

智慧回收
聰明選擇

YOUR

SMART

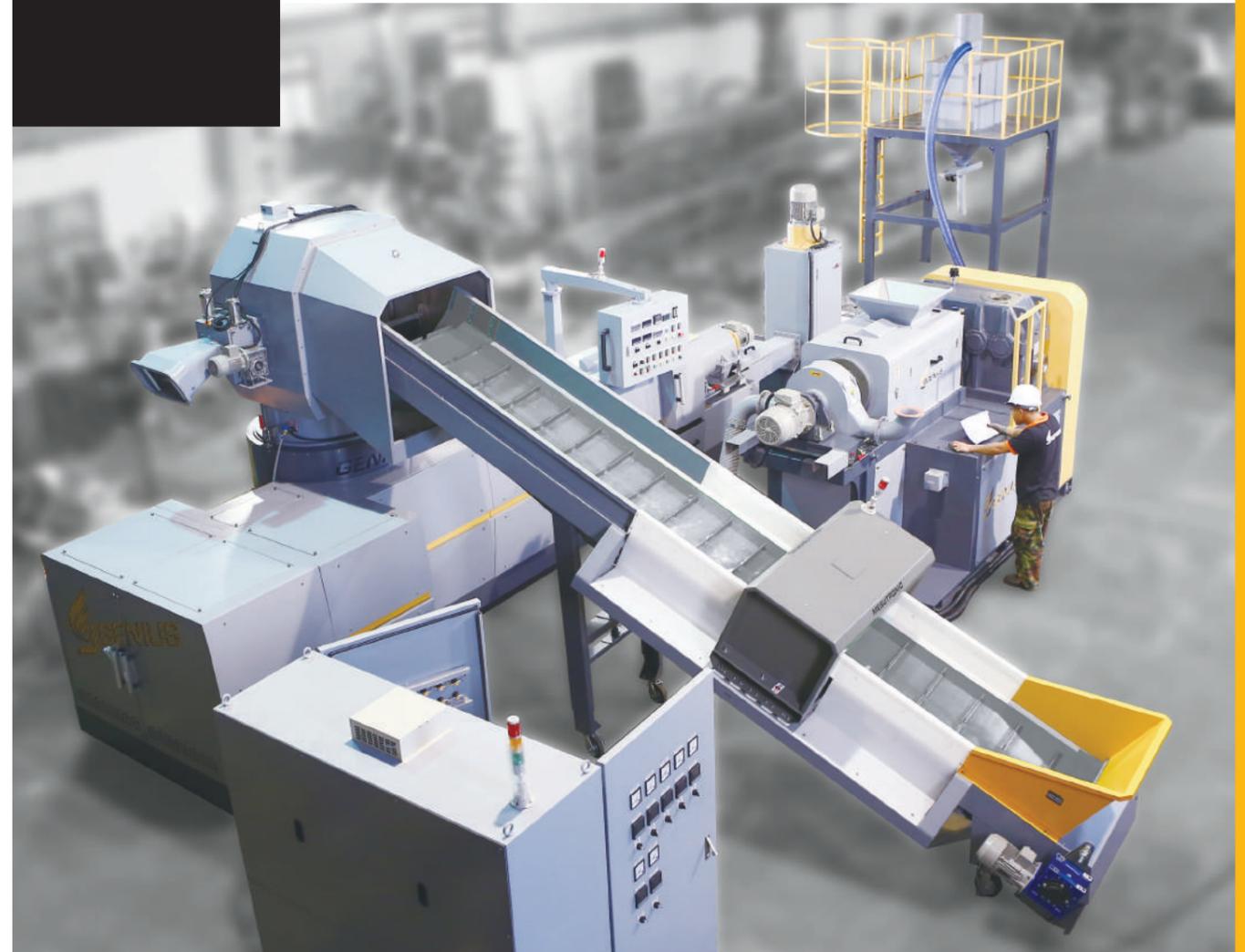
RECYCLING SPECIALISTS

Smart Recycling, the Genius Way

www.geniusplas.com



uCloud



長毅機械工業有限公司 GENIUS MACHINERY CO., LTD.

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Genius, Your Smart Recycling Specialists



Genius Machinery Co., Ltd. specializes in the comprehensive plant planning of plastic recycling equipment. With over 40 years of experience in designing and manufacturing plastic recycling equipments. Since its establishment, Genius Machinery Co., Ltd. has provided industries with plastic washing lines,

plastic recycling machines, pelletizers, plastic squeeze dryers, crushers, shredders, and other complete series of manufacture line for one-stop services. The Genius brand is sold all over the world, and is an expert in plastic recycling equipment.

Innovative Technology



Our company pursues growth, excellence and environmental protection. Our professional R&D team has paid unmatched attention to product quality and durability. Genius always meets the demands of customers with the latest design technology. Experienced staff and state of the art processing technology are our strength which tells the difference between us and others. At Genius, we master welding and drilling skills which are essential parts of production.

Machining Technology



GENIUS rigorously trains all its employees from time to time to keep them updated of new processes, techniques, and technologies to ensure that they follow the standard operating procedures in manufacturing and assembling machineries. Each engineer has an extensive experience, the needed skills, and technology that are essential in providing customers the highest quality products .



SMART RECYCLING, THE GENIUS WAY



Professional

We pursue superior performance in the art of recycling, by rich, comprehensive plastic recycling plant planning to provide the best, more professional, humanized recycling solutions.

Breaking Through

We maintain an innovative attitude of surpassing ourselves, which is the key to our flexibility, so that we can use superior technology to help our clients increase their competitive edge.



Peace of Mind

We uphold / deliver absolute quality and thoughtful services to provide customized recycling systems according to the clients' needs presenting a smart and reliable brand.



WE BELIEVE, OUR CLIENTS' SUCCESS IS THE REAL SUCCESS

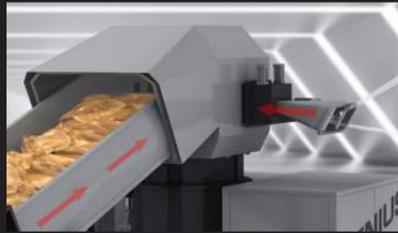
OUR MISSION

Using our heart to break through recycling technology, using intelligence to mold the recycling system beyond your imagination.

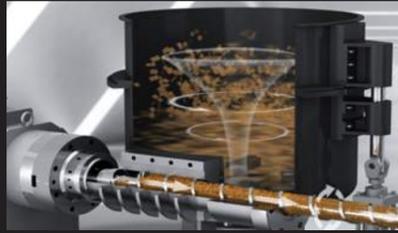
WE PROMISE

To not forget our initial original mission of using smart breakthrough technology, humanized solutions to provide the smartest recycling systems.

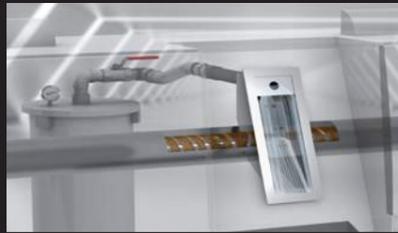
FEEDING



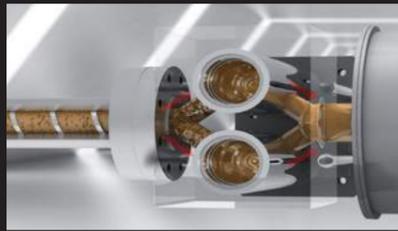
COMPACTING



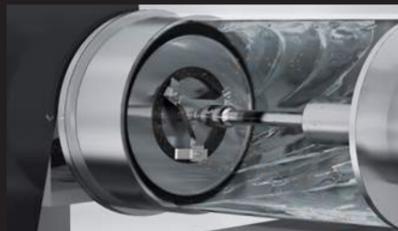
DEGASSING



FILTRATING



PELLETIZING



VIBRATING



CUTTER COMPACTOR PLASTIC RECYCLING MACHINE

APPLICABLE MATERIALS

PP, OPP, BOPP, HDPE, LDPE, LLDPE, and more. Especially for plastic films, foam, woven, raffia, wash and squeezed films, flakes, edge-trimmed and cutting-edge materials.

SUPERIOR FEATURES

Easy Cleaning and Blade Replacing.

With the cleaning door, the operator can clean the compactor and replace the rotator blades

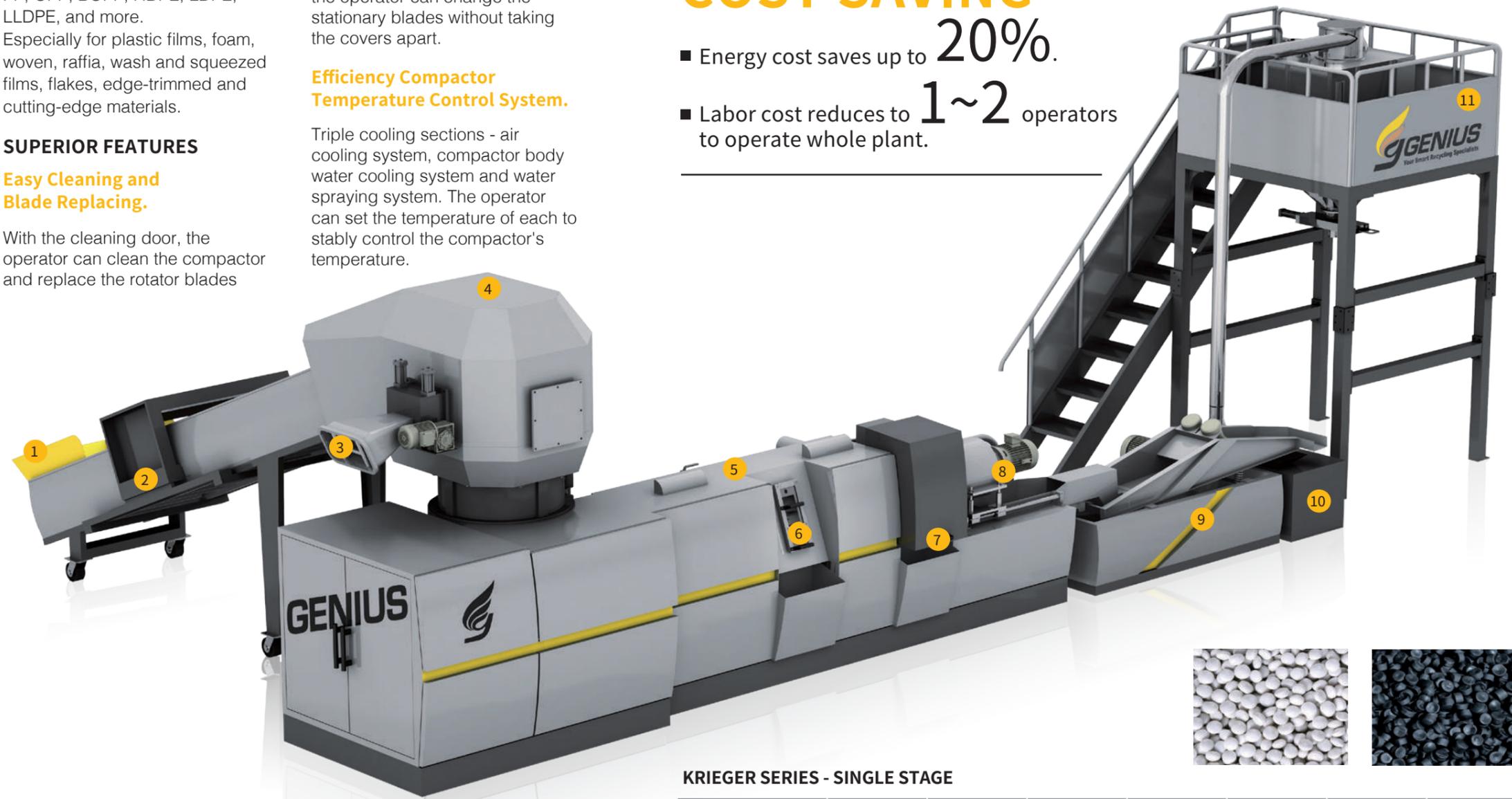
without dismantling the entrance covers. There are two windows, the operator can change the stationary blades without taking the covers apart.

Efficiency Compactor Temperature Control System.

Triple cooling sections - air cooling system, compactor body water cooling system and water spraying system. The operator can set the temperature of each to stably control the compactor's temperature.

COST SAVING

- Energy cost saves up to **20%**.
- Labor cost reduces to **1~2** operators to operate whole plant.



- 1 Belt Conveyor
- 2 Metal Detector
- 3 Nip Roller
- 4 Cutter Compactor
- 5 Main Extruder
- 6 Degassing Section
- 7 Filtration System
- 8 Pelletizing System
- 9 Vibrating System
- 10 Dewatering System
- 11 Storage

KRIEGER SERIES - SINGLE STAGE

Model	KR-65	KR-85	KR-100	KR-125	KR-135	KR-150	KR-175
Screw	Φ65mm	Φ85mm	Φ100mm	Φ125mm	Φ135mm	Φ150mm	Φ175mm
Main Drive	40HP (30KW)	75HP (56KW)	125HP (94KW)	175HP (131KW)	200HP (150KW)	250HP (188KW)	350HP (262KW)
Compactor Drive	30HP (23KW)	60HP (45KW)	75HP (56KW)	100HP (75KW)	125HP (94KW)	150HP (112KW)	175HP (131KW)
Output (kg/hr)	80~100 ↑	200~300 ↑	300~400 ↑	450~600 ↑	650~850 ↑	700~800 ↑	900~1100 ↑

Two Stage Cutter Compactor Plastic Recycling Machine

APPLICABLE MATERIALS

PP, OPP, BOPP, HDPE, LDPE, LLDPE, and more.
Especially for plastic films, foam, woven, raffia, wash and squeezed films, flakes, materials with water content and post-consumer waste materials.

SUPERIOR FEATURES

Unrivaled Degassing

Up to triple optional degassing zones equipped with vacuum pump.

No More Pollution

Exclusive development of the two-stage extruder. A completely enclosed flow design, which prevents the molten polymer from releasing smoke.

High Performance Filtration

Optional Dual-Piston Filter Changer and Self-Cleaning Filter.



- 1 Triple Degassing
- 2 Slide Type Filter
- 3 Centrifugal Dryer

KRIEGER SERIES - TWO STAGE

Model		KR-100i	KR-125i	KR-135i	KR-150i	KR-175i
Main Extruder	Screw	Φ100mm	Φ125mm	Φ135mm	Φ150mm	Φ 75mm
	Drive	125HP (94KW)	175HP (131KW)	200HP (150KW)	250HP (188KW)	300HP (225KW)
Sub Extruder	Screw	Φ125mm	Φ155mm	Φ155mm	Φ165mm	Φ200mm
	Drive	40HP (30KW)	75HP (56KW)	100HP (75KW)	100HP (75KW)	150HP (113KW)
Compactor Drive		75HP (56KW)	100HP (75KW)	125HP (94KW)	150HP (113KW)	175HP (131KW)
Output (kg/hr)		300~400 ↑	450~600 ↑	650~850 ↑	700~800 ↑	900~1100 ↑

FLAKE MATERIALS



FLUFFY MATERIALS



FINAL PRODUCTS



Force Side Feeding Plastic Recycling Machine

The Genius Recycling Solution

APPLICABLE MATERIALS

PP, OPP, BOPP, HDPE, LDPE, LLDPE, and more. Suitable for all kinds of plastic wastes, including foam, woven, raffia, wash and squeezed films, flakes, materials with water content or post-consumer waste materials.

SUPERIOR FEATURES

Higher Energy Saving

Exclusive design, saves up to 30% of energy.

Higher Labor Saving

The feeding control system monitors the ampere and controls the feeding speed automatically. Only 2 operators are required for an entire plant.

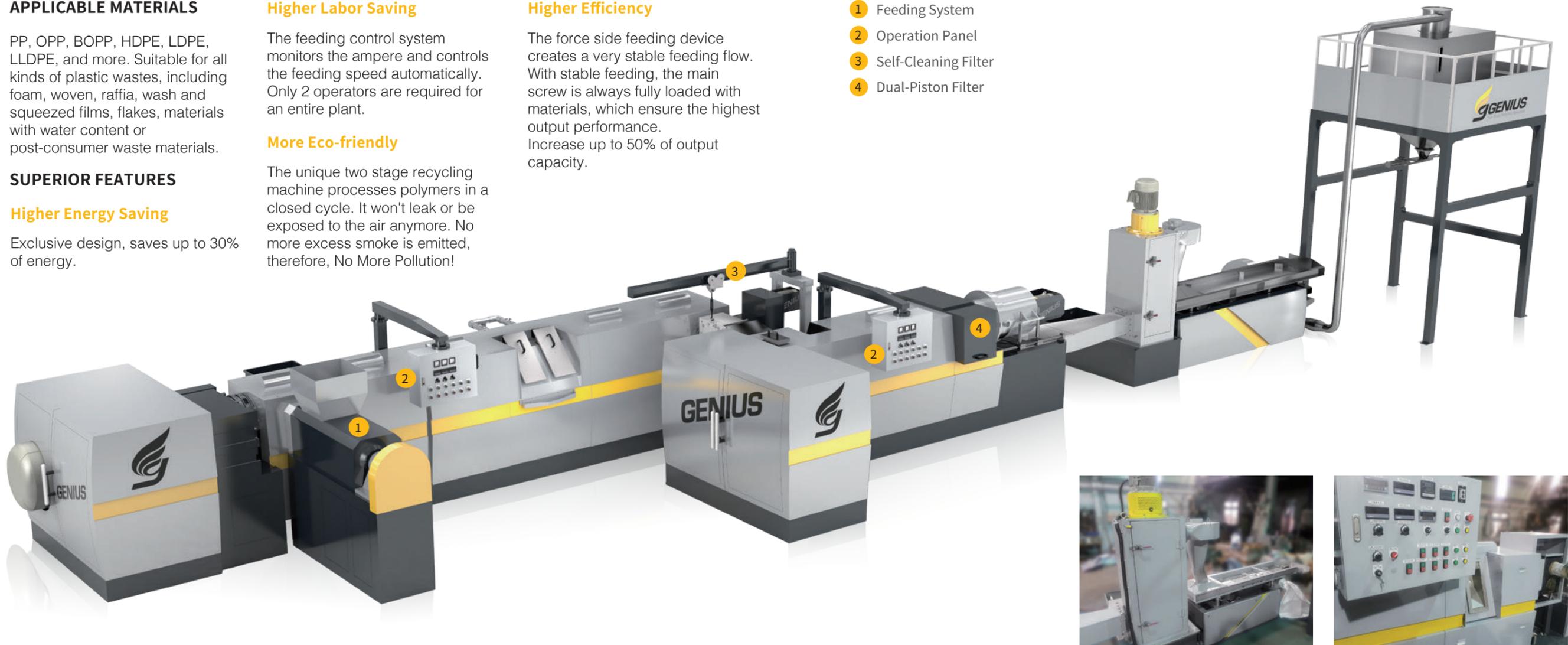
More Eco-friendly

The unique two stage recycling machine processes polymers in a closed cycle. It won't leak or be exposed to the air anymore. No more excess smoke is emitted, therefore, No More Pollution!

Higher Efficiency

The force side feeding device creates a very stable feeding flow. With stable feeding, the main screw is always fully loaded with materials, which ensure the highest output performance. Increase up to 50% of output capacity.

- 1 Feeding System
- 2 Operation Panel
- 3 Self-Cleaning Filter
- 4 Dual-Piston Filter



RECO SERIES - SINGLE STAGE

Model	RECO-85	RECO-100	RECO-125	RECO-135	RECO-150	RECO-175
Screw	Φ85mm	Φ100mm	Φ125mm	Φ135mm	Φ150mm	Φ175mm
Main Drive	75HP (56KW)	125HP (94KW)	175HP (131KW)	200HP (150KW)	200HP (150KW)	300HP (262KW)
Output (kg/hr)	200~300 ↑	300~400 ↑	450~600 ↑	650~850 ↑	700~800 ↑	900~1100 ↑

RECOi SERIES - TWO STAGE

Model	RECO-100i	RECO-125i	RECO-135i	RECO-150i	RECO175i	
Main Extruder	Screw	Φ100mm	Φ125mm	Φ135mm	Φ150mm	Φ 75mm
	Drive	125HP (94KW)	175HP (131KW)	200HP (150KW)	250HP (188KW)	300HP (225KW)
Sub Extruder	Screw	Φ125mm	Φ155mm	Φ155mm	Φ165mm	Φ200mm
	Drive	40HP (30KW)	75HP (56KW)	100HP (75KW)	100HP (75KW)	150HP (113KW)
Output (kg/hr)	300~400 ↑	450~600 ↑	650~850 ↑	700~800 ↑	900~1100 ↑	

Pelletizing Systems

Hot Die Face Pelletizing System

Applicable Materials

PE, PP, PS, and more.

Cost Reduction

The molten polymer from the extruder is passed to the die head. A rotating blade cuts the hot material as it exits the die hole and falls into a water ring for cooling. The operator does not need to draw the strands, which reduces the lump waste during re-drawing.

More Uniformity, More Profit

The pelletizing is a universal joint design. The cutter adjusts the blade automatically during operation. Final plastic pellets are in uniform size in order to be sold at a higher price and bring you more profit.



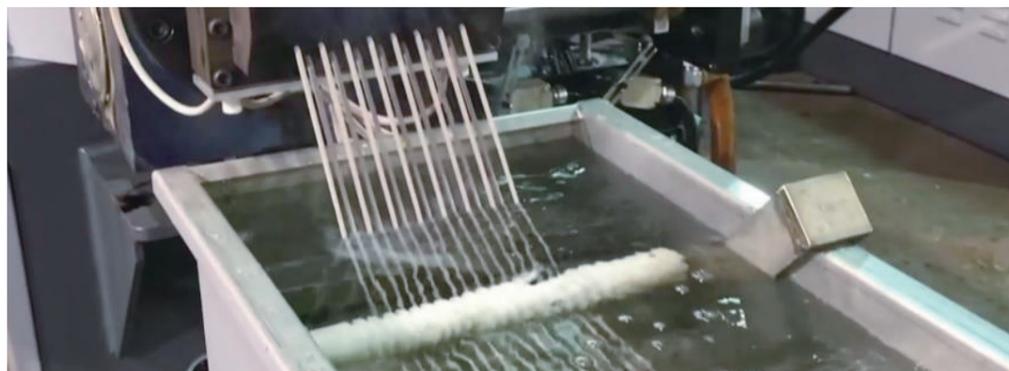
Strand Pelletizing System

Applicable Materials

PC, PA, ABS, and more.

Minimize The Powder Waste

Suitable for higher MI or sticky materials. Production line equipped with high-precision pellets cutter and special designed vibrating screener.



Filtration Systems

Plate Filter

Cost Reduction

The mesh can be re-used after cleaning up.

Automatic Screen Monitor System

The automatic pressure monitor system is capable of non-stop operation with the pressure sensor from "GFRAN Italy". The main purpose of the pressure sensor is to send data to the indicator. Pressure is crucial for a providing consistently uniform flow through the die and automatically warning the operator of the need to change the screens by the warning light and buzz sound.



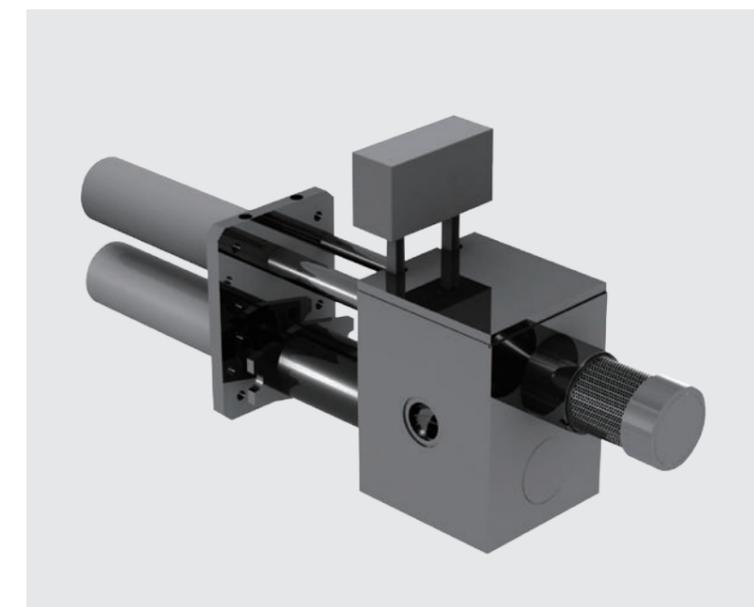
Dual-piston Filter

Bigger The Filtration Zone, Longer The Service Life

Compared with slide type product, the dual-piston filter have a larger filtration zone. This both reduces the change frequency and the labor cost.

Non-Stop Dual-Piston Filter

The dual-piston screen changer is made in a continuous style with two filter flows. There is at least one filter working when the screen is changing. The piston moves slowly when the is changed. This allows the polymer melt to be filled in the filter area gradually to ensure low fluctuation of the extrusion pressure.



Blenders

Self-Cleaning Filter

Scraps Blender

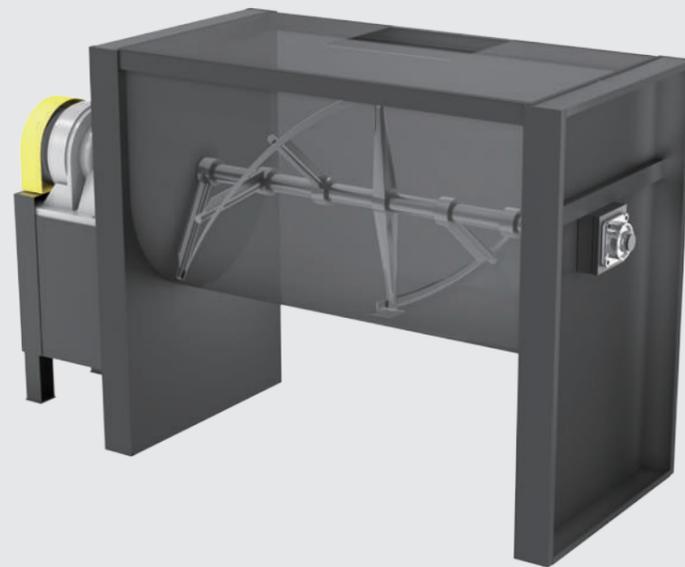
Pre-mix and Temporary Storage Before Pelletizing

Anti-bridge Design

The twin directional shaft prevents the material from getting stuck in the blender and pushing it to the middle output valve.

Moisture Removal

The hot air blower is quipped to pre-heat and remove the moisture while mixing the materials.



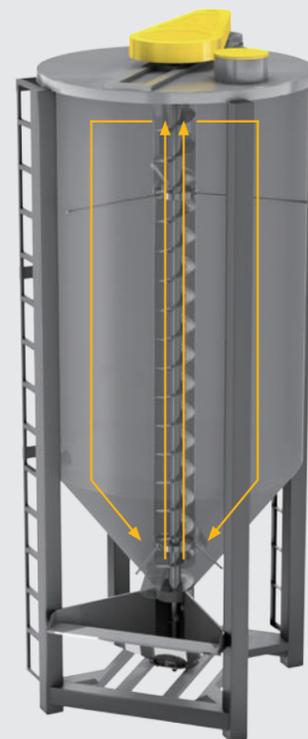
Pellets Blender

Stabilize The Pellet Quality

The screw transports the pellets to the upper opening and releases the pellets back to the mixing zone to form a circulating flow. The pellet's color and chemical properties become more stable after mixed. This minimizes the NPL ratio of the final products.

Flexible Output Systems

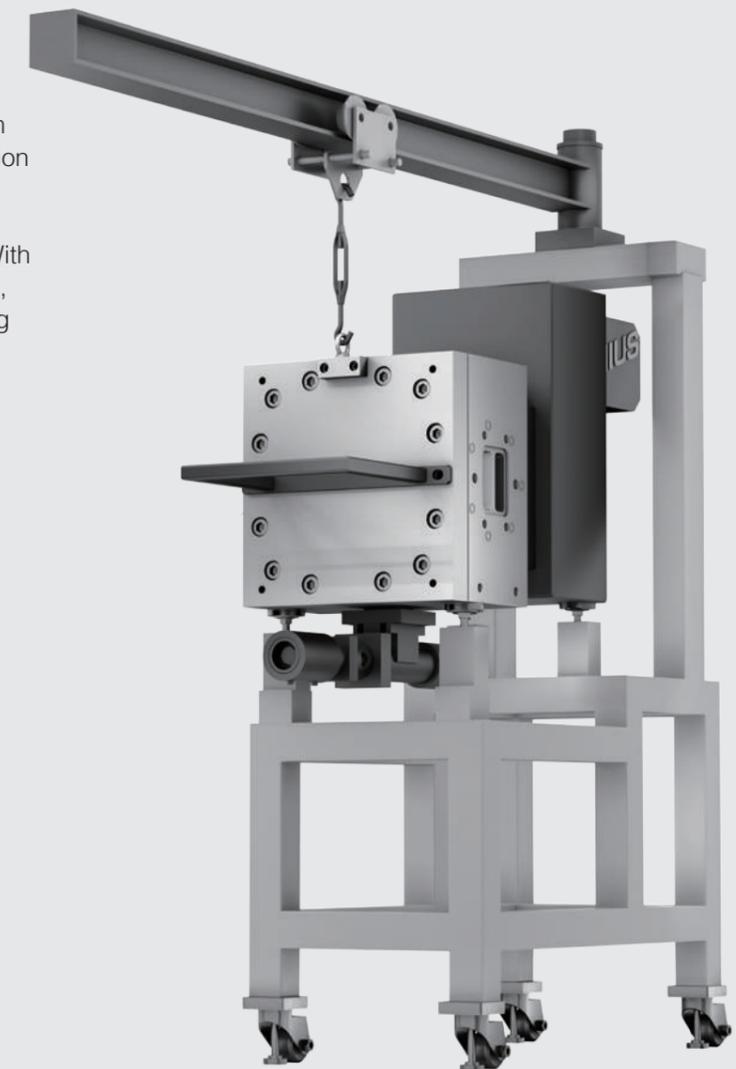
From 25KG bags to 1 ton big bags, the twin-way output system is suitable for both packages.



**Eco-Friendly!
Yield Improving!
Quality Boosting!
Labor Saving!
Cost Saving!**

HOW DOES IT WORK?

The two scraper in the filter remove the residues filtered from the surface of the special precision processed screen. Then, the residues are emitted from the bottom of the hydraulic screw. With the pressure sensor and inverter, this filter can control the scraping speed as well as stabilize and maintain the pressure inside the flow automatically. After this filter, over 80% of residues can be reduced for the polymer.



Applications

**Chemical
Drums**



**Jumbo
Bags**



**Milk
Bottles**



**Plastic
Bags**



**Drip
Pipes**



**PC
Board**



Success Stories

NOW AND IN THE FUTURE, GENIUS' SMART RECYCLING SYSTEM WILL HELP YOU REACH THE PINNACLE OF PLASTIC RECYCLING.

Korea

KRIEGER-Z-125i Cutter
Compactor Plastic
Recycling Machine
Installed in Korea.



Taiwan

RECO-Y-135i
Plastic Recycling
Machine Installed
in Taiwan.



France

RECO-100 Plastic
Recycling Machine in
France.



Philippines

KRIEGER-85 Cutter
Compactor Plastic
Recycling Machine
Installed in the Philippines.



Indonesia

High Performance
KRIEGER Series for
Indonesian Customer.



USA

KRIEGER-85
Cutter Compactor
Recycling Machine
Installed in USA.



Russia

KRIEGER-100 Plastic
Recycling Machine in
Russia.



Saudi Arabia

KRIEGER-65 Cutter
Compactor Plastic
Recycling Machine
Installed in Saudi Arabia.



What is Success? Genius Believe Our Clients' Success is the Real Success.

Constant Pursuit of Dreams

The process that Genius become experts.

Top Performance

The result of Genius meeting our client's needs and requirements.

Break Through The Boundaries

The motivation for Genius to invest heavily in the plastic recycling world.

Intelligent Guidance

How Genius drives the new era of recycling industry chain.

Share The Successes

The evidence of growth that is unique to you and Genius.

Global Sales, Peace of Mind Service

The Genius team, headquartered in Taiwan with agents all over the world, work together to provide the most convenient procurement system and most complete after-sales services. With humanized design, exceptional machine

performance, superior production performance, Genius recycling machinery has been sold to The U.S.A., Germany, Japan, Korea, South Africa, Egypt, Indonesia, Malaysia, The Philippines, Vietnam, Thailand, Russia, Spain,

Brazil, Congo, Saudi Arabia, Algeria as well as other countries and regions, letting the world see the mature, advanced technology from Taiwan, and solidified the brand reputation as one with dependable quality.

