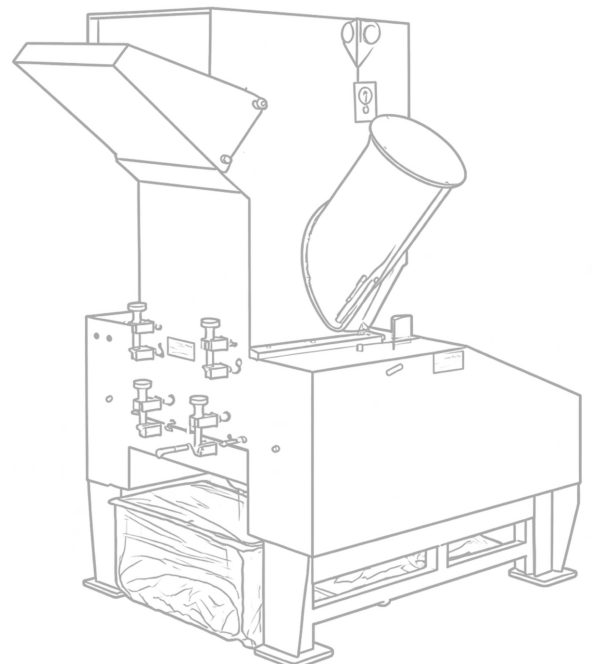




HIGH PERFORMANCE SIZE REDUCTION EQUIPMENT MANUFACTURER INSTEAD INDUSTRIAL MACHINES

Reliable technology for polymer, food,
pharma and chemical industries

www.pollenmachines.com





ABOUT US

We are a group of professional services

At **POLLEN MACHINES**, we specialize in the design, development, and manufacturing of high performance size reduction equipment tailored to meet the exacting needs of the polymer, food, chemical, and pharmaceutical industries. With decades of expertise and a commitment to innovation, we deliver machinery that optimizes your process efficiency, ensures product consistency, and meets the highest standards of safety and quality.



VISION

To be a trusted leader in manufacturing high-performance size reduction machinery with innovation, quality, and reliability.



MISSION

To be a trusted leader in manufacturing high-performance size reduction machinery with innovation, quality, and reliability.

WHY CHOOSE US ?

- ✓ Custom machines designed for exact process requirements
- ✓ Strong build quality for long lasting performance
- ✓ Designed as per industry safety standards
- ✓ Complete support from design to service

Plastic Pulveriser Machine

The Plastic Pulveriser Machine by Pollen Machines is a high performance solution designed for fine grinding of plastic materials into uniform powder. Built with robust engineering and precision components, it ensures efficient operation, low maintenance, and consistent output quality.

Key Features

- ✓ Heavy-duty MS / SS construction for long service life
- ✓ High-speed rotor for fine and uniform grinding
- ✓ Efficient cyclone separator system for better output
- ✓ Low power consumption with high productivity
- ✓ Easy to operate and maintain
- ✓ Compact, stable, and vibration-free design

Applications

- ✓ PVC, HDPE, LDPE, and CR-LDPE Pulverizing
- ✓ Plastic Recycling Industry Applications
- ✓ Rotational Molding Powder Preparation
- ✓ Masterbatch & Compounding Units



Technical Specifications

Machine Type	Plastic Pulveriser
Capacity	50-500 kg/hr
Motor Power	20-60 HP
Material	MS/SS (as required)
Output Size	20-80 mesh
Cooling System	Air / Water Cooling



Plastic Scrap Grinder Machine

- High Efficiency
- Durable
- Precision Grinding

Our Plastic Scrap Grinder Machine is engineered for efficient size reduction of plastic waste into reusable granules. With its heavy-duty construction and precision cutting system, the machine delivers high productivity, reliable performance, and low maintenance operation.

Key Features

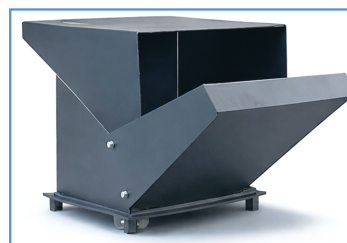
- ✓ Heavy-duty fabricated steel body
- ✓ High-performance cutting blades
- ✓ Low vibration and smooth operation
- ✓ Easy blade setting and maintenance
- ✓ Energy-efficient motor
- ✓ Compact and durable design

Applications

- ✓ Plastic recycling industries
- ✓ Injection molding units
- ✓ Blow molding plants
- ✓ Industrial plastic waste processing

Technical Specifications

Machine Type	Plastic Pulveriser
Capacity	100 – 400 kg/hr
Motor Power	10 – 30 HP
Blade Material	D2 / EN Series Steel
Operation Type	Automatic
Machine Body	Heavy Duty Mild Steel



Strong Feeding Hopper



High-Performance Cutting Blades

PSHM Series Single-shaft Plastic Shredders

PSHM 600, PSHM 1000 & PSHM 1500, PVC Shredder Machines are high-performance solutions designed to efficiently process plastic waste into manageable pieces. Equipped with high-torque blades, they ensure reliable, consistent, and efficient operation across industries.

Key Features

- ✓ Heavy-duty MS/SS construction for durability
- ✓ High-torque rotor for efficient shredding
- ✓ Sharp, wear-resistant blades
- ✓ Handles large, bulky plastics easily
- ✓ Uniform output for easy recycling
- ✓ Low noise, energy-efficient operation



Applications

- ✓ Plastic recycling industries
- ✓ PVC, PE & PP waste processing units
- ✓ Manufacturing & packaging industries
- ✓ Scrap and lump size reduction
- ✓ Pre-processing before granulation or pulverizing



Technical Specifications

Machine Model	PSHM 600	PSHM 1000	PSHM 1500
Capacity	250 kg/hr	600 kg/hr	1000 kg/hr
Material	PVC	PVC	PVC
Machine Type	Single Shaft	Single Shaft	Single Shaft
Power Consumption	15 kW	30 kW	45 kW

Processable Materials



PET Bottle



HDPE Crates



PVC Pipes



ABS Housing

Plastic Agglomerator Machine

A Plastic Agglomerator Machine is a high-performance recycling solution designed to convert lightweight plastic waste into dense, reusable granules. Built with a rugged heavy-duty structure and a high-speed rotor system, it ensures efficient agglomeration of plastic films and soft scrap materials.

The machine utilizes frictional heat generated by rotating blades to soften plastic, followed by cooling to form uniform granules—ideal for further processing in extrusion lines. It delivers consistent output, low energy consumption, and long operational life, making it perfect for industrial recycling applications.

Key Features

- ✓ Robust heavy-duty steel construction
- ✓ High-speed rotor for rapid agglomeration
- ✓ Energy-efficient industrial motor
- ✓ Uniform and consistent granule output
- ✓ User-friendly operation & low maintenance
- ✓ Compact footprint with strong base frame

Applications

- ✓ LDPE / HDPE film recycling
- ✓ PP woven bags & raffia processing
- ✓ Plastic packaging waste
- ✓ Industrial plastic scrap recycling

Technical Specifications

Machine Type	Plastic Agglomerator
Material Compatibility	LDPE, HDPE, PP
Output Form	Agglomerated Granules
Motor Power	15 – 50 HP (Customizable)
Production Capacity	100 – 500 kg/hr (Approx.)
Operation	Semi / Fully Automatic
Machine Body	Heavy Duty Mild Steel



Turbo Grinder Machine

Turbo Grinder Machine delivers efficient grinding of plastic materials into uniform granules with high speed performance, robust construction, low vibration, and minimal energy consumption, ensuring reliable operation and seamless integration into continuous plastic recycling and processing lines.



Technical Specifications

Model	TURBO-600
Chamber Size	335 X 610 mm
Capacity	250 to 300 kg/hr
No. of Fix Blades	04 Nos
No. of Rotary Blades	30 Nos
Motor (KW)	30 H.P. CROMPTON / A B B Make With Elect. Panel
L x B x H	1515 x 1250 x 1750 MM
Weighth	1240 kg.



On Line Grinder

Compact and powerful inline grinding solution designed for real time plastic waste reduction, ensuring consistent performance, energy efficiency, and seamless integration into production lines.

Technical Specifications

Machine Type	On Line / In-Line Grinder
Capacity	20 – 30 kg/hr
Material	HDPE, LDPE, PP, PVC, PET, ABS
Motor Power	3 HP – 5 HP
Application	Continuous plastic scrap grinding



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