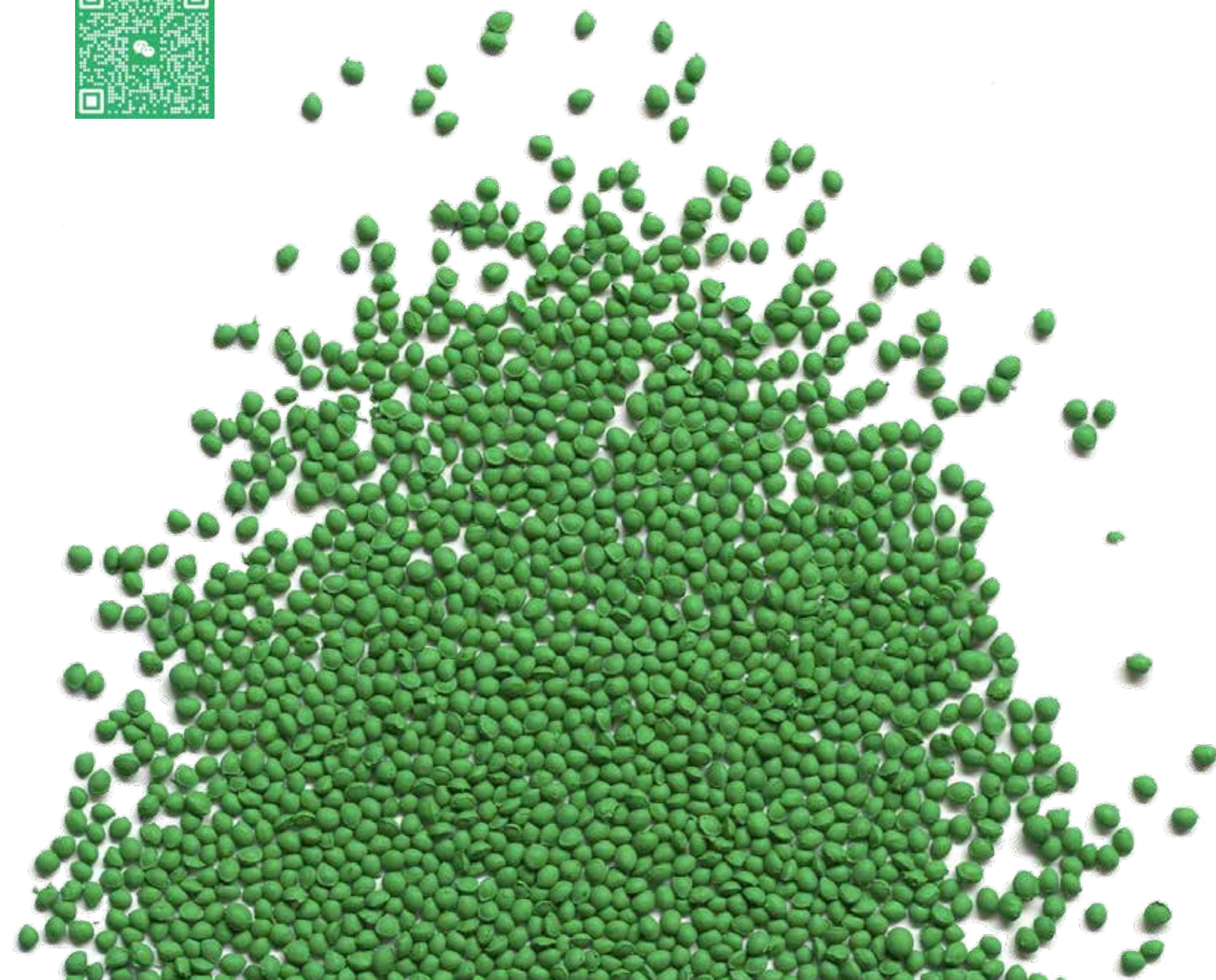


Do you have any further questions?
We are happy to answer your questions!
The regional consultant of PolyReTec around you is happy to
contact you and answer your questions.
If you wish to conduct material testing or visit equipment
demonstrations, we sincerely invite you to our factory in Zhang-
jiagang City(Nearby shanghai city) ,Jiangsu province ,China

Please contact us regarding this and schedule a time.
We look forward to your arrival!



SUZHOU POLYTEC MACHINE CO LTD ZHANGJIAGANG POLYRETEC MACHINE CO LTD

ADD:NO.4 changde road,Changyinsha Mordern Agriculture Demonstration Zone,Zhangjiagang
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www.polytecrecycling.com

SMART PLASTIC RECYCLING SYSTEM MANUFACTURER



REDUCE
REUSE
RECYCLE



www.polytecrecycling.com

**ALL IN ONE SOLUTIONS FOR PLASTIC RECYCLING SYSTEM
SHREDDING | SORTING | WASHING | PELLETIZING**



关于我们|ABOUT US

Suzhou Polytec Machine Co, Ltd. focuses on the R&D and manufacturing of complete set of waste plastic recyding systems. We have providedcustomers over 30 countries through high-quality customized solutions, professional real-time technology and afer-sales service. The core team of suzhou Polytec Machine cotd,has more than 15 years of experience in formulating and implementing overall solutions for renewableresources, and has keen insight into market dynamics. Our company has an independent R&D department and a senior technical team, with engineersand technicians engaged in this industry for many years and have mastered application technologies in various fields in the indutry through continuousaccumulation we attach areat importance to interaction and commynicgton with portners and constanty pursue technological innovation.

WHAT WE DO

- 01 WASTE PLASTIC SORTING AND WASHING SYSTEM
- 02 PLASTIC GRANULATING LINE FOR POST INDUSTRY MATERIAL
- 03 DEVELOP KEY MACHINERY FOR RECYCLING SYSTEM
- 04 WASTE ELECTRONIC ABS PS PC PLASTIC RECYCLING PLANT
- 05 DESIGN AND INSTALLATION OF PROJECT ENGINEERING

CUSTOMERS & PARTNERS

To be your reliable friend and insist in providing you qualified product by "high value, high efficiency, comfortable price".



QUALIFICATION CERTIFICATION AND PATENT CERTIFICATE

Honor comes from dedication, and every recognized qualification certificate unites Deedo people. The crystallization of hard work, every honor is a landmark, a journey.. We will also take each honor as a starting point, constantly strive for progress, and surpass ourselves.



SMART FACTORY

INTELLIGENT MANUFACTURING SOLUTIONS

Assist manufacturing enterprises in reducing costs and increasing efficiency, optimizing management efficiency, and enhancing their core competitiveness!



- 01 Applied for the European industry 4.0 standard, automatic monitoring machinery energy consumption and output data.
- 02 Integrate exclusive recycling processes into PLC operating procedures to reduce operator requirements.
- 03 Machinery fault analysis and statistics, and maintenance and repair intelligent management system.
- 04 Machinery spare parts management system, optimizing spare parts inventory and usage costs.
- 05 Analysis of machinery energy consumption and emissions, optimization of operating costs, and calculation of carbon emissions.

EXPERT TEAM

Accurately analyse the composition and combination of waste materials, design and determine the recycling process, and customize the entire recycling and treatment system.



PROFESSIONAL CUSTOMIZATION

Optimize and restructure the recycling line according to the requirements of the customer's production site for load-bearing, height, and logistics flow.

Based on the water and electricity supply and wind direction of the customer's production site, customize and design the exhaust and wastewater treatment system to optimize operating costs.



PRECISION FABRICATION

Professional technicians operate precision laser cutting and large-scale CNC machine to ensure the precision and stability of machinery.

A rigorous quality inspection team ensures the performance and safety of machinery apply European standards.



AFTER-SALE SERVICE

Global service network, prompt responding to customer needs; adequate inventory of spare parts and standard equipment to efficiently serve customers.

Regular customer follow-up and in-depth recycling technology communication, rapid optimization of machinery design, and precise resolution of customer recycling difficulties.



POST-INDUSTRY PLASTIC GRANULATING LINE

OUTPUT 200-1200KG/HR



EXCELLENT DEGASSING AND FILTERING PERFORMANCE FOR RECYCLING

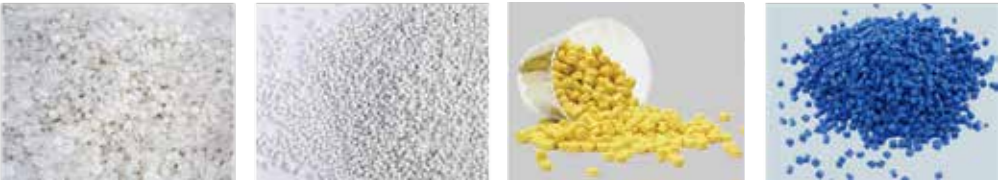
The PTC-PRO is the totally new standard recycling and pelletizing system with optimized super long L/D ratio, twice vacuum degassing, specially suit to the waste plastics such as high contaminated and heavily printed recycling and pelletizing. The drive of compactor is controlled by inverter, together with sliding gate device installed on the outlet of compactor room, to guarantee PTC-Pro not only handle losing material recycling but also rigid regrinds material re-pelletizing.



RAW MATERIAL



PRODUCTS



ESTIMATED PLANT PARAMETERS

MODEL	SCREWDIAMETER(MM)	OUTPUT(KG/H)	POWERCONSUMPTION(KW/H)	MANUAL	L/D	ROTATINGSPEED(RPM)
PTCS80	80	150-250	90	1-2	18-42	10-150
PTCS100	100	200-350	130	1-2		
PTCS130	130	450-600	220	2-3		
PTCS150	150	600-700	270	2-3		
PTCS185	185	800-1200	366	2-4		



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



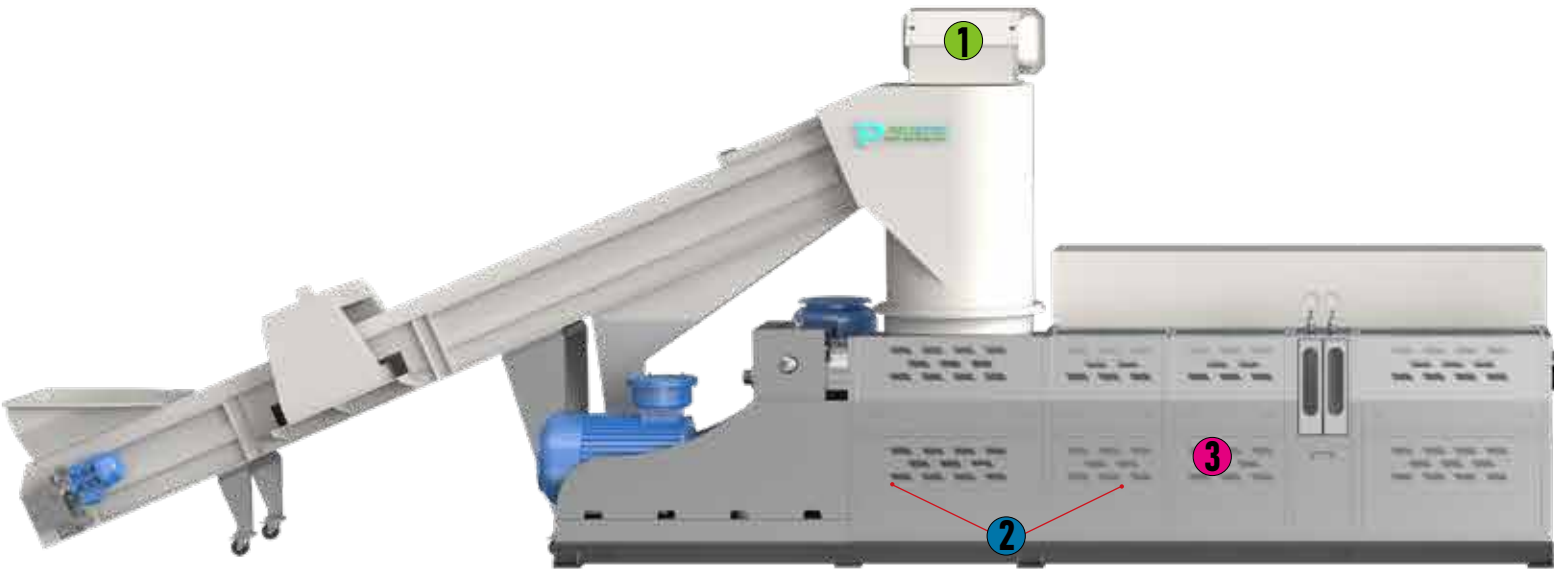
Lower energy consumption, higher production



one-stop service

COMPACT PELLETIZING LINE FOR POST CONSUMER MATERIALS

Less length,less energy needed.
For the finest double filtration quality in a compact design.



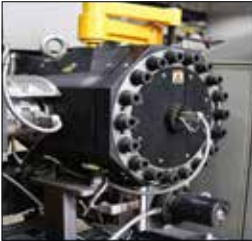
Compact
Up to 11 % less energy consumption
Up to 22 °C lower mass temperature
Up to 14 % more throughput

Continuous Laser Filter

This type filter no need mesh screen can filter online, automatically discharge impurity, no stop machine,savescreen and high efficiency.
At the same time,we adopt the porous plate rotate and scraper stationary newdesign,less contact surface,fit more tightly,scrape more clean,Structure more stable.
suitable for large-scalerough filtration processes of various post consumer recycled plastics.



- 1 Ideal material preparation in the PreConditioning Unit Cutting, homogenising, heating, drying, compacting, buffering and dosing
- 2 Gentle melting with low shear stress
- 3 Even stronger degassing performance
- 4 Fine filtration
- 5 Melt pump for temperature reduced pressure build up
- 6 Final fine filtration
the filtration fineness of the second filter can now be particularly fine - even finer than the first filter, depending on the application. This supports further processing into end products of particularly high quality.



Pp raffia



Film from household waste



Agricultural film



LDPE supermarket film containing paper



pp pellets



pe ldpe pellets

ESTIMATED PLANT PARAMETERS

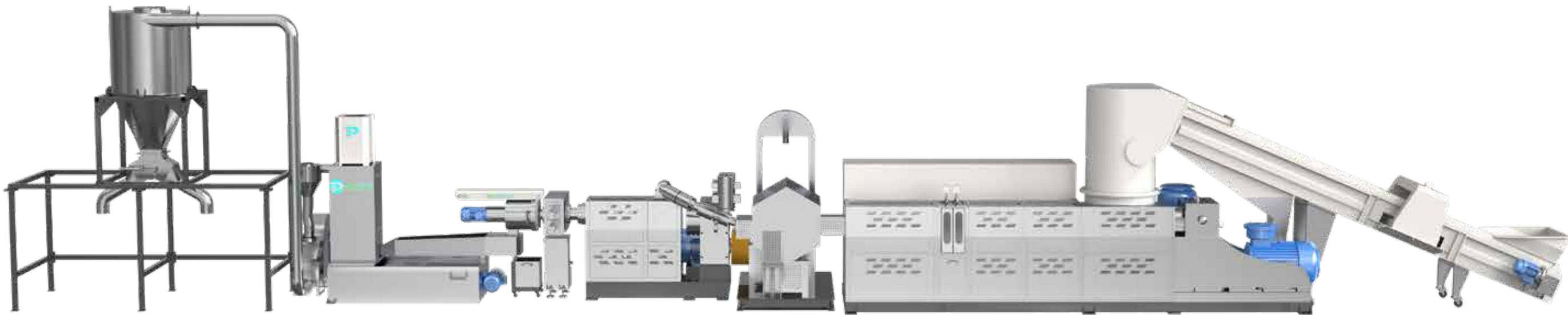
MODE	OUTPUT CAPACITY IN KG/H*	REMARK
PTC100PRO	200-350	Laser Filter+Melt pump+Large Area Double-Pillar Type Filter
PTC130PRO	450-600	
PTC150PRO	600-700	
PTC160PRO	700-850	
PTC185PRO	800-1200	

WASTE HEAVY SURFACE PRINTED FILM/ METALIZED FILM RECYCLING PELLETIZING LINE



Suitable for recycling waste plastics with little water and heavy surface printed film

Pelletizer design can be used to process up to 95% surface printing recovery materials.



1. Filtration before degassing

This machine recovers the reprinted recovery material, which is filtered before the degassing so that it can ensure high quality degassing effect, produce better particles.

2. Triple degassing

In addition to the double degassing of the first extruder, the breathable blocks (at the first and second extruder junctions) serve as the third degassing section to further remove ink and excess moisture from the recycled material.

3.Improved pelletizing is more rapid and more stable

RAW MATERIAL



PRODUCTS



MODEL	PTCS80	PTCS100	PTCS130	PTCS150	PTCS185
Screw diameter (mm)	80	100	130	150	185
L/D	18-42				
Rotating speed(rpm)	10-150				
Capacity(kg/h)	150-250	200-350	450-600	600-700	800-1200

Rigid plastic recycling granulating line



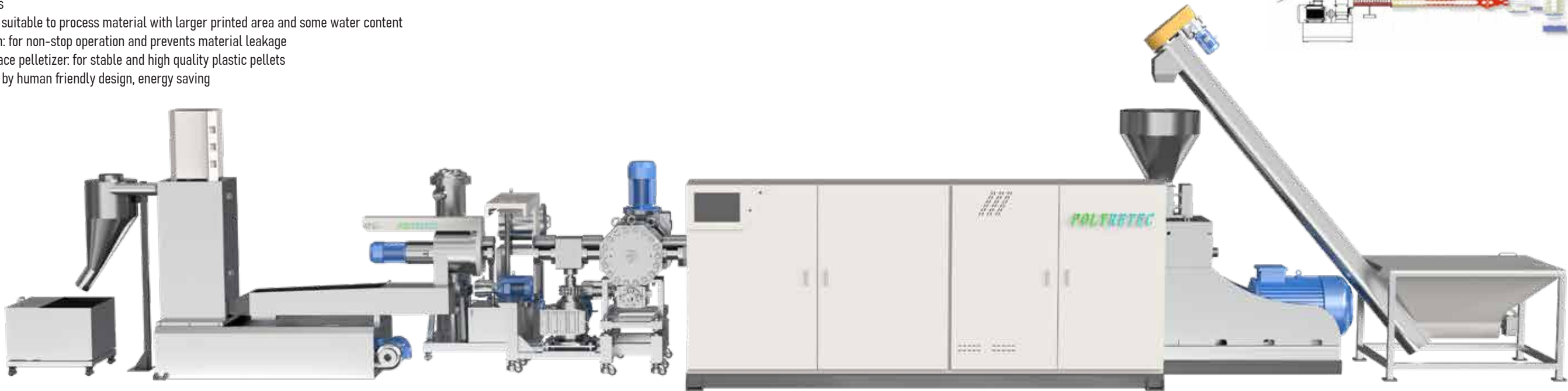
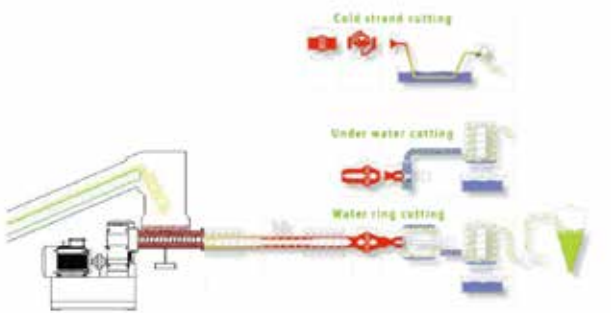
Raw materials: Bottles, chemical drums, HDPE milk bottles, industrial pipes, WEEE Waste Electrical Equipment, ABS recycling, etc. rigid plastic materials. Pelletizing way: water-ring cutting, cold strand cutting, under water cutting all available from POLYTEC to meet different conditions of materials.

PROJECT INTRODUCTION

Rigid plastic can be recycled and reprocessed into small pellets that are used to make plastic containers, crates, pipes, new plastic bags, and pallets. Rigid plastic recycling is good for the environment and can generate economic income as a win-win solution.

Advantages

- Degassing: suitable to process material with larger printed area and some water content
- 2. Filtration: for non-stop operation and prevents material leakage
- 3. Hot die face pelletizer: for stable and high quality plastic pellets
- 4. Machine by human friendly design, energy saving



PRODUCTS



RAW MATERIAL



Model	Screw diameter (mm)	Output (kg/h)	Power consumption (KW)	Labor (person)	L/D	Rotating speed (rpm)
PTC90-100	90	110-180	110	1-2	18-42	10-150
PTC100-120	100	200-350	150	1-2		
PTC130-150	130	450-600	260	2-3		
PTC150-160	150	600-700	320	2-3		
PTC185-200	185	800-1200	380	2-4		

PP PE RECYCLING&COMPOUNDING LINE

CUSTOMISED PLASTIC RECYCLATE FROM INEXPENSIVE RECYCLING
RAW MATERIAL.OUTPUT 300-1000KG/HR



preconditioning unit: cutting, mixing, preheating, drying, degassing, compacting, buffering recycling extruder: plasticising, homogenising melt filter: fully automatic and self-cleaning

twin-screw compounding extruder: Admixing of additives, fillers and reinforcing agents e.g. up to 80 % CaCO3 , 50 % glass fibre, colour

pelletising systems: For consistent pellet quality



Examples of additives, fillers and reinforcing agents suitable for admixing

ESTIMATED PLANT PARAMETERS

MODEL	OUTPUT(KG/H)	Remark
PTC100-65	300	Examples of additives, fi llers andreinforcing agents suitable for admixing
PTC130-75	500	
PTC185-95	800-1000	



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production



one-stop service

One control system for the entire plant

PET FIBRE-TO-FIBRE RECYCLING SYSTEM

SPIN FINISH UNDER PERFECT CONTROL.
PET FIBRE-TO-FIBRE RECYCLING AS A FINE ART.



UNIQUE COMBINATION OF TECHNOLOGIES

PolyRetec Pelletizing system & IV Optimiser
This is made possible by combining the pelletizing machine, which has proven itself thousands of times over, with innovative IV Optimiser technology. While the PolyRetec prepares the material for extrusion using its Preconditioning Unit and Agglomerating system to ensure perfect homogenisation, pre-drying, removal of volatile components, and subsequent gentle PET melting, the new IV Optimiser ensures repolymerisation, IV lift and efficiently cleans the fibres of finishing additives.

RAW MATERIAL



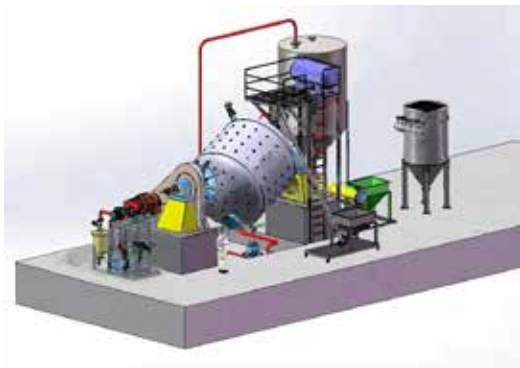
PRODUCTS



PET Chips Solid State Polymerization Unit (SSP)

tailored to the requirements of the fibre industry

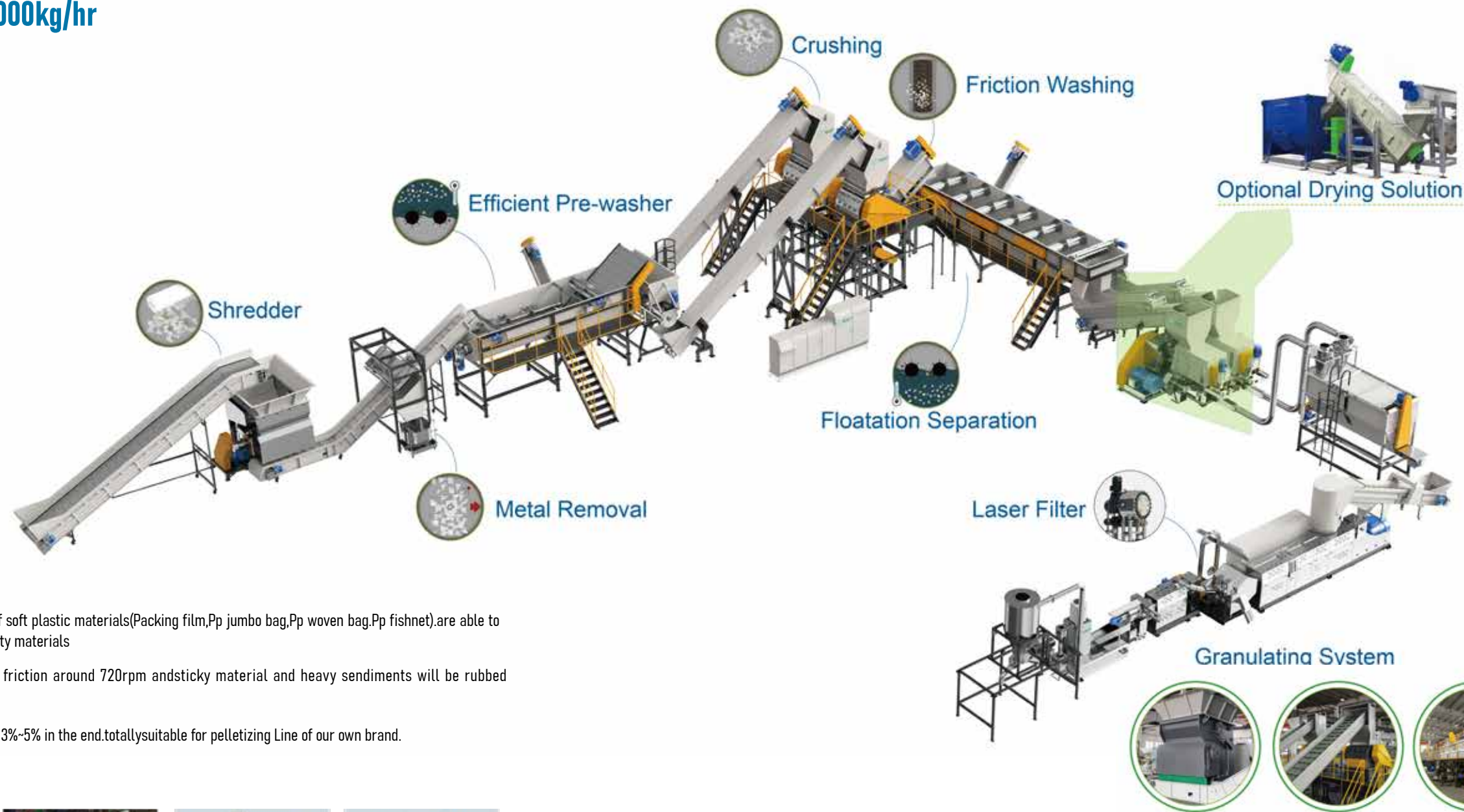
- efficient removal of spin finish and additives (spinning oils, texturiser oils, etc.)
- optimises and increases intrinsic viscosity (IV value) to the required level during the melt phase
- repolymerisation



Model	Output (kg/h)	Screw diameter(mm)	Screw speed(rpm)	L/D
PTC120	300~400	120	Adjustable	25-35
PTC150	600-700	150	Adjustable	25-35
PTC185	1000	185	Adjustable	25-35

PP PE SOFT PLASTIC WASHING RECYCLING AND GRANULATING LINE

Output 500-2000kg/hr



- Suitable for different kinds of soft plastic materials(Packing 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 3%-5% in the end, totally suitable for pelletizing Line of our own brand.

RAW MATERIAL



PRODUCTS



ESTIMATED PLANT PARAMETERS

MODEL	Input capacity(kg/h)	Required Area(m ²)	Install power(kw)	Required Compressed Air(m ³ /min)	Average consumption(ton)
PTW500	500	200	140-225	0.5	E:67-225kw W:2-4.5t
PTW1000	1000	400	270-320	0.5	
PTW1500	1500	1000	500-570	0.8	
PTW2000	2000	1800		1	



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production

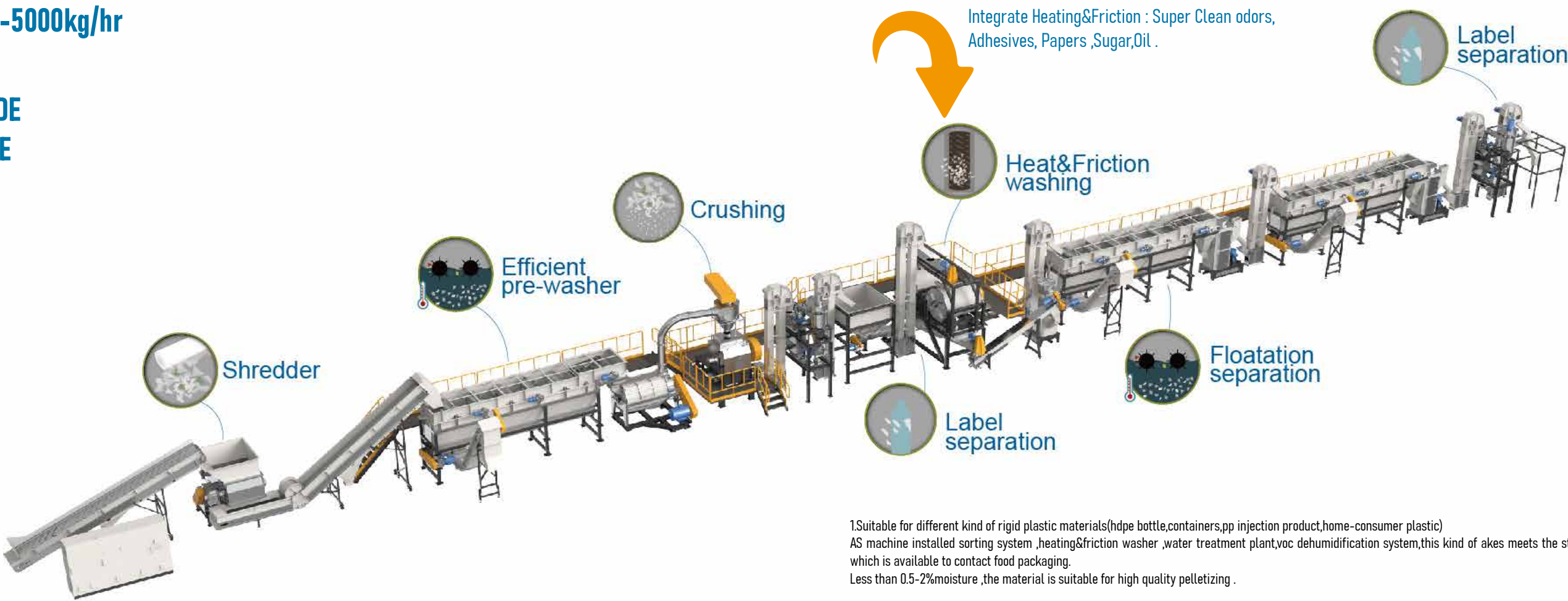


one-stop service

HIGH GRADE RIGID PLASTIC WASHING RECYCLING LINE (PE/PP/HDPE/PO/)

Output 500-5000kg/hr

- SHEET GRADE
- FOOD GRADE



1.Suitable for different kind of rigid plastic materials(hdpe bottle,containers,pp injection product,home-consumer plastic)
AS machine installed sorting system ,heating&friction washer ,water treatment plant,voc dehumidification system,this kind of akes meets the standard of FDA
which is available to contact food packaging.
Less than 0.5-2%moisture ,the material is suitable for high quality pelletizing .

2.Description of crushing washing process module:
Rinsing washer: the bottle contains the metal spring and other harmful substances through the first shredding all have been separated from the bottle, after the
friction scattered into the first rinsing washer, remove the majority of metal spring and aluminum foil and other submerged hdpe pp bottle and proportion of
greater than 1 PE / PP bottle Hot washing module: after crushing and friction, most of the labels and bottles have been separated, only the aluminum foil con-
taining adhesive and hot melt has no separation, through the first stage of separation into hot washing high temperature heating&friction, and remove the stub-
born dirt, adhesive and aluminum foil to restore the original color; high temperature heating module control temperature is greater than 90 ℃ and heating for
more than 30 minutes, design two heating&friction tanks to ensure the temperature and time of the specimen production line to ensure the cleaning quality;

ESTIMATED PLANT PARAMETERS

MODEL	Installation Power(KW)	Space(m ²)	Number of People	Water Consumption Steam (T/H)	Steam (T/H)Consumption
500	190	350	4-5	2-4	300
1000	270	400	4-7	2-4	300
2000	350	450	6-10	4-6	350
3000	480	500	6-12	6-8	500

 SMART intelligent control

 High safety protection: to protect personnel
safety and equipment safety

 Lower energy consumption, higher
production

 one-stop service

RAW AND PROCESSED MATERIAL FINISHED PRODUCT



ABS/PS HOT WASH RECYCLING LINE

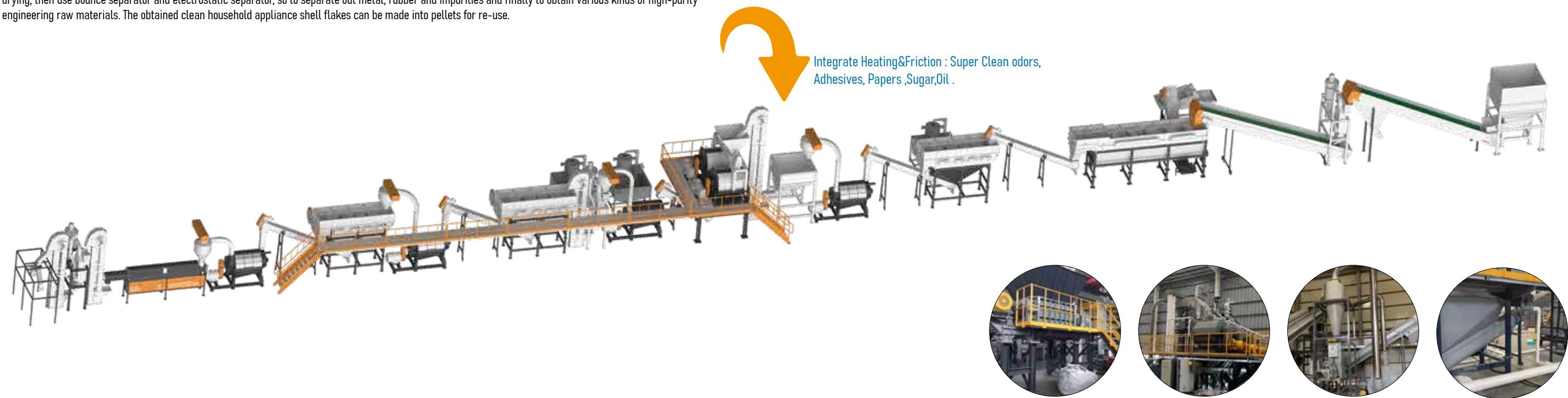
Output 500-5000kg/hr



PROJECT INTRODUCTION

ABS PS household appliance shell crushing washing recycling production line is mainly used for processing various kinds of television shells, computer shells, refrigerator shells, washing machine shells, air conditioner shells, car battery shells, electric vehicle battery shells and other waste large-sized hollow household appliance shells.

Firstly, dismantle the waste hollow-type ABS PS appliance shells and grind them into small pieces, then remove surface paper&glue by high-speed friction&heating washer in one, then wash out some impurities by saltwater washing, then washing with fresh water, then dry by centrifugal dewater and hot air drying, then use bounce separator and electrostatic separator, so to separate out metal, rubber and impurities and finally to obtain various kinds of high-purity engineering raw materials. The obtained clean household appliance shell flakes can be made into pellets for re-use.



ESTIMATED PLANT PARAMETERS

MODEL	Capacity(KG/H)installation	installation Power(KW)	Water Consumption(T/H)	Space (MF)
AWTF 500	500	110	0.5-1	200
AWTF 1000	1000	180	1-2	300
AWTF2000	2000	220	2-4	400
AWTF 3000	3000	260	4-5	500
AWTF 6000	6000	540	7-10	750



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production

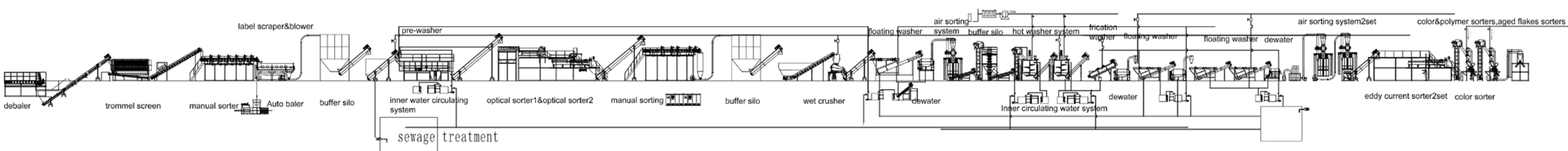
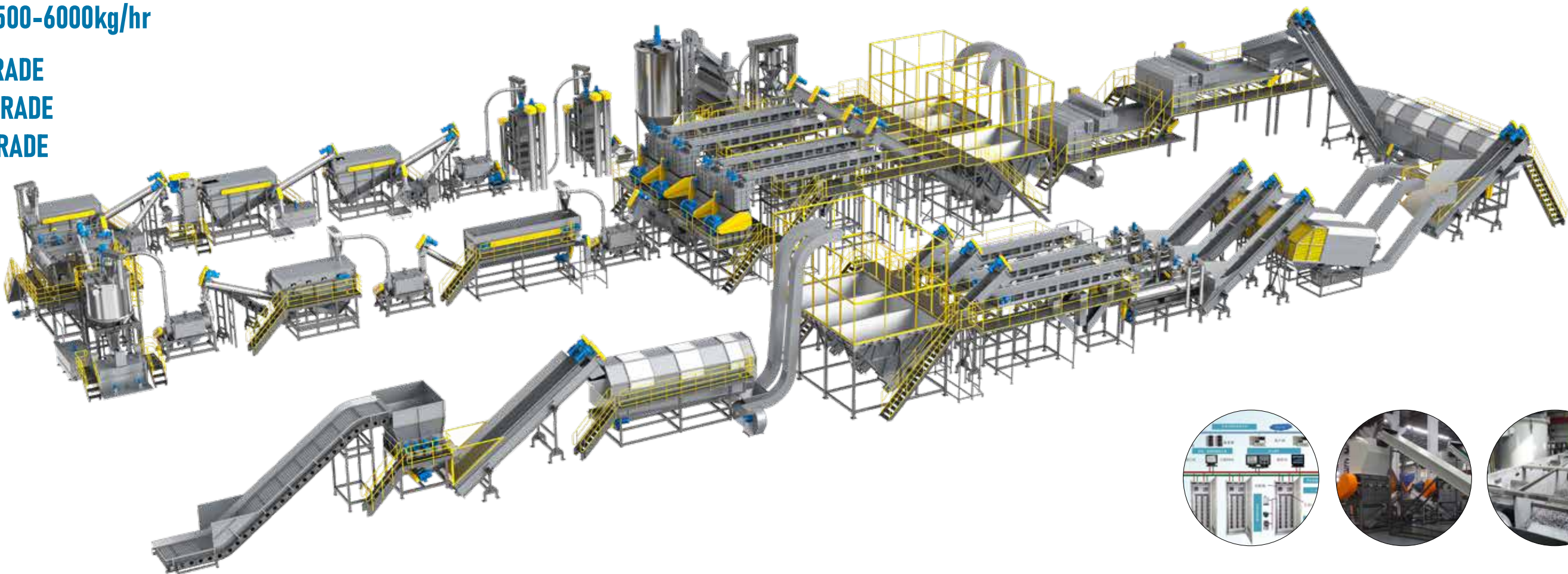


one-stop service

Washing Line for PET Bottle-Food grade/Bottle to Bottle

Output 500-6000kg/hr

- FOOD GRADE
- SHEET GRADE
- FIBER GRADE



PET Bottle to Bottle Turnkey Solution:Optical Sorting System+Hot Washing System +Efficient Water treatment system
Turnkey Working Project can be visited
Customize the recycling system based on the situation of the raw materials to meet FDA standard.

RAW MATERIAL



PRODUCTS



ESTIMATED PLANT PARAMETERS

MODEL	Capacity(KG/H)	Power Consumption Per Ton	Steam Consumption Per Ton	Detergent Consumption Per Ton	Water Consumption Per Ton	Space(M²)
PET 1000	1000	180-250kwh	250-400kg	4-8kg	1.5-2t	1200
PET 2000	2000					1400
PET 3000	3000					2200
PET 6000	6000					2600



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production



one-stop service

PET 5A Flakes Washing System(Food Grade White Flakes Washing System)

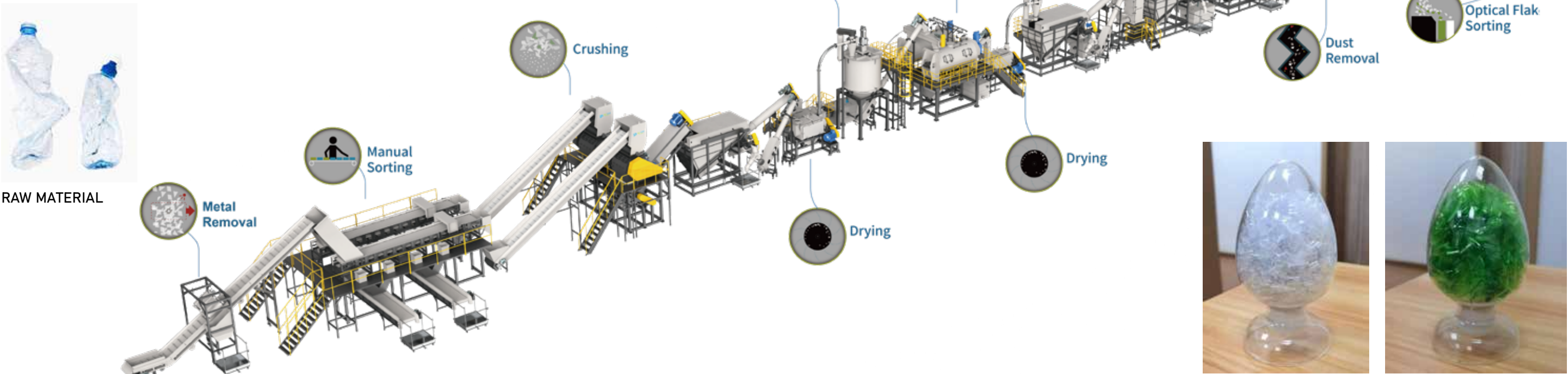


PROJECT INTRODUCTION

PET is one of the most popular and used plastic packaging materials in the world. It is also one of the most dominant waste types in the ocean. However, used PET bottles should not be seen as waste, as they are 100% recyclable. The PET can be heated and molded into numerous shapes. It is a clean, safe, and convenient packaging method. This makes it easy and sustainable to turn PET packaging into a circular economy, also called a closed loop.

PROCESSING FLOW :

Optical Bottle Sorting→Manual Sorting→Crushing→Dust Removal→Flotation Hot washing→Friction Washing→Rinsing→FlushingWashing→Drying→Dust Removal→Optical Flakes Sorting→Blending→Online Inspection→Packing
Ps.A standard sampling of food-grade/filament-grade PET bottle recycling process,equipment configuration and the process will be optimized according to raw materials



FOOD GRADE FLAKES

PET Bottle to Bottle Turnkey Solution:Optical Sorting System+Hot Washing System +Efficient Water treatment system
Turnkey Working Project can be visited
Customize the recycling system based on the situation of the raw materials to meet FDA standard.

RAW MATERIAL





PRODUCTS





ESTIMATED PLANT PARAMETERS

MODEL	Capacity(KG/H)	Power Consumption Per Ton	Steam Consumption Per Ton	Detergent Consumption Per Ton	Water Consumption Per Ton	Space(M²)
PET 1000	1000	180-250kwh	250-400kg	4-8kg	1.5-2t	1200
PET 2000	2000					1400
PET 3000	3000					2200
PET 6000	6000					2600

 SMART intelligent control

 High safety protection: to protect personnel safety and equipment safety

 Lower energy consumption, higher production

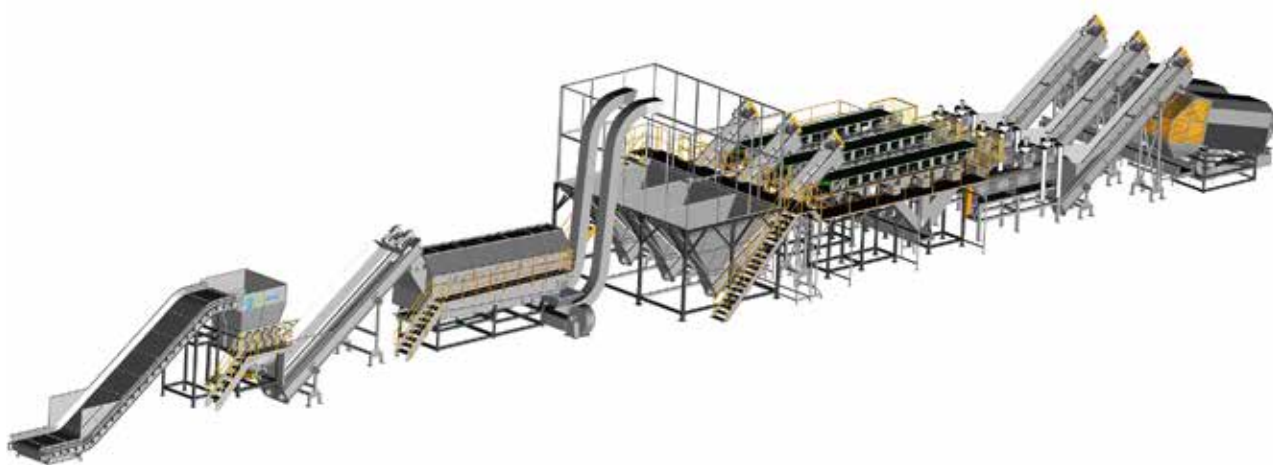
 one-stop service

The key washing process and technology for quality assurance of recycled PET

The key washing process and technology for quality assurance of recycled PET Maximizing synergistic effect The stable flake quality meets the specifications and quality required for downstream food-grade and recycled micro denier filament applications, favored by well-known brand owners.

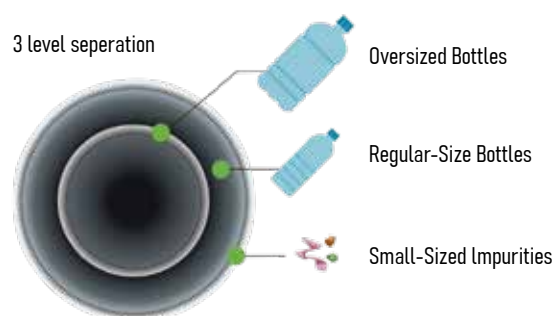
DE-BALING,SIEVING,AND WEIGHING MODULE

Excellent de-baling capability,sieving step by step The module integrates functions of conveying,de-baling,impurity removal,and screening.The chain conveyor with a large underground storage silo is convenient for forklifts to feed materials quickly.Excellent de-baling capability,real-time monitoring and big buffer silo and automatic adjustment of material feeding speed ensure that the production line runs smoothly at the rated throughput.Combined use of metal removal machine and trommel achieves simultaneous separation of oversized materials,fine impurities and bottles.



TROMMEL

The caps,rings,metal,mud,sand,oversized bottles and regular size bottles are separated through multiple sieving to achieve effective multi-size and large capacity separation.(the mesh size can be customized)-A maximum throughput of 10 tons/hour,with a missed sieving rate of <1%.



LABEL SCRAPPING MACHINE

Remove—95%of the labels and ~70%of the impurities on the bottle surface-Consumable parts are lightweight and modularized,allowing for its quick replacement.wrapped bottles and deformed bottles.

FOUR-AXIS HORIZONTAL DEBALER

Debaler machine adopts horizontal type, Debaler shaft is cast carbon steel, blades are made of high-strength steel, and can be disassembled to facilitate daily maintenance. The feeding belt supporting the unpacking machine can be converted to effectively prevent the phenomenon of unpacking stud. The Debaler is suitable for high density bottle bricks. Equipment operation process is simple, low energy consumption less labor.

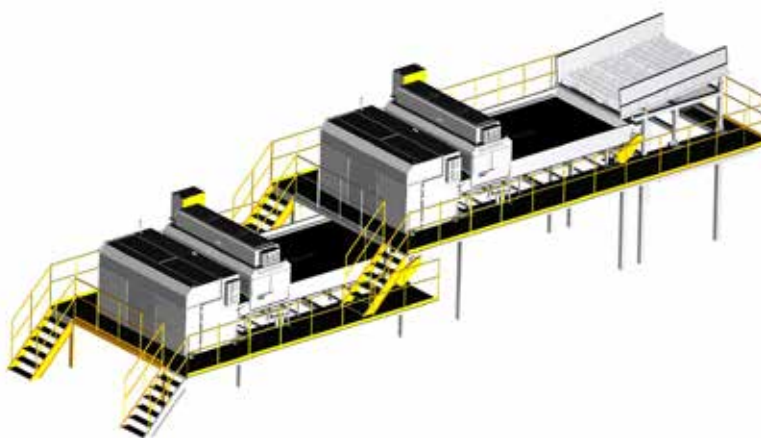
The Debaler is mainly for PET bottle recycling. Under normal circumstances, the bottle brick wire is cut manually first, the bottle brick is transmitted to the unloader through the conveyor belt machine or chain conveyor, and the bottle brick is dispersed in a loose state through the high-speed operation of the debaler shaft to enter the next step processing.



Optical Bottle Sorting Section

Polyretec provides optical sorting machine and integration solution by cooperating with well-known sorting device manufacturers across the world. On one hand, automatic optical sorting machine can reduce the management cost and man power requirement, and on the other hand guaranteeing the stability of sorting.

Non-PET, color bottles and metals can be detected and sorted out by NIR, optical sensor, optical camera and metal detector in this section. It provides guarantee the PET material's purity.



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



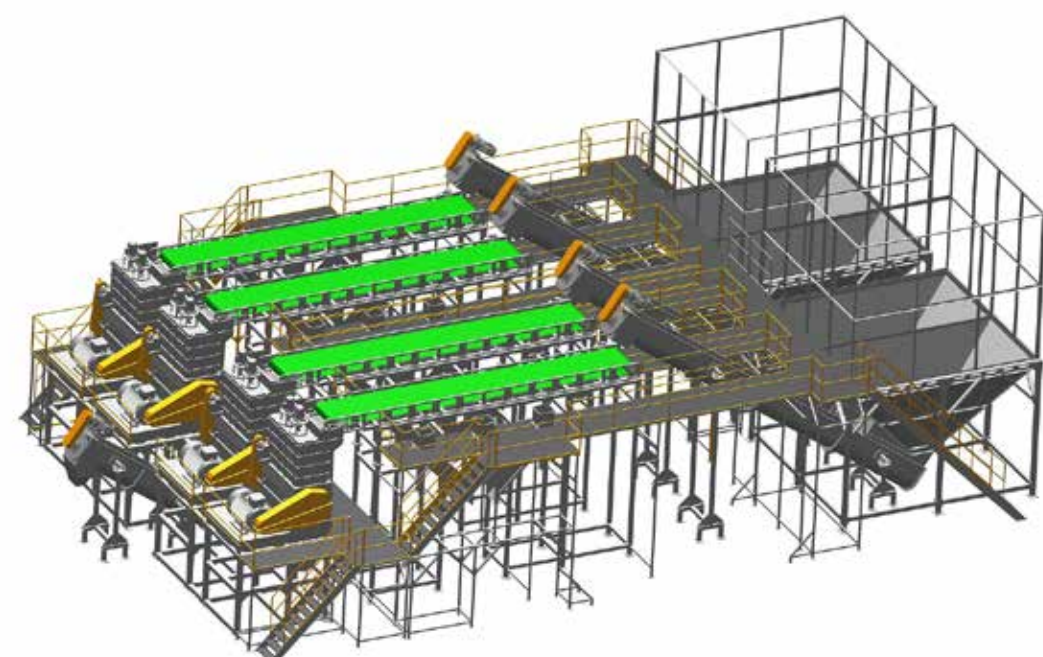
Lower energy consumption, higher production



one-stop service

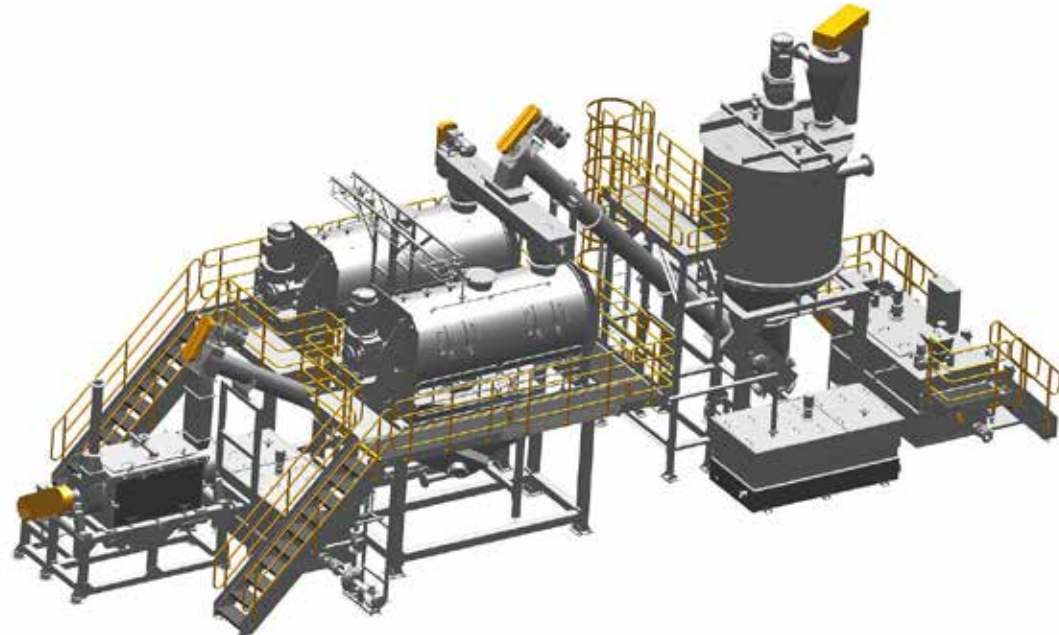
Manual Sorting and Crushing Section

Although automatic sorting can achieve high sorting efficiency, but it can not guarantee 100% sorting precision. For high-grade down stream application of PET flakes, manual sorting is still required at present. Especially for areas with relatively lower labor cost. Crushing unit grind PET bottles into flakes by relative mechanical motion of blades. polyretec grinder adopts the wet crushing which achieves the washing effect through water added; on one hand, it can reduce the temperature due to generated friction and reduce the abrasion of the blades too; and moreover, it reduces the loss of the powder. Polyretec also provide sound-proof solution to protect operation labor from noise damage.



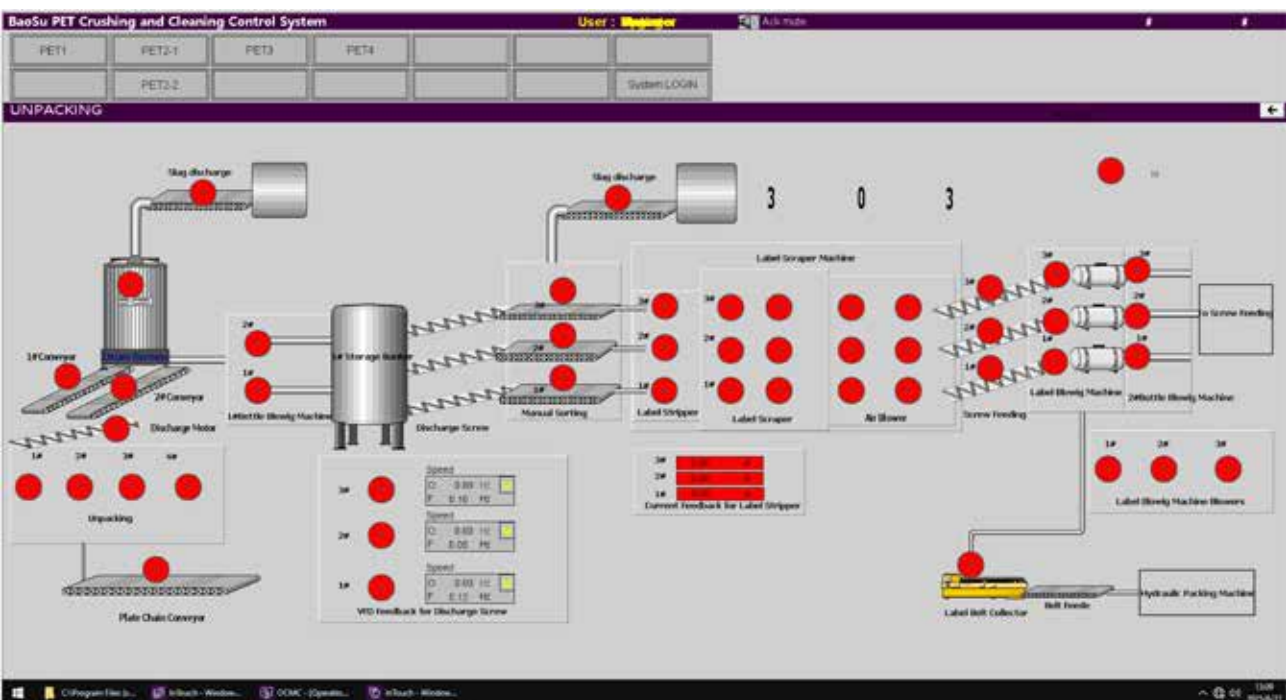
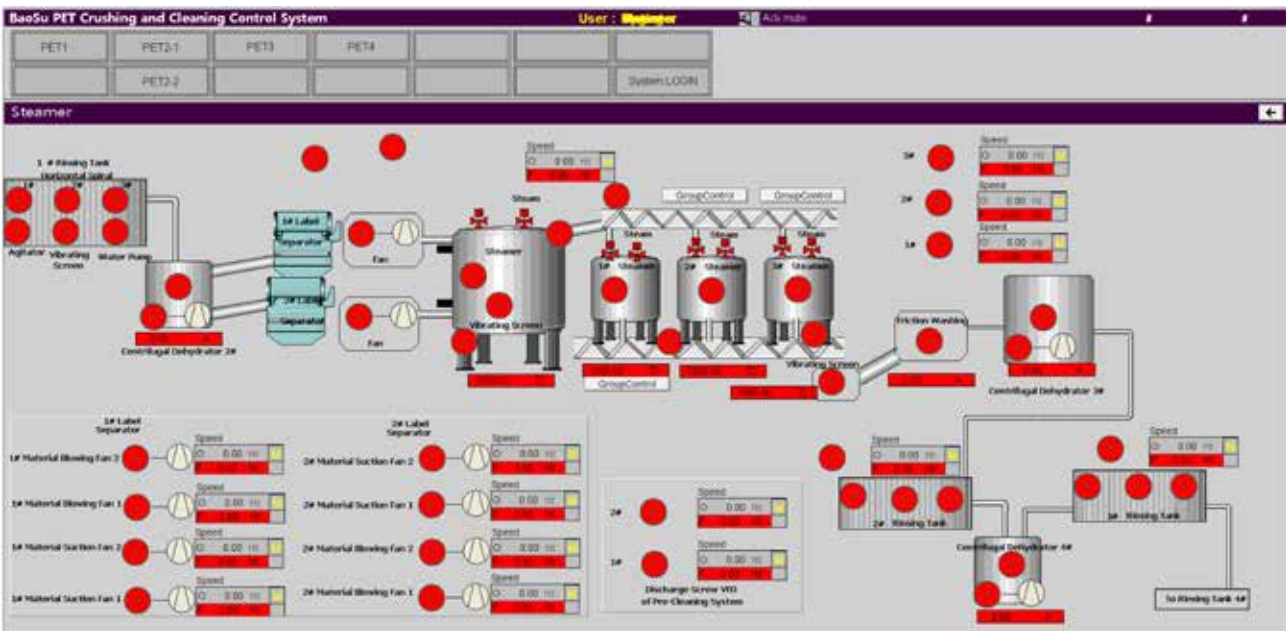
Hot Washing Machine


The long residence time in the hot washing tank has a marked effect on softening adhesives on flakes. The patented design of the special paddle generates high-speed water flow that acts on the flakes, removing dirt and impurities, and peeling off labels and adhesives on their surface. The friction generated by the special mechanical design greatly improves the flake-washing effect, and the stunning washing performance improves the yield rate.





Customized Intelligent Control System


Functions:
Monitoring Production Data Statistics User Management Intelligent Production Maintenance Reminding Data Collection Breakdown Precaution



 SMART intelligent control

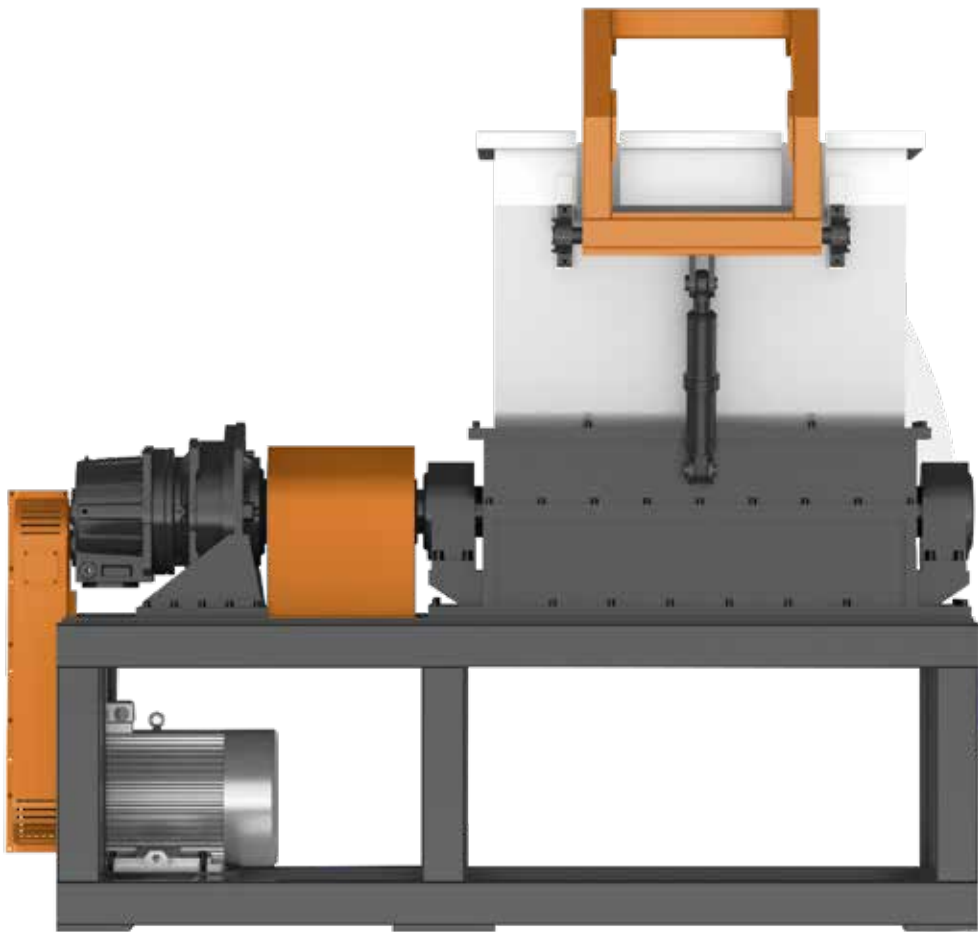
 High safety protection: to protect personnel safety and equipment safety

 Lower energy consumption, higher production

 one-stop service

Pre-shredder

Pre-treatment for Waste Management Simple structure.
Best for debaling mixture of waste.Saves labour for early-stage treatment A pre-shredder (pre-crusher) is suitable for the early shredding and working as a debaler of particularly bulky or voluminous materials in bales. One typical example would be disintegrating plastic film in bundles at the beginning of a recycling line. The benefits of preshredder includes wear-off reduction to the proceeding machines and relieving the workload.Pre-shredder Applications A mixture of domestic and industrial waste Mattresses and textiles Pressed bales of scrap Plastic waste and plastic rolls or in bales (e.g. PET bottles, PP bags, plastic films and compressed plastics)End-of-life car and truck tires



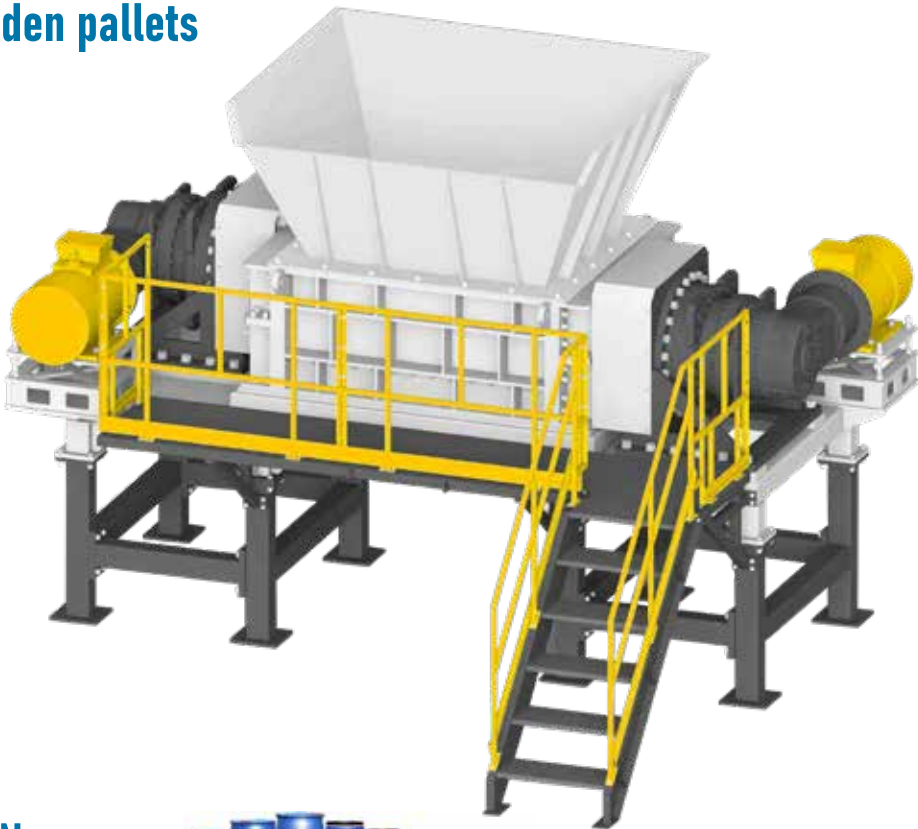
ESTIMATED PLANT PARAMETERS

Mode	Rotor /mm	Width/mm	Power/kw	Capacity Kg/h
PC6100	600	1000	45	500
PC6130	600	1300	55	1000-1500
PC8150	800	1500	75	2000-3000

Double-shaft shredder



Raw materials: waste cars, tires, electronic waste, wooden pallets



PROJECT INTRODUCTION

The double-shaft shredder is designed to deal with various garbage of different materials, like scrapped cars, tires, electronic waste, wooden trays. The geometry of the blade can be customized according to the material processed. Two reverse rotating shafts with special design blades and the spacing comb between the blades and connected to the inner wall of the shredder, greatly cut the material into flakes.



ESTIMATED PLANT PARAMETERS

AxB (mm)Crushing chamber	1300x995	1500x995	1500x1150	1800x1150	1500x1450	1800x1450	2200x1450
Rotor diameter (mm)	515	515	610	610	750	750	750
Rotor speed (RPM)	8.3	8.3	7.5	7.5	6.3	6.3	6.3
Blade thickness (mm)	50/75/100						
Rotor knife qty (pcs)	26/17/13	30/20/15	30/20/15	36/24/18	30/20/15	36/24/18	44/29/22
Motor Power (kW)	30+30	37+37	45+45	55+55	75+75	90+90	110+110
LxWxH Dimension (mm)	4590x2210x2600	4890x2210x2600	5150x2270x2600	6340x2610x4000	6993x3045x4000	7110x3342x4000	7986x3284x3760
Weight (kg)	9500	11000	24000	27700	27000	32000	38000



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production



one-stop service

HS SERIES BIG SIZED SINGLE SHAFT SHREDDER



PRODUCT PROFILE

HS series is big sized single shaft shredder with large internal volume.The redesigned hydraulic pusher not only improves the power transmission and pushing speed,but also effectively avoids the occurrence of material blocking and the wear of the internal guide rails.This specially designed device creates about 35%more space in the cutting chamber.This series shredder adopts high-efficiency V type rotor design.The minimum width of the rotor is 1200mm,the maximum width is 2000mm,and the rotation diameter is 560mm.The rotor is driven by an oversized gearbox.The low speed of 85rpm ensures smooth running with high torque.The hydraulic station is tightly integrated with the shredder chamber,which saves space and protects the hydraulic station.It is also easy to replace and maintain.The whole machine is welded by a special welding process,which can greatly improve the stability of the whole machine and can effectively prevent splashing.At the same time,the HS series has all the advantages of other shredders,including the specia design of rotor knives and knife holders,external bearings,and convenient and advanced intelligent control systems.

HS series shredder is designed to meet the requirement of waste recycling in various industries,including bulk materials,pipes,films,woven bags,and all kinds of electronic cable scrap,ICB buckets,waste paper,used wood and various organic materials.

APPLICATION

Plastic lump, plastic sheet, PE film, PP woven bag, PET bottle, industrial waste paper, wood pallet, circuit board, aluminum material, copper material, wire, cable, etc.

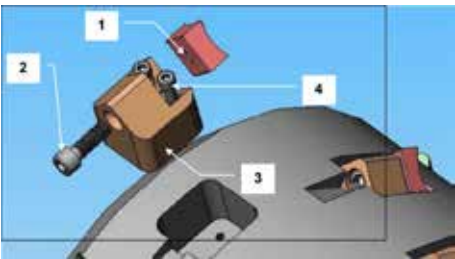


ESTIMATED PLANT PARAMETERS

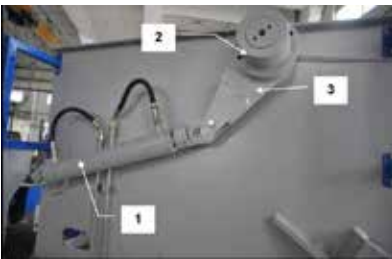
Item		Unit	Hs1200	Hs1600	Hs2000
Rotor diameter		mm	560	560	560
Number of rotor knives		pcS	105/112+29	136/148+38	180/192+49
Number of stator knives		pcS	2x3	2x4/2x3	2x5
Hydraulic feeding ram		kw	5.5	5.5	7.5
Feed opening		mm	1200x1850	1570x2025	1960x1570
Standard screen		mm	40-100	40-100	40-100
Chamber size		mm	800x1000	800x1290	800x1860
Motor		Kw	90	110	75x2
Weight		kg	9000	11000	13000
	Length a	mm	2245	2245	2245
Machine Measure	Width b	mm	2570	2960	3300
	Height c	mm	2390	2390	2390



(1) Pusher
(2) Rotor



(1) Rotor knife
(2) Knife mounting screw
(3) Knife holder
(4) Knife holder mounting screws



(1) Hydraulic cylinder
(2) Bearing with clamping
(3) Arm

PTC SERIES CRUSHER

Crusher Machine
20-40% Higher output and lower energy consumption.
V-Shaped improves cutting recycling efficiency and reduces dustcontent in recycled material.
Anti-wear plate and external bearing designed



ESTIMATED PLANT PARAMETERS

ITEM		UNIT	PTC500/700	PTC700/1000	PTC700/1200	PTC800/1600
Rotordiameter		mm	500	700	700	800
Rotor width		mm	700	1000	1200	1600
Number of stator knives		pcs	5x2	5x2/7x2	5x2/7x2	5x4/7x4
Number of stator knives		row	2	2	2	2
Chamber size		mm	500x700	700x1000	700x1176	800x1600
Motor power		kw	45	75	90	160
Machine Measure	Length a	mm	2230	2530	2750	3150
	Width b	mm	1630	1990	2230	2710
	Height c	mm	3450	3600	3700	3900



Squeezing machine/Single Screw Melter

The robust way to chemical recycling.

Squeezing dry efficiency reach 97%.

PRODUCT PROFILE

this plastic PP PE film bag squeezer is used for squeezing and re-pelletizing PP/PE film, woven bag, ton bags, nylon etc. it's equipped with advanced screw extrusion system, squeezing efficiency could reach 97%. Also can work on the accordance with washing and pelletizing line with stable capacity and whole process automation.

- 1. LDPE waste film recycling and washing line
- 2. PE agriculture using films crushing and washing line
- 3. Waste PE film recycling line
- 4. Ethylene ground film washing, drying and regranulating line
- 5. Waste f
- 6. PP wav



SMART intelligent control



High safety protection: to protect personnel safety and equipment safety



Lower energy consumption, higher production

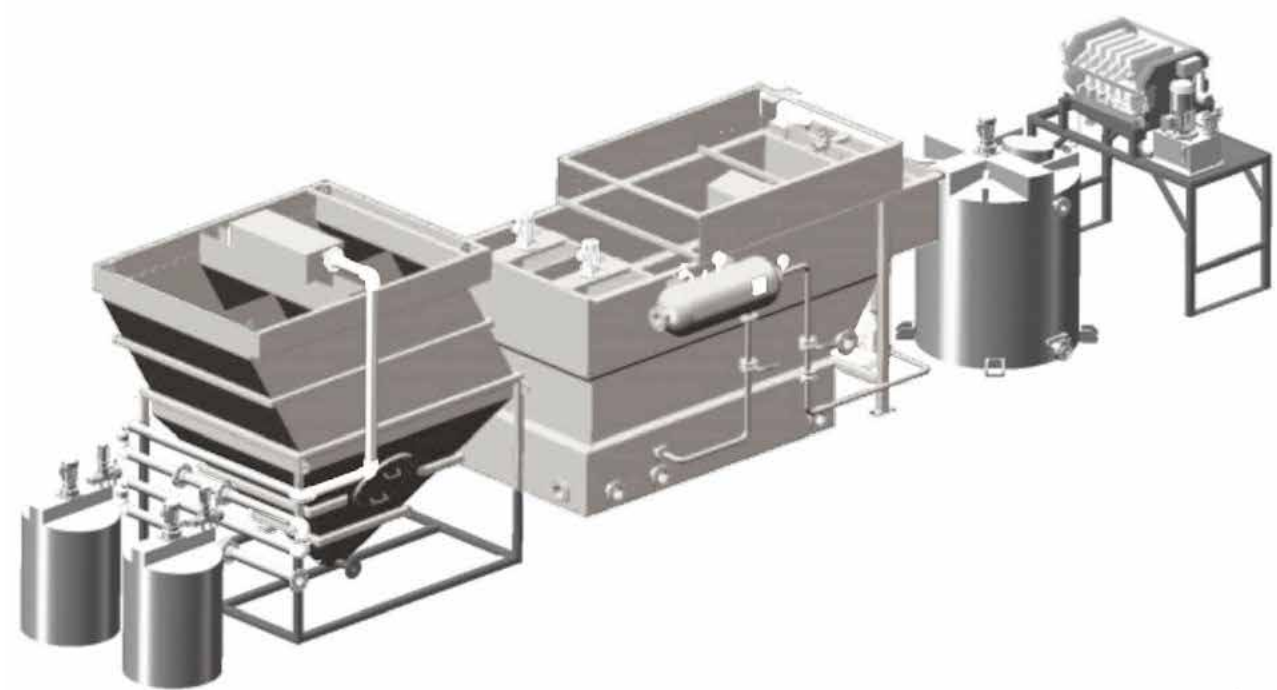


one-stop service

Water Treatment System

The waste water of plastic crushing washing line mainly comes from the raw materials Washing water, with a large amount of water and a large amount of suspended solids and impurities in the water The composition of suspended solids is relatively complex, with heavy impurities such as sediment, There are also lighter impurities such as waste plastic debris, and the turbidity of the water is relatively pretty High, in order to save water resources and protect the environment, it is chosen The production wastewater is treated and reused for energy-saving and environmental protection purposes in production The method is an optimal choice.

According to the water quality of the waste water from the plastic recycling, crushing, washing line After considering various wastewater treatment processes comprehensively, a grid is adopted The process of efficient sedimentation, air flotation, and pressure filtration is used for production after treatment Reuse.



ESTIMATED PLANT PARAMETERS

Name	Water flow m³	SS(mg/l)	PH	Mud cake water
Inlet water	10	3000	10-11	≤ 50



Auxiliary Machines



Heating&friction washer



Pelletizer



Screw loader



hot melter



water flush pelleting system



Cooling tank



EPS pelletizing line



Shredder &Crusher system