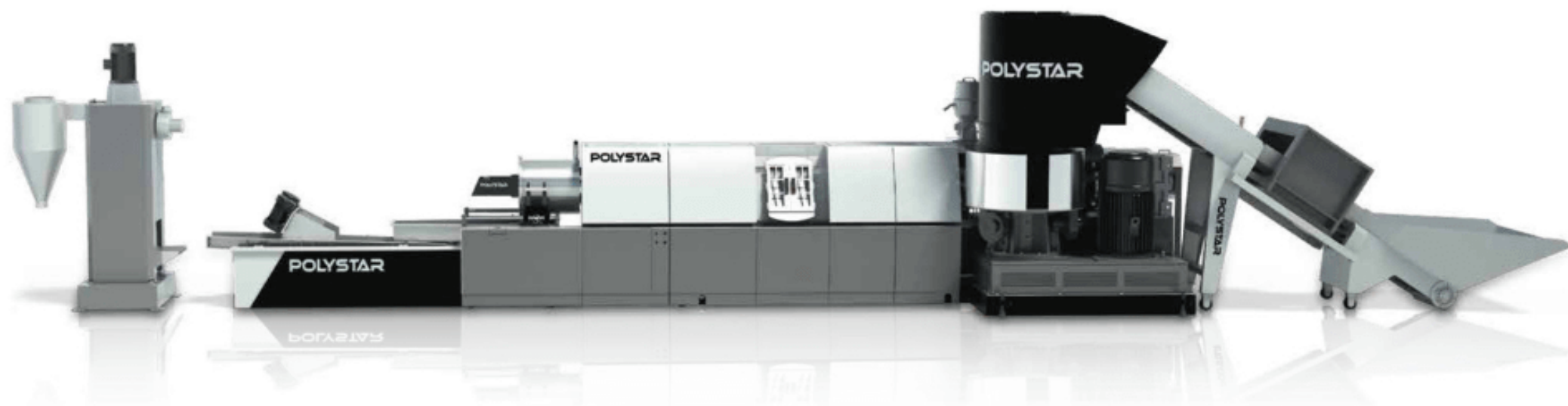


Application

Post-industrial waste

"Recycling has allowed us to save about 30 percent in raw material buying"

----- Andrey Habibulin, Europolimer



Blown and cast film producers

HDPE, LDPE, PP shrink, stretch film, BOPP, CPP, OPP Leftover waste of edge trim from blown film in the format of scraps (T-shirt bags cut-offs from bag making processes), complete film rolls and sheet can be efficiently recycled in a simple process. The high quality, uniform sized recycled pellets are almost like virgin material which can be put directly back into the film production line.

Raffia & woven

In-house waste generated from the production of PP woven bags, non-woven, jumbo bags, PP raffia, PP woven sacks and tapes. The recycled PP pellets can be reused (100%) for production, in most cases in circular weaving looms and tapelines.

Rigid Re grind

Pre-crushed, heavy rigid regrind scraps such as bottles, pipes, containers and lumps in the form of granules. Applicable materials are mainly HDPE, LDPE, PP, PA, PC, PU, ABS and others.

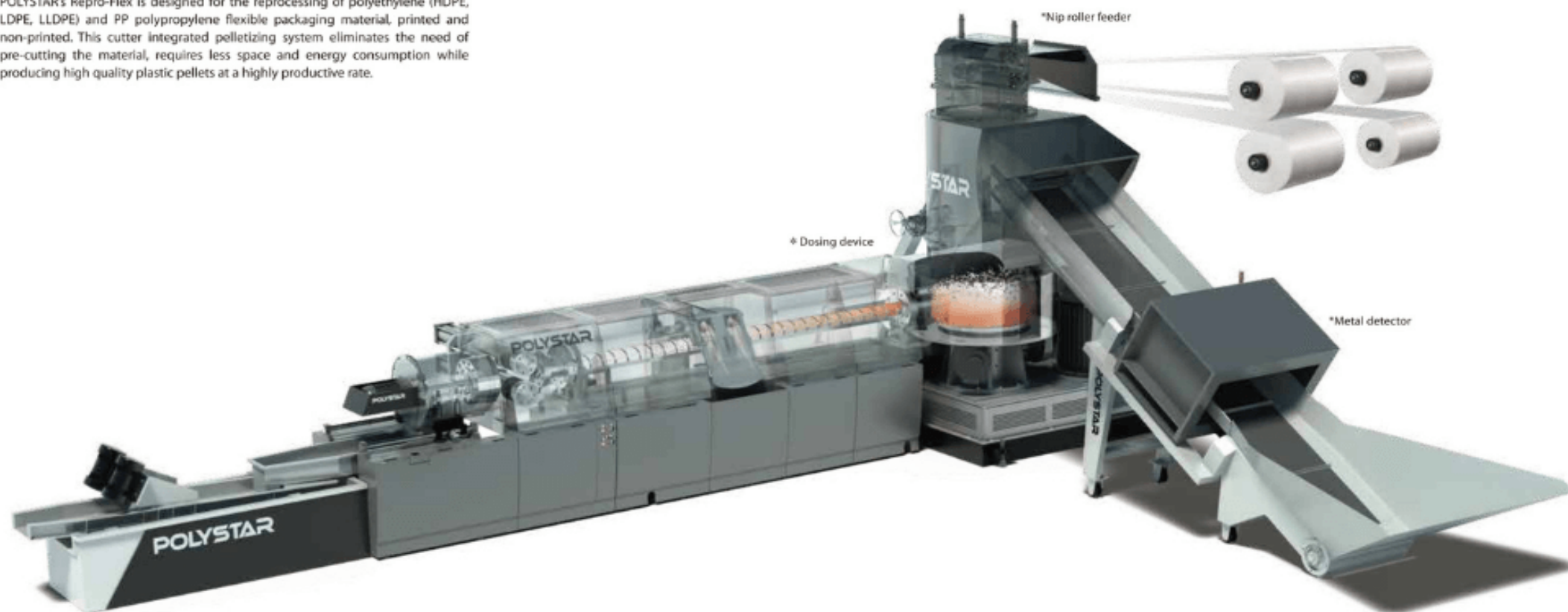


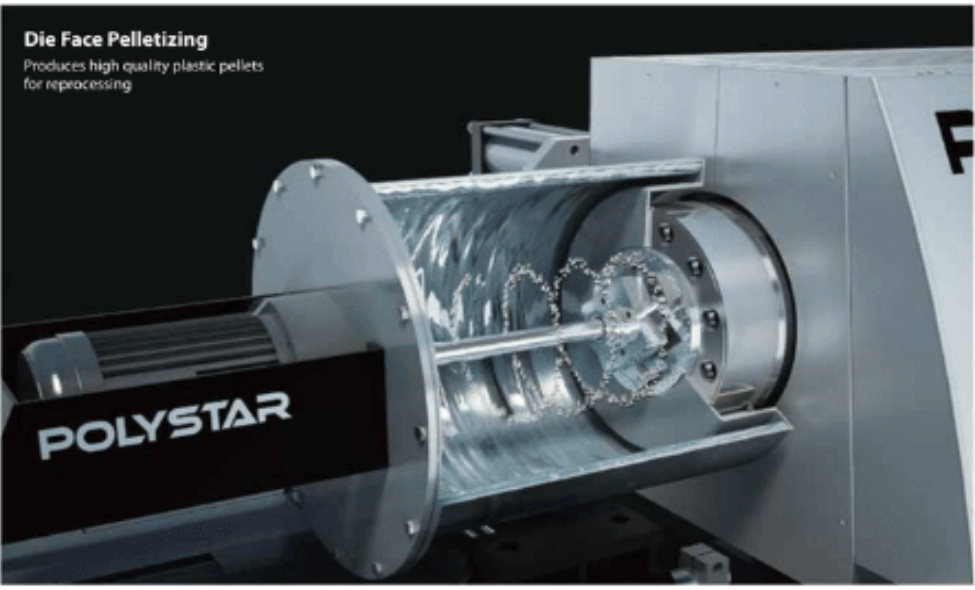
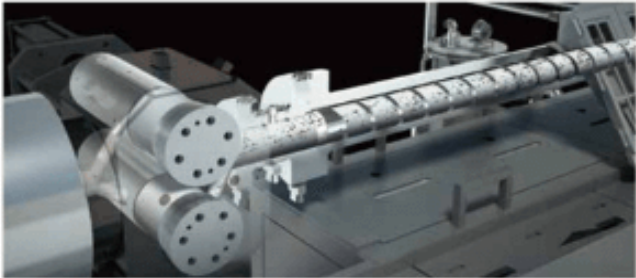
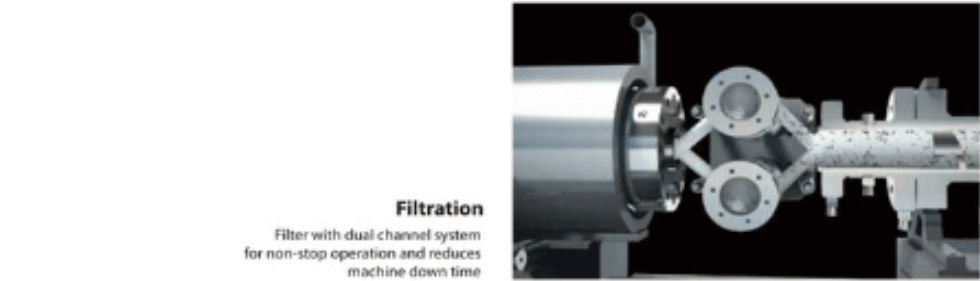
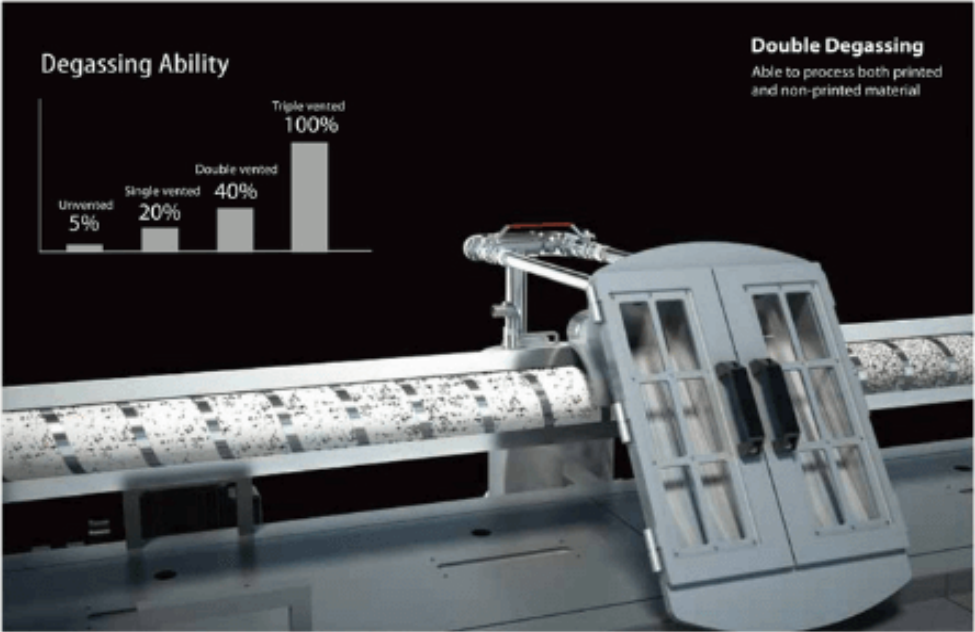
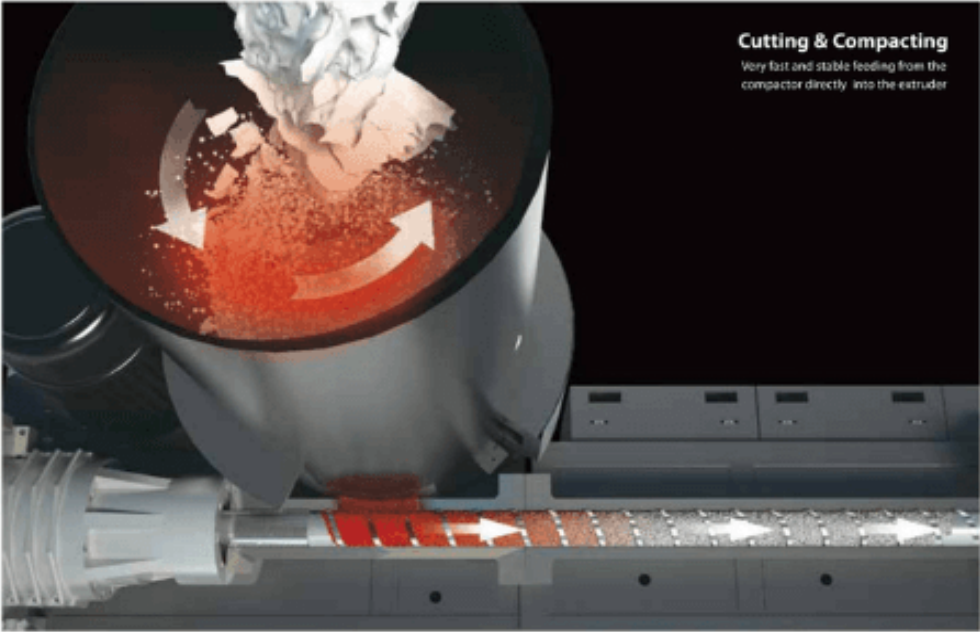
Flexible in operation

Simple in design

- One-step direct technology with cutting + extrusion + pelletizing
- Very easy to install, operate and perform maintenance
- Fast change between different types of material

POLYSTAR's Repro-Flex is designed for the reprocessing of polyethylene (HDPE, LDPE, LLDPE) and PP polypropylene flexible packaging material, printed and non-printed. This cutter integrated pelletizing system eliminates the need of pre-cutting the material, requires less space and energy consumption while producing high quality plastic pellets at a highly productive rate.





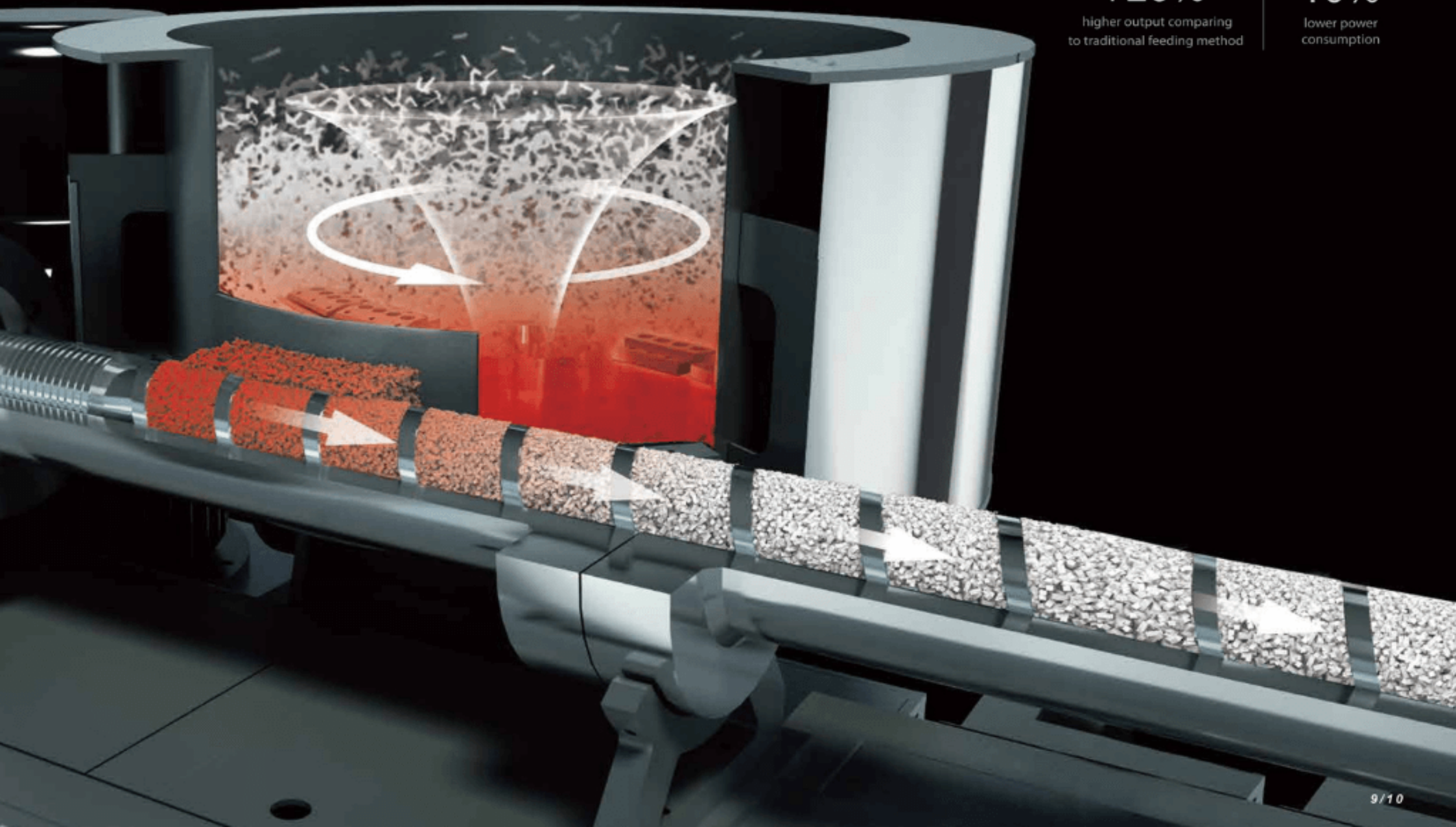
Fast · Stable · Direct

+20%

higher output comparing
to traditional feeding method

-10%

lower power
consumption



Model Comparison



Model	*Output(kg/hr)	Power consumption	Dimension		
			A (Length)	B (Height)	C (Width)
Repro-Flex65	80-120	40 kw	5400	2900	10200
Repro-Flex85	150-250	55 kw	6100	3100	11000
Repro-Flex100	250-400	132 kw	6400	3200	13100
Repro-Flex120	400-600	160 kw	7500	3500	15900
Repro-Flex150	600-800	250 kw	8400	3600	17000
Repro-Flex165	850-1000	320 kw	8800	3600	17500
Repro-Flex180	1000-1200	385 kw	9500	3700	18500

* Output based on clean, dry LDPE film processing, without degassing



100%

Customization

- Different degassing and filter options
- Minimal space requirement
- Personalized design to meet your requirement and factory layout



Triple degassing

In addition to the double degassing in the first extruder, the venting area (the connection between the first and second extruder) serves as a third degassing section to further remove the ink and extra humidity level from the material.

Dosing device

Color masterbatches and CaCO₃ compounds (in pellet form) can be added during the recycling process.

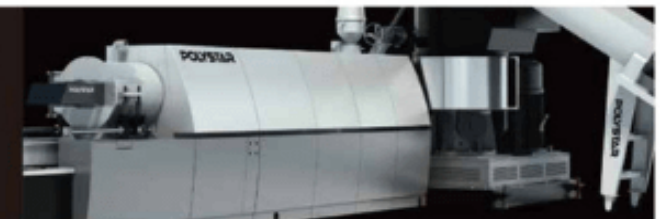


Filter re-positioning

The re-positioning of filtration before degassing ensures a superior degassing effect, producing excellent quality pellets from heavily printed material.

Unvented

The unvented extruder has a very short screw L/D ratio, in which the material travels in the extruder for the shortest time and distance. This results in minimal change in material property and higher output comparing to vented extruder.



In 105 countries

Worldwide presence

POLYSTAR has been working closely with plastic producers around the world in Asia, Africa, Europe, Middle East & America.

Through continuous customer feedback and 27 years of experience, POLYSTAR has become one of the global leaders in the field through 3 generations of technological evolution.

The focus on user-friendliness of its machines through re-engineering, making recycling extremely "Simple" for its users – Easy operation and maintenance is the core competence of POLYSTAR recycling machines.



The #1 selling recycling machine

From your world-class producer

"We wanted something that is simple to use and gets the job done. And we found exactly what we were looking for."

----- Harshad, Hamilton Plastics, USA

"What POLYSTAR provides is world-class machine and service!"

----- Thepassak, Bags and Gloves, Thailand

"Since K show 2013, POLYSTAR has already installed more than 50 cutter-compactor recycling machines in Russia. With proven success and satisfied customers, Polystar has established itself as a premium brand recycling line that offers reliable and high performing equipment in the market."

----- POLYSTAR's representative in Russia, Nikolay Muschkov



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