

WOOD PROCESSING AND PELLETING



GENERAL DIES

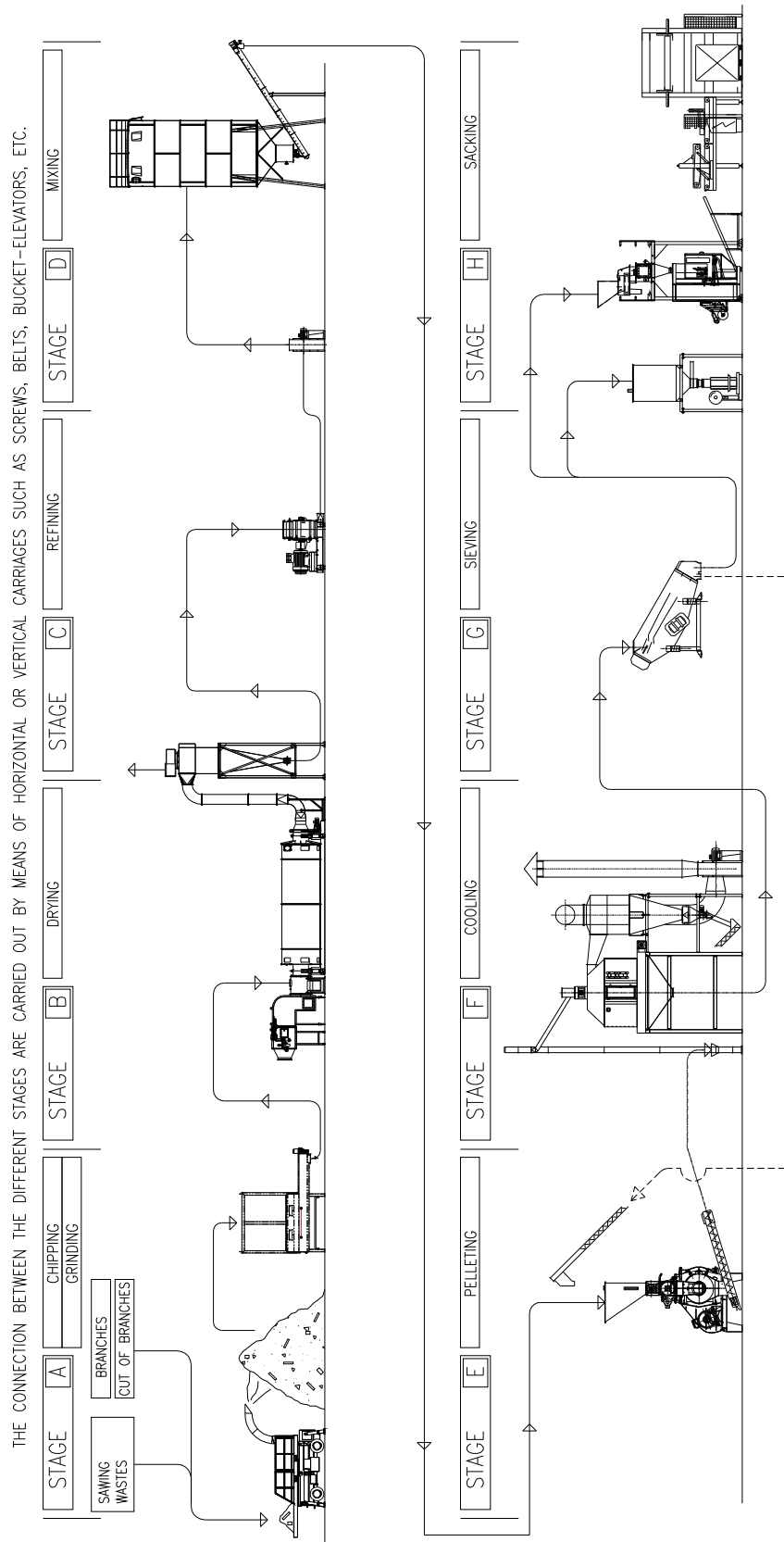


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STAGE “A” CHIPPING and GRINDING

The raw material is mostly in 3 forms:

- trunks
- loppings
- sawmill wastes

So a reduction in size is necessary. This operation can happen directly on the collection site, using specific machines with their own motors or connected to tractors.

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

Now, the product must be dried to obtain the correct moisture percentage for the inlet in pelleting machine.



STAGE “B” DRYING

The moisture percentage of the wood must be reduced from 50% to not more than 12-13% through a rotary drum drier or a belt drier.

This machine has a burner that can be fed with oil, gasoline, gas or wood.



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.



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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 approx +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.

