



## **CUTTER COMPACTOR PLASTIC RECYCLING MACHINE**



# KRIEGER SERIES CUTTER COMPACTOR PLASTIC RECYCLING MACHINE

## Versatile processed material

PP, BOPP, HDPE, LDPE, LLDPE, and more.  
Packaging films, PP woven/raffia, washed squeezed PE films, flakes,  
bottle scraps, Post-industrial scraps, edge-trimmed and  
cutting-edge materials.

**A** Feeding

Plastic film nip roller Input:  
film roll, edge-trim film.

Metal detector

**B** Crushing

**D** Pelletizing

**C** Extrusion

**E** Cooling

**F** Dewatering

**G** Storage

## Pelletizing Systems

### Hot Die Face pelletizing



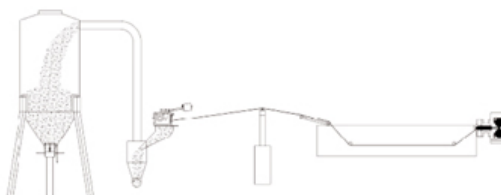
- ▶ Reduces the labor cost of drawing strands
- ▶ Final plastic pellets in uniform size
- ▶ Pelletizing system is a universal joint design. Dust-free.



### Strand pelletizing



- ▶ Mainly designed for high viscosity



## KRIEGER SERIES

| Model            | KR-85   | KR-100  | KR-125  | KR-150   | KR-175   |
|------------------|---------|---------|---------|----------|----------|
| Output (kg/hr)   | 200-300 | 300-400 | 450-600 | 700-800  | 900-1100 |
| Main Drive       | 56.25KW | 93.75KW | 112.5KW | 150KW    | 262.5KW  |
| Cutter compactor | 45KW    | 56.25KW | 75KW    | 131.25KW | 150KW    |
| Screw diameter   | Φ85mm   | Φ100mm  | Φ125mm  | Φ150mm   | Φ175mm   |



# What is CUTTER COMPACTOR PLASTIC RECYCLING MACHINE?

Cutter Compactor Plastic Recycling Machine is also known as 3 in 1 plastic recycling machine in Asia. The reform of traditional plastic recycling machine has a beneficial effect on end users. The biggest difference is that 3 in 1 is an integrated system. Cutter Compactor Plastic Recycling Machine performs three individual functions of cutting, extruding and pelletizing.

## How does cutter compactor plastic recycling machine work?

**Compact design,  
integrated machine  
No precutting, All in One**



Belt conveyor  
& Plastic film nip roller

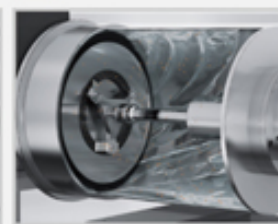
Cutter compactor



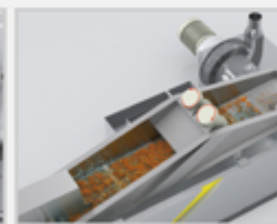
Degassing



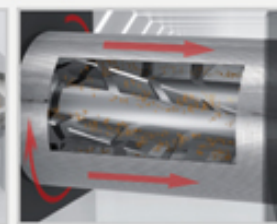
Pelletizing



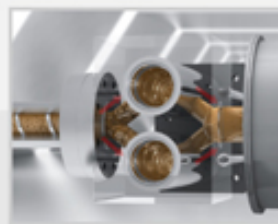
Vibrating Screener



Centrifugal dryer



Filtration



Nonstop operation during  
filter replacement makes

# TWO STAGE CUTTER COMPACTOR PLASTIC RECYCLING MACHINE

## Applicable materials

PP, BOPP, HDPE, LDPE, LLDPE, ABS, HIPS,  
PP raffia , nonwoven bag.

Two stage cutter compactor plastic recycling machine  
is designed specifically for washed material,  
post-consumer waste, plastic films and water  
content materials.



Double degassing with  
vacuum pump

Slide plate screen changer

Final products: plastic pellets



## Recycled materials



## KRIEGERi SERIES (Two Stage)

| Model            |            | KR-100i  | KR-125i  | KR-150i  | KR-175i  |
|------------------|------------|----------|----------|----------|----------|
| Output (kg/hr)   |            | 250~350  | 350~500  | 450~700  | 750~950  |
| Cutter compactor |            | 56.25KW  | 75 KW    | 112.5KW  | 150KW    |
| Main extruder    | Screw dia. | Φ100 mm  | Φ125 mm  | Φ150 mm  | Φ175 mm  |
|                  | Drive      | 93.75 KW | 112.5 KW | 150KW    | 262.5 KW |
| Sub extruder     | Screw dia. | Φ115 mm  | Φ135 mm  | Φ165 mm  | Φ185 mm  |
|                  | Drive      | 37.5 KW  | 45 KW    | 56.25 KW | 75 KW    |



# Application example

## Worldwide machine installation

### Test operation is required!

EVERY machine is under practical operation with customer's specific test material.



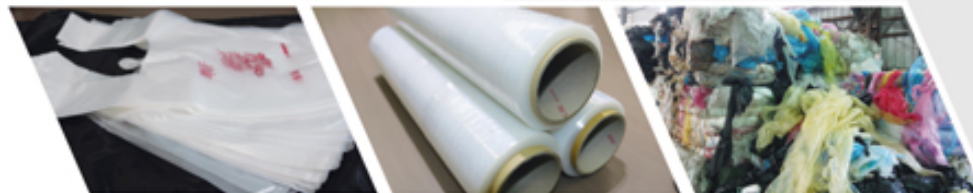
High performance KRIEGER SERIES for cross-national cooperation. Normally, three meshes is basic equipment for a cutter compactor plastic recycling machine. In this case, it has four sieves with fine and large meshes and the largest mesh is #150. The customized filter design greatly removes the impurities from the recycled waste.

Cutter compactor plastic recycling machine sold to CA, USA. The machine sold to US reaches UL & CE standard. The buyer is packaging film products manufacturer. There is a need to recycle all scrap films and edge-trimmed materials from production and packaging in respond to global market trend, public awareness of environmental concerns and also saving the cost of raw materials prominently.



### Plastic film recycling / Agricultural Waste Film Recycling

Agricultural film consists mainly of PE. Agricultural films are banana film, plastic mulch, and greenhouse film. The recycled pellets can be used to produce agricultural film, chemical fertilizer bag, garbage bag, recycled pipes, plastic barrel and pot for agricultural purpose.



### More output, less power consumption



Save energy up to 20% Use  
German speed reducer motors



Optimal plastic pellets  
Perfect unity of plastic pellets



Highly  
efficient production



Stable processing



Customer satisfaction

# Product Advantages

## Top Quality

Genius is a prestigious plastic recycling machinery manufacturer in Taiwan. Our customers have been enjoying a variety of advantages in particular in terms of the dedicated screw designed by our R&D team including good mixing, good dispersion, high productivity, and so on.



**Perform three individual functions of cutting, extruding and pelletizing.**

## Energy Saving:

**We use speed reducer motors from Germany. Statistics show that energy can be saved by 20%.**



## Space Saving:

**Cutter Compactor plastic recycling machine integrates shredding, extruding and pelletizing into one machine. Besides, the hot die-face pelletizing reduces the labor cost of drawing strands. Without water cooling bath, Cutter Compactor plastic recycling machine takes less space.**



## Efficiency Improvement:

**Dual pistons hydraulic screen changers keep the machine operating nonstop even when replacing the filter screen. It greatly increases overall throughput and minimizes the chance of waste.**



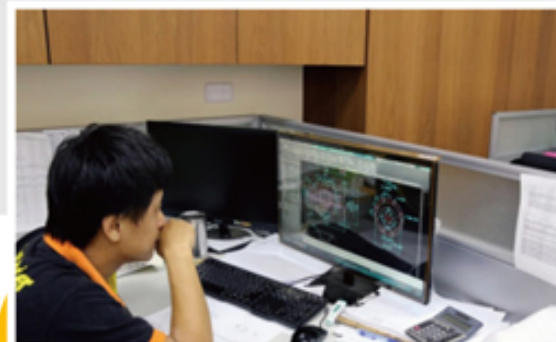
## About us

Genius Machinery Co., Ltd. was founded in 1992. For over forty years of experience in plastic recycling machine, we have dedicated to putting the innovations into practice to satisfy the needs of customers. Genius specializes in plastic recycling machinery which covers from plastic pelletizer, plastic washing plant, plastic crusher, plastic shredder to plastic recycling plant design and planning.



## Innovative Technology

Our team pursues growth, excellence and environmental protection. Our professional R&D team has paid the 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.



## Global Vision

Our target customers are not only in Taiwan, but also worldwide. We aim to embrace the customers from all over the globe and build enduring relationship with our clients. Our export destinations include United States, Europe, South Africa, Egypt, China, Indonesia, Malaysia, the Philippines, Saudi-Arabia, Japan, Algeria and so on. We will keep expanding our horizon and let the world see the pride of Taiwan, the excellent technology, reputation and quality.







### **A Master of Plastic Recycling Solutions**

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