BAV-Newsletter 03/2021

Special: Processing of waste wood

BAV members rely on Know-How from Dreisbach!

Customised recycling solutions - complete plants and mobile shredders

Waste wood recycling has been the core business of HAAS Holzzzerkleinerungs- und Fördertechnik since 1989. One of the first HAAS processing plants for waste wood is still in operation now. Benefit from our long-term experience and competence for your success. Profit from our know-how. Apart from achieving maximum performance, other important aspects such as efficiency and environmental protection are a key factor.

Vikings in action - at BHKW Flohr and BHKW Buchen

BHKW Flohr, a CHP plant in Neuwied generates 102,000 tonnes of steam (supply for approx. 4,500 homes) and 47,000 megawatt hours of electricity (supply for approx. 11,750 homes) annually from biomass!

For the shredding of waste wood (A, B, C), they have been relying on HAAS quality since 2013. In 2019, the proven, stationary HAAS primary shredder was replaced by the new, revised version of the TYRON 2500-E 2.0! Six years of hands-on experience went into the design of the new machine. A bespoke feed hopper, easier accessibility for regular service and maintenance work as well as many small ideas and suggestions from the operating staff can be found in the new TYRON.

HAAS-TYRON-stationary

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BHKW Buchen, a CHP plant in the Odenwald area supplies around 15,500 homes in the EnBW grid with electricity.

Since 2020, Buchen has been using the largest mobile HAAS TYRON 2500 2.0 primary shredder to shred 70 tonnes of waste wood (A, B, C) per hour. The wood, pre-shredded to approx. 300 mm, is then burned at over 850 °C. Special customer requirements were also taken into account for this TYRON: An extended hopper elevation ensures that no material falls down during the feeding process. In addition, the machine is equipped with a NEBOLEX spraying system. State-of-the-art misting technology binds the dust in the feed hopper, at the material discharge and at the belt head of the discharge conveyor.

HAAS-TYRON-mobile

HAAS waste wood processing system in Cologne celebrates its 2nd birthday

The expanded new plant of AVG Ressourcen GmbH is based on the HAAS processing line that has been in operation since October 2007 and covers a total area of approx. 15,000 m^2. In 2-shift operation, the capacity is up to 120,000 tonnes of waste wood per year. The investment volume for the expansion of the plant and processing technology amounts to more than 3 million euros.

AVG was very keen on the environmental equipment, especially for minimising dust. The entire plant was equipped with state-of-the-art extraction technology. The wood dust extracted in the process is stored dust-free in a container.

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The entire conveyor technology is enclosed. Mist cannons are installed in front of the individual storage boxes, which can create a “mist curtain” if required, in order to bind the dust. Loading of the lorries for transport is carried out in an enclosed loading bay, so that no dust emissions can escape from there either.

HAAS waste wood processing plant in Cologne-Niehl

The AVG Resources also sets new standards in fire protection. Spray flood systems in all storage boxes, infrared monitoring of the shredding equipment and a spark extinguishing system in the area of the filter system ensure a high level of safety.

The AVG target is to recycle as much wood as possible. To achieve this, high quality standards must be met. The new plant enables AVG to comply with these qualities without any problems For this purpose, mainly untreated grade A wood waste is used. Grade B and C wood is also processed in the plant. These are lacquered and coated wood that is primarily used as fuel for biomass power plants.

"This is a good investment for the future, in both environmental and climate protection," explains Karl Georg Boje, Managing Director of AVG Resources. "The new waste wood processing line is one of the most modern plants of this type in Germany and of course meets all currently required environmental and emission standards."

“The AVG treatment plant is state-of-the-art and sets standards in terms of dust minimization and fire protection. We are very proud that we were able to support AVG in this ambitious project”. A pleasure for Sascha Kloft, managing director of HAAS Recycling-Systems.