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Features



Rudnick & Enners offers extensive solutions for resizing and conversion of waste wood into chipped material for heating and power plants.

Rudnick & Enners has developed a new resizing rotor for the production of energy chips for biomass heating and power plants. The resizing rotor is equipped with individual blades for the production of chips with a size of 40 mm to 70 mm with a small portion of fine matter. This quality provides the best possible conditions for energetic use in biomass heating and power plants. Apart from the defined chip quality, the new rotor type is characterised by its high efficiency, low energy consumption and maintainability. The first machine of that kind has been successfully operating in the biomass heating and power plant Lienz since the beginning of the year.

In the meantime, further chippers of the same kind have been ordered and partly been started up. In the biomass heating and power plant Heiligenkreuz/Lafnitztal, a chipper type 100/1250/15 for the resizing of round wood with a diameter of up to 1000 mm and featuring the same blade system has been operative since June 2006. The produced chip quality corresponds to G 100 acc. to the Austrian standard "Ö-Norm". A drum chipper of the type RE- TH 850/1000/11 will also be delivered to the company Hasslacher Drauland in Sachsenburg and is meant to operate in the local power plant. The machine will resize residual saw wood and round wood with a trunk diameter of up to 850 mm into energy chips.

Resizing System

Rudnick and Enners developed a new resizing system which was used for the first time in its waste material shredder. Apart from wood, many other materials such as plastic material or



Chips Off

THE OLD BLOCK

paper can be resized. Compared with conventional systems, the newly developed system has a longer serviceable life and higher throughput at a lower energy consumption. Regularly sized chips are produced and there is the option of using bigger post-chipping screens while maintaining the final grain size.

This effect is achieved by a splitting device upstream of the resizing tool in connection with a respectively adjusted counter blade. This combination ensures the maintenance of a high chip quality adapted to the requirements of the respective application.

The system is not only installed in new machines, it can

Features

even be put in Rudnick & Enners chippers of the series RE-AS of earlier generations with turning-plates technology, ie: existing plants can be modernised at low cost. The new resizing tool has been patented in the meantime and has proven successful in practical use in a big glulam plant since the beginning of the year. The tool change intervals could be prolonged significantly in comparison with the conventional system.



Waste Material Recycler RE-AS 3.200 x 6.700 for the resizing of rejected boards.

Resonance Vibration

The problem that had to be solved was to develop a solid conveying system with a high conveying capacity which needs significantly less energy than conventional vibration channels. These requirements are met by a resonance conveying channel. Due to the resonance-oriented adjustment of the vibration system supported by tension and pressure springs, high conveying speeds and hence increasing conveyed loads are realised at low required powers. In comparison with conventional vibration channels, the required power can be reduced by 50 percent at otherwise identical quality features. Over long conveying distances, this system has a high energy-saving potential. **FDM**



Spring Assembly of a Vibration Channel.

Mobile Shredder

For the requirements in the field of biomass treatment, Rudnick & Enners offers a high-performance range of mobile treatment technology. Mobile green refuse shredders by Rudnick & Enners offer reliable machine technology for every resizing purpose. Volume reduction and processing of various materials is nowadays indispensable. The efficient, mobile and hence variable shredder plant is the basis for profitable processing. The shredder serves to unravel green refuse as grass cuttings, foliage, pruning, branches, trunk and waste wood up to a diameter of 650 mm.



The material can be fed by aid of a wheel loader or a crane, the specially developed charging system ensures a load-dependent material feed to the rotor. The machine can be adjusted to the required granule size and structure of the size-reduced fraction by selecting appropriate screen segments. The closed discharging system ensures a continuous discharge which enables eg: the stacking of compost or the loading of the resized material in containers or on trailers.

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