

STRAW PROCESSING AND PELLETING



GENERAL DIES

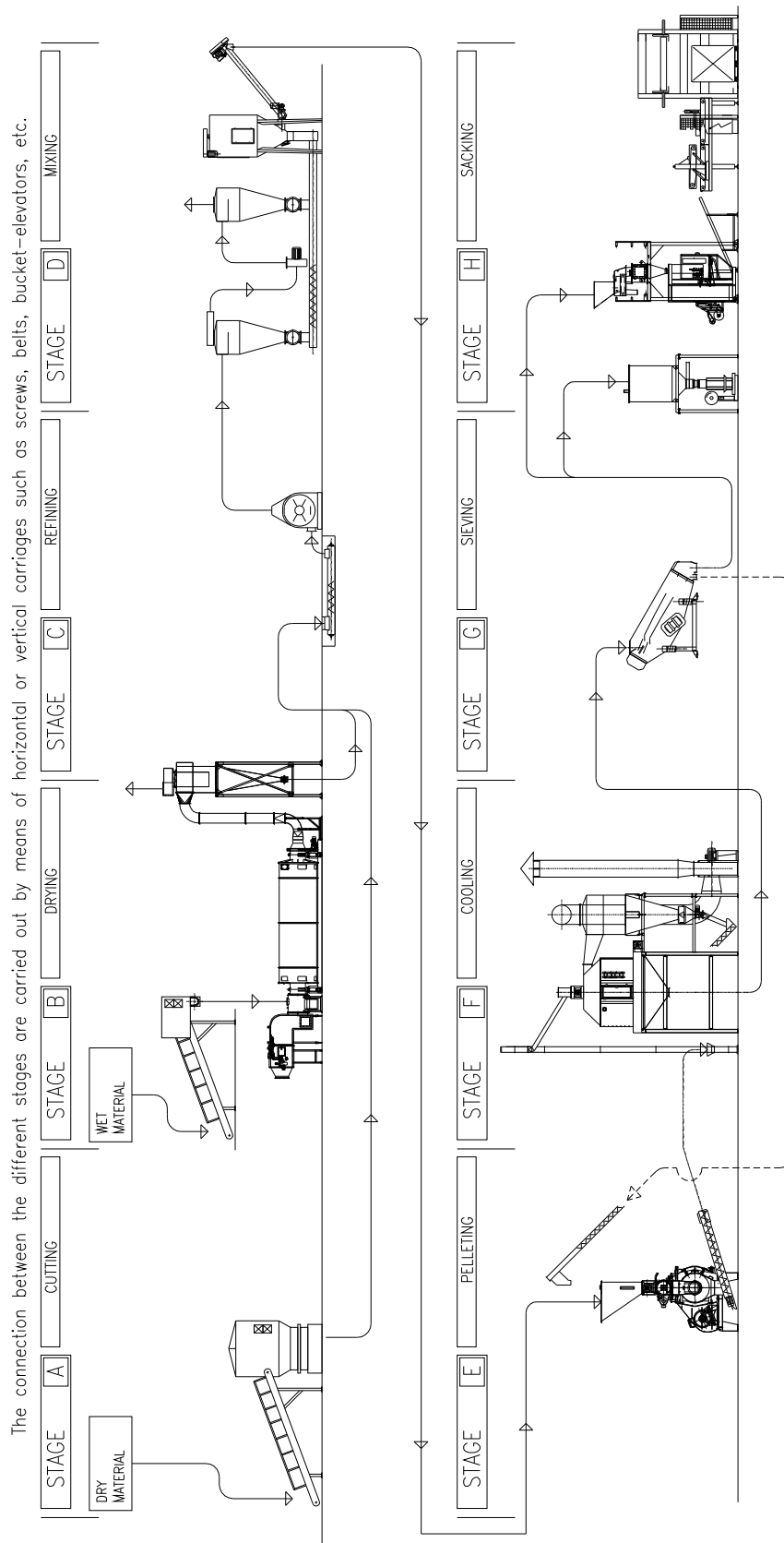


JANUARY 2009



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STAGE “A” CUTTING

The cutting stage is required for the size reduction of the raw material.
The main forms are:

- Prism bales
- Cylindrical bales

The product obtained has a medium size, and it is named “cutted material”, and is suitable to be transported using the most common transport systems.

The product may be dry or wet. In the first case, the product goes directly to the stage of refining.

In the second case, the product must be dried to obtain the right moisture percentage for the inlet in pelleting machines.



STAGE “B” DRYING

The moisture percentage of the straw must be reduced from 80-90% to not more than 12-13% through a rotary drum drier or a belt drier.

This machines has a burner that can be feeded with oil, gasolina, gas.



STAGE “C” REFINING

After been drier a refined, complete with sucking unit, reduces the dimensions of the product and prepares it for pelletizing.
The product is also cleaned from any ferrous part or foreign matters.



STAGE “D” MIXING

A mixing silo make the product homogeneous and in this silo the product can be stocked.



STAGE "E" PELLETING

In a conditioner, steam, molasses, fat or liquid can be added to the mixture before it enters the holes of the pellet-mill die, pressed by the rolls. On the outlet of the holes some knives cut the pellets at the desired length.



STAGE "F" COOLING

After pelleting, the product is very hot and a counterflow cooler cools it, to approximately +5°C above the environmental temperature, in order to give it the right hardness and the better consistency to store and handle it. The machine is a counterflow cooler full line of air intake and recovery powders.



STAGE “G” SIEVING

A sieve removes the fines from the pellets and a screw or pneumatic conveyor collect these fines and send them back to the pellet-mill.



STAGE “H” SACKING

The pelletized product is conveyed to the silo for stocking before delivery. It can be delivered in bulk, loaded on trucks and weighed through a weigh lorry or in bags. A manual or automatic weighing-sacking system and an eventual palletized are used for bagging the product.

