

PET 瓶片造粒生产线

PET Flakes Pelletizing Production Line

Production Process:

Conveying feeding → Pre crystallization and drying → Conveying feeding → Metal detector → Parallel twin screw extruder → Hydraulic screen changer → Plastic strand die head → Water cooling tank → Dryer → Plastic strand cutter → Storage silo

生产流程:

输送上料→预结晶干燥→输送上料→金属检测→平行双螺杆挤出机→液压换网→拉条模头→冷却水槽→干燥→切粒机→料仓



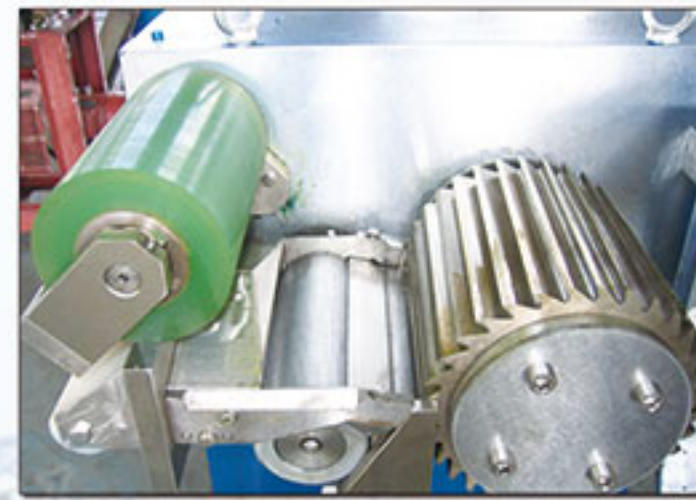
Plastic Strand Die Head
拉条模头



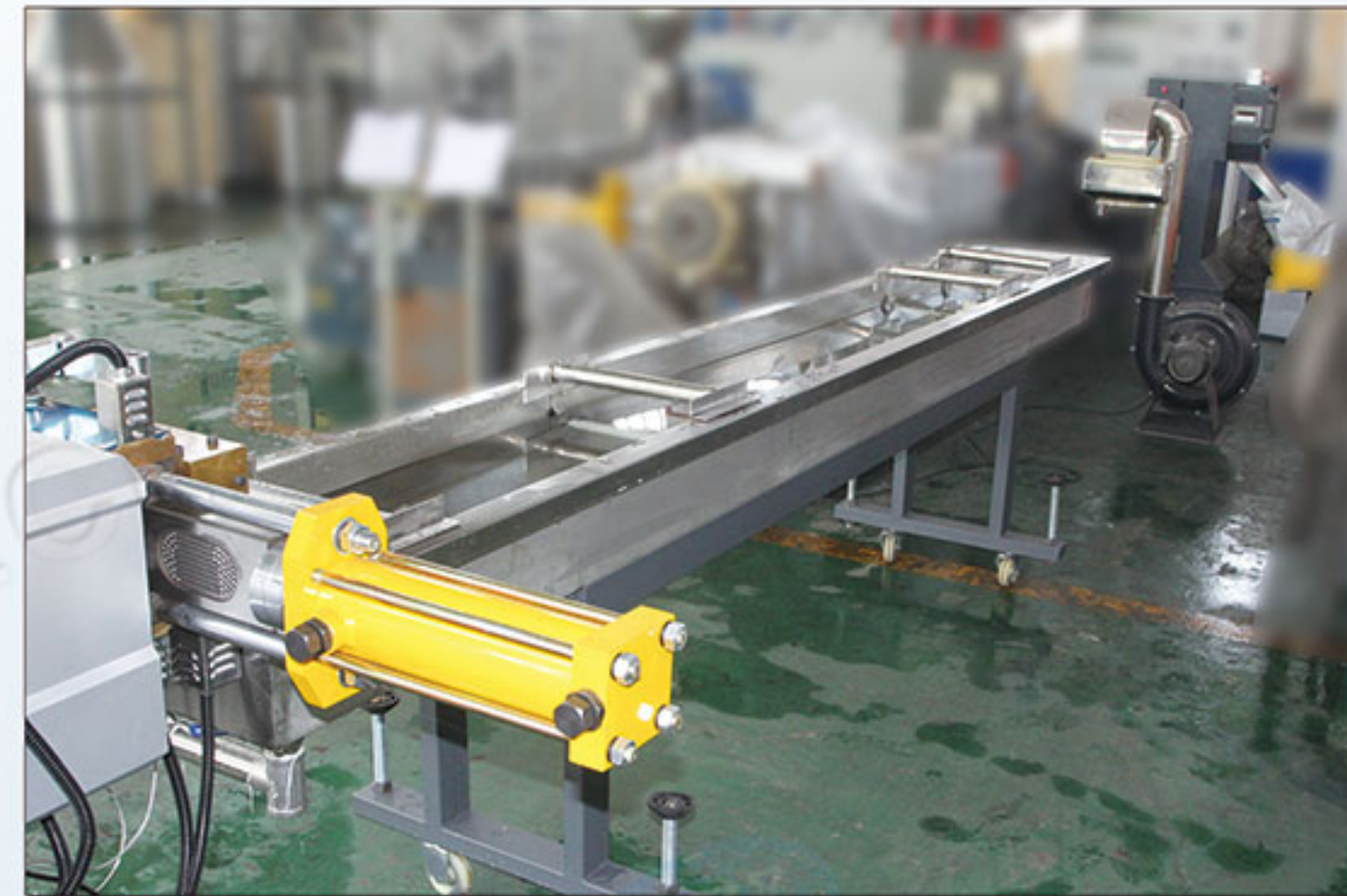
Water Tank
水槽



Drying Blower
吹干机



Cantilever Pelletizer
悬臂式切粒机



产品参数 Specification	SJPT20	SJPT35	SJPT50	SJPT65	SJPT72	SJPT92
Screw Dia(mm)(螺杆直径)	21.7	35	50.5	62.4	71.2	21.7
Rotata speed(mm)(转速)	600	400	400/600	500/600	400/500	400/500
Motor Power(主电机功率)	4	18.5	55	75	110	250
L/D(长径比)	32-40	28-48	28-40	28-48	28-48	28-40
Capacity(kg/h)(产量)	2-10	5-30	40-80	100-300	300-600	600-1000

注:具体产量和设备配置视材料而定。 The above is just for reference, the real capacity or specifications dependent on your exclusive material.

薄膜/纤维/纱线 异向平行双螺杆造粒线

Film/Fiber/Yarn Counter-rotating Twin-screw Pelletizing Machine

Applicable Plastic Material:

This equipment is mainly used for granulation of materials such as PP fiber, ton bag, woven bag,Yarn, film, Irrigation pipe etc. The twin-screw rotating in opposite directions produces a powerful "positive displacement pumping"effect,Can forcefully grasp and transport materials like a gear pump.This is a decisive advantage for the treatment of light, fluffy recycled materials such as film,fiber and foam that are easy to slip and bridge in a single screw.Because the feeding port is large, it is particularly suitable for that fluffy material.



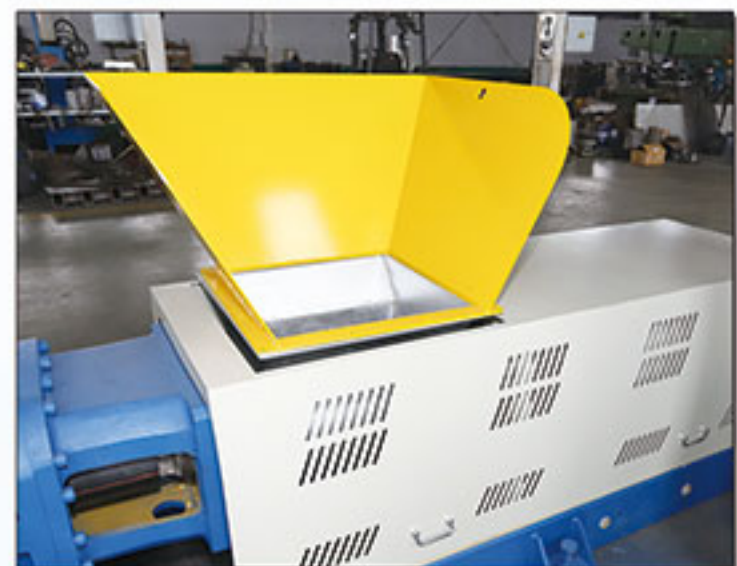
使用原材料:

本设备主要用于PP纤维、吨包袋、编织袋、纱线、薄膜、滴灌管等物料的造粒加工。反向旋转的双螺杆可产生强劲的“正排量泵送”效应，能像齿轮泵一样有力地抓取和运输材料。对于薄膜、纤维、泡沫等质轻蓬松、易打滑架桥的回收料，在单螺杆设备中难以处理，而本设备这一特性具备决定性优势。



高效输送
Efficient transportation

Positive displacement forced conveying of opposite direction flat twin-screw, with a volumetric efficiency of 95%+, low speed and high production capacity.
异向平行双螺杆正位移强制输送，容积效率95%+，低速高产。



深度适配
Deep adaptation

Specialy designed for LDPE agricultural film, PP ton bags, PP fibers and other fluffy materials (ultra deep groove, large feeding port, reduced speed ang) winding).
针对LDPE农膜、PP吨包袋、PP纤维等蓬松料专属设计（超深槽、大喂料口、降速防缠绕）。



三级分工
Three level division of labor

First stage: Counter-rotating parallel twin screw for melting; -second stage short single screw coarse filtration -third stage short single screw fine filtration and pressure building, with specialized precision in each section.
一级异向平行双熔混→二级短单螺杆粗滤→三级短单螺杆精滤建压，各段专精。



极致节能
Ultimate Energy Efficiency

Zero back pressure design+permanent magnet servo motor+electromagnetic heating, reducing power consumption by 30-40% compared to the industry average per ton.
零背压设计+永磁伺服电机+电磁加热，吨耗电较行业平均降低30-40%。

NEVER STOP TO IMPROVE THE QUALITY AND SERVICE
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PELLETIZING PROJECT SOLUTIONS

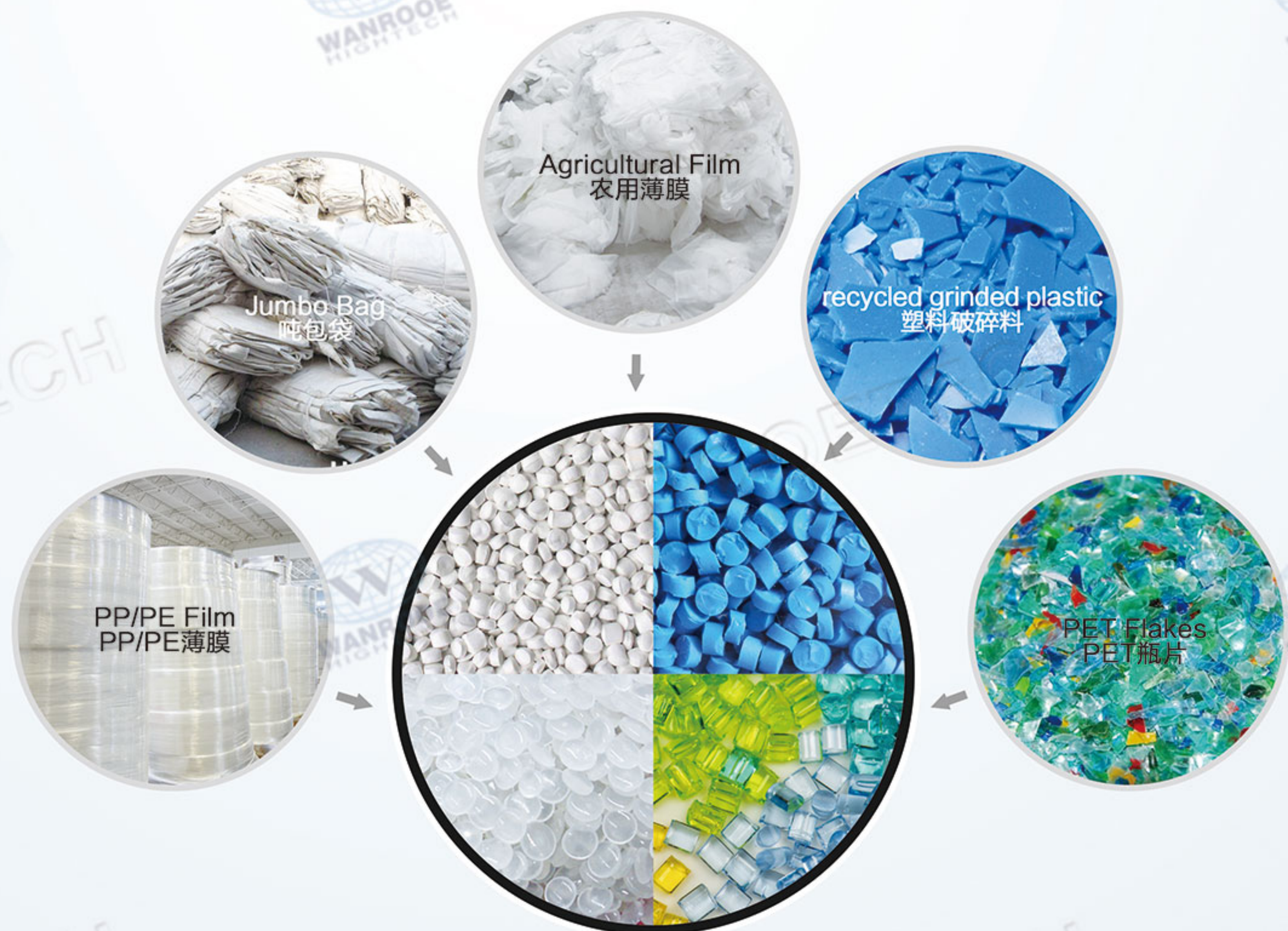
造粒解决方案

适用于农用薄膜，编织袋，印刷膜，购物袋；塑料破碎料，团粒料，塑料薄膜破碎料；瓶片破碎料等；



PP, LDPE, LLDPE, HDPE, BOPP, PET flakes, Recycled Grinded Plastic, Plastic material from agglomerator, grinded plastic film etc.

RECYCLING SOLUTION



PP/PE 薄膜,编织袋团粒造粒生产线(单阶)

PP/PE Film,Woven Bag Compactor-Pelletizing Machine(Single-Stage)

Applicable Plastic Material:

PP, LDPE, LLDPE, HDPE, BOPP etc.
Material Status: woven bag, Printed plastic film (Rolls, loose, bundled), agriculture film, foamed plastic, etc. The above material will be agglomerated, and then fed into the extruder machine; thanks to the agglomerator, the extruder can achieve the MAX capacity, and the capacity range about: 100-1000kg/h.

使用原材料:

农用薄膜, 编织袋, 印刷膜, 购物袋等。
PP/PE薄膜团粒造粒回收生产线适用于农用薄膜, 编织袋, 印刷膜, 购物袋等回收造粒, 物料经团粒机破碎, 升温, 密实后, 然后送入挤出机进行挤出, 实现产能最大化地释放。
产量为: 100-1000KG/H.



皮带输送 Feeding
Plastic material is conveyed into the compactor chamber by belt conveyor, as to rolls films, roller hauling off device is optional device.
原材料由输送带输送到团粒机, 整卷的薄膜牵引装置是可选配置。



团粒机底座 Agglomerating/Compacting chamber
The rotating blades crush the raw material into scraps. Then send it into extruder screw barrel by centrifugal force.
刀片高速转动, 将原材料切成小片, 通过离心力输送到挤出机料筒处。



密实仓造粒主机 Extrusion pelletizing system
38CrMoAl screw & barrel nitrogen treatment, double vacuum exhaust, more effectively remove moisture from the material to ensure pellets quality.
38CrMoAl螺杆和机筒氮化处理, 双重真空排气, 更有效地去除物料中的水分, 以确保颗粒质量。

PET/PP 纤维,面料,无纺布造粒生产线

PET/PP Fiber, fabric, non-woven fabric Pelletizing Machine

Applicable Plastic Material:

PP fiber, polyester fiber, PA fiber, PET fiber, PP non-woven fabric.
This fiber granulation line is designed specifically for the modification and regeneration granulation of various fiber materials, suitable for various raw materials such as chemical fiber waste silk, waste fabrics, non-woven fabrics, etc. It adopts special forced feeding and optimized screw structure, effectively solving the problems of fiber fluffiness, easy entanglement, and easy bridging. The equipment has sufficient plasticization, uniform mixing, dense and round particles, and excellent mechanical properties of the finished product.
Capacity: 200-1000kg/h.

使用原材料:

PP纤维, 涤纶纤维, PA纤维, PET纤维, PP无纺布。
这款纤维造粒线专为各类纤维物料改性及再生造粒设计, 适配化纤废丝、废料织物、无纺布等多种原料, 采用专用强制喂料与优化螺杆结构, 有效解决纤维蓬松、易缠绕、易架桥难题。设备塑化充分、混炼均匀, 颗粒密实圆润, 成品力学性能优异。
产量: 200-1000KG/H.



挤出系统 Extrusion System



双工位液压换网器 Melt filter system
Equip hydraulic automatic non-stop screen changing filter system, with automatic pressure alarm device.
配备液压自动不停机换网系统和自动压力报警装置。



水下切粒系统 Underwater Particle Cutting System
The material cools instantly when it enters the water, without sticking to the knife, dragging the wire, or clumping, and the cutting is smooth without blockage.
物料入水瞬间冷却, 不粘刀、不抱丝、不结块, 切粒顺畅无堵料。

产品参数 Specification	PNHS-150/120	PNHS-180/160	PNHS-200/180
Screw Dia (mm)(螺杆直径)	150	180	200
L/D(长径比)	25-33	25-33	25-33
Capacity(kg/h)(产量)	400-500	450-700	500-1000

注:具体产量和设备配置视材料而定。 The above is just for reference, the real capacity or specifications dependent on your exclusive material.

PP/PE/ABS 破碎料造粒生产线(单阶)

Recycled Grinded Material Pelletizing Machine (Single-Stage)

Applicable Plastic Material:

Recycled Grinded Plastic, Plastic material from agglomerator, ground plastic film, Single-stage pelletizing machine is mainly used for common plastic pelletizing;
Capacity: 150- 1000kg/h.

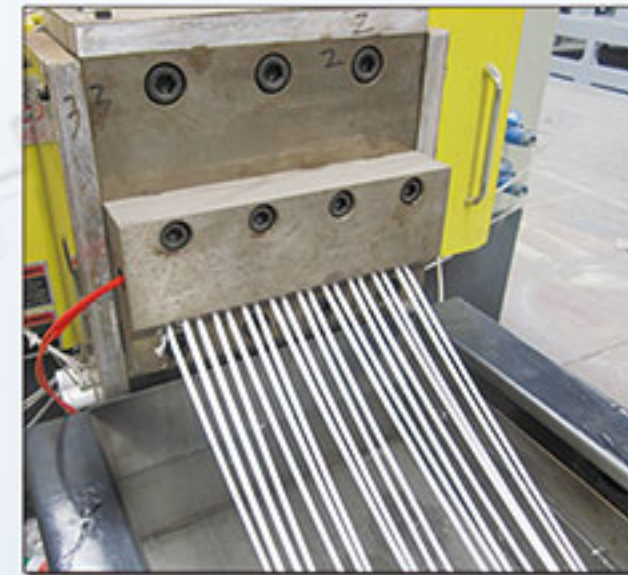
使用原材料:

塑料破碎料, 团粒料, 塑料薄膜破碎料等;
单阶式回收造粒生产线主要适用于一般的废旧塑料回收造粒;
产量:150-1000KG/H.



Water ring pelletizer 水环切粒

Water Ring Die Face Cutting System is used for PC, PET, easy maintenance and operation, output granules are much more beautiful!
水环切粒系统适用于LLDPE、HDPE、PP、PS、ABS,维护操作方便,输出颗粒匀称美观!



Noodle type pelletizing 拉条造粒

Spaghetti Cutting Method is used for PC, PET, compounding, masterbatch, etc, much more widely used.
拉条造粒广泛适用于PC、PET,复合改性造粒, 色母造粒等, 用途广泛。



产品参数 Specification	PNHS-65D	PNHS-90D	PNHS-100D	PNHS-120D	PNHS-150D	PNHS-200D
Screw Dia (mm)(螺杆直径)	65	90	100	120	150	200
L/D(长径比)	28-33	28-33	28-33	25-33	25-33	25-33
Capacity(kg/h)(产量)	60-80	80-120	100-180	200-300	300-500	500-800

注:具体产量和设备配置视材料而定。 The above is just for reference, the real capacity or specifications dependent on your exclusive material.

PP/PE/ABS 破碎料造粒生产线(双阶)

Recycled Grinded Material Pelletizing Machine (Double-Stage)

Applicable Plastic Material:

Recycled Grinded Plastic, Plastic material from agglomerator, ground plastic film. Double stage pelletizing machine is mainly used for higher water content and contamination waste plastic, first stage extruder adopts exhaust type barrel, the screw which can effectively de-gassing and eliminate moisture and contamination; and the baby extruder usually adopt small L/D extruder, further plasticizing the material and filter contamination which can achieve stable extrusion.
Capacity: 150-1000kg/h.

使用原材料:

塑料破碎料, 团粒料, 塑料薄膜破碎料等。双阶式回收造粒生产线主要适用于含水率和物料杂质含量较高的废旧塑料回收造粒; 第一阶挤出机采用排气式机筒, 螺杆, 可以有效脱挥、排除水汽、滤除杂质; 而第二阶挤出机一般采用长径比较短的挤出机, 进一步塑化喂料, 和过滤杂质, 实现稳定挤出回收。
产量: 150-1000KG/H.



不停机全自动换网器 Non-Stop Screen Changer

Equip hydraulic automatic non-stop screen changing filter system, with automatic pressure alarm device.
配备液压自动不停机换网系统和自动压力报警装置。



母机排料排气口 Mother Extruder Die Head

The Die Head have multi-holes which can make the plastic extruded like a noodle, and moisture in the material can exhaust completely, to make sure end plastic granules of high quality!
主机排料口有很多料孔, 挤出的料像面条一样, 这个过程使物料中的水份彻底排出, 使得成品颗粒质量更优质!



立式水环切粒机 Vertical Water Ring Pelletizer

Water-ring die-head cutting type, cutting speed frequency controlling, SKD material blade, pellets size uniform and beautiful.
水环切粒头, 切粒速度自由控制, SKD材料刀片, 切粒均匀美观。

产品参数 Specification	PNHS-80/80	PNHS-100/100	PNHS-130/130	PNHS-160/160	PNHS-180/180
Screw Dia (mm)(螺杆直径)	85	100	130	160	180
L/D(长径比)	25-36	25-36	25-33	25-33	25-33
Capacity(kg/h)(产量)	120-180	200-250	400-500	450-700	500-1000

注:具体产量和设备配置视材料而定。 The above is just for reference, the real capacity or specifications dependent on your exclusive material.