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# Large Static Pellet Plants

## Large Static Pellet Plants up to 700Kg/h

We also promote larger scale pellet plants, up to 700Kg per hour. These set-ups include all the necessary processes for pellet production, include particle size reduction, drying, pellet compression, cooling with fines removal and even semi-automated bagging systems.

### Particle Size Reduction and Drying

Depending on size and diameter of the raw biomass material, it will dictate which size reduction equipment is required. The X Series line of industrial Wood Chippers and Hammer Mills are available, including the combined Chipper and Hammer Mill Solution shown in the picture below. Once the necessary size reduction has taken place, a rotary valve will drop the particles in to an auger leading in to GJ Series Rotary Dryer to remove sufficient moisture.

### Raw Material Conditioning and Pellet Compression

Once the required amount of moisture has been removed, the particles are now ready for pellet compression. The material leaves the GJ Series Rotary Dryer and through the cyclone separator into the mixer, which will give the raw material a good consistency. A vertical auger then takes the raw material up to the conditioner which will feed the pellet mill, both the vertical auger and conditioner are variable speed. Depending on the required productivity, a single or double set-up of ZLP 400 pellet mills are used, producing up to 700Kg/h.

### Pellet Cooling With Fines Removal

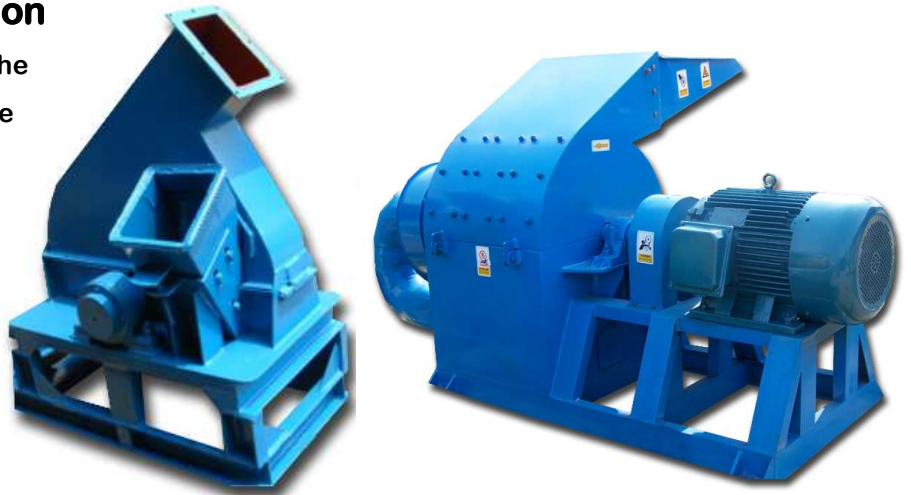
The pellets are then sent through a cooler and grade sieve, this cools the pellets and at the same time removes dust and under sized pellets, a dust bag filter is also included.



## Raw Material Size Reduction

The X Series of Wood Chippers and the FSP Series of Wood Hammer Mills are built for industrial applications and extensive use.

To increase automation and reduce labour, we recommend the combined X Series Wood Chipper and FSP Series Wood Hammer Mill Combined Solution.



## Combined Chipper and Hammer Mill Solution

To maximise the productivity of the large pellet plant, we recommend combining an X 116 Wood Chipper with 2m<sup>3</sup> Buffer Chip Storage Silo with Screw Feeder into a FSP 50\*60 Wood Hammer Mill. The package also includes Cyclone Separator, Air Lock and Electrical Control Cabinets.



**FOB Price USD 21,530**

## Rotary Dryer GJ 250

To maximise the productivity of the large pellet plant, we recommend a GJ 250 Rotary Dryer. The GJ 250 is a large automated rotary dryer. The speed of the drying process can be adjusted depending on raw material moisture content. A moisture meter is also included.

The GJ 250 come complete with: Screw Conveyor, Heat Stove, Rotary Drum, 10m Pipe Work, Cyclone Separator, Fan, Air Lock and Electrical Control Cabinet.



**FOB Price USD 26,953**

## Large Static Pellet Plant Pellet Compression

Once raw material size reduction and drying has taken place, the material is taken to the pellet compression unit.

The Cyclone from the Rotary Dryer drops the material into a Mobile Screw Conveyor which takes the material to the Horizontal Batch Mixer, and through two Conditioners leading to two ZLP 400 Flat Die Pellet Mills with a combined productivity of between 500 – 700 Kg/h.

1. Mobile Screw Conveyor
2. Horizontal Batch Mixer for material consistency
3. Vertical Screw Conveyor
4. Conditioner and ZLP 400 Flat Die Pellet Mill x 2
5. Pellet Cooler and Grade Sieve to remove fines
6. Fan and Dust Bag Filter to collect fines
7. Steel Frame and Tool Box and Tools
8. ZLP 400 Roller and Dies x 10

**FOB Price USD      55,788**



## Semi-Automated Packaging Machine

To increase automation and reduce labour, we recommend adding the pellet packaging system to the pellet plant. A bucket elevator is included to transport the pellets to the storage hopper with a volume of 1.5m<sup>3</sup> and a level indicator. The bagging system can weigh bags from 5 to 25kg, seal the bags and then the conveyor moves the bags off the system.

**FOB Price USD      15,491**



## Large Pellet Plant 500 –700 Kg/h Total

This large scale set-up is one example, other configurations can be discussed during consultation.

**FOB Price USD      119,762**

## FOB Price USD

The FOB price does not include shipping

## Need More Information and Help On How To Order?

At PelHeat we help all customers of the PelHeat Wood Pellet Production Guide order the best quality equipment, directly from the manufacturer at the lowest prices guaranteed. To Learn more, please click the link below:

[www.pelheat.com/wood\\_pellet\\_production\\_guide.php](http://www.pelheat.com/wood_pellet_production_guide.php)