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DYUN 大云环保

金纬机械

JWELL MACHINERY

We Provide Professional Plastic Recycling Equipment

专业塑料回收再生装备供应商



JWELL was founded in 1997, China plastics machinery industry association vice president unit, professional plastic extrusion machinery and waste plastic recycling machinery manufacturer. The production bases of JWELL company cover about 700,000 square meters and are consisted with 8 factories. JWELL has 26 professional companies and nine large-scale metal processing plants and three heat treatment nitriding plants, with an annual output of 3000 + sets of high-grade plastic extrusion production lines and plastic recycling equipment. The machinery is sold to more than 120 countries and regions in the world.

Dyun, is the only company under JWELL committed to the development, design, manufacturing and sale of the waste plastic recycling machinery. It has a high-quality R & D Team and an experienced team of mechanical and electrical and commissioning engineers, as well as an advanced machining base and standard assembly workshop.

Plastic recycling is a circular industry and an inevitable trend. Dyun's vision is to make recycling simple and waste more valuable.

金纬公司 创建于1997年，中国塑料机械工业协会副会长单位，塑料挤出设备、塑料回收设备专业制造商，现有8个生产基地，总占地面积1000+亩，旗下拥有26个专业公司以及九个大型金加工车间和三个热处理氮化车间，年产3000+（台）套高档的塑料挤出生产线和塑料回收设备，设备畅销至全球120多个国家和地区。

常州大云环保科技有限公司是金纬机械旗下的唯一一家致力于环保及回收行业机械设备开发、设计、制造、销售于一体的现代化企业。公司拥有一支高素质的研发队伍和经验丰富的机械、电气调试工程师团队，以及先进的机械加工基地和规范的装配车间。

塑料回收是一个循环产业，回收再利用是必然趋势。大云环保的愿景是让回收变得简单，让废料更有价值!

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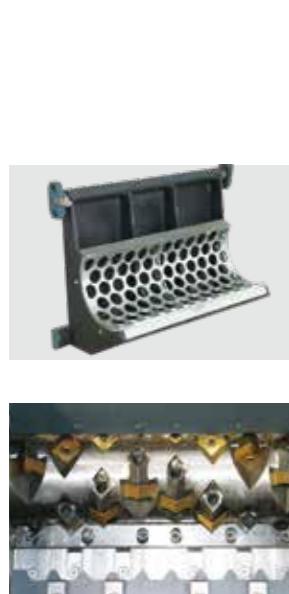


DYSSQ Series ▶ Light Single Shaft Shredder

DYSSQ系列轻型单轴撕碎机

DYSSQ series single shaft shredders are widely used in shredding for a wide variety of recyclable materials, including various plastic products such as pipes, blocks, woven bags, films, etc. The size of the shredded material can be determined by selecting the appropriate screen aperture according to the crushed material and the next step. The shredded material can be directly recycled or further crushed.

DYSSQ单轴撕碎机是一款有着广泛应用的粉碎设备，可回收材料种类繁多，包含各种塑料制品如管材，块料，编织袋，薄膜等。可根据破碎材料及下一步需求选择合适的筛网孔径来决定破碎后的物料尺寸，破碎后的物料可直接回收使用或进一步细碎处理。

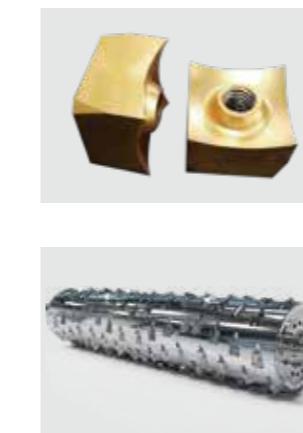


DYSSJ Series ▶ Universal Single Shaft Shredder

DYSSJ系列通用型单轴撕碎机

DYSSJ series single shaft shredders can be designed with different feeding hoppers according to the needs. The standard feeding hopper is suitable for mass feeding with forklifts and manual feeding of bulk materials, which can maximize production. The pusher continuously shreds the material which is pushed towards the rotor, increasing the efficiency of shredding.

DYSSJ系列机型可根据需求设计不同的喂料斗，标准喂料斗适用于借助叉车大批量喂料，以及人工的大块料喂给，可以使生产达到最大化，推料器不断的将待撕碎材料推向转子，提高撕碎的效率。



型号 Model	驱动功率(kw) Drive Power	回转直径(mm) Rotor Dia.	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYSSQ-600	18.5/22	Φ200	23	4	600×500
DYSSQ-800	30/37	Φ400	42	4	800×650
DYSSQ-1000	45/55	Φ400	69	6	980×800

型号 Model	回转直径(mm) Rotor Dia.	驱动功率(kw) Drive Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYSSJ-850	Φ456	37	60	3×2	770×800×600
DYSSJ-1500	Φ456	75	102	5×2	1330×800×600
DYSSJ-2000	Φ456	75×2	144	7×2	1890×800×600

DYSSZ Series Heavy Single Shaft Shredder

DYSSZ系列重型单轴撕碎机

DYSSZ series single shaft shredders can meet the recycling and high production capacity requirements of various waste plastic that are difficult to shred. It can be used to shred all kinds of large solid plastic block, extrusion lumps, pallets, hollow barrels, thick plates and films, etc.

DYSSZ系列撕碎机可以满足各种行业较难粉碎的废料回收及高产能要求，可用于撕碎各种塑料大块实心体、机头料、托盘、中空桶、厚板和薄膜等。



型号 Model	回转直径(mm) Rotor Dia.	驱动功率(kw) Drive Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYSSZ-1000	Φ400	22×2	54	5	850×1300×350
DYSSZ-1400	Φ630	37×2	102	7	1200×1300×550
DYSSZ-1600	Φ750	2×55	117	8	1500×1400×600

型号 Model	回转直径(mm) Rotor Dia.	驱动功率(kw) Drive Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYSSZ-2000	Φ750	2×75	147	10	1500×1800×600
DYSSZ-2500	Φ750	2×90	177	12	1500×2200×600
DYSSZ-3000	Φ750	2×132	218	14	1800×2800×600

DYSSG Series Pipe Crusher and Shredder Unit

DYSSG系列管材撕碎和破碎机组



DYSSG series single shaft shredders can be used for shredding PE, PP and PVC pipes with a diameter of 1600MM. Pipes with a length of 3-6M can be directly crushed without splitting. The rotation speed is stable. After being placed into the horizontal feeding trough, pipe can be pushed into the center of the by hydraulic propulsion as the feeding trough closed automatically. The shredded material is brought into the crusher by a conveyor for secondary crushing for the required broken granule size.

The main advantage of the DYSSG series shredder system is that it saves a lot of segmentation labor and sawing waste, saves energy and reduces consumption. It is safe and efficient. The whole system is controlled by the PLC central control system.

DYSSG系列撕碎机组可用于直径1600MM的PE、PP、PVC管材撕碎，长度达3-6M的管材直接破碎，无需分割，其转速缓慢运转平稳，各种管材放入水平的喂料槽中，喂料槽自动关闭由液压推进将管材推向轴中心进行破碎。撕碎后的材料通过输送机带入破碎机进行二次破碎完成需要的破碎颗粒直径。

DYSSG系列撕碎系统最主要的优势在于节省大量的分割人工及锯口浪费，节能降耗，安全高效，整个系统由PLC中心控制系统控制。

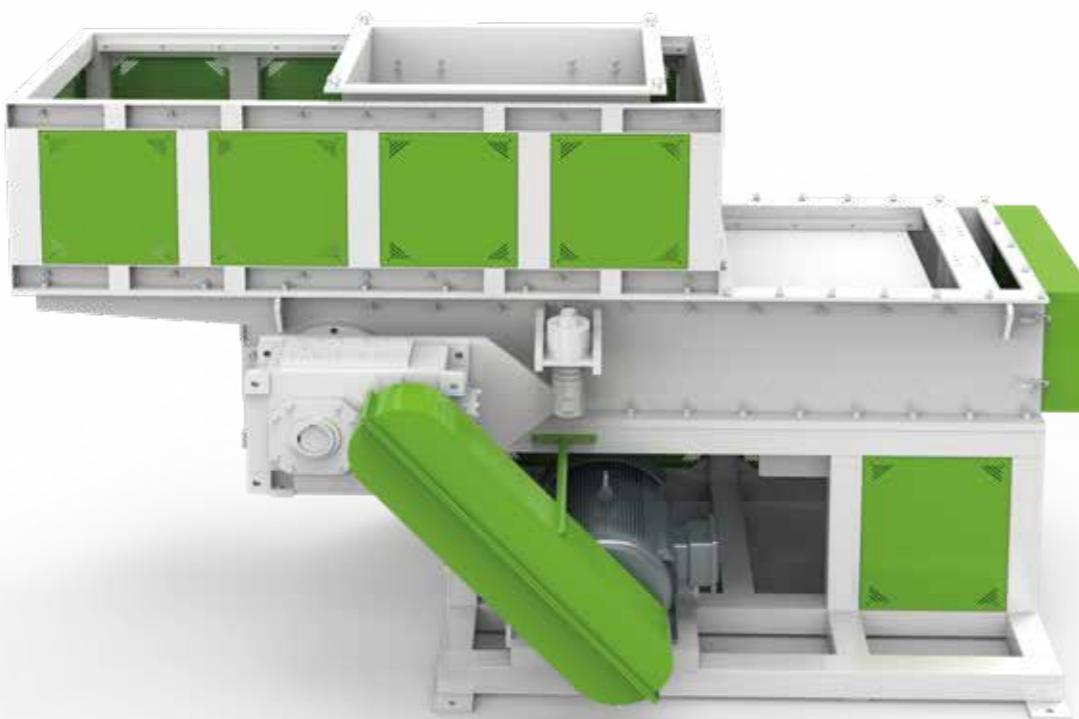
型号 Model	回转直径(mm) Rotor Dia.	驱动功率(kw) Drive Power	撕碎管材最大口径(mm) Shreddable Pipe Dia. Max.	参考产量 Output(kg/h)
DYSSG-630	Φ848	2x30	630	800-1000
DYSSG-800	Φ1028	2x37	800	1000-1200
DYSSG-1000	Φ1258	2x45	1000	1200-1500
DYSSG-1200	Φ1478	2x55	1200	1500-2000
DYSSG-1600	4xΦ490	55x3+75	1600	1800-2500
DYSSG-2000	4xΦ620	90x3+110	2000	2200-2800

DYSSGC Series ▶ Pipe Shredder(top opening)

DYSSGC系列管材撕碎机组（上开口）

DYSSGC series top opening pipe shredders adopt a vertical hopper design to achieve overall cyclic movement and unlimited feeding process, ensuring efficient shredding and no material jamming. The hopper can be equipped with a pneumatic cover and a safe feeding platform to simplify the feeding process and improve operational safety. The main shaft adopts an integral fastener structure and is precisely processed by a machining center to ensure high precision and long-term durability and avoid the risk of breakage. The electronic control system is independently programmed through PLC and integrates functions such as start, stop, forward rotation, and automatic overload protection to realize automatic operation of the entire machine and ensure stable and safe work. In addition, this equipment helps reduce labor costs and improve production efficiency.

上开口管材撕碎机，采用立式料斗设计，实现整体循环运动，投料过程无限制，确保高效撕碎且不易卡料。料斗可搭配气动盖板与安全投料平台，简化喂料流程，提升操作安全性。主轴采用整体紧固件结构，经加工中心精确加工，确保高精度与长久耐用，避免断裂风险。电控系统通过PLC自主编程，集成启动、停止、正转及过载自动保护等功能，实现整机自动化运作，保障工作稳定且安全。此外，该设备有助于降低劳动成本，提升生产效率。



型号 Model	主轴直径(mm) Spindle Dia.	电机功率(kw) Motor Power	撕碎管材最大口径(mm) Shreddable Pipe Dia. Max.	参考产量 Output(kg/h)
DYSSGC-800	400	45	710	400-600
DYSSGC-1200	400	75	1100	500-700
DYSSGC-1400	480	90	1200	600-900

DYSSH Series ▶ Heavy Single Shaft Shredder

DYSSH系列重型单轴撕碎机

DYSSH series single shaft shredders use specially customized large rotating diameter main shaft and high-torsion gearbox which increase the contact surface area and power of the shredding rotary blade; The main shaft and cutterhead structure of the shredder are specially designed, and the cutterhead structure is stepped spiral. The shearing rotary blade is added, which can makes the load during the shredding process more uniform, more efficient, and ensures smooth operation.

特殊定制的大旋转直径主轴和高扭转的减速箱，增加撕碎动刀接触面和动力；撕碎机的主轴和刀盘结构特殊设计，刀盘结构选择阶梯螺旋状，增加剪断动刀，可使撕碎过程中的负载更加均匀，效率更高，保障平稳运行。



型号 Model	回转直径(mm) Rotor Dia.	驱动功率(kw) Drive Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	参考产量 Output(kg/h)
DYSSH-800	Φ400	90	40+38	3+3	600-800
DYSSH-1400	Φ400	160	60+56	5+5	1200-1500

DYTSS Series ▶ Two-shaft Shredder

DYTSS系列双轴撕碎机

DYTSS series two-shaft shredders have the advantages of low noise, low energy consumption and high output. It reflects the superiority of low speed and large torque cutting design. This series of shredder is particularly suitable for the crushing of large-sized plastic materials. After being shredded, the bulk density of the material can be increased, thereby reducing transportation costs. In addition, the material can be further processed after shredding, such as material separation, washing and pelletizing etc.

该系列双轴撕碎机具有低噪音、低能耗、高产量的特性。充分体现了低转速，大扭矩剪切设计的优越性。该系列撕碎机特别适合应用于塑料类大尺寸物料破碎。通过该机剪切，可以增加物料的堆积密度，从而降低运输成本。此外，破碎后可对物料做进一步处理，例如物料分离、清洗以及造粒等。



DYFSS Series ▶ Four-shaft Shredder

DYFSS系列四轴撕碎机

DYFSS series four-shaft shredders are multifunctional and versatile machine. With standardized modular design, shredder of this series has an advantage of good interchangeability in parts. The auxiliary knife is refined by die forging, while the main knife, made of special alloy steel by a special process, is of good wearability and high intensity. The shredder is driven by intermediate gear transmission, forming differential relationship. Shredders of this series are applicable to shred plastic barrels, plastic frames, woven bags, circuit board and paper box etc., and have advantages of controllable discharging size, high-efficiency, low rotating speed and low noise.

四轴撕碎机系列，该款机器是一款多功能，通用性较强的机器，采用标准化模块化设计，零部件互换性较好，辅刀采用模锻件精制而成，主刀采用特种合金钢经特殊的专门工艺制成，具有耐磨性好和高强度特点，驱动部分采用中间齿轮传动，形成差速关系。适用于撕碎塑料桶、塑料框、编织袋、电路板和纸箱等物料，出料大小可以控制，效率高、低转速、低噪音。



型号 Model	驱动功率(kw) Drive Power	回转直径(mm) Rotor Dia.	动刀数(pcs.) Rotor Blade	刀体厚度(mm) Blade Thickness	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYTSS-32100	22x2	Φ430	26	40	1000x800
DYTSS-40130	37x2	Φ514	26	50	1300x950
DYTSS-50180	55x2	Φ615	36	50	1800x1200

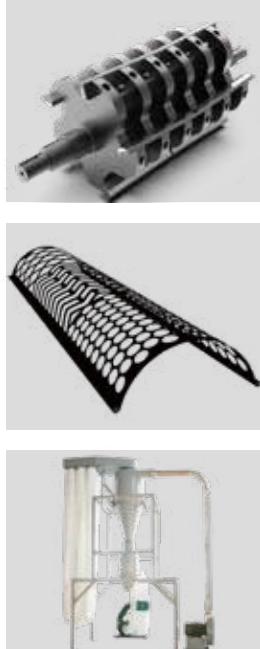
型号 Model	电机功率(kw) Motor Power	主刀直径(mm) Main Blade Dia.	主刀数量(pcs.) Main Blade	刀体厚度 (mm) Blade Thickness	破碎腔最大尺寸(mm) Crushing Chamber Size Max.
DYFSS-9080	2x18.5	Φ290	32	25	900x800
DYFSS-100120	2x22	Φ320	31	40	1000x1200
DYFSS-130140	2x15+2x30	Φ430	28	50	1300x1400

DYPS Series Light Crusher

DYPS系列轻型破碎机

DYPS series light crushers have beautiful exterior design and high-quality steel structure welding. The rotor uses the latest V-shaped cutting technology to send the crushed material to the central, which not only avoids the material impacting on the sidewall, but also makes the sidepiece wearable, and reduces dust producing. The main shaft is made of high-quality material. DYUN can also provide crushing auxiliary device according to customer's requirements, such as suction unit collector, feeding conveyor belt and metal separator etc.

DYPS系列轻型破碎机采用优美的外形设计，优质的全钢材结构焊接而成。转子采用最新的V形切割技术，可将破碎材料送至转刀中央，这避免了材料在侧壁上的冲击，同时也增加了侧壁的耐磨性，减少破碎粉尘。DYUN还可根据用户的要求提供配套的破碎辅助设备，如：集料抽吸机组，投料输送带，金属分离器等。



DYPS-Z Series Heavy Crusher

DYPS-Z系列重型破碎机

DYPS-Z series heavy crushers are designed specially for the recycling material which is not easy to be crushed and thickness 3~30mm.

Main shaft: The main shaft is processed with high quality steel after verifying the balance. Good toughness, stable working state, low shaking are the main features. The rotor with new "V" shape cutting technology is composed of 3,5, or 7 pieces of blades on the basis of different crushing material. This technology makes sure the blade can produce uniform granular with low energy and low noise.

DYPS-Z系列重型破碎机专为满足苛刻要求及不易破碎回收材料而设计,厚度在3~30mm之间。

主轴：采用优质钢材加工而成，经动、静平衡校验，具有韧性好、工作中不易变形、工作状态稳定等特点。采用最新“V”形切割技术，转子可根据不同的破碎物料制造成3片式，5片式，7片式等。使转刀在工作中实现切料均匀、低能耗、低噪音的效果。



型号 Model	投料口尺寸(mm) Feed Mouth Size	主电机功率(kw) Main Motor Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	回转直径(mm) Rotor Dia.	参考产量(kg/h) Output
DYPS-560	560×400	15	6	2	Φ400	200
DYPS-700	700×700	22-37	6/10	4	Φ500	400
DYPS-800	800×800	45-55	6/10	4	Φ600	600

型号 Model	投料口尺寸(mm) Feed Mouth Size	主电机功率(kw) Main Motor Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	回转直径(mm) Rotor Dia.	参考产量(kg/h) Output
DYPS-Z 1000	1000×1000	55-110	10/14	4/6	Φ700	800
DYPS-Z 1200	1200×1000	90-132	10/14/18	4/6	Φ800	1200
DYPS-Z 1500	1500×1000	110-200	14/18	4/6	Φ1000	2000

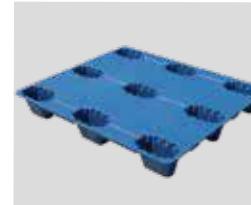
DYPS-T Series ▶▶

Tray/Plate Special Crusher

DYPS-T系列托盘板/板材专用破碎机

DYPS-T series tray/plate special crushers are mainly used in crushing wide but thin plastic products. It has a dedicated main shaft and unique feeding hopper, which is easy to feed trays and wide plate products in. Wide products do not need to be cut, which reduces the recycling process, saves energy, reduces labor intensity and cost and improves the efficiency of pulverization and recycling.

托盘板材专用破碎机，主要针对宽幅面厚度小的塑料制品，研发设计的专用机型。采用专用的主轴，独特的投料斗形式，方便托盘以及宽幅板材制品的送入。宽幅制品无需分切，减少回收工序，节约能源，减少劳动强度，降低成本，提高粉碎回收效率。



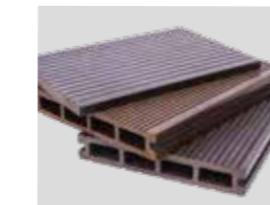
DYPS-X/M Series ▶▶

Profile/WPC Special Crusher

DYPS-X/M系列型材、木塑专用破碎机

Normally crusher needs large crushing chamber to recycle larger size and quantity plastic. For this reason, Dyun specially designed the DYPS-X/M series profile / WPC crusher. The feeding hopper, which is almost parallel to the ground, makes feeding of longer materials extremely simple and convenient. Because the rotor of the machine can automatically grasp the material to-be-broken, there is no material blockage.

常规的破碎机，通常需要较大的破碎腔来破碎回收体积较大，数量较大的材料。为此大云特别设计了DYPS-X/M系列。几乎与地面平行的喂料斗，使较长材料的喂给极为简单方便。由于机器的转子能够自动抓牢待破材料。因此，不会存在材料阻塞的情况。



型号 Model	投料口尺寸(mm) Feed Mouth Size	主电机功率(kw) Main Motor Power	动刀数(pcs.) Rotor Blade	定刀数(pcs.) Fixed Blade	回转直径(mm) Rotor Dia.	参考产量(kg/h) Output
DYPS-T800	850×250	45-55	10	4	Φ600	400-500
DYPS-T1200	1200×300	75-90	10	4	Φ600	600-800
DYPS-T1500	1500×300	90-160	10	4	Φ600	800-1000

型号 Model	投料口尺寸(mm) Feed Mouth Size	转子有效宽度(mm) Rotor Effective Width	电机功率(kw) Motor Power	动刀数(pcs.) Rotor Blade	参考产量(kg/h) Output
DYPS-X300	200×300	300	15	5	300
DYPS-M400	240×400	400	22	24	350

JWL Series ▶ Rigid Plastic Single Screw Pelletizing Line

JWL系列硬料单螺杆造粒机

Dyun has been deeply involved in the industry for more than 20 years. With innovative technology and insistence on quality, we are committed to providing customers with intelligent recycling systems with high output and excellent performance. Advanced design and famous brand accessories achieve the smallest failure rate, save maintenance time, and ensure maximum benefits for customers.

大云深耕行业二十余年，凭借创新的技术和品质的坚持，我们致力于为客户提供产量高，性能优的智能回收系统。先进的设计和顶尖品牌配件实现最小的故障率，节约了维修保养时间，确保客户的最大收益。

Extrusion system 挤出系统

The extruder uses a high-efficiency screw barrel to ensure the plasticizing effect and high output of the finished product. Using wear-resistant alloy materials, the service life of ordinary barrel screws is more than 1.5 times. The forced vacuum exhaust system effectively removes low molecular impurities, moisture and ink. Ensure the high quality of finished pellets. The efficient infrared heater can quickly heat up and keep warm, saving 30% of energy consumption than ordinary heaters. For different purposes, a variety of length-to-diameter ratios are available, and the multi-functional exhaust system and dual-stage extrusion system can recycle heavily polluted materials.

挤出机使用高效能的螺杆机筒，保证成品的塑化效果和高产量。采用耐磨合金材料，是普通的机筒螺杆使用寿命1.5倍以上。强制真空排气系统有效地去除低分子杂质,水分和油墨。保证成品颗粒的高品质。高效的红外线加热器可以迅速升温和持续保温，比普通加热器节约能耗30%。对不同的用途，多种长径比可选，多功能排气系统和双阶挤出系统可以回收污染严重的物料。



型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	螺杆转速(rpm) Screw Speed	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWL65	65	25-35	20-100	30-37	80-150
JWL90	90	25-35	20-90	45-55	200-250
JWL120	120	25-35	20-75	75-110	280-350
JWL150	150	25-35	20-75	110-160	380-500

型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	螺杆转速(rpm) Screw Speed	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWL160	160	25-35	20-70	132-185	500-650
JWL180	180	25-35	20-70	200-250	650-800
JWL200	200	25-35	20-60	250-315	800-1300
JWL250	250	25-35	20-60	315-500	1200-1800

JWL Series Rigid Plastic Single Screw Pelletizing Machine

JWL系列硬料单螺杆造粒机

Filtering system 过滤系统

According to the degree of contamination of the material and the customer's habits, a variety of screen changers are available: plate screen changer, column screen changer, column backwash screen changer, automatic screen changer, and melt filter. The plate screen changer is cost-effective and easy to operate. It is the main filtering device for conventional thermoplastics. The large-area screen changer ensures the filtration effect, reduces impurities, and improves the quality of finished product particles.

根据物料的污染程度和客户的习惯，多种换网器可供选择：板式换网器，柱式换网器，柱式反冲洗换网器，自动换网器，过滤器。板式换网器性价比高，易于操作，是常规热塑的主要过滤装置。大面积换网器保证过滤效果，减少杂质，改善成品颗粒质量。

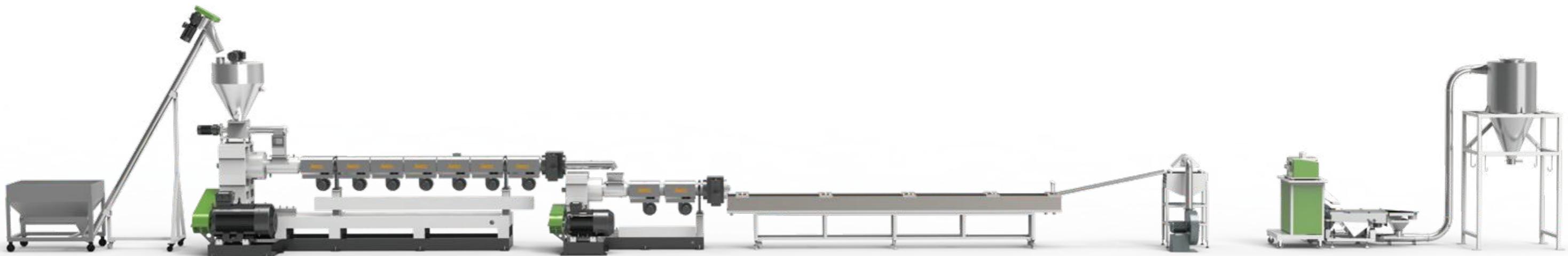
Intelligent control system 智能控制系统

Thanks to Siemens' PLC and HMI, the intelligent system of the JWL series pelletizing line is simplified and reduces manual operations. The PLC intelligent control system can diagnose, control and supervise the entire production line, providing customers with long-term system updates and system maintenance.

The weighing and metering system helps customers monitor the output and power consumption of the entire recycling line in real time under different materials and production conditions. All data can be copied, stored and quantitatively evaluated.

得益于西门子的PLC和HMI，JWL系列造粒机的智能系统简化，减少人工操作。PLC智能控制系统可以选程诊断，控制以及监管整条生产线，为客户提供长期系统更新，系统维护。

称重计量系统帮助客户实时监管在不同物料和生产条件下的整条回收线的产量和电能消耗。所有的数据可以拷贝储存，并进行定量评估。

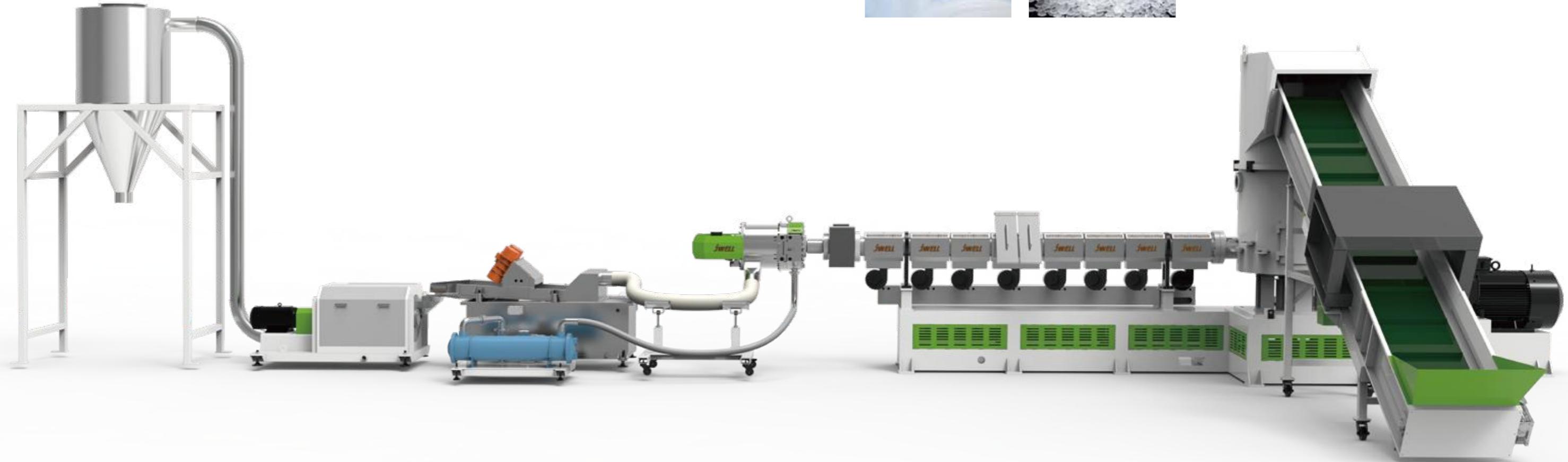


型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWL90	90	10	22	220-280
JWL120	120	9-12	37	300-350
JWL150	150	9-12	45-55	450-550
JWL160	160	9-12	55-75	600-700

型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWL180	180	9-12	75-110	650-800
JWL200	200	8-12	90-132	800-1000
JWL220	220	8-12	132-160	1200-1500
JWL250	250	8-12	160-220	1400-1800

JWP Series ▶ Three Machine Integrated Pelletizing Machine

JWP三机一体造粒机组



Plastic waste such as film, silk, rope, bag, and non-woven fabric is transported into the compactor through a belt conveyor; for roll-type waste, such as film, an optional roller traction device can be used to process. The roll material is pulled into the compactor. The rotating knife in the compactor rotates to cut and crush the waste materials entering the bin, and the high-speed rotating cutter head feeds the material to the screw.

Special process sections (barrel, screw) designed for different types of waste materials can perform more gentle melting and plasticizing of pre-compacted waste materials. Integrates cutting, plasticizing and granulating in one system. The latest design is suitable for simultaneous granulation of soft and rigid materials.

薄膜、丝、绳、袋子、无纺布等塑料废料通过皮带上料装置，输送进压实仓内；针对卷筒类的废料，如薄膜，可采用选配的辊筒牵引装置，将需处理的卷筒料牵引进压实仓内。压实仓内的动刀通过旋转对进入仓内的废料进行切割破碎，高速旋转的刀盘将物料喂料至螺杆。

针对不同种类废料而设计的专门的工艺段(机筒、螺杆)可以对预压实的废料进行更加温和的熔融塑化。将切割、塑化和造粒集成在一个系统中。最新设计，适用于软质和硬质的物料同时进行造粒。



型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	螺杆转速(rpm) Screw Speed	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWP90	90	36/1	20-150	75-90	200-350
JWP120	120	36/1	20-120	110-132	300-500
JWP150	150	36/1	20-100	160-200	450-700
JWP180	180	36/1	20-100	250-315	700-1000
JWP200	200	36/1	20-100	280-415	1000-1500

JWP Series ▶ Three Machine Integrated Pelletizing Machine

JWP三机一体造粒机组



This pelletizing extruder has special screw design and different configuration, it is suitable for the recycling of PP, PE, BOPP, BOPET, BOPA, PA66, etc. Dry film. The gearbox is high torque designed which attains the functions of low noise and stable operation. The surface of the screw and barrel have been special treated so that the screw and barrel are wearable, they have very good plasticization and mixing effect and the production capacity is high. The extruder has the vacuum vented design which can exhaust the vapor or gas during the production, so that the output are more stable and the pellets are more uniform.

采用特殊的螺杆设计及不同配置，适用于生产PP、PE、BOPP、BOPET、BOPA、PA66等多种干燥薄膜塑料的再生。喂料系统采用高转速刀片切割及强制喂料装置。螺杆、机筒经过特殊的表面处理，具有耐磨，混炼效果好，产量高的特性。真空排气或自然排气口的设计，能在生产过程中将水分、废气排除，使出料更稳定，粒子更密实，保证了产品的优良品质。

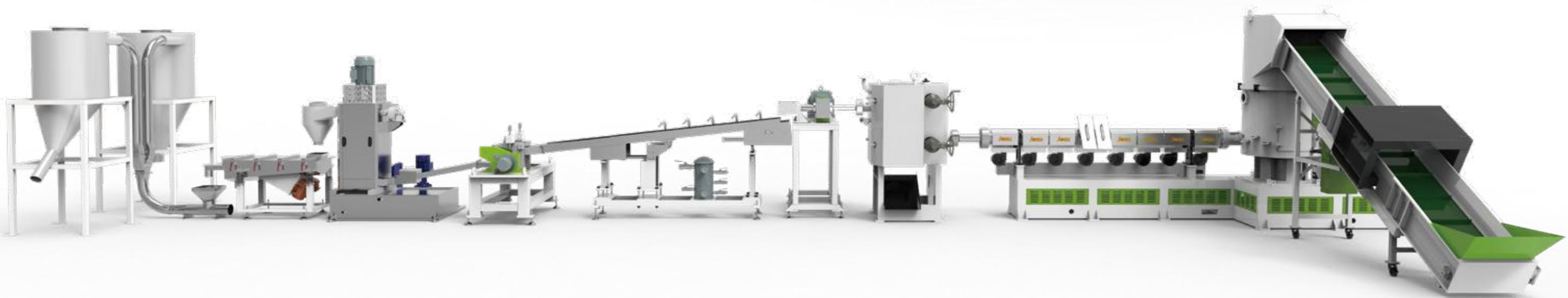
型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	螺杆转速(rpm) Screw Speed	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWP90	90	36/1	20-150	75-90	200-350
JWP120	120	36/1	20-120	110-132	300-500
JWP150	150	36/1	20-100	160-200	450-700
JWP180	180	36/1	20-100	250-315	800-1200
JWP200	200	36/1	20-100	280-415	1000-1500

JWH Series ▶ Waste Fiber Recycling Pelletizing Line

JWH系列废丝高品质回收造粒生产线

The pre-cutted materials are transported into the compactor through the belt conveyor. The materials are cut, mixed and compacted in the compactor to effectively heat and dry the materials. The knife gate valve design on the compactor automatically controls the screw feeding speed to ensure stable screw operation. Equipped with a high-precision melt filtration system to improve the purity of materials. The entire system can improve particle color and viscosity drop issues. High degree of automation, saving labor.

预分割后的物料通过皮带上料装置，输送进压实仓内，物料在压实仓里切割，混合，压实，使物料有效的加热、干燥。压实仓上的刀闸阀设计，自动控制螺杆进料速度，使螺杆稳定运行。配置高精度熔体过滤系统，提高物料的纯净度。整套系统可以确保颗粒色泽和粘度降问题。自动化程度高，节省人工。



型号 Model	螺杆直径(mm) Screw Dia.	长径比 L/D	螺杆转速(rpm) Screw Speed	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWH90	90	32-38	20-150	75-90	200-350
JWH120	120	32-38	20-120	110-132	300-500
JWH150	150	32-38	20-100	160-200	450-700
JWH180	180	32-38	20-100	250-355	800-1200

JWT Series PET Single Screw Pelletizing Machine

JWT系列PET单螺杆造粒机组

JWT series PET bottle flake single screw pelletizing line is mainly used to produce high quality yarn spinning grade PET pellets, etc. Equipped with a dehumidification and crystallization drying system, the screw adopts a special LTM low-temperature mixing element, the host adopts an energy-saving insulation cover structure, and is equipped with a booster pump system and a double-stage double-cylinder melt filter to ensure the uniformity of the temperature of the material. Improve the purity of the material; the granulation line can effectively control the B value and L value, and the viscosity drops to the lowest.

JWT系列PET瓶片单螺杆回收造粒机组主要用于生产高标的纺丝级PET颗粒等。配备了除湿结晶干燥系统，螺杆采用特殊的LTM低温混合元件，主机采用节能的保温罩结构，配备了增压泵系统及双级双缸熔体过滤器，保证了物料所受温度的均匀性，提高物料的纯净度；该造粒线可以有效控制B值和L值，粘度降达到最低。



型号 Model	长径比 L/D	转速(rpm) Speed	产量(kg/h) Capacity
JWT130	30	20-80	250-350
JWT160	30	20-80	450-600
JWT190	30	20-80	800-1200

PET Bottle Flakes/powder Recycling Pelletizing Machine

PET瓶片/粉末回收造粒生产线

PET bottle flakes in the process of recycling has strict requirements on the viscosity and color of the granules, through years of hard search, steady accumulation, our company has developed two kinds of production according to the market for customer option, one is economical, using common way to water cooling strand pelletizing, the other is a high energy-saving, adopt advanced strand cutting in water, simple operation, convenient maintenance.

PET瓶片回收的过程中对粒子的粘度和色泽有严格的要求，通过多年努力，不断累积，公司针对该市场开发了两类产品供客户选择，一种是经济型，采用普通的拉条切粒方式，另一种是高产节能型，采用先进的水中拉条切粒方式，操作简单，维护方便。



型号 Model	长径比 L/D	转速(rpm) Speed	产量(kg/h) Capacity
CJWH75	40-48	300-500	500-600
CJWH85	40-48	300-500	600-800
CJWS95	40-48	300-500	1000-1500



SJZ Series Counter Rotation Conical Twin-screw Pelletizing Machine

SJZ系列异向锥双螺杆造粒机组

The unit is a complete set of equipment consisting of a series of conical twin-screw extruders and corresponding pelletizing auxiliary machines. It is mainly used for pelletizing of PVC fillers. The produced plastic pellets are uniform, compact and beautiful. The auxiliary machine adopts die face dicing, wind feeding aggregate, vibration separation and cooling, and has the characteristics of high automation and high production efficiency.

该机组是由系列锥形双螺杆挤出机与相应造粒辅机组成的成套设备，主要适用于PVC填充料的造粒。生产的塑料颗粒均匀、密实、美观，辅机采用模面切粒，风送集料，振动分离冷却，具有自动化程度高，生产效率佳等特点。



JWM Series WPC Pelletizing Machine

JWM系列木塑造粒设备

The unit is a complete set of parallel twin-screw extruder and corresponding pelletizing auxiliary machine are mainly used for granulation of wood powder or filler with raw materials like PVC, PP and PE . The auxiliary machine adopts wind-blowing collecting and cooling system, and has the characteristics of high automation and great production efficiency.

该机组是由平行双螺杆挤出机与相应造粒辅机组成的成套设备，主要适用于PVC、PP、PE类原料添加木粉或填充料的造粒。辅机采用风送集料，冷却，具有自动化程度高，生产效率佳等特点。



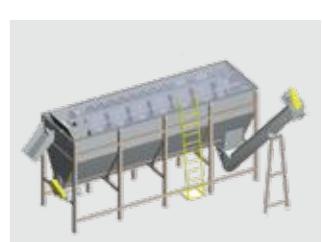
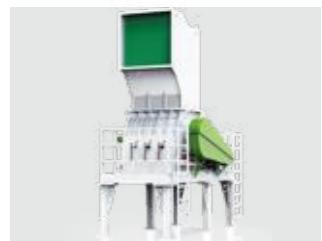
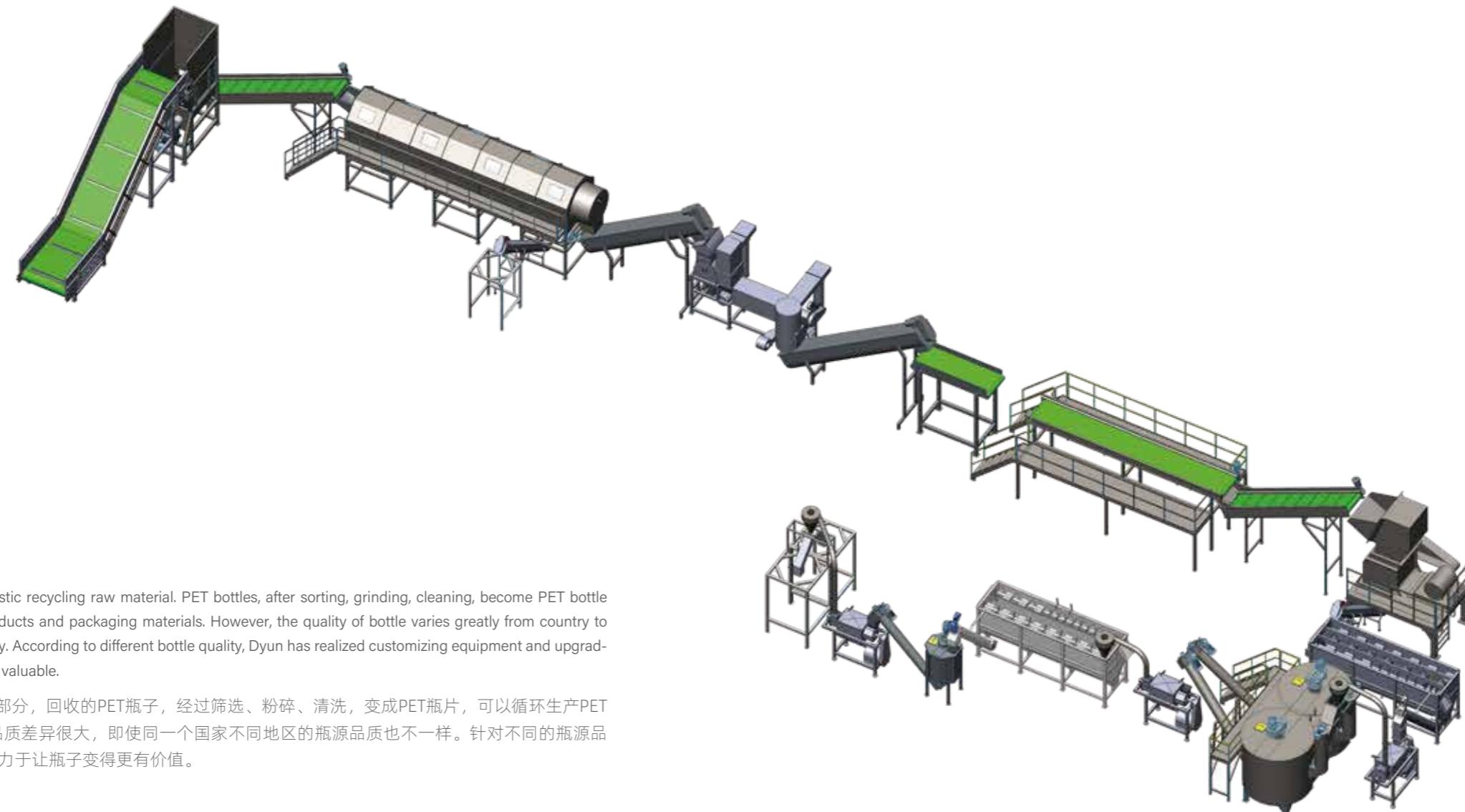
型号 Model	螺杆直径(mm) Screw Dia.	颗粒规格 (mm) Pellet Size	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
SJZ55	55/110	ø3-ø4	22	100-120
SJZ65	65/132	ø3-ø4	37	220-260
SJZ80	80/156	ø3-ø4	55	320-450
SJZ92	92/188	ø3-ø4	110	650-800

型号 Model	螺杆直径(mm) Screw Dia.	主电机功率(kw) Main Motor Power	参考产能(kg/h) Output
JWM75	71	132	400-600
JWM95	93	250	800-1200
JWM75Plus	71	280	1100-1300
JWM95Plus	93	355	1600-1800

PET Bottle Washing Line

PET瓶清洗线

化纤级洗瓶线工艺流程



Waste PET bottles are an important part of the plastic recycling raw material. PET bottles, after sorting, grinding, cleaning, become PET bottle flakes, can be processed to PET chemical fiber products and packaging materials. However, the quality of bottle varies greatly from country to country, even in different regions of the same country. According to different bottle quality, Dynun has realized customizing equipment and upgrading it, and is committed to make waste bottles more valuable.

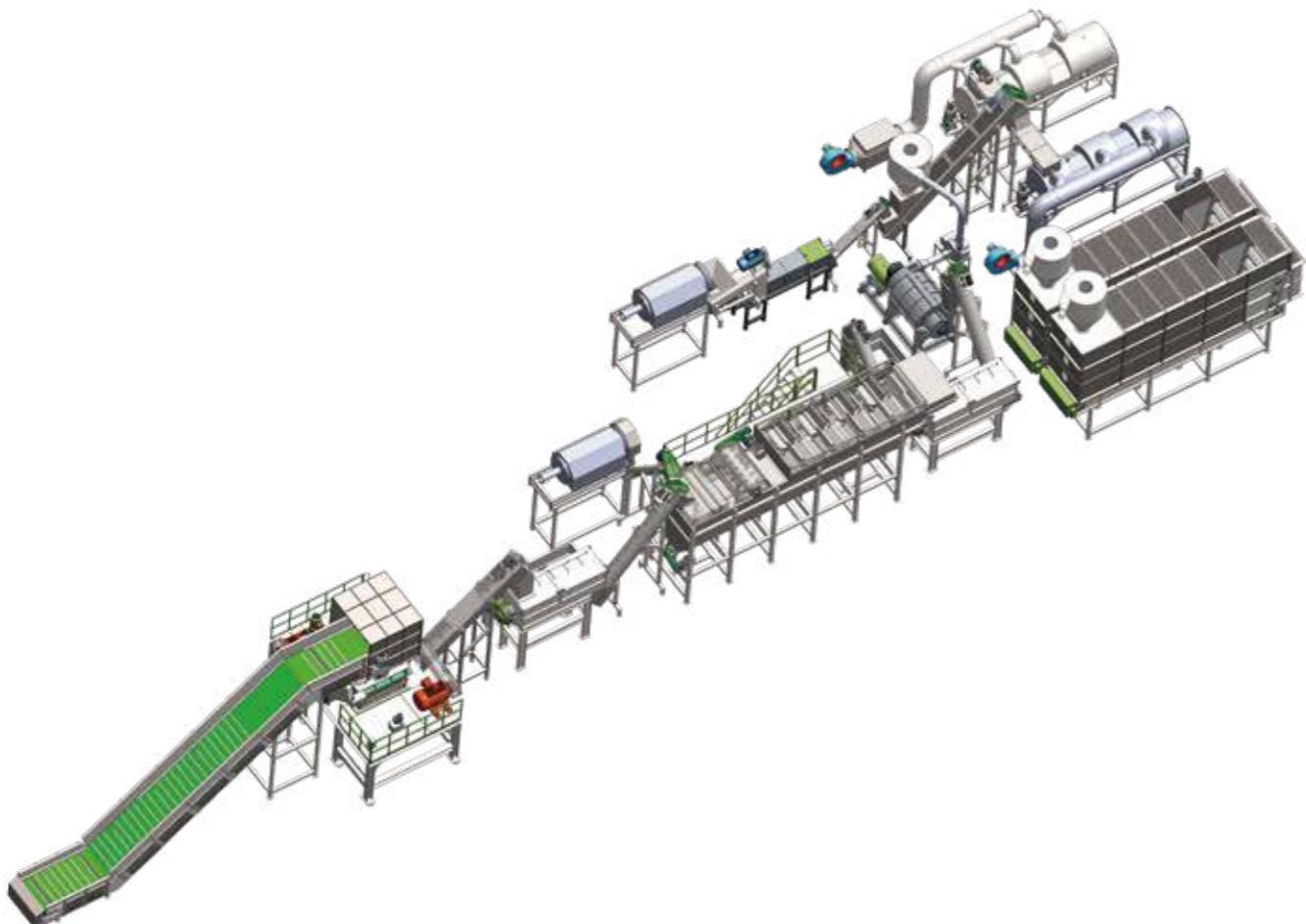
废弃PET瓶是塑料回收原料市场上的重要组成部分，回收的PET瓶子，经过筛选、粉碎、清洗，变成PET瓶片，可以循环生产PET化纤类制品和包装材料。但是，各国的瓶源品质差异很大，即使同一个国家不同地区的瓶源品质也不一样。针对不同的瓶源品质，大云实现了定制化的设备研发和升级，致力于让瓶子变得更有价值。

Waste Woven Bag/plastic Film Washing Line

废旧编织袋薄膜清洗线

Dyun customizes an integrated film shredding, crushing and washing solution for customers. The equipment can be used for cleaning and recycling of PP, PE and PET films with different pollution levels. The main types are food packaging films, garbage bags, waste agricultural films, greenhouse films, industrial packaging films and woven bags, etc. The processed materials can be used for sales, granulation, injection molding, extrusion and film blowing, etc. The output of the equipment can reach 500kg/h-1500kg/h, and customized services can be provided according to different needs.

大云为客户定制一体化的薄膜撕碎，破碎及清洗方案。设备可用于各种不同污染程度的PP PE PET薄膜的清洗回收，主要种类有食品包装膜，垃圾袋，废旧农膜大棚膜，工业包装膜以及编织袋等。处理好的物料可用于销售，造粒，注塑，挤出和吹膜等，设备产量可达500kg/h-1500kg/h，根据不同的需求进行定制化服务。



Rigid Plastic Washing Line

塑料硬杂料清洗线

There are many types of hard materials for cleaning, which are commonly used in PP and PE liquid containers, such as milk bottles, laundry detergent shampoo daily chemical bottles, chemical containers, motor oil bottles, etc; ABS and PS type of daily household appliances, children's toys, etc. The complete set of solutions for plastic pipes, profiles and building templates used in the construction industry can be designed according to different material properties, and the production line output can be 500-5000kg/h.

硬料清洗的材料种类较多，常见于PP PE溶液容器，例如牛奶瓶，洗衣液洗发水日化瓶，化工容器，机油瓶等；ABS PS类的日用家电外壳，儿童玩具等；建筑行业所使用的塑料管道，型材，建筑模板等。本公司可提供整套解决方案，可根据不同的材料特性，设计不同的方案，生产线产量为500-5000kg/h。



DYJG Series Squeezer

DYJG系列挤干机



The film squeezer is installed at the end of the film washing lines for drying the material. The dewatering screw press system is based on the mechanical squeezing, made by a screw working inside holed barrel. As you may know, it is very important to dry the film regrind in a film washing plant. Previously, centrifugal dryers and thermal dryers were widely used in most film washing plants to dry the plastic films. However, the moisture content of the material was still too high. High moisture content significantly reduces the capacity of the pelletizing line. To improve the efficiency of film washing lines, we have developed this plastic film squeezer. The finished product is densified material with moisture content under 3%. This allows the capacity for the same extruder while pelletizing to increase by 30%. Additionally, the material from the film squeezer can be fed directly into the extruder without a compactor. This saves power and operating cost for the whole plastic film washing plant.

薄膜挤干机安装在薄膜清洗线的末端，用于干燥物料。脱水螺杆挤压系统基于机械挤压，由在带孔机筒内工作的螺杆制成。如您所知，在薄膜清洗设备中干燥薄膜回收料非常重要。此前，大多数薄膜回收工厂广泛采用离心干燥机和热风干燥机来干燥塑料薄膜。然而，物料的含水量仍然过高。高水分含量会显著降低造粒线的产能。为了提高薄膜清洗线的效率，我们开发了这款塑料薄膜挤干机。成品是含水率在3%以下的致密材料。这使得同一挤出机在造粒时的产能提高了30%。此外，来自薄膜挤干机的材料可以直接送入挤出机，无需经过转锅。这节省了整个塑料薄膜清洗厂的电力和运营成本。



型号 Model	螺杆直径(mm) Screw Dia.	电机功率(kw) Motor Power	切粒功率(kw) Cutting power	参考产量 Output(kg/h)
DYJG-320	320	110/132	7.5	400-600
DYJG-350	350	160/185	11	600-800
DYJG-380	380	200/250	18.5	800-1000

Raw Material VOC Deodorizing System

原料VOC除味系统

After the pelletizing stage, the use of raw material VOC deodorizing devices can significantly improve the quality of particle. Because VOC deodorizing devices remove the low boiling point VOC pollutants contained in recycled plastic materials, which can cause the material to produce pungent smell.

The VOC deodorizing unit designed by Dyun is a flexible system. The main parameters can be adjusted according to the actual process conditions. The temperature, air volume and residence time can be controlled and adjusted manually or completely automatically. VOC deodorizing systems can be designed in both offline and online modes. Before designing, the customer can do deodorizing testing of materials at Dyun R&D Center to obtain the best pungent smell removal time. The testing data will be used to rationalize the design of the entire system.

Meanwhile, the material homogenization and VOC deodorizing can be switched with one key. In the continuous production process, the waste gas is discharged by the pipe after filtration, so as to prevent the odor from spreading at the site. At the same time, the heat energy is recycled and reused through the heat exchanger to obtain less energy consumption. For better control of the deodorization process, the system can be equipped with an electronic nose developed by Dyun, which can immediately evaluate the effectiveness of the deodorization process for particles.

在回收造粒阶段之后，使用原料VOC脱除装置，可以使回收材料的品质显著提高。这是因为VOC脱除装置去除了回收塑料材料中含有的低沸点的VOC挥发污染物，这些物质会使物料产生刺鼻的气味。

大云设计的VOC脱除装置是一个灵活的系统。因为主要参数可以根据实际工艺条件进行调整，温度、空气量和停留时间可以手动或完全自动地控制和调节。VOC除味系统可以设计为离线或在线两种模式。在设计前，客户可在大云研发中心对物料进行脱除测试，以获得最佳的废气脱除时间。测试数据用于整套系统的合理化设计。

同时，对于物料均化和VOC除味可一键切换。在连续生产过程中，废气通过排放管道经过滤后排出，从而防止气味在现场扩散。同时通过热交换器进行热能回收再利用，以获得更佳的能耗。为了更好地控制除臭过程，系统可配备大云开发的电子鼻，它可以立即评估颗粒的除臭过程的有效性。



Centralized Feeding System

中央供料系统

The professional solution of Centralized feeding system, Dehumidification and drying system, Whole plant water (ice water), electricity, gas system, Large plastic industry powder/particle conveying system and three-dimensional storage system; The company's products are mainly used in electrical industry, extruded tube (sheet) material industry, optical industry, automotive industry, precision electronics industry, daily necessities industry, toy industry, medical infusion tube industry and packaging industry and etc.

中央供料系统，除湿干燥系统、整厂水（冰水）、电、气系统，大型塑料行业粉/粒体输送系统及立体仓储系统的整体解决方案；公司产品主要用于电器行业、挤塑管（片）材行业、光学行业、汽车行业、精密电子行业、日用品行业、玩具行业、医疗输液管行业和包装行业等诸多“领域”。



PVC Centralized Feeding system

PVC自动供料系统

PVC centralized feeding system, is mainly used for the transportation of PVC powder materials. It can use negative pressure, positive pressure (dilute phase, dense phase), metering (main materials, auxiliary materials), mixing, centralized Warehousing; and pipe chains, negative pressure or screw conveying can be used according to site conditions to distribute materials into the hopper of each machine. The whole process is controlled centrally by PLC and can be monitored centrally on the host computer. The system can be customized according to customer production process requirements and current factory conditions, and can achieve an annual production capacity of 2,000-100,000 tons.

PVC集中供料系统，主要用于PVC粉体料的输送，可采用负压、正压(稀相、密相)、计量(主料、辅料)、混合、集中仓储；并可根据现场情况采用管链、负压或螺旋输送，将物料分配至每个机台料斗内。全过程采用PLC集中控制，并可在上位机上集中监控。该系统可按客户生产工艺要求和厂房现况定制，可完成2000-100000吨/年生产能力。





Related Auxiliary Equipment of Jwell

相关公司产品链接



Plastic profile extrusion line
异型材挤出生产线



Plastic pipe extrusion line
塑料管材挤出生产线



Plastic sheet/plate extrusion line
片板材挤出生产线



Plastic blow molding extrusion line
塑料中空吹塑机组



Screw and barrel
螺杆、机筒



Extruder
挤出机



Horizontal mixer
卧式混料机



Blades for plastic machinery
塑料机械刀具



Metering pump
计量泵

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