ALVAN BLANCH
Processing the World's Crops - Since 1952

# Pelleting Press



Model ABP420

- **Reduced feed transport cost**
- **Reduced wastage**
- **Improved feed palatability**
- **Prevention of mix separation**
- **Higher rate of weight gain**
- **Increased roughage inclusion**

## Aplication:

These Pelleting Presses are ideally suited to commercial feed mills as well as on-farm plants.

## Construction:

Alvan Blanch Pelleting machines are manufactured from the highest quality materials, and are designed for long, continuous operation and have a long life wearing parts.
The die is held vertically and rotates around two independently adjustable hardened and fluted friction rollers, each fitted with replaceable shells.
Power is transmitted from the motors via multi vee belt drives. Rapid changing of the die is assured by the design of the die clamp and the hinged door.
The mechanism is protected by a shear pin, which fails when heavily overloaded, and stops the machine.

## Dies:

These are constructed in chrome alloy steel to high degrees of tolerance. A wide range of hole sizes (2-16mm) and different specifications are available.

## Dies:

Mounted above the press, incorporating a variable speed screw feeder. This can be adjusted to achieve a constant maximised load on the press drive motors.

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# Pelleting Press

## Operation:

The conditioner screw feeder controls the flow rate into the press. In the conditioner, meal is mixed with steam, cooked and the starches gelatinised.
Steam addition achieves an optimum moisture level and temperature for good pelleting results. Molasses can also be added in the conditioner.
Conditioned meal is presented to the centre of the die. As the die revolves the rollers rotate and force meal into the holes where compression takes place. As pellets are extruded from the die they are cut off by adjustable knives before falling through the outlet in the base of the door. The pellets are hot



*Typical pelleting plant with belt conveyor transfer to counterflow cooler*

and soft and therefore require immediate cooling, in order to harden them suitably for mechanised handling or packaging. Normally, the cooled pellets are sieved to remove fine particles.



*ABP250 - Laboratory/small farm pellet press with single drive*

As with any press, good maintenance is of prime importance. This can be simplified by the addition of an optional automatic lubrication system.

## Options:

There are a range of options available for our pelleting presses, including stainless steel conditioner and screw feeder for longer life, especially useful where high temperatures or acidic materials are involved. Water or steam conditioning can be used for increased capacity and reduced wear. A range of steam boilers are available from Alvan Blanch with all of the necessary fittings. Fluted or dimpled rollers, and a range of die sizes from 2-16mm diameter are available.

Other Materials:
The Alvan Blanch range of pelleting presses are also capable of processing a wide range of other materials such as wood, straw, manure etc.

**SPECIFICATIONS**

| MODEL | DIE DIAMETER mm | MOTOR kW | | | |
|---|---|---|---|---|---|
| | | MAIN DRIVE | CONDITIONER | FEED SCREW | CAPACITY (tph) |
| ABP250 | 250 | 1x22 | 2.2 | 0.55 | 0.5-1 |
| ABP350 | 350 | 2x30 | 3 | 0.75 | 1-2.5 |
| ABP420 | 420 | 2x55 | 7.5 | 1.5 | 2.5-5 |
| ABP520 | 520 | 2x75 | 11 | 2.2 | 5-7 |
| ABP650 | 650 | 2x110 | 11 | 4 | 7-10 |
| ABP800 | 800 | 2x132 | 15 | 4 | 10-12 |

*NOTES*
*1) Drive units specified are those normally fitted, but for certain applications motors of alternative size are used.*
*2) Output figures are for guidance purposes only, based on 3.5mm die size and a typical feed ration after conditioning with steam.*

In accordance with our policy of continuous development, we reserve the right to change specifications and prices at any time without notice or incurring liability to purchasers.
All goods supplied according to our published terms and conditions of sale (copies on application)

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