

50 percent market share since 2008

Pellet-Turm

Four out of eight wood pellet plants built in Austria since 2006 utilize the Pellet-Turm technology. Teccon Konstruktionen GmbH, the company that developed and produces the Pellet-Turm ("Pellet Tower" in English) is an enterprise in the field of machinery and plant construction. In 2002 the company established and started to operate one of the first large scale pellet production plants in Austria.

The Pellet-Turm integrates all processes needed for pelleting dry raw material into one standardised and patented production module. A key concept of the Pellet-Turm is the vertical production process.

Easy Financing

The fact, that the Pellet-Turm can be easily disassembled and moved to a different place makes it easier to obtain leasing contracts for financing. As the unit is considered a machine, not a plant in a building, tax advantages can also be applicable in some markets. Due to the modular concept project management in the construction phase and plant start-up is considerably easier than for a conventional pelleting plant.

The experience of Teccon as pellet plant operator has resulted in a technical design that makes operation and maintenance safe, easy and cost efficient. The

plant can be operated fully automatically including automatic start up and shut down procedures. It can be monitored and operated remotely. Depending on the pelleting machinery used each Pellet-Turm module facilitates a maximum production rate of 2 to 5 tons of DIN plus pellet quality per hour.

Hot promise

The most recent Pellet-Turm was set up by Hot's Pellets in Oberweis, Austria – one of the most successful pellet brands in the country, with production plants in Austria and Germany. The new plant is designed to supply three Pellet-Turm modules with raw materials. The final production capacity will be in excess of 100 000 tons per year. The modular concept allows a gradual step-up of production as the Austrian market for premium pellets grows.

For the start up period only one Pellet-Turm

module was established. The foundations for two further units are already in place. As the site for the plant is relatively small it is an advantage that the pellet tower needs so little space (6,2 x 5,2 m). Due to the proximity of a residential area, noise was a considerable issue in getting a building permit. For this reason the Pellet-Turm was supplied with an effective noise insulation system which has completely solved this problem.

Important factors

The complexities in setting up pellet plants are considerable. Financing, securing raw material, environmental and construction permits, recruitment of personnel, securing customers etc are major issues for every entrepreneur. Not having to worry about technical issues, pellet quality and security may be considered a substantial benefit in such a situation. Thus the Pellet-Turm could be a promising



Minister of Agriculture of Upper Austria Joseph Stockinger; Gerhard Glechner CEO Hotts, Christian Rakos and Minister of Environment of Upper Austria Rudi Anschober

concept for pellet plants up to 150 000 ton per annum and all investors that want to gradually expand their

production capacities rather than starting big from the beginning.

Cont. G.C.

The Concept of Pellet-Turm

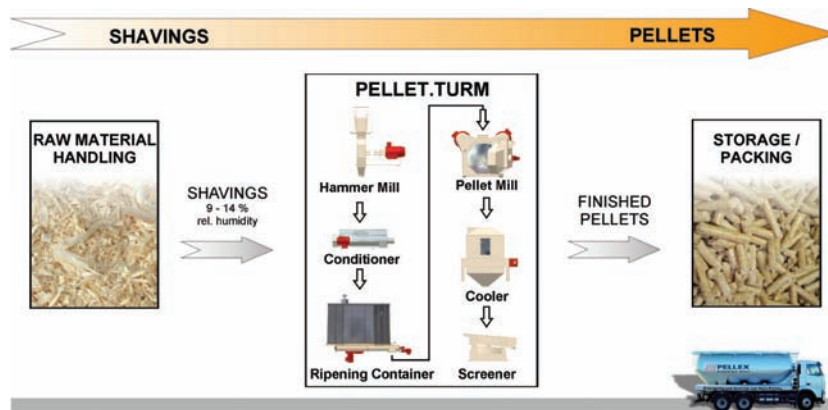


A key concept of the Pellet-Turm is the vertical production process. The dry raw material enters the tower at a height of 9 meters, passes through the hammer mill, is then blown to the top of the module by means of a pneumatic transport system, flows to the conditioner, the pellet mill and the cooler – and high quality pellets leave the tower at the bottom. The flow of material is mainly based on gravity which means lower investment, lower operation costs, and less downtime due to failures in transport systems.

Another key advantage is that great attention has been given to minimize the danger of fire and explosions. Fire and explosion protection systems are certified according to the strict German ATEX regulations.

Installed equipment could be of different brands, so far they used main equipment from Salmatec.

Dorota Natucka
BI46/1815/DN



New pellets turm Hotts plant

Based on the experiences of operating a pellet plant over the years, Teccon used its capacity as an engineering enterprise to design and construct a unique system for pellet production - the Pellet-Turm pelleting module.