Small Pellet Plants
The Quality Small Pellet Plants

If you wish to produce pellets on a small scale with equipment of the same quality and automation of professional industrial pellet plants, we can supply you with that equipment.

At PelHeat we only support the use of equipment made to the highest quality, with no compromise in the design of the equipment. This means that our pellet plants have a working life far beyond most small scale pellet plants and they also offer a level of automation and control unmatched by other plants.

Automation is a key aspect of the design of these pellet plants. Lower quality pellet plants are more manual in operation, and therefore require more operators to constantly monitor the situation. With higher labour costs through the life of the pellet plant, lower quality pellet plants actually cost more in operating costs and therefore significantly reduce profitability.

Our small scale pellet plants are controlled through a central master control panel that is aware of each stage of the process. It constantly monitors material and pellet flow to understand if the process is operating correctly. If an issue occurs such as more raw material is required the klaxon will sound to alert the operator, and the control panel will tell the operator where the issue is. Once the issue has been addressed the operator simply resets the pellet plant and the process continues.

This means that only a single operator is required, and that most of the time the operator can be performing other duties than constantly monitoring the pellet plant. This keeps labour costs to an absolute minimum and maximises profitability.

To see for yourself the quality and automation of the pellet plants please click the link below to see a series of videos.

http://www.pelheat.com/Small_Pellet_Plant_Videos.html

These Pellet Plants have been Designed and Manufactured In Great Britain
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The pellet plants come with a single or multiple pellet mills depending on the capacity you require. The advantage of having multiple pellet mills for a larger capacity is that plant down time is kept to a minimum or may not have to stop at all. For instance if you just have one large pellet mill that needs attention, the whole pellet line is stopped. However with multiple pellet mills each mill can be looked at individually, while the other pellet mills can keep working. A typical example of this is when the rollers and die needs to be changed.

Pellet plants can be from 200Kg/h with a single pellet mill and up to 2000Kg/h with multiple pellet mills. If you require a pellet plant past 2000Kg/h we have the Modular Pellet Plants.

We can provide the small scale pellet plants completely custom designed to your productivity needs and the characteristics of your raw material. If drying is required we can supply dryers, and like wise if you want a custom bagging facility for dumpy bags or small plastic bags for the domestic market we can supply complete solutions for this as well.

The pellet plants come as a turn-key operation. We don’t just provide individual equipment for you to figure it out, we provide a complete package. First we go through your needs and design you a custom pellet plant for you. Once the order is processed and the equipment is ready, we deliver to your location. We then install the equipment and completely wire up all the components to the central panel and power supply.

We then commission the pellet plant to check all the equipment is working correctly and show you how to operate the equipment correctly. This ensures that before the order is complete you are happy with operating the pellet plant.

The next page covers each process of the pellet plants.

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Raw Material Bin With Trough Auger and Hammer Mill
Material is fed from the bin via a trough auger into the hammer mill at a controlled rate. The hammer mill is a gravity system opposed to a cyclone hammer mill to reduce dust.

Binder Hopper and Inclined Auger To The Pellet Mill
Once the particles have been reduced to a suitable particle size (usually 4mm) then if required a powered binder can be added at a controlled rate. A typical binder would be modified corn starch at 1-3% inclusion. The raw material and binder are then mixed and transported to the pellet mill via an inclined auger.

The Pellet Mill Control Hopper, Turbulator and Die
The material is then fed into the turbulator which provides a consistent raw material for the pellet mill, water and vegetable oil may also be added at this stage to adjust compression within the pellet mill. At a controlled rate material is then fed into the pellet mill die where rollers compress the material to form a pellet, the pellets exit the mill at a very high temperature.

Pellet Sieve, Conveyor, Bagging and Storage
Fines are removed and sent back into the pellet mill. The pellets are then cooled and transported via a conveyor to the bagging facility. This covers the complete pellet plant operation.

Equipment Price Examples (Ex-Factory)

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Price (£)</th>
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</thead>
<tbody>
<tr>
<td>Hammer Mill 11KW</td>
<td>£9,450</td>
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<tr>
<td>Pellet Mill 18kW (200-250Kg/h)</td>
<td>£18,500</td>
</tr>
<tr>
<td>Pellet Mill 22kW (250-300Kg/h)</td>
<td>£19,800</td>
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</tbody>
</table>

The typical cost of a complete plant (250-300kg/h) completely installed and commissioned is around £70,000.

For more information please email: contact@pelheat.com

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