UNTHA
shredding technology

The reliable brand!

biohort

LR1400 PROCESSES PALLETS INTO BIOMASS

Biohort GmbH

We accumulate large quantities of pallets and packaging wood at our plant. We decided to purchase the UNTHA LR1400 shredder, including a special hopper, conveyor belt and metal separator, so that we can process these materials directly and efficiently. We use the wood chips produced for thermal utilisation in our biomass plant.

» MATERIAL
Pallets, packaging timber

» SHREDDER
LR1400

» THROUGHPUT
1,5 t/h

CUSTOMER

Biohort GmbH is a leading European company in the production of high-quality garden sheds and tool sheds made of metal and stands for expertise based on decades of experience. For over 30 years, the company has been offering its customers unique storage solutions that impress with their careful workmanship, functional design and top-quality materials.

APPLICATION

The company Biohort has built a new plant at its site in St. Martin im Mühlkreis, Austria. As part of this, the company was also looking for a shredder to make good use of pallets and solid wood from the delivery of steel sheets and coils. The shredded wood residue was to be used as wood chips in the new biomass plant.

SHREDDING SOLUTION

A UNTHA LR1400 is the perfect solution for recycling large quantities of waste wood: this single-shaft shredder is equipped with a special 2x22 kW drive, a 40 mm perforated screen, an automatic central lubrication system and a special hopper. A forklift can be used to feed particularly long squared timber through the 1,400 x 1,600 mm feed opening. The perforated screen, in conjunction with the two rows of blades, ensures that the residual wood is shredded to a grain size of 30–40 mm. Thanks to the unique geometry of the reversible cutting plates, the wood is drawn into the cutting mechanism particularly efficiently and thus quickly shredded – at a rate of up to 1.5 t/h. The LR1400 has also been equipped with a conveyor belt including a metal separator. This removes metal parts such as screws and nails from the wood chips. The material is then transported to a chip bunker via a 9 m high ascending conveyor screw including a chip centrifuge, where it is distributed. The wood chips are finally thermally recycled in the company's own biomass plant.

REQUIREMENTS

- Throughput: 1.5 t/h
- Granulate size: 30–40 mm
- Feeding by forklift truck
- Conveyor system incl. metal separation

> Thanks to the UNTHA LR1400, we are now able to shred all our waste wood on site and use it for heat generation.

– **Dipl.-Ing. Johannes Zauner**
Plant Manager Biohort GmbH