



SUSTERA RECYCLING

Reinventing Plastic's Future

SUSTERA RECYCLING SOLUTIONS PVT. LTD.

(formerly known as RK POLYMERS & SONS)



PLASTIC RECYCLING





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ENTERPRISE INTRODUCTION

Sustera Recycling Solutions Private Limited is a professionally managed Indian manufacturing company engaged in providing complete plastic recycling solutions.

The company is located at: Plot No. G-137, RIICO Industrial Area, Prahladpura, Sitapura Extension, Tonk Road, Jaipur – Rajasthan, India

With an industry experience of over 25 years, Sustera Recycling Solutions has been actively involved in the fields of plastic reprocessing, plastic granules manufacturing, plastic products, and plastic recycling machinery manufacturing. Our long-standing expertise enables us to deliver reliable, efficient, and cost-effective solutions to customers across Globally.





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OUR CORE BUSINESS

We are a direct manufacturer of complete plastic recycling machinery and systems.

Our product range includes:

- Complete Plastic Washing Lines (suitable for all types of plastic scrap)
- Pelletizer
- Single Screw Extruders
- Double Stage / Extruders (Mother–Baby Type)
- Plastic Grinders & Shredders
- Mixers & Agglomerators
- Pelletizers Water Tanks & Cooling Tanks
- Vibratory Screens
- Air Knite Moisture Remover
- Storage Silos & Granules Storage Tanks
- Squeezer / Dewatering System

All our machines are designed to ensure high efficiency, consistent output, low energy consumption, and long service life.

COMPLETE RECYCLING SOLUTIONS

Sustera Recycling Solutions provides end-to-end plastic recycling solutions, from raw material handling to final granule production. Our washing lines are engineered to process various types of plastic scrap such as: PE, PP, PET, Rigid & soft plastics, Industrial and post-consumer plastic waste.

Each system is customized according to the customer's capacity requirement, raw material condition, and end-product quality expectations.

OUR COMMITMENT

With deep technical knowledge and hands-on industry experience, we believe in honest communication, practical solutions, and long-term customer relationships.


Our mission is to support the plastic recycling industry by delivering high-quality, energy-efficient, and economically viable recycling machinery.


Today, Sustera Recycling Solutions proudly serves customers across Globally and continues to grow as a trusted name in the plastic recycling machinery sector.


Washing Line for RIGID PLASTIC WASTE

1000-2000 kg/hr.



 Suitable for different kinds of Hard / Rigid plastic materials (HDPE Bottle, Containers, PP injection, Moulding Product, Engineering plastic, Home-consumer plastic etc.)

 As machine installed VOC Dehumidification, drying system, sorting system, this kind of flakes meets the standard of FDA which is available to contact food packing.

 Less than 1-3% moisture, the material is suitable for high quality pelletizing.

Model	Capacity (KG/Hr.)	Installation Power (KW)	Water Consumption (T/H)	Space (sqft.)
SRWS1000	1000	140	0.25~0.35	800
SRWS2000	2000	170	0.45~0.55	1000



Washing Line for Flexible Waste PE PP Film Jumbo Bag/Woven Bag

200-500 kg/hr.



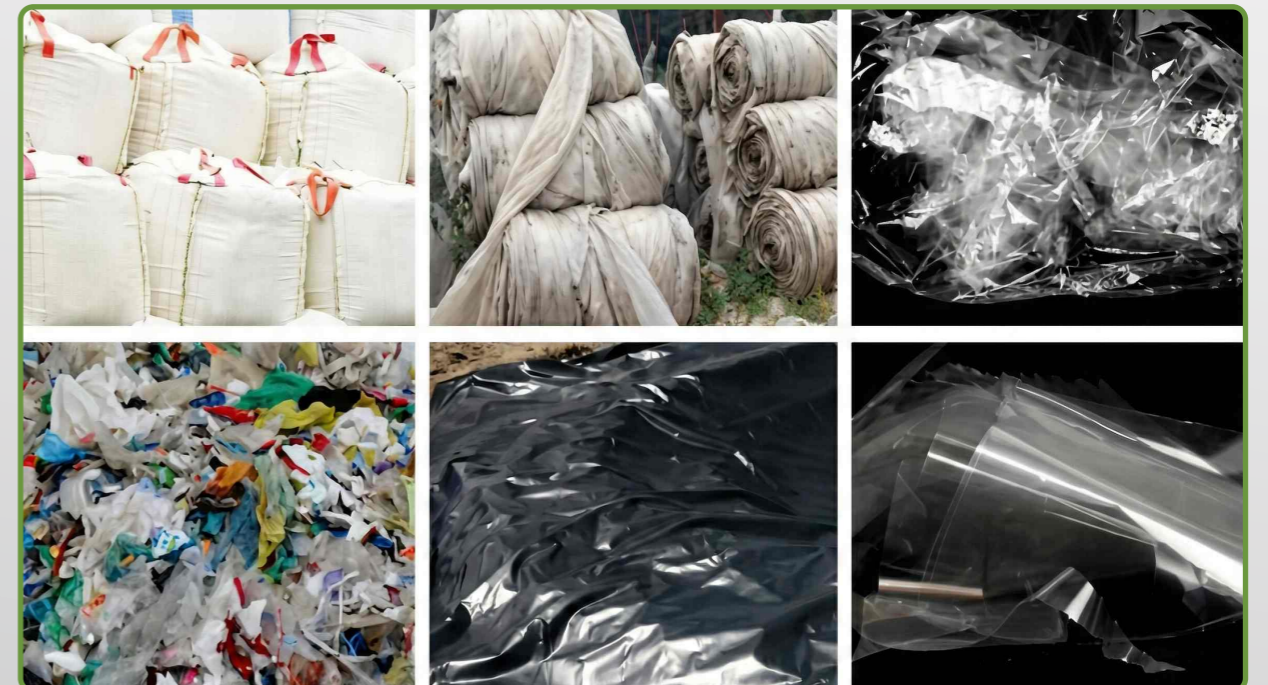
Suitable for different kinds of soft plastic materials (LLDPE Film, PP Jumbo Bag, PP Woven Bag, PP Fishnet), are able to separate high density and dirty materials.



Plastic will get high speed friction around 720rpm and sticky material and heavy sediments will be rubbed off efficiently.



Final Moisture can be around Less then 5% in the end. Totally suitable for Pelletizing Line of our own brand.



Model	Capacity (KG/Hr.)	Installation Power (KW)	Water Consumption (T/H)	Space (sqft.)
SRWS200	200	150	0.25~0.35	800
SRWS500	500	180	0.45~0.55	1000

Single Stage Pelletizing Line *150-300 kg/hr.*

Single Screw Pelletizing Line

Rigid Plastic / Soft Plastic

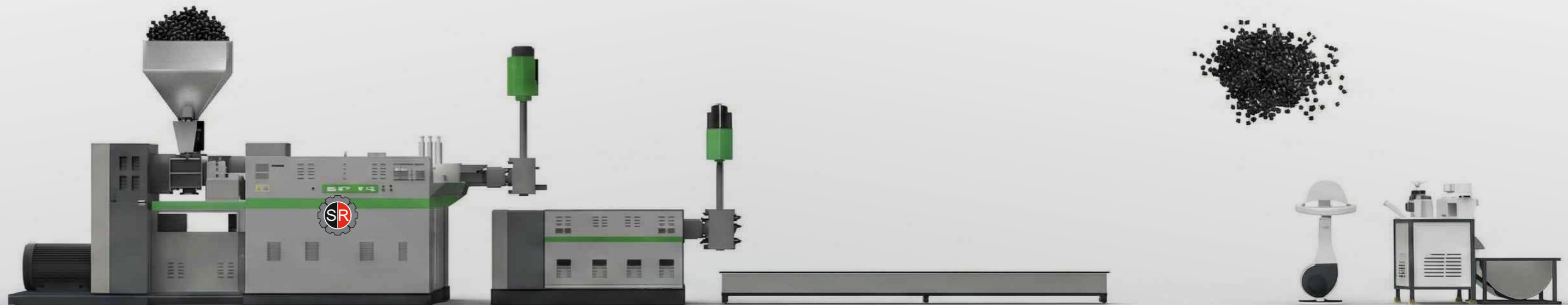
High-performance pelletizing system for recycling rigid plastics and soft plastics.

Designed for stable output, excellent pellet quality, energy efficiency, and long service life.



Double Stage Pelletizing Line *150-300 kg/hr.*

- High-efficiency single screw extruder with uniform melting
- Wear-resistant screw & barrel for low maintenance
- Vacuum degassing for clean, high-quality pellets
- Energy-efficient heating with stable temperature control
- Single Stage for clean materials; Double Stage for contaminated or mixed plastics
- Customizable L/D ratios for various materials and capacities





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Shredder Machine

- 35% more space in the cutting chamber with V type rotor design.
- Low speed of 85 rpm ensures smooth running with high torque.
- Special design of rotor knife, knife holder, external bearing.
- Rotor surface hardened and wear-resistant.



Plastic Scrap Dust Remover Machine with Dust Collector

Removes dust, labels, and soft impurities from plastic scrap before washing. Ensures cleaner, higher-quality recycled flakes. Protects workers by controlling airborne dust with an integrated dust collector. Extends the life of grinders and extruders by reducing wear and clogging. Enhances overall recycling efficiency and plant cleanliness.

Friction Washer

- Through the high pressure water and high speed rotation The Plastic impurities will be removed efficiency
- Special design for blade of main shaft.
- Special Anti-wear steel for blade of main shaft.
- Self cleaning device for mesh.
- Laser processes for mesh holes.





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Plastic Scrap Mixture Machine

The Plastic Scrap Mixture Machine is designed for uniform mixing of plastic scrap flakes, regrind, additives, color masterbatch, and fillers before further processing. It ensures consistent material blending, improved product quality, and efficient downstream operations in plastic recycling plants.



PLASTIC CRUSHER

The plastic crusher is used for crushing small and thin plastic scrap. It is suitable for plastic films, PE & PP bottles, PET bottles, plastic caps, baskets, small pipes and other light plastic materials. This machine is not meant for heavy or bundled plastics. For different plastic materials, we provide suitable blade design to ensure efficient crushing and longer blade life.



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Conveyor belts

Although automatic sorting can achieve high sorting efficiency, but it can not guarantee 100% sorting precision. For high-grade down stream application of Plastic flakes, manual sorting is still required at present. Especially for areas with relatively lower labor cost.



Squeezer

The film squeezer is designed for further drying of thin films coming from the upstream washing line with high moisture content. Using the power of the internal pressing screw, the material is squeezed to remove excess water, making it easy to feed into the downstream extruder for pelletizing."



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Pelletizer Machine

- The machine is equipped with high wear-resistant cutting knives and durable rubber traction rollers, which ensure long service life and low maintenance.
- Advanced manufacturing technology and precise assembly provide smooth operation, low vibration, and accurate pellet cutting.
- Suitable for palletizing - PA, PP, PE, PS, ABS
- Production Capacity
Output capacity *ranges from 300 to 1000 kg/hour,

AIR KNIFE

- Type: Air Knife Moisture Remover
- Motor: 2 KW Blower Motor
- Air Knife: Stainless Steel
- Function: Removes Surface Moisture from Pellets or Granules



VIBRATING SCREEN MACHINE

- Type: Vibrating Screen Separator
- Function: Separates Granules/Pellets by Size
- Material: Stainless Steel Construction
- Motors: Single Vibration Motor
- Mesh Sizes: Multi-Layered Screens
- Frame: Heavy-Duty Blue Steel

STORAGE SILO

- Material: Stainless Steel Silo
- Function: Pellet/Granule Storage
- Vibrator: Enhances Flow
- Discharge Pipe: For Bag Filling
- Frame: Heavy-Duty Blue Steel

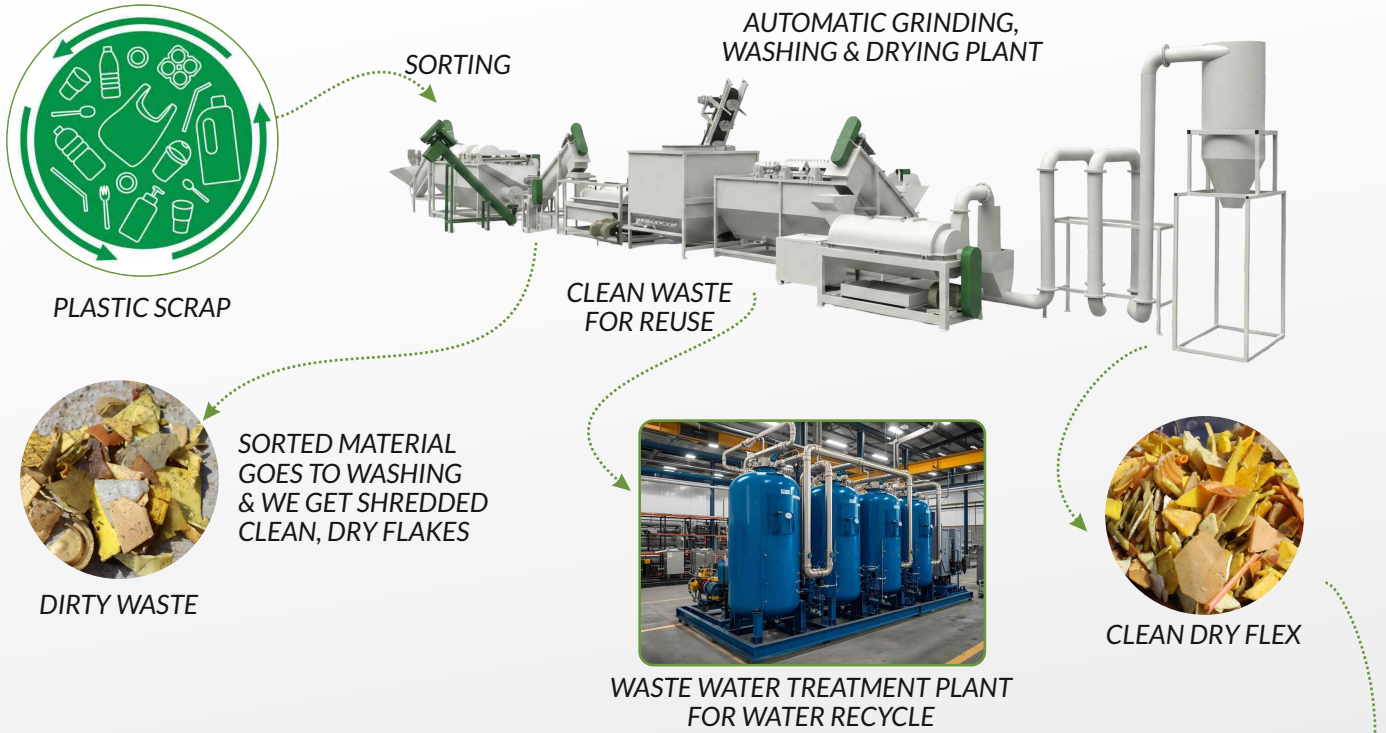




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Sustera Recycling – End-to-End Plastic Waste Recycling Solution



Sustera Recycling Cutter Compactor Single Stage Recycling Extruder





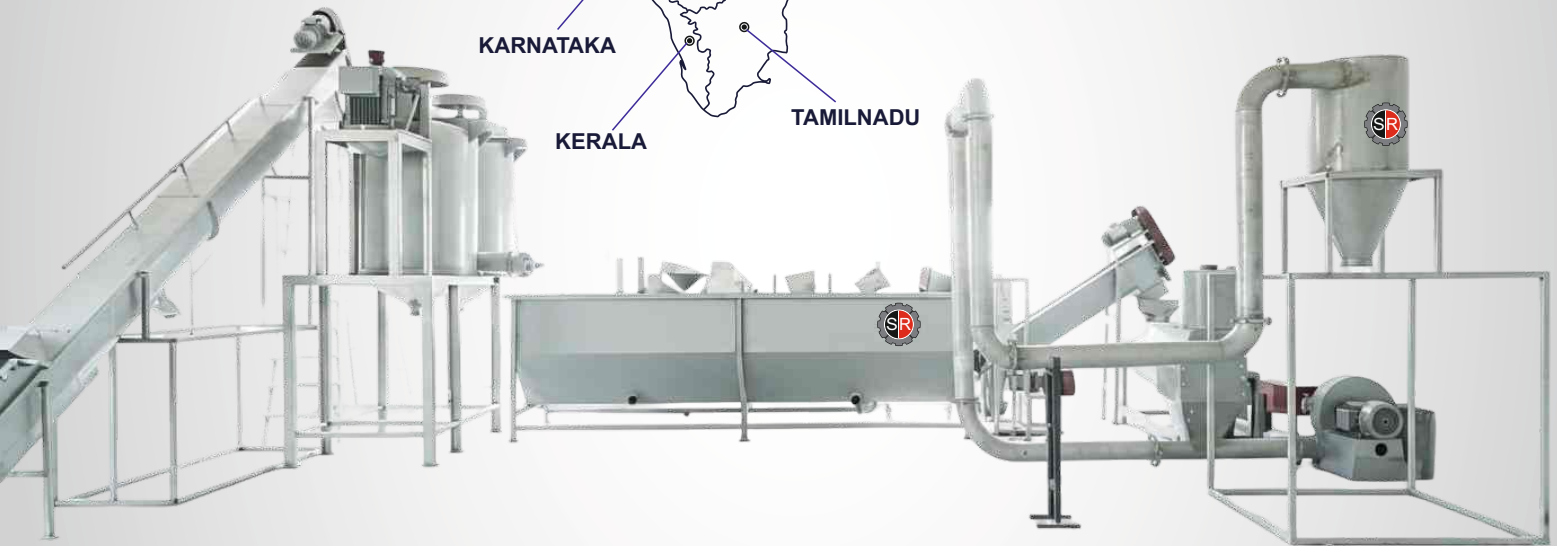
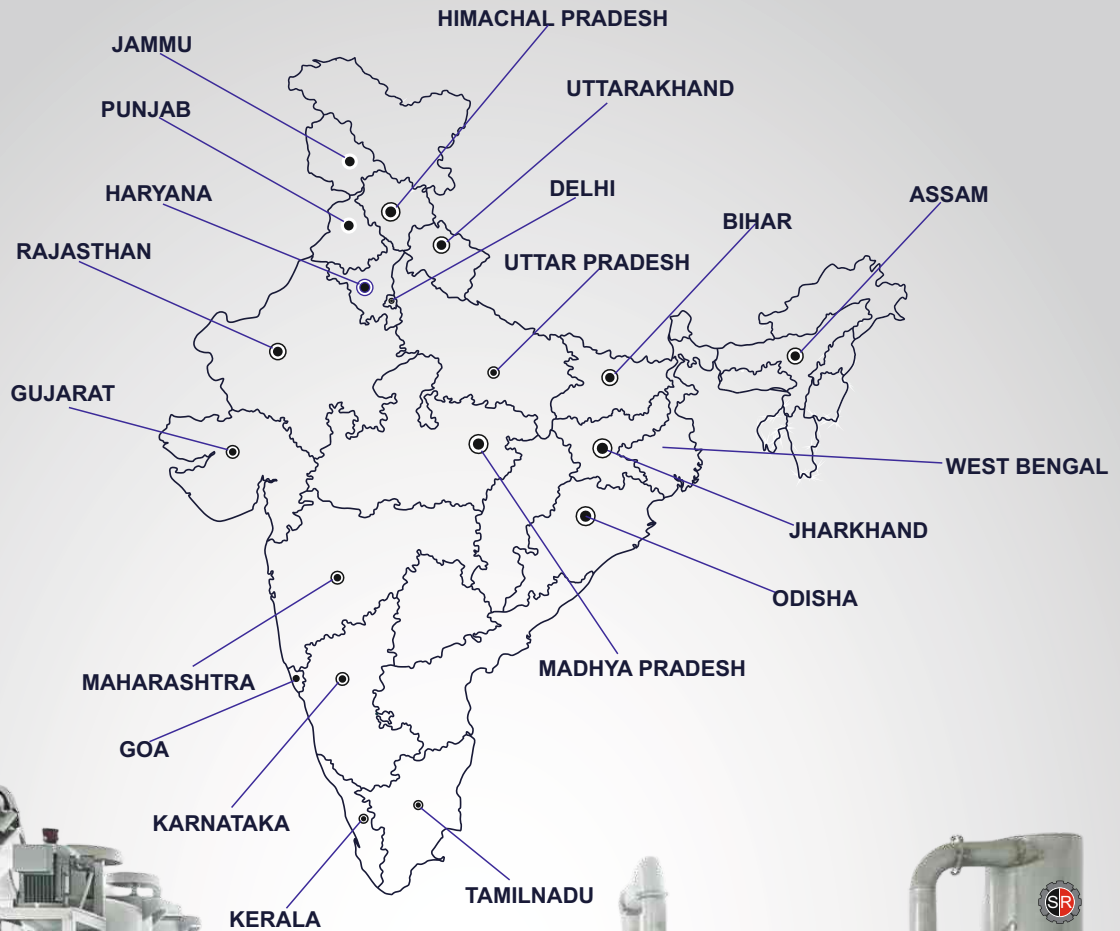
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OUR CLIENTS ACROSS INDIA



**TIGERS
POLYMER**



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