

BIOMASS ENERGY EQUIPMENT SOLUTIONS PROFESSIONAL PROVIDER



CONTACT US

86-0531-83318718
86-0531-83223999

86-0531-83769999
86-0531-83769999

info@rotexmaster.com
machine05@rotexmaster.com

www.rotexmachine.com
www.yuguanjixie.com

Caofan Town Zhangqiu City Shandong Province China

BIOMASS ENERGY

**PRODUCT
INTRODUCTION**

ROTEXMASTER

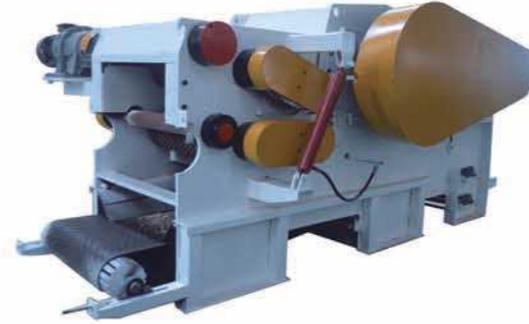


■ CRUSHING SERIES ■ GRINDING SERIES ■ DRYING SERIES ■ PELLETIZING SERIES ■ COOLING SERIES

■ PACKING SERIES ■ ELECTRICITY CONTROL SERIES ■ STORAGE SERIES ■ DEDUSTING SERIES ■ SPARE PARTS SERIES



■ CRUSHING SERIES



DRUM WOOD CHIPPER



The drum wood chipper is composed of a machine base, a knife roll, an upper and lower feeding mechanism, a feeding device and a hydraulic buffering system, and is mainly used for crushing materials such as logs, small-diameter wood, branches, boards, slats, and bamboo.

Features:

1. Stable structure, high productivity and low processing cost
2. The size of the feed port is large, which facilitates the entry of materials and increases the production capacity.
3. The number of rotor blades is adjustable, the material is even after crushing
4. The material adapts to a wide range, not subject to moisture restrictions

Model	Power(kw)	Capacity(t/h)	Inlet(mm)	Chips size(mm)
YMPJ216	55+3+4+1.5	3-5	545*230	30*30*5
YMPJ218	110+5.5+5.5+1.5	6-10	710*360	30*30*5
YMPJ2113	315+11+11+3	15-25	1100*530	30*30*5



COMPREHENSIVE WOOD CHIPPER



The drum wood chipper is composed of a machine base, a knife roll, an upper and lower feeding mechanism, a feeding device and a hydraulic buffering system, and is mainly used for crushing materials such as logs, small-diameter wood, branches, boards, slats, and bamboo.

Features:

1. Stable structure, high productivity and low processing cost
2. The size of the feed port is large, which facilitates the entry of materials and increases the production capacity.
3. The number of rotor blades is adjustable, the material is even after crushing
4. The material adapts to a wide range, not subject to moisture restrictions

Model	Power(kw)	Capacity(t/h)	Inlet(mm)	Chips size(mm)
YMPJ216K	90+5.5+5.5+1.5	4-8	1200*280	30*30*5
YMPJ1280	160+7.5+3+3	12-15	1120*500	30*30*5
YMPJ1400	220+7.5+3+3	15-20	1240*700	30*30*5



MOBILE WOOD CHIPPER

The mobile wood chipper is a more flexible chipping device produced by Rotexmaster. Diesel engine as driving force, can be traction outdoor production, high mobility, better mobile production. The mobile wood chipper. Mainly used for crushing branches, trunks, bamboo, hemp pole, tobacco rods, straw and other materials. Crushed material size 1-3cm, thickness 5mm. The mobile wood chipper is the better choice for processing waste wood materials.

Advantages of mobile wood chipper:

1. Diesel engine as driving force, machine mobile, high flexibility.
2. Large inlet size, suit to wide range of materials.
3. Feeding roller positive and negative adjustable to prevent material clogging

SAWDUST MACHINE



Sawdust machine is a crushing equipment that processes large-diameter wood into powder directly. This machine has superior performance and low cost.

Features of sawdust machine :

1. Direct formation, simple operation, less labor
2. Suitable crushing big diameter material, solve the limitation of raw material size of traditional fine powder machine
3. Small footprint, high efficiency, low investment



STRAW ROTARY CUTTING MACHINE



Spray type straw rotary cutter is a professional crushing equipment to crush bundled straw material, cutting the bundles of material into 3-5 cm through the high speed running of the rotors. The compact structure and reasonable design, stable performance, easy to operate, mainly used for crushing bundled straw, corn stalks, rice straw, soybean stalks, tobacco etc.

Features of straw rotary cutting machine.

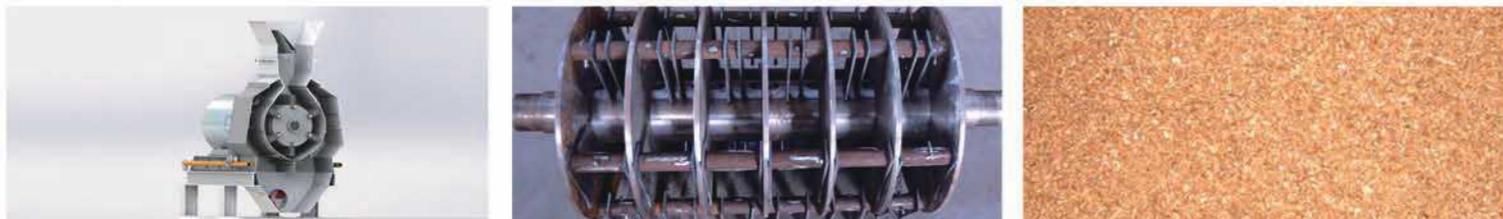
1. Large feeding size, easy to feeding materials, feeding quickly.
2. High capacity, high efficiency.
3. Adopts gear-driven rotation dialing, crushing the raw materials thoroughly.
4. Spray out of the material, smooth discharging, improve production capacity.

Model	Capacity (t/h)	Power (kw)	Weight (t)	Measurement (mm)	Remarks
YGRC-2000	2-4	75*2+3	4.5	4000*2600*2550	Includes 4m feed belt
YGRC-3000	5-7	90*2+3	7.0	5000*3500*2600	Includes 4m feed belt

GRINDING SERIES



HIGH EFFICIENCY HAMMER MILL



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

Features:

- 1.The motor connect rotor directly, the rotating speed can be 3000r/min, lower power loss and higher efficiency.
- 2.Discharge from both sides, increased the discharge area and improved capacity.
- 3.The machine body adopts unique structural design, discharge smoothly with seamless.
- 4.The particle of screen can be adjusted, ensure finished products requirement.
- 5.Work with Cyclone and Bag Dust Collector, more better dedusting efficiency.

Model	Power (kw)	Measurement (mm)	Capacity (t/h)	Hammer
YGFS65X55	37-45	1995*1090*2375	1-2	48
YGFS65X75	55-75	2555*1110*2395	2-3	72
YGFS65X100	90-110	2910*1230*2430	3-4	96



DOUBLE ROTOR HAMMER MILL



The double rotor hammer mill contains two rotors, and the two rotors rotate relative to each other, increasing the probability of the frontal impact of the hammer on the material. increasing the collision between a part of the particles and the other particles, and smashing without dead angles, thereby improving efficiency. It is widely used in the preparation section of small and medium-sized particleboard and fiberboard biomass enterprises, and can also be used for self-employed wood chips crushing sections.

1. The design is reasonable, scientifically utilizes the working principle of the hammer mill, and improves the speed of the material of the crusher.
2. The design changes the movement line of the material in the pulverization chamber, fully utilizes the space of the pulverization chamber to enlarge the pulverization area, and protects the sieve piece to the utmost extent, so that the service life of the sieve piece is more than doubled.
- 3,The machine runs smoothly, when running, the smoothness is better than the single rotor high efficiency hammer mill.
- 4, Stable operation, large output, always used in large crushing lines .

Model	Power (kw)	Measurement (mm)	Capacity (t/h)
YSFS65X75	75*2	2555*1110*2395mm	4-5T
YSFS65X100	90*2/110*2	2910*1230*2430mm	5-6T



■ DRYING SERIES



BIOMASS BURNER



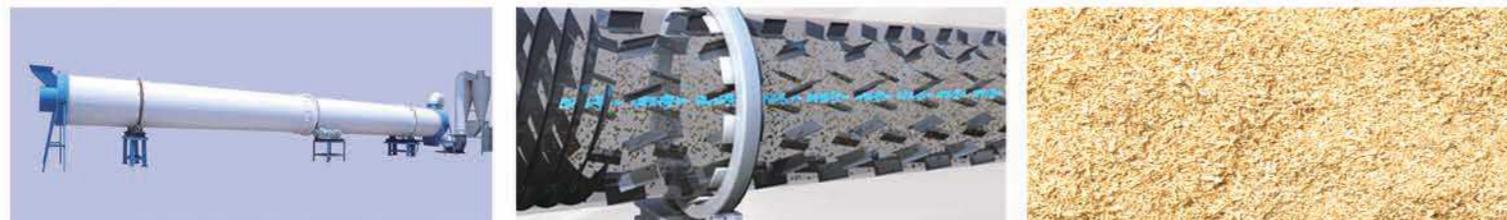
Biomass burner use biomass pellets, wood chips, etc as fuel, in suspension, boiling, half gasification, pyrolysis combustion way, produce hot flame, through radiation, convection heat transfer send the high temperature to thermal equipment. It's a high efficiency and environmental equipment which mainly make up of automatic feeding system, fan blower, high temperature pyrolysis half gasification burning room, bocca ignition system, provide brand new rebuilt technical plan for fossil fuel equipment change to clean fuel, get customers' favour, widely used in food processing industry, printing industry, coating industry, baking varnish, heating, bath, etc industry.

1. Environmental protection features: biomass burning emissions, zero emissions of carbon, nitrogen oxides, sulfur dioxide dioxide emissions is low;
2. Less investment, quick capital recovery;
3. Convenient transportation, transportation radius small, fuel price stability;
4. Convenient operation, safe, long service life;
5. Wide range of load adjusting, strong adaptability.

Model	Thermal power (10000Kcal)	Power (kw)	Measurement (mm)
YSKR45	45	0.75+1.1	1800*950*2040
YSKR60	60	1.5+2.2	1900*1000*2250
YSKR90	90	1.5+2.2	2200*1050*2250
YSKR120	120	1.5+2.2	2500*1200*3400
YSKR180	180	3+4+1.5+1.5	3270*1900*3440
YSKR240	240	3+5.5+1.5+1.5	3500*2100*3730



ROTARY DRYER



The rotary dryer is mainly composed of a cylinder body, a roller ring, a base retaining roller and a tail dust removing device. The hot air and the material are contacted in the cylinder body, and the material is designed to make the material and the hot air fully contact to achieve the drying effect.

Features:

1. The design of the lifting plate in the cylinder is Multi-angle, so that the material forms a curtain in the cylinder.
2. The material and hot air contact surface is high, the thermal efficiency is high, and the drying effect is good.
3. The structure design is reasonable, which is conducive to maintenance.

Model	Power	Evaporation	Slope	Thickness
YGHG1.2*12	5.5+15+2.2+1.5 kw	0.3-0.6T/H	2-3°	10mm
YGHG1.5*12	11+18.5+3+2.2kw	0.47-0.91T/H	2-3°	12mm
YGHG1.8*18	18.5+37+3+2.2 kw	1.01-1.90T/H	2-3°	12mm
YGHG2.0*18	18.5+55+5.5+2.2kw	1.25-2.3T/H	2-3°	14mm
YGHG2.2*24	22+90+5.5+2.2 kw	2.02-3.36T/H	2-3°	14mm
YGHG2.5*24	22+90+5.5+3 kw	2.61-4.16T/H	2-3°	14mm
YGHG3.0*24	30+132+5.5+3kw	3.76-5.6T/H	2-3°	16mm



THREE CYLINDER DRYER



The three-cylinder dryer is composed of three cylinders. The material is swirled through three cylinders to fully utilize the heat to dry the material to the specified moisture requirements.

Features:

1. Three-tube design, high thermal efficiency utilization and large production capacity;
2. Three-tube structure, save space;
3. Suitable for large drying production lines such as sawdust and powder materials.

Model	Power	Evaporation	Rotating speed
YSHG1.8×10×3	2.2*4+37+3+2.2 Kw	0.8-1.4	4-10 r/min
YSHG2.2×10×3	3*4+55 +5.5+3Kw	1.2-1.8	4-10 r/min
YSHG2.5×10×3	5.5*4+75+5.5+3 Kw	2.0-3.0	4-10 r/min
YSHG3.0×10×3	5.5*4+90+5.5+3Kw	2.8-4.0	4-10 r/min



HOT AIR STOVE

The stove is mainly a device designed by Shandong Rotex Machinery Co., Ltd. to provide heat source for drying equipment. It adopts indirect heat transfer technology and use clean air as heat transfer medium to meet the heat required for drying.

Features:

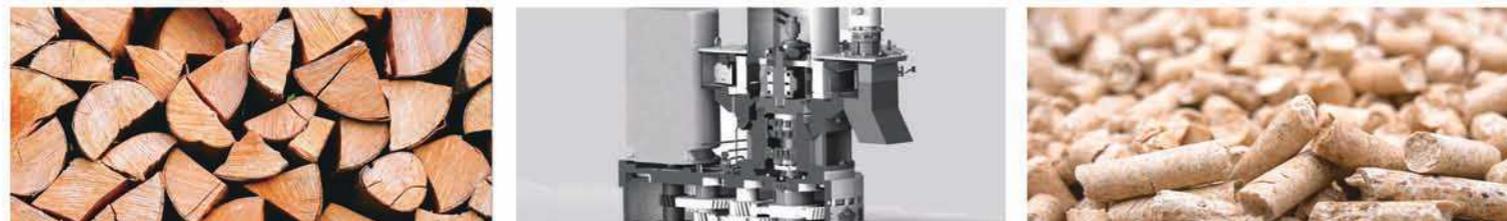
1. According to different raw materials and heat demand, divided into hand stove, chain stove and reciprocating grate stove.
2. The fuel range is wide, such as wood chips, wood blocks, wood strips, coal, etc.
3. It is composed of refractory bricks and pouring materials, high security, long service life.

Model	Power (kw)	Calorific value (10000Kcal)	Effective area (m ²)
YLRL-2	2.2+3	120	3
YLRL-4	3+5.5	240	6.5
YLRL-6	3+7.5	360	7.4
YLRL-8	4+7.5	480	12
YLRL-10	5.5+11	600	17

■ PELLETIZING SERIES



CENTRIFUGAL VERTICAL RING DIE PELLET MACHINE



The new vertical centrifugal pellet machine is the latest pellet machine in China. The pellet machine adopts a large modulus hard toothed helical gearbox, strengthened spindle, strong power output, equipment stable operation, low failure rate, low production cost. It is the preferred machine model in the biomass industry.

Machine features:

- 1.Strong automation, stable operation, no need special care.
- 2.Increase discharging area, increase production capacity.
- 3.Roller without lock, less grease consumption, extended bearing life.
- 4.heavy-duty gearbox transmission, gear strength is enhanced 5-10 times, low failure rate, strong stability.
- 5.Circulating gear oil lubrication, reduce greasel consumption costs, protect bearings.

Model	Power (kw)	Pellet size (mm)	Capacity (t/h)	Measurement (mm)	Weight (t)
YGKJ560	90/110	6-12	1.0-1.5	2200*1300*1600	5.8
YGKJ700	132/160	6-12	2.0-3.0	2400*1400*1800	7.8
YGKJ880	220	6-12	3.0-4.0	3000*1500*2300	12



VERTICAL RING DIE PELLET MACHINE



The vertical ring die pellet machine absorbs the advantages of the horizontal ring die pellet machine and the flat die pellet machine, abandoned the horizontal ring die pellet machine low pressure, mold is easy to burst, flat die pellet machine low capacity, equipment failure high, then research and development the biomass fuel pellet machine. Presses the eucalyptus, pine, birch, poplar, fruit and crop straws and bamboo sawdust into pellets.

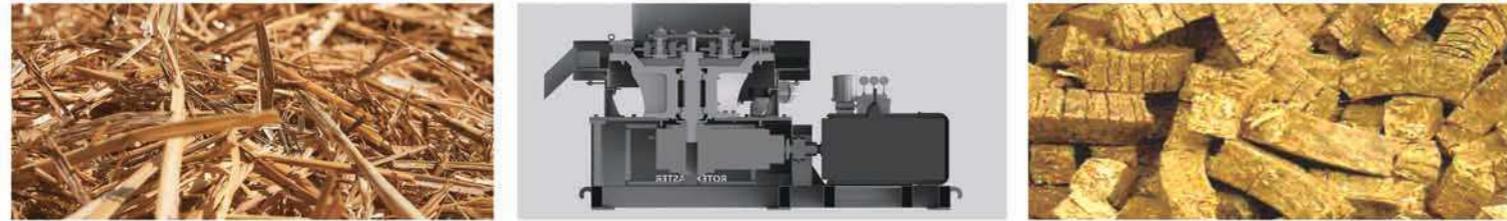
The Features of Pellet Machine:

- 1.The mold is vertical, vertical feeding material, no arching, easy to dissipate heat.
- 2.Mold stationary vertical installation, the machine is easy to fix, operation smoothly.
- 3.Roller rotating, the centrifugal force generated causes the material to be evenly distributed around.
- 4.Double-layer die, two layers both can be used, to reduce costs and increase efficiency.

Model	Power (kw)	Pellet size (mm)	Capacity (t/h)	Measurement (mm)	Weight (t)
YGKJ380	22+1.1	6-12	0.3-0.5	1500*700*1470	1.3
YGKJ450	55+1.5+1.1+0.37+0.55	6-12	0.8-1.0	2400*1000*2100	4.0
YGKJ560-A	90+1.5+0.37+1.5+0.55	6-12	1.0-1.5	2600*1300*2300	5.8
YGKJ680	160+1.5+0.55+1.5+0.55	6-12	1.5-2.5	3300*1500*2600	8.5
YGKJ850	220+3+0.55+2.2+0.55	6-12	2.5-3.5	3800*1830*3080	15



BIOMASS BRIQUETTING MACHINE



The biomass briquette machine is a machine that press crushed straw (within 5cm) or the sawdust etc. raw material, moisture content 10-25%, squeezes out 3cm piece of finished product. The rotation of roller is driven by rotation of main shaft to generate centrifugal force to take the material from the mold hole.

Machine features:

- 1, High automation, less labor, simple operation, high efficiency.
- 2, Double roller structure to make the spindle uniform force, the machine runs smoothly, reduce power consumption
3. The mold and roller are made of special alloy material, which is wear-resistant, pressure-resistant and high-temperature resistant, continuous work without deformation.
4. The equipment adopts automatic oil filling mode, which supplies oil at regular time, saves energy, saves effort, saves time, greatly improving service life.
5. The machine suit to a wide range of materials: straw, husks, sawdust etc. agricultural and forestry waste all can be pressed.

Model	Power (kw)	Holes	Capacity (t/h)	Briquet size (mm)
YYKJ-2000	75	55	1.5-2.5	32×32
YYKJ-3500	110	72	2.5-3.5	32×32



FLAT DIE PELLET MACHINE



The flat-die pellet machine is a device with simple designed structure, high performance stability, and granulation by extruding of vertical centrifugal pressure between roller and die.

1. The motor is directly connected to the deceleration system, power output stability and efficiency highly.
2. The structure is simple, easy to operate, low maintenance cost.
3. Strong adaptability, be used for pressing feed pellet, cat litter pellet, organic fertilizer, biofuels, etc.

Model	Power (kw)	Pellet size (mm)	Capacity (kg/h)	Measurement(mm)	Weight (kg)
YMKJ-350	37	φ2.5-φ8	300-500	1650×800×1350	800
YMKJ-400	45	φ2.5-φ8	500-600	1700×800×1450	1000
YMKJ-450	55	φ2.5-φ8	600-800	1700×800×1450	1300
YMKJ-550	75	φ2.5-φ8	800-1000	2350×1000×2050	2200



HORIZONTAL RING DIE PELLET MACHINE



- 1. YHKJ series machine is wide adaptability of material , it can produce complete feed pellet with various requirements .
- 2. When produce material, the temperature is moderate, can maintain the microelements, good tasty and absorption
- 3. The finished feed pellet is high density , smooth surface, easy to storage and transport, also can store long time.
- 4. The feed pellet diameter can be adjusted between diameter 2mm and diameter 8 mm (change the die with different diameter), the length can be adjusted between 5-20mm, suitable for animal different growing period .

Model	Power (kw)	Capacity (t/h)	Pellet size (mm)
YHKJ250	22	0.6-1.5	2-8
YHKJ300	37	2.5-3.0	2-8
YHKJ350	55	4.0-6.0	2-8
YHKJ450	90	6.0-80.	2-8

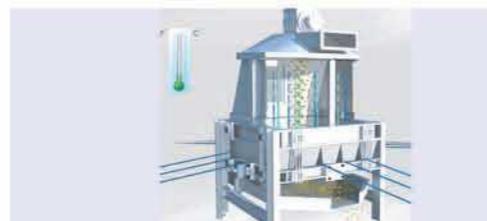


■ COOLING SERIES





COUNTERFLOW COOLER



Counter flow cooler is currently the more advanced new cooler; it uses the principle of countercurrent, cooling the high temperature and high humidity materials.

Vertical wind pass through the material layer, and touch the materials first, then the wind turn hot gradually and touch with the hot pellets, the wind direction is opposite with the material direction, make the pellets cooled gradually, avoid the pellets surface cracks due to its sudden cooling by touching with the cold wind. The air enters into the cooler from its bottom fully, wide entering area, high utilization rate, low energy consumption, easy operation, the cooling effect is remarkable.

Particles cooled sufficiently and evenly, using a unique slide valve is a mechanical vibration nesting, smooth operation, nesting smooth, granular temperature after cooling is not higher than 3-5 °C

Model	Capacity (t/h)	Volume (m ³)	Cooling time	Cooling temperature	Power (kw)	Air volume
YSKLN1.2	0.8-1.2t/h	1.2	≥10min	±10-15°C	0.18+4	5000m ³ /h
YSKLN1.5	1.2-2.0t/h	1.5	≥10min	±10-15°C	0.25+5.5	9000m ³ /h
YSKLN2.5	2.0-4.0t/h	2.5	≥10min	±10-15°C	0.25+15	13500m ³ /h
YSKLN4	4.0-6.0t/h	4.0	≥10min	±10-15°C	0.37+22	18000m ³ /h
YSKLN6	5.0-8.0t/h	6.0	≥10min	±10-15°C	0.37+37	27000m ³ /h



ROTARY SCREENER

Rotary screener mainly makes up with motor, reducer, roller device, frame, sealing cover, inlet and outlet.

The roller device is tilted on the frame. The motor is connected with roller device through shaft coupling by the reducer, and drive roller device around its axis of rotation. When the materials fed in the roller device, due to tilt and rotation of roller device, the material on the screen surface roll and rotate. Finally the qualified materials will be discharged through the discharge port at the bottom of roller, the unqualified materials will be discharged through the discharge port at the end of the roller device. Due to the material flip and scroll, the material stuck in screener will be pop up, to prevent the mesh plug.

Model	Capacity (t/h)	Measurement (mm)	Power (kw)
YGTS100x2	1-2	2800x1300x1460	1.5
YGTS130X3	1.5-4	4420X1500X3800	3
YGTS150x4	3-5	5160x1700x4400	4
YGTS180x5	5-10	6300x2200X2600	4
YGTS200x6	8-12	7000x2500x5000	5.5



VIBRATING SCREENER

YSKF series vibrating screener makes use of horizontal vibrating motor as vibration power, the material is tossed in the screen, meanwhile, put raw materials forward in a straight line, so called vibrating screener. Materials from the feeder machine evenly into the feeding inlet of vibrating screener, materials are discharged from their respective outlet through multi-screen, producing a different kinds of materials. With low energy consumption, high output, simple structure, easy maintenance, fully enclosed structure, no dust, automatic discharging, more suitable for pipeline operations.

Model	Capacity (t/h)	Power (kw)	Shock force (kg)	Vibration frequency (batch/min)	Processing area (mm)
YSKFZ60*2C	1-2	0.25*2	3000	920	1000*600
YSKFZ80*2C	2-4	0.25*2	5000	920	1500*800
YSKFZ100*2C	3-6	0.37*2	6000	920	1500*1000
YSKFZ120*2C	5-8	0.37*2	6000	920	1800*1000
YSKFZ150*2C	8-12	0.55*2	8000	920	2000*1200

PACKING SERIES

Ton Bag Packing Machine



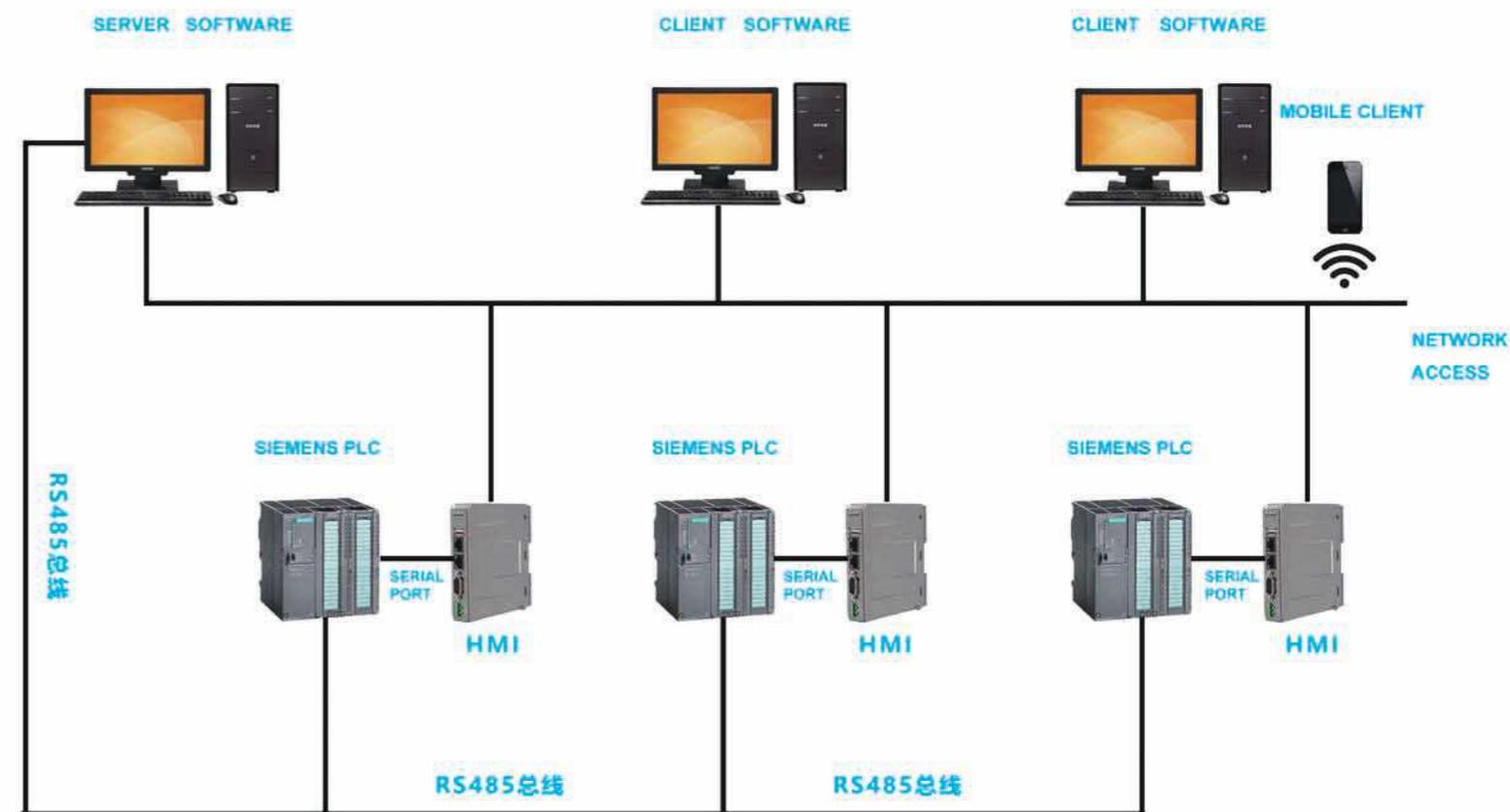
It is widely used to pack pellets, chips or powder from fine chemicals, food and oil industry, building material, rubber or plastic fields.
The weighing scope of semi-automatic packing machine is 500-2000 kg per bag with exact calibration.
According to material features and clients' factory, we will recommend different machine types for you, such as gravity feed for packing machine, screw feed etc.
Technical Parameters

Computer Controlled Packaging Machine



Computerized Packaging Machine is mainly composed by automatic weighing vessel, conveyor, sewing equipment, computer control box etc.
It is advanced design and combines weighing and packing. It saves labor and improves wood pellet bagging efficiency. What's more, it can largely improve the precision of pellet packing and at the same time will lower the damage to the pellets comparing with the labor work.
The packing machine adopt screw feeding with large, medium, small, three-speed control measure. It possesses top digital inverter and sampling technology, inter-

■ ELECTRICITY CONTROL SERIES





■ STORAGE SERIES



STORAGE SERIES



■ DEDUSTING SERIES



CONTAINER TURNING MACHINE





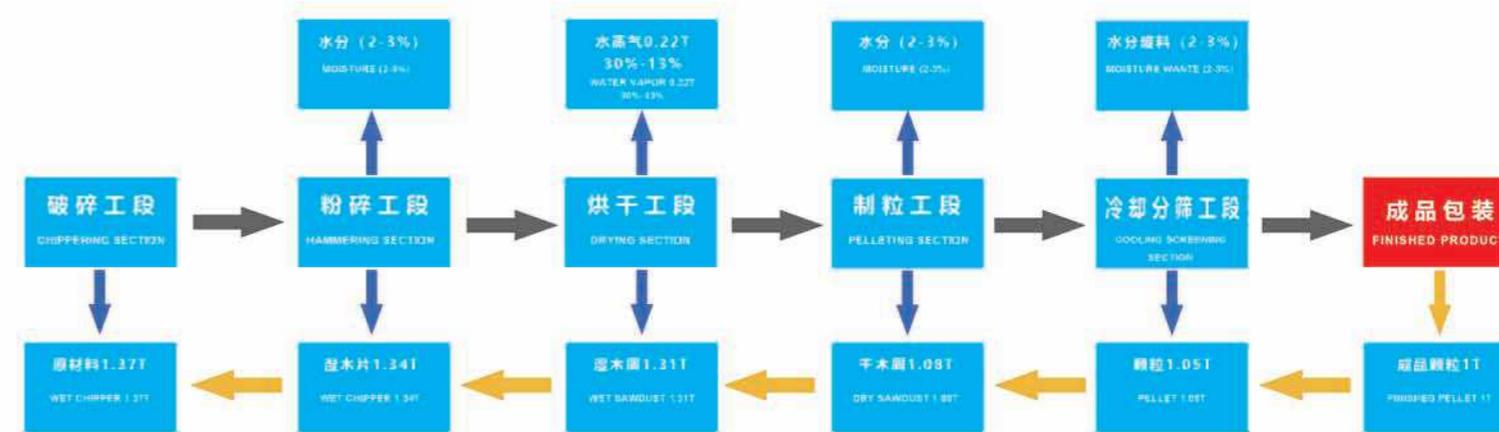
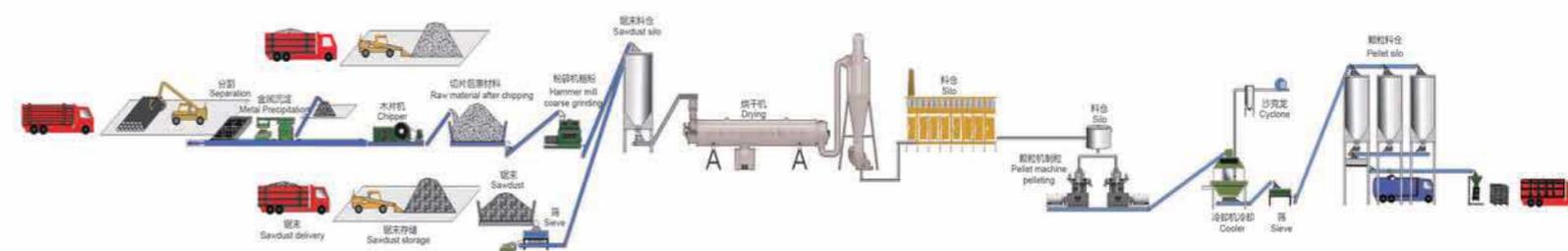
PULSE DUST REMOVAL EQUIPMENT

The pulse dust collector has the advantages of high purification efficiency, large gas processing capacity, stable performance, long life of the filter bag, convenient operation and small maintenance workload. The pulse dust collector is a new high-efficiency pulse dust collector improved on the basis of bag filter. It combines the advantages of sub-chamber back-blowing various pulse jet dust collectors, and overcomes the shortcomings of insufficient chamber cleaning strength and uneven distribution of inlet and outlet winds. Expanded the scope of application.



BAG DUST REMOVAL EQUIPMENT

The bag filter is a dry dust filter, it is suitable for capturing fine, dry, non-fibrous dust. The filter bag is made of woven filter cloth or non-woven felt. The dust filter is filtered by the filtering effect of the fiber fabric. When the dust-containing gas enters the bag filter, the particles are large and the dust is large, due to gravity. The action settles and falls into the ash hopper. When the gas containing fine dust passes through the filter material, the dust is retained and the gas is purified.



SPARE PARTS SERIES



Blade



Hammer



Grinding machine



Siemens motor



SKF Bearing



Delixi Electric



Screen



Rotor



Cyclone



Electric control cabinet



Fan blower



Die



Roller



Roller wrap



Screw conveyor



Belt conveyor



Bucket elevator

OFFER THE WORLD A BLUE SKY