

Moulin TP

Monistrol, France



Jean Moulin, CEO of Moulin TP, founded his company in 1967. Located in Les Villettes, 30 km south from Saint Etienne in the French Massif Central, Moulin TP is a family owned company known for their activity public road construction and stone crushing with a carrier fleet of their own. In late 90's Moulin TP expanded into processed biomass for combustion purposes. This activity is continuing to grow under the management of Antoine Sanchez, son-in-law of Jean Moulin.

Until the year 2013 Moulin TP was using mobile crushers, chippers and screens to produce biomass in their platform in Monistrol sur Loire. There was an increasing demand for wood energy chip in Rhône-Alpes area and in the year 2011 Moulin TP set out to become one of the biggest woody biomass producers in the area. Monistrol terminal is ideally located between abundant forest resources of Massif Central and

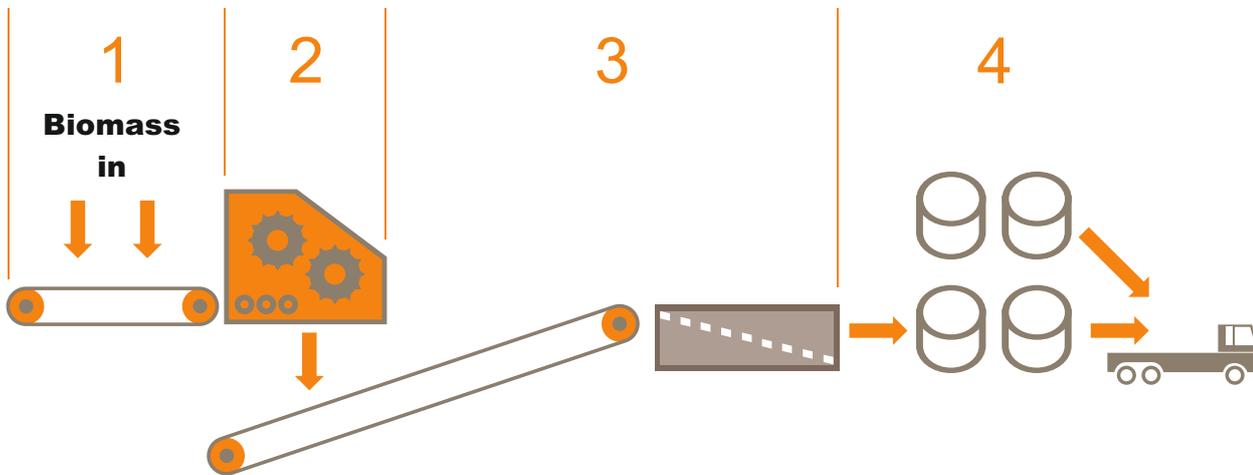
consumers in Saint Etienne area as well as greater Lyon region.

Moulin TP operates a Saalasti Chipper 1218H with a processing capacity of 65 tons/hour. The chipper produces P63 sized biomass from logs, whole trees, reclaimed wood from demolition sites, forest residue bundles, pre-crushed stumps, pallets etc. The chipped material is sorted according to raw material and sent to a separate storage units respectively. The platform is equipped with special unit for storing nine different biomass varieties, so that a mix consisting of any three varieties can be automatically loaded into a truck.

At the moment the production of the platform is 120.000 tn/year wood based biomass and Moulin TP terminal serves 17 customers. The numbers are increasing and the capacity of the platform can be doubled up to 250.000 tons/year

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Biomass processing system



Saalasti Feeder:

- 1**
- Size 1800 x 20000 mm
 - Noise reduction tunnel
 - Metal detector

Biomass Feeder is designed to endure impact of tree trunks dropped from one meter height. **Long feeder** for added loading speed.

Saalasti Chipper 1218H:

- 2**
- Installed in 2013
 - Main drive power 2 x 400 kW
 - Tooling: cutter knives
 - Capacity 65 At/h*
 - Particle size: P63

The Saalasti Chipper processes logs, whole trees, pallets, pre-sliced stumps, forest residue bundles, loosely packed park residue, construction waste, etc. **Maximum** obtainable capacity is 150 t/h*

3 Screening and separation:

Energy chips are sorted to different storage units according to biomass type.

4 Mixing and distribution:

Automated system mixes hog fuel from up to three different storage units to produce fuel mix tailored to each individual customer and their combustion process.

*Nominal capacity, softwood