

End

结束语 Introduction



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山东皓元 机械有限公司

Shandong Haoyuan Machinery Co., Ltd.

OUR VALUES

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Company 公司简介 Introduction

山东皓元机械有限公司坐落于山东省济南市，是一家拥有超过15年历史的高新技术企业，通过ISO9001和CE认证。

皓元是一家专注于机械设备产品研发、生产和销售的制造商，产品涵盖木质颗粒机、木质粉碎机、锯末粉碎机、干燥机、颗粒冷却机、颗粒包装机等200多个品种，在生物质能源、饲料、有机肥料、环保除尘以及生物质发电等领域广泛应用，并赢得了全球客户的一致认可。作为一家技术型企业，皓元机械不断开发和研究新产品，以满足客户多样化需求。本着“以客户为中心，以质量为先”的原则，皓元机械致力于向客户提供优质产品和完善的售后服务。凭借多年市场开拓经验与设备运营管理经验，在制定完善的产品质量标准 and 用户需求标准方面具备灵活性与完善性。

Shandong Haoyuan Machinery Co., Ltd. is situated in Jinan City, Shandong Province. With over 15 years of history, it has established itself as a reputable high-tech enterprise that holds ISO9001 and CE certifications. Specializing in the research, development, production, and sales of mechanical equipment products, Hao-yuan offers a wide range of more than 200 varieties including wood pellet machines, wood mills, sawdust mills, dryers, pellet coolers, pellet packaging machines etc. These products find extensive applications in biomass energy generation, feed processing industry organic fertilizer production environmental dust removal systems and biomass power generation plants worldwide. Our commitment to customer satisfaction has earned us unanimous recognition from global clients. As a technology-driven enterprise, Hao Yuan Machinery continuously develops new products to meet diverse customer needs while adhering to the principles of "customer-centricity" and "quality first". We strive to provide customers with top-notch products accompanied by impeccable after-sales service. Drawing upon our extensive experience in market development and equipment operation management we have formulated comprehensive product quality standards aligned with user demands



平模颗粒机 Flat mold pellet machine

产品介绍 Introduction

平模制粒机适用于各种生物质材料和农业废弃物的压制，如：木材锯末、草、玉米秸秆、小麦秸秆、稻秆、碎坚果壳等农业废弃物转化为燃烧目的生物质燃料颗粒，当然这种平模制粒机也适用于压榨有机肥颗粒或动物饲料颗粒

The flat die pellet machine is good for press different kind of biomass materials and agriculture waste, such as : wood sawdust, grass, corn straw, wheat straw, paddy straw, ground nuts shell and other agriculture waste into burning purpose biomass fuel pellets, of course this flat die pellet maker also good for press organic fertilizer pellets or animal feed pellets



技术参数 Technical Parameter

型号 Model	功率 Power(kw)	颗粒尺寸 Pellet Size(mm)	产量 Capacity(kg/h)	尺寸 Size(mm)	重量 Weight(kg)
HYP250	15	6-12mm	100-200	1120*440*1060	400
HYP300	22	6-12mm	200-400	1280*560*1220	800
HYP350	30	6-12mm	300-500	1300*530*1220	900
HYP450	45	6-12mm	600-800	1620*690*1600	1500
HYP550	55	6-12mm	800-1000	1700*690*1600	1600

生物质颗粒机

Wood pellet machine

产品介绍 Introduction

新一代立式生物质颗粒机（又称木屑颗粒机）是国内最新一代的生物质颗粒机。该设备采用大模数硬齿螺旋齿轮箱和强化主轴，具有强劲功率输出，自动化程度高，运行稳定以及低故障率和生产成本。

The new generation vertical wood pellet machine(also wood pellet mill) is the latest generation wood pellet machine in China. The wood pellet machine adopts a large modulus hard toothed helical gearbox, strengthened spindle, strong power output,high degree of automation, equipment stable operation, low failure rate, low production cost.



木屑颗粒机适用于:桉树、松树、桦树、杨树、水果、农作物秸秆、竹片、稻壳、废木板等

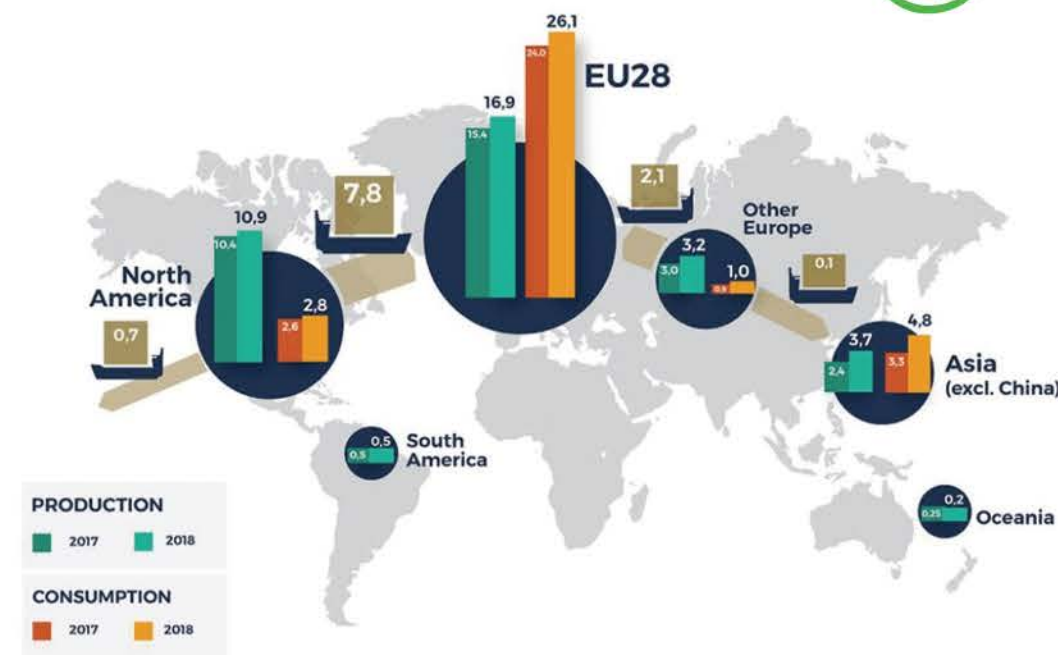
Wood pellet machine suitable for: eucalyptus, pine, birch, poplar, fruit, crop straw, bamboo chips, rice husk, waste wood plate, etc

上置式模具，特殊结构，垂直进料，更容易散热:物料垂直进入制粒室，进料顺畅，;不需要其他辅助动力装置。

1Upward mould, special structure, vertically feeding and easier heat dissipation: feed the material into the pelletizing room vertically and is well placed; no other auxiliary power device is needed.

双层模具，多功能，高效率:模具上有上、下两部分，客户可选择两种不同孔径，生产不同规格的颗粒。当颗粒成型好时，我们可以提高压辊和双层模具，以达到四倍的产量。

Double-layer die, multi-function, high efficiency: die has upper parts and lower parts, customers can choose two different specifications of aperture to producedifferent specifications of pellets. When pelletizing good bonding materials, we can heighten the rollers and two-layer dies to reach four-fold capacity.



铸造工序更先进

Casting process is more advanced

颗粒机齿轮箱外壳铸造材料选用具有刚性好、散热快、抗热变形能力强和稳定性优的铸件。

The casting material of the gearbox shell of the pellet machine is made of castings with excellent rigidity, heat dissipation, heat deformation resistance and stability.

木屑颗粒机采用不锈钢模具，具有出色的耐磨性和高容量。

Stainless steel Die of wood pellet machine with high wear resistance and high capacity.

技术参数

Technical Parameter

型号 Model	功率 Power(kw)	颗粒尺寸 Pellet Size(mm)	产量 Capacity(t/h)	尺寸 Size(mm)	重量 Weight(t)
HYJ560	90/132	6-12mm	1-1.5	2200*1300*1600	5.3t
HYJ700	160	6-12mm	2-3	2400*1400*1800	7.8t
HYJ850	220/250	6-12mm	3-4	3000*1500*2300	13t



Wood



Sawdust



Straw



Shell



EFB

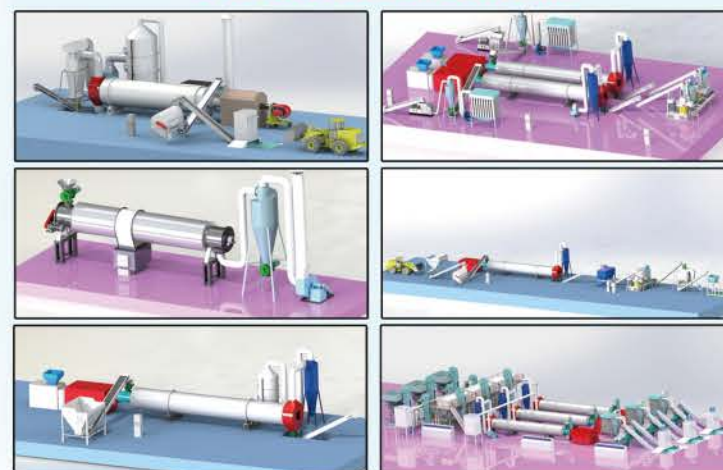


Bamboo

Three layer dryer



Dryer production line rendering



烘干设备 Drying Equipment

烘干能力大

运转平稳

能耗低

安全性高

操作方便

产量高



产品介绍 Introduction

烘干机是颗粒生产线的第三段，主要针对水分较大的原料，烘干10-15%的水分，保证颗粒机的工作效率

滚筒烘干机主要用于烘干水分大的原料，适用范围广，新一代滚筒烘干机配有防尘和冷却系统，配备温度仪表可通过控制面板控制输入、输出温度，故障率低，操作平稳简单。

The dryer is the third section of the pellet production line, mainly for raw materials with large moisture, drying 10-15% moisture to ensure the efficiency of the pellet machine

Drum dryer is mainly used for drying raw materials with large moisture, a wide range of application, the new generation of drum dryer is equipped with dust and cooling system, equipped with temperature instrument can control the input pure output temperature through the control panel, low failure rate, smooth operation, simple operation,

技术参数 Technical Parameter

型号 Model	内径 Internal diameter (mm)	功率 Power(kw)	烘干量 Evaporation (t/h)	倾角 Gradient
HYHG1.2*12	1200	5.5+15+2.2+1.5	0.3-0.6	2-3°
HYHG1.5*12	1500	11+18.5+3+2.2	0.47-0.91	2-3°
HYHG1.8*18	1800	18.5+37+3+2.2	1.01-1.90	2-3°
HYHG2.0*18	2000	18.5+55+5.5+2.2	1.25-2.3	2-3°
HYHG2.2*24	2200	22+90+5.5+2.2	2.02-3.36	2-3°
HYHG2.5*24	2500	22+90+5.5+3	2.61-4.16	2-3°
HYHG3.0*24	3000	30+132+5.5+3	3.76-5.6	2-3°
HYHG3.5*24	3500	18.5+18.5+160+5.5+3	5-7	2-3°

物料与热风接触面高，热效率高，干燥效果好

The material and hot air contact surface is high, the thermal efficiency is high, and the drying effect is good.

结构设计合理，便于维修、维保

The structure design is reasonable, which is conducive to maintenance

适用范围广泛，可用于粉末、木屑、丝绸等物料的干燥。

The material has a wide range of applications, can be used for the drying of powder, wood chips, silk materials, etc.

破碎机 Wood chipper



产品介绍 Introduction

本机加工原料广泛，可加工木材如各类小径木、板皮、板条、圆木芯、建筑模板等，以及各类非木质原料如各类散装秸秆、棉柴、芦苇等，适用范围广。

本机采用链板式智能进料，可根据主电机负荷自动调节进料速度。使机器满负荷运转避免空载运行，使进料更加顺畅，大幅度提高生产能力，是生物质电厂的理想首选设备。

This machine can process a wide range of raw materials, such as all kinds of small wood, board, slats, log core, building templates, etc., and all kinds of non-wood raw materials such as all kinds of bulk straw, cotton wood, reed, etc., a wide range of application.

The machine adopts chain-plate intelligent feeding, which can automatically adjust the feeding speed according to the load of the main motor. Make the machine run at full load to avoid no-load operation, make the feed more smoothly, greatly improve the production capacity, is the ideal choice of biomass power plant equipment.

技术参数 Technical Parameter

型号 Model	刀辊转速 SPEED OF KNIVES ROLLER	刀片数 NUMBER OF KNIVES(PIECES)	电机功率 MAN MOTOR POWER	产量 CAPACITY (H/T)	重量 WEIGHT(kg)
HY-216	650	4/24	160	10-15	15000
HYP-1400	800	4/28	200	15-20	17000
HYP-1600	800	4/36	280	20-30	28000

粉碎机 Wood Hammer Mill



产品介绍 Introduction

粉碎机是颗粒生产线的第二段，其作用是将破碎的木材粉碎成粉状物料，为进入颗粒机做准备。
高效粉碎机工作原理是将原料进入工作腔，然后在高速旋转转子所产生的冲击力和剪切力以及高速旋转转子所产生的碰撞力的作用下进行破碎，然后通过筛网得到合格的产品。

The crusher is the second section of the wood pellet production line, and its role is to crush the broken wood into powdery materials to prepare for entering the pellet machine.

High efficiency hammer mill working principle is that the raw material go into the grinding room, then will be grinding by the impact force and shear force caused by high speed rotating rotor and collision force caused by the high speed rotating rotor, then pass through the screen to get the eligible products.

技术参数 Technical Parameter

型号 Model	刀片数 NUMBER OF KNIVES(PIECES)	粉碎尺寸 CHIPS SIZES(mm)	产能 CAPACITY (H/T)	功率 MAN MOTOR POWER(kw)	重量 WEIGHT(kg)
FS75×55	75	6-14mm	1-2	55	1500
FS75×75	108	6-14mm	2-3	75-90	3000
FS75×100	144	6-14mm	3-4	90-110	41840
FS75×120	216	6-14mm	6-8	132-160	52000
FS1530-1500	250	6-14mm	8-12	200-250	65000

本系列粉碎机结构合理、坚固耐用、安全可靠、安装简单、操作方便、振动小、效率高等优点，是各种木屑、刨花、草、秸秆、玉米、杂草、大豆、PVC发泡板、橡胶等最理想的粉碎设备

This series wood hammer mill has reasonable structure, sturdy and durable using, safety and dependable, simple installation, easy operation, tiny vibrating, high efficiency etc. advantages, which is the most ideal grinding equipment of all kinds of wood chips, wood shavings, grass, straw, stalk, corn, weeds, soybean, PVC foaming board, rubber and so on.

燃烧器

Biomass Burner

产品介绍 Introduction

燃烧器原料是将生物质颗粒送入燃烧室进行直接燃烧，而燃烧后的热能可直接供应给，锅炉，喷涂、压铸、酒店、热处理等供热设备使用

The raw material is the biomass particles into the combustion chamber for direct combustion, and the heat energy after combustion can be directly supplied to the boiler, spraying, die casting, hotel, heat treatment and other heating equipment

运行可靠。投资回报快。燃烧室采用耐高温材料。

Reliable operation. Quick return on investment. The combustion chamber is made of high temperature resistant material.

智能操作控制进料、温度、压力，安装简单

Intelligent operation control feed, temperature, pressure, burner installation simple installation



技术参数

Technical Parameter

型号 Model	输出热量 Thermal Output	功率 Power(kw)	储存原料 Storage ForMaterial	满负荷 Full Load Required Materials	重量 Weight
HYR-30-FL	30万大卡/H	0.75KW/H	125kg	65kg	400kg
HYR-45-FL	45万大卡/H	1.0KW/H	160kg	100kg	700kg
HYR-60-FL	60万大卡/H	1.5KW/H	300kg	135kg	1000kg
HYR-120-SL	120万大卡/H	3.0KW/H	500kg	260kg	3000kg
HYR-240-SL	240万大卡/H	5.5KW/H	1000kg	530kg	4500kg
HYR-360-SL	360万大卡/H	7.5KW/H	1500kg	800kg	6000kg
HYR-480-SL	480万大卡/H	9.0KW/H	2000kg	1060kg	7500kg
HYR-600-SL	600万大卡/H	11.0KW/H	2600kg	1350kg	9000kg

冷却设备

Counter Flow Cooler

产品介绍 Introduction

该设备主要用于高温颗粒造粒后的冷却，降低颗粒的温度和湿度，以便于运输、储存

The equipment is mainly used for the cooling of high temperature particles after granulation, reducing the temperature and humidity of particles, so as to facilitate transportation, storage and storage.

本机采用模块化结构安装，便于运输和客户现场组装；

the machine adopts modular structure installation, easy to transport and customer on-site assembly;

采用独特的振动机构卸料，操作平稳，卸料顺畅

the use of unique vibrating mechanism discharge, smooth operation, smooth discharge

设有料位装置，实时监控物料在仓内的位置，自动化程度高

set the material level device, real-time monitoring of the material position in the bin, high degree of automation

采用逆流冷却原理，使颗粒冷却充分均匀

the use of countercurrent cooling principle, particles cooling fully and evenly.



技术参数

Technical Parameter

型号 Model	功率 Power(kw)	产能 Capacity(t/h)
HYL-1.2	5.5	0.8-1.5
HYL-1.5	7.5	1.5-3
HYL-2.5	11	2-4
HYL-4	22	4
HYL-6	30	8-10

易损件 Spare Parts

颗粒机易损件



压轮轴承
Roller Bearing



模具
Ring Die



压轮皮
Roller Shell



压轮轴
Roller Shaft



压轮总成
Roller Assembly

易损件 Spare Parts

平模压轮总成

FLAT DIE ASSEMBLY



锤片 & 筛网



破碎一体机锤片
TR-C Hammer



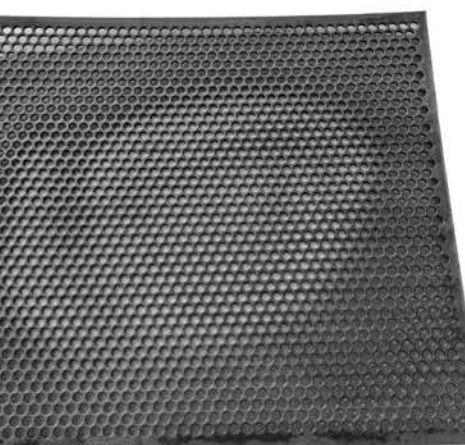
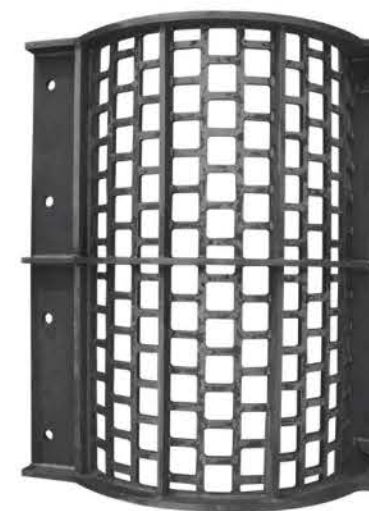
粉碎机锤片
Hammer of Hammer Mill



破粉一体机筛网
TR-C Screener



木片机筛网
Wood Chipper Screener



粉碎机筛片
Hammer Mill Screener

辅助设备 Auxiliary Equipment

包装系列



包装机
Packaging Machine



吨包秤
Jumbo Packaging Machine

输送连接系列



皮带机
Belt Conveyor



大倾角皮带机
Z-Type Belt Conveyor



螺旋输送机
Screw Conveyor



震动输送机
Vibrating Conveyor



明火沉降室
Open Fire Settlement Room

辅助设备 Auxiliary Equipment

输送连接系列



带式除铁器
Belt-Type Iron Separator



磁板除铁器
Magnetic Plate Iron Separator

料仓系列



液压仓
Moving Floor Hydraulic Silo



液压长方仓
Hydraulic Rectangular Warehouse

除尘系列



脉冲除尘器
Pulse Dust Collector



布袋除尘器
Bag Dust Collector

木屑颗粒生产线

WOOD PELLET PRODUCTION LINE



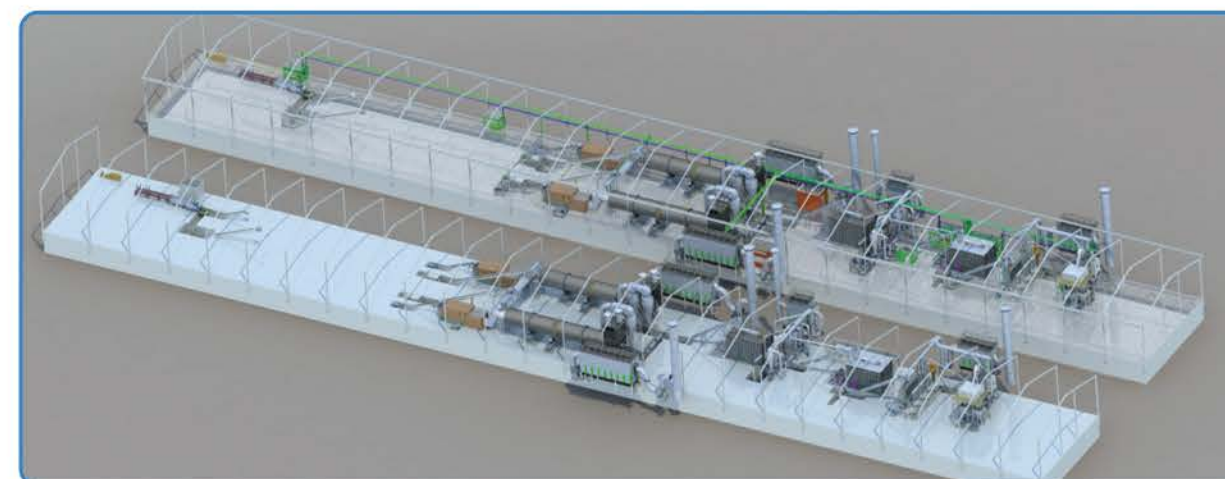
木屑颗粒生产线

WOOD PELLET PRODUCTION LINE



大型工艺图

LARGE SCALE PROCESS DIAGRAM





我们承诺提供无与伦比的
客户服务体验和
具有市场竞争力的价格保证！

WE PROMISE AN UNPARALLELED CUSTOMER SERVICE EXPERIENCE
AND A GUARANTEE OF MARKET-COMPETITIVE PRICING!

