

APPLICATIONS

产品应用 >>>

Focus On The Field Of Plastic Recycling Machine Manufacturing

专注再生塑料回收设备制造领域



COMPANY PROFILE

<<< 公司简介

格雷斯是专业生产塑料挤出和回收设备的供应商，运用科学、技术以及“人元素”的力量不断改进推动产品进步，为全球109个国家和地区的客户供种类繁多的产品及服务。

我们以“成为全球行业顶级供应商”为愿景，本着这一坚定信条的我们在最佳满足市场需求的同时，也在不断加强我们的竞争力。我们凭借多年的技术经验，研发能力，制造工艺以及模具工艺，以服务顾客为宗旨，在产品的设计和制造上都体现了客户的宝贵意见和市场的适用性。

臻于至善，悦仁服德、格雷斯期待与您合作！



4 个服务中心
Service Centre



26 个海外办事处
Overseas Offices



109 个国家和地区业务覆盖
Business Cover Countries & Regions

Grace machinery is a leading supplier specializing in quality extrusion products and complete recycling system. We constantly keep on improving our products by using science, technology and "human element" to provide a wide range of products and services to our customers from over 106 countries and regions.

Holding the vision of becoming a top plastic equipment supplier in the world, we not only try our best to meet the demand of the market perfectly, but also strengthen our competitiveness continuously. Relying on years of technical experience, R&D ability, manufacturing process and mold technology, we reflect the marketable applicability and opinion of customers both on the design and manufacture of our products based on the aim of serving customers.

截止目前已有**140+**条再生塑料回收设备在全球各地稳定运行

Up to now GRACE has more than **140** plastic recycling projects running all over the world

PET Bottle Washing Line

PET瓶回收清洗线



产品描述

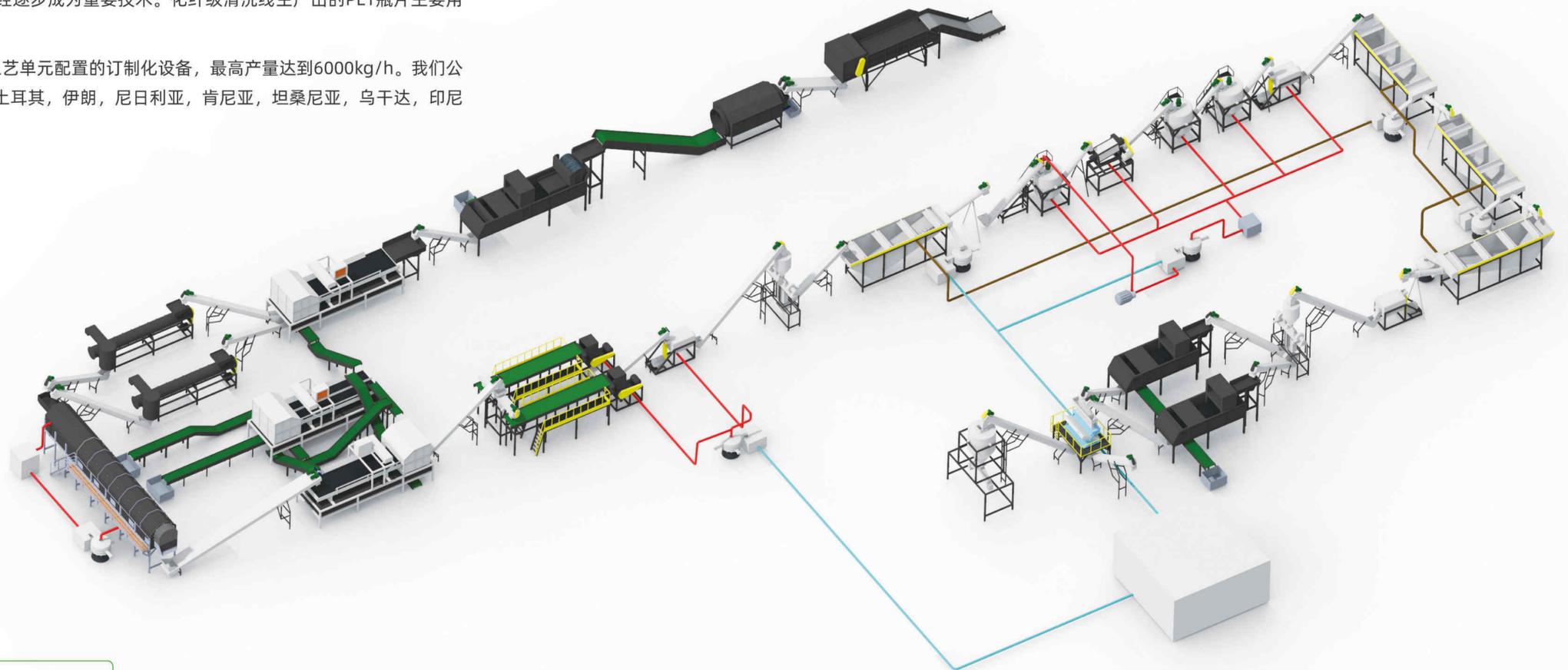
在涤纶短纤维技术快速发展的时代，再生纤维的生产技术已经逐步成为重要技术。化纤级清洗线生产出的PET瓶片主要用于二维或三维涤纶短纤，涤纶长丝，薄片等。

作为一家专业的PET清洗线制造商，目前已开发了数十种生产工艺单元配置的定制化设备，最高产量达到6000kg/h。我们公司产品已销往美国，以色列，波兰，匈牙利，俄罗斯，埃及，土耳其，伊朗，尼日利亚，肯尼亚，坦桑尼亚，乌干达，印尼等等。

PET瓶片下游应用

PET Flakes Application

食品级、瓶级、片材级、长丝级、化纤级
Food Grade, Bottle Grade, Sheet Grade
Filament Grade, Fiber Grade



智能操作
Intelligent Control System



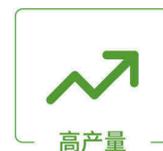
生产分析
Production Analysis



保护系统
Protection System



低能耗
Low Energy Consumption



高产量
High Capacity



服务支持
Service Support

Product Description

As rapid development of polyester staple fiber technology, PSF recycling production tech has become an important technology. PET flakes from fiber grade washing line are mainly used for producing 2-D or 3-D PSF, straps, sheet, etc.

As a professional PET washing line manufacturer, we already developed dozens of projects with customized configuration design and capacity up to 6000kg/h. Our machines have been exported to many countries and regions including USA, Israel, Poland, Hungary, Russia, Egypt, Turkey, Iran, Nigeria, Kenya, Tanzania, Uganda, Indonesia, etc.

技术参数

Technical Parameter

型号 Model	处理量 Capacity (kg/h)	用电量 Consumption (KW/h)	蒸汽量 Steam (kg/h)	药剂用量 Detergent(kg/h)	用水量 Water (ton/h)	安装功率 Installation Power (kW)	占地面积 Space (m ²)	工人(人/班次) Man Power (persons/shift)
PET500	500	70	300	10	0.75	190	600	4
PET1000	1000	140	500	12	1.5	340	800	4
PET2000	2000	280	800	15	3	390	1000	6
PET3000	3000	350	1000	25	4.5	520	1200	7
PET6000	6000	590	1200	40	9	920	2000	11

PE/PP Flake Washing Line

PE/PP硬杂料清洗线



Product Description

Grace customized integration of film shredding, crushing and washing solutions, it can be used in different levels of contamination materials, including PE PP film, PP fiber waste, waste film package scraps, life plastic waste, waste agriculture films, industrial packaging and waste films, Recycled material can be used for sales, granulation, injection molding, extrusion and blown film and so on. Currently available capacity is 300-1000 kg/h. In addition, Grace machinery also provides complete PE PP PS ABS and other rigid scraps, including injection toys, daily necessities and packaging waste, bottle-shaped container waste, electrical waste, extruded pipe, lumps and others. Available in Production capacity up to 5000kg/h.



技术参数·硬杂料

Technical Parameter - Flake

型号 Model	处理量 Capacity (kg/h)	用电量 Consumption (KW/H)	蒸汽量 Steam (kg/h)	药剂用量 Detergent(kg/h)	用水量 Water (ton/h)	安装功率 Installation Power (KW)	占地面积 Space (m ²)	工人(人/班次) Man Power (persons/shift)
PE500	500	120	0-150	0-8	0.5	160	400	4
PE1000	1000	180	0-200	0-10	1.2	220	500	4
PE2000	2000	280	0-400	0-12	3	350	700	5
PE3000	3000	330	0-500	0-15	4	410	900	5
PE5000	5000	360	0-800	0-18	5	480	1200	6

PE/PP Film Washing Line

PE/PP薄膜清洗线



产品描述

格雷斯为客户定制一体化的薄膜撕碎，破碎与清洗方案，设备可用于各种不同污染程度的PE PP薄膜，PP废丝，废包装塑料，生活垃圾塑料，废旧农膜大棚膜，工业包装膜和工业废弃膜的清洗回收。处理好的物料可用于销售，造粒，注塑，挤出和吹膜等。目前可提供生产线产能为300-1000公斤每小时。另外，格雷斯机械还提供整套PE PP PS ABS等硬杂料，包括，注塑玩具，日用品和包装废料，瓶状容器废料，电器废弃物，挤出管材，机头料等废弃物清洗回收方案。可提供生产线产量为500-5000kg/h。



技术参数·薄膜

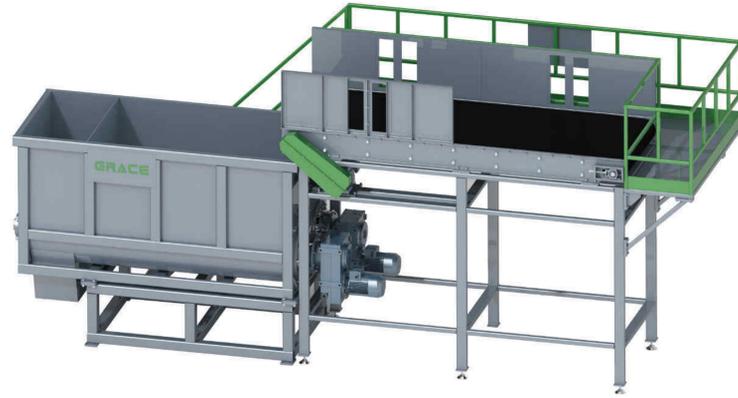
Technical Parameter - Film

型号 Model	处理量 Capacity (kg/h)	用电量 Consumption (KW/H)	蒸汽量 Steam (kg/h)	药剂用量 Detergent(kg/h)	用水量 Water (ton/h)	安装功率 Installation Power (KW)	占地面积 Space (m ²)	工人(人/班次) Man Power (persons/shift)
PE300	300	120	0-150	0-8	0.5	160	400	4
PE500	500	180	0-200	0-10	1.2	220	500	4
PE1000	1000	280	0-300	0-12	3	350	700	5

Efficient Plastic Bale Breaking Technology- Bale Breaker 扎装塑料高效强力拆包技术·拆包机

格雷斯根据不同地区PET瓶包块尺寸及打包密度等特性，研发了立式及卧式两种形态的解包机，瓶砖处理量最大至10000kg/h,解包机轴采用碳钢铸造，叶片采用高强度钢，叶片可拆卸。

格雷斯解包机分为双轴驱动和四轴驱动两种可供选择。配套进料皮带输送可变频，防止解包卡死现象，设备操作工艺简单，低能耗，少人工。



GRACE develops two types (Horizontal & Vertical breaker) of bale breakers on the basis of PET bottle baler dimension and materials conditions which capacity reach up to 10000 kg/h. Bale breaker shaft adopts carbon steel and paddles adopts alloy steel which is demountable.

GRACE Bale Breaker has two designs, one has two shafts, the other one has four shafts. Moving speed of belt conveyor and chain conveyor is adjustable, which can avoid clogging. Bale breaker has the features of simple operation process, low power consumption and less manpower.

型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
WSCB-600	3000kg/h	32.2kw	8000*3280*3470mm

Friction Dewatering Washer 摩擦脱水一体机

附着在PET瓶片表面的黏胶及混杂在瓶片中的细小杂质对PET的再利用都将产生重要的影响。摩擦机的作用就是将这些黏胶和细小杂质通过摩擦作用及离心作用从PET瓶片中分离，以获得更纯净的原料。

The glue attached on the flakes will affect the recycling application of the flakes. The function of fricton dewatering washer is removing the glue and small impurities from flakes by friction power to purify the PET flakes.



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
MS600	1500-5000kg/h	30kw	3510*1700*4030mm

Film Friction Washing Machine 薄膜摩擦清洗机

附着在薄膜表面的黏胶及混杂在瓶片中的细小杂质对薄膜的再利用都将产生重要的影响。摩擦机的作用就是将这些黏胶和细小杂质通过摩擦作用及离心作用从薄膜碎片中分离，以获得更纯净的原料。

The glue attached on the film will affect the recycling application of the films. The function of fricton washing machine is for removing the glue and small impurities from films by friction power.



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
DSX500-00	500-1000kg/h	22kw	3200*1500*4700mm

Floating Tank For Film 薄膜浮洗槽

此机主要用于农地膜、生活膜类的薄膜漂洗分离用，底部采用V型卸渣装置，清机时无需更换整箱水，只需打开底部碟阀，快速排出底部沉积泥沙及底渣即可。顶端叶片采用内箱式结构布局，运行更安全，针对农地膜原料，可配置环形除渣装置，可有效剔除物料中的植物桔杆、树根树叶等浮水杂质。

This machine is mainly used for rinsing and separating agricultural film and living film. The bottom adopts V-type slag unloading device. When cleaning the machine, it's no need to replace the whole tank of water, just open the bottom disc valve to quickly discharge the bottom sediment and bottom slag. The top blade adopts an inner box structure, which is safer to operate. For agricultural mulch material, an annular slag removal device can be configured to effectively remove floating water impurities such as plant stems, tree roots and leaves in the material.



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
FXB1500	500-1000kg/h	6.65kw	6000*1500*1260mm
FXB1800	1000-1500kg/h	7.7kw	6000*1800*1360mm

Zig-zag Separator

Z型风选机

PET粉末对下道产品的生产都会产生重要的影响，特别是PET瓶片的生产过程中，它对粉尘的要求条件极其苛刻。基于瓶片与细小粉尘之间的重力差，通过特殊内部结构与可调节风力的作用，从而将瓶片中的细微杂质和粉尘抽离。在上一道工序中仍残留的细碎标签，亦可通过该设备去除97%以上。

PET fine has an important on the next production of PET flakes. Especially for the production process of PET sheet, the requirement of PET fine is extremely strict. Dust-removal equipment can effectively separate more than 97% residual fines, small plastic labels or film in the flakes by taking advantage of the gravity between flakes and dust, pneumatic vacuum system and the internal structure specially designed.



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
FXZ 1200	3000kg/h	2.2kw*4	2400*2700*6500mm

High Speed Washer

高速洗模块



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
GSXMK1200-00	2000-5000kg/h	22kw*2	4200*1600*3800mm

Floating Washing Tank For PET

PET漂洗槽



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
PX1200	1000-2000kg/h	7.75kw	4000*1200*1900mm
PX1500	2000-3000kg/h	9.2kw	4200*1500*2100mm

Floating Tank For PET

PET浮洗槽



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
FXP1200	500-1000kg/h	6.75kw	6000*1200*1200mm
FXP1500	1000-2000kg/h	10kw	6000*1500*1260mm
FXP1800	2000-3000kg/h	13.7kw	6000*1800*1360mm
FXP2500	3000-5000kg/h	14.7kw	6000*2500*1800mm

Floating Tank For Rigid PP/PE

PE/PP浮洗槽



型号 Model	产量 Capacity	总功率 Power	外形尺寸 Dimensions
FXP1200	500-1000kg/h	8.25kw	6000*1200*1200mm
FXP1500	1000-2000kg/h	10.65kw	6000*1500*1260mm
FXP1800	2000-3000kg/h	10.65kw	6000*1800*1360mm
FXP2500	3000-5000kg/h	15.2kw	6000*2500*1800mm

客户案例 | Customer Case



PET IV Improvement Device Granulation Line

PET增粘造粒生产线



产品描述

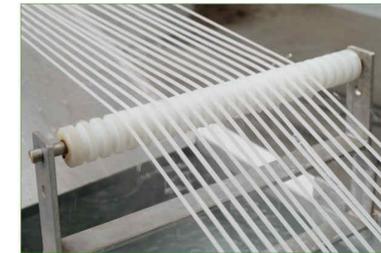
Product Description

PET造粒生产线一般是指使用再生瓶片料做原料，制取高品质PET再生切片，以供再制成PET相关产品，尤其是作为化纤纺织原料用量更大。由于PET瓶在饮料、餐具中被大量使用，也由于卫生等原因，只能一次性使用，所以回收PET瓶的设备一直是人们关注的。

PET Pelletizing Line generally refers to following process:

Use recycled PET bottle flakes as raw material to produce high-quality PET recycled pellets for remanufacturing PET-related products, especially for large amount of fiber textile raw material.

Since PET bottles are widely used in beverages and tableware, also because of hygiene and other reasons, they can only be used for one time. Therefore, PET bottle recycling equipment has always been a concern.



PE/PP Flake Granulation Line

PE/PP片料造粒生产线



产品描述

Product Description

随着塑料被应用于越来越多的领域, 针对不同领域的成本和性能要求的差异, 回收再生塑料应运而生。格雷斯通过自身的研发, 设计出针对各种注塑、吹塑、滚塑, 等硬质制品的回收再利用设备, 我们为用户提供多种选择方案, 不同长径比, 多排气螺杆结构, 单双阶子母机, 不同切粒方式, 可以提供生产线产量达到1000kg/h。

As plastic is applied in more and more areas, waste plastic recycling emerges due to diverse area difference of cost and performance requirement. Through the firm's own R&D efforts, Grace Machinery developed plastic recycling and granulation machines aiming at processing various rigid plastic products from injection moulding, blow moulding, rotational moulding, etc. Grace Machinery provides customers with various options, such as different L/D ratios, multiple exhaust screw structures, single and double stage design, different kinds of pelletizing die. Capacity up to 1000kg/h.



技术参数·单阶

Technical Parameter - Single Stage

设备型号 Model	产量 (kg/h) Output	能耗 (kwh/kg) Energy Consumption	主机功率 (kw) Main Power	螺杆直径 (L/D) Screw Outer Diameter	真空排气 Vacuum Exhaust	换网器 Screen Changer	水环造粒 Water-ring Granulation	拉条造粒 Cold Strand Granulation	水下造粒 Underwater Granulation
90	150-250	0.2-0.35	55-75	90 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
120	350-400	0.2-0.35	90-110	120 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
150	500-600	0.2-0.35	110-160	150 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
180	800-950	0.2-0.35	200-250	180 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option



智能操作
Intelligent Control System



保护系统
Protection System



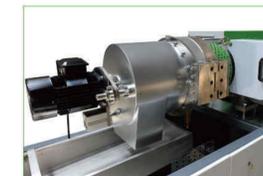
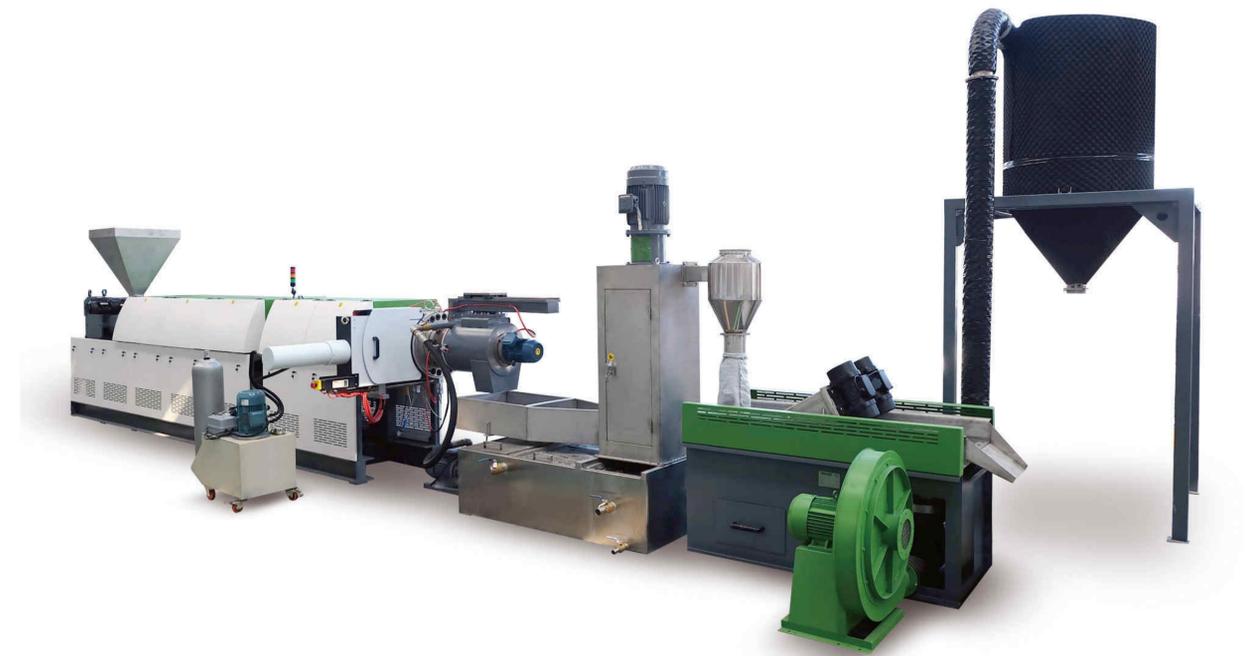
低能耗
Low Energy Consumption



高产量
High Capacity



服务支持
Service Support



技术参数·双阶

Technical Parameter - Double Stage

设备型号 Model	产量 (kg/h) Output	能耗 (kwh/kg) Energy Consumption	主机功率 (kw) Main Power	螺杆直径 (L/D) Screw Outer Diameter	真空排气 Vacuum Exhaust	换网器 Screen Changer	水环造粒 Water-ring Granulation	拉条造粒 Cold Strand Granulation	水下造粒 Underwater Granulation
90+90	150-250	0.2-0.35	55+30	90 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
120+120	350-400	0.2-0.35	90+45	120 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
150+150	500-600	0.2-0.35	110+55	150 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
180+180	800-950	0.2-0.35	200+75	180 (28-30:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option

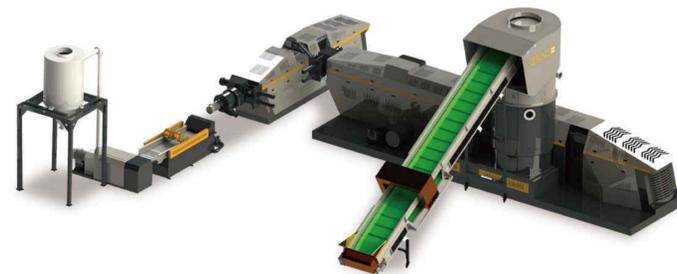
PE/PP Film Agglomeration and Granulation Line

PE/PP薄膜团粒造粒生产线



产品描述

回收再生塑料技术的出现，避免了大量塑料被焚烧或者填埋而造成的污染环境、延长了塑料的生命周期。格雷团队针对包装膜、地膜、编织袋、购物袋等原料，我们为用户提供多种选择方案，独特的团粒喂料技术，不同长径比，多排气螺杆结构，单双阶子母机，多种切粒方式，目前可以提供产量为100-1000kg/h的解决方案。



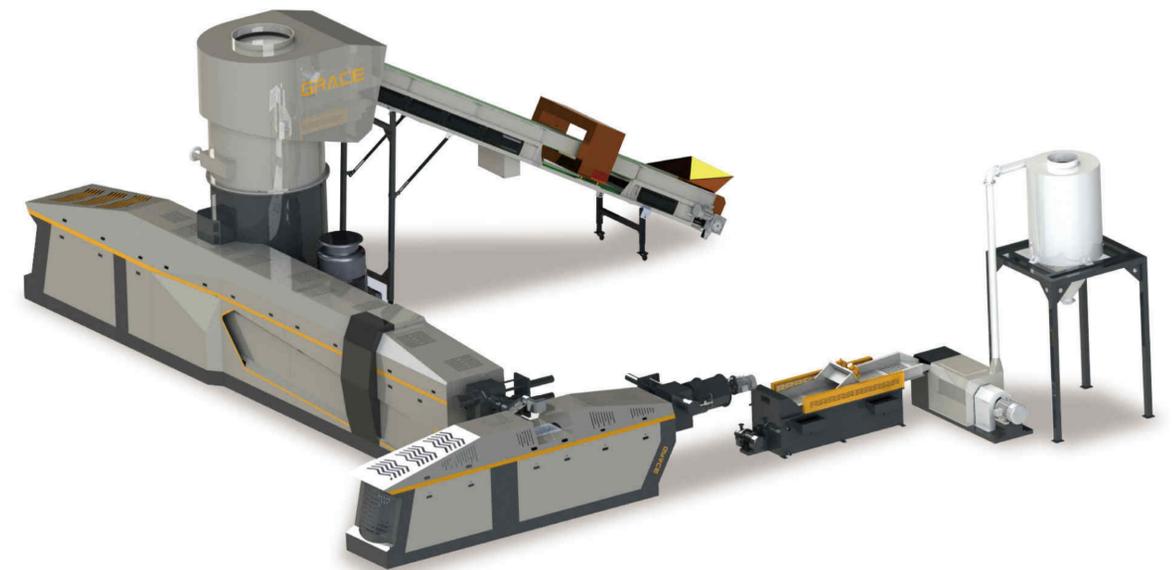
技术参数·单阶

Technical Parameter - Single Stage

设备型号 Model	产量 (kg/h) Output	能耗 (kwh/kg) Energy Consumption	主机功率 (kw) Main Power	螺杆直径 (D) Screw Outer Diameter	真空排气 Vacuum Exhaust	换网器 Screen Changer	水环造粒 Water-ring Granulation	拉条造粒 Cold Strand Granulation	水下造粒 Underwater Granulation
100	200-250	0.2-0.35	75-90	100 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
120	350-400	0.2-0.35	90-110	120 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
150	550-650	0.2-0.35	132-160	150 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
180	750-900	0.2-0.35	220-250	180 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option

Product Description

With emergence of waste plastic recycling technology, environmental pollution caused by large amount of plastic's burning or landfill has been avoided, which significantly extends plastic's usage cycle. Grace team provides a variety of options for customers, which are directly aimed at packaging film, mulching film, woven bags, shopping bags and other raw materials. With unique agglomeration feeding technology, different L/D ratios, multiple exhaust screw structures, single or double stages design and different kinds of pelletizing die, 100-1000kg/h line output can be provided.



技术参数·双阶

Technical Parameter - Double Stage

设备型号 Model	产量 (kg/h) Output	能耗 (kwh/kg) Energy Consumption	主机功率 (kw) Main Power	螺杆直径 (D) Screw Outer Diameter	真空排气 Vacuum Exhaust	换网器 Screen Changer	水环造粒 Water-ring Granulation	拉条造粒 Cold Strand Granulation	水下造粒 Underwater Granulation
100+100	200-250	0.2-0.35	75+37	100 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
120+120	350-400	0.2-0.35	110+45	120 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
150+150	550-650	0.2-0.35	132+55	150 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option
180+180	750-900	0.2-0.35	220+75	180 (33:1)	选配/Option	标配/Standard Configuration	可选/Option	可选/Option	可选/Option

客户案例 | Customer Case



Global Customers and Service 公司客户与服务



格雷斯的产品和服务遍布全球超过109个国家和地区。
Equipment & Service of Grace Cover more than 109 Countries.

欢迎您联系所在区域的格雷斯办事处或代理机构,我们很乐意为您提供专业的服务与支持。

Welcome to contact Grace office or agent of the region,
We are pleased to provide professional service and support.