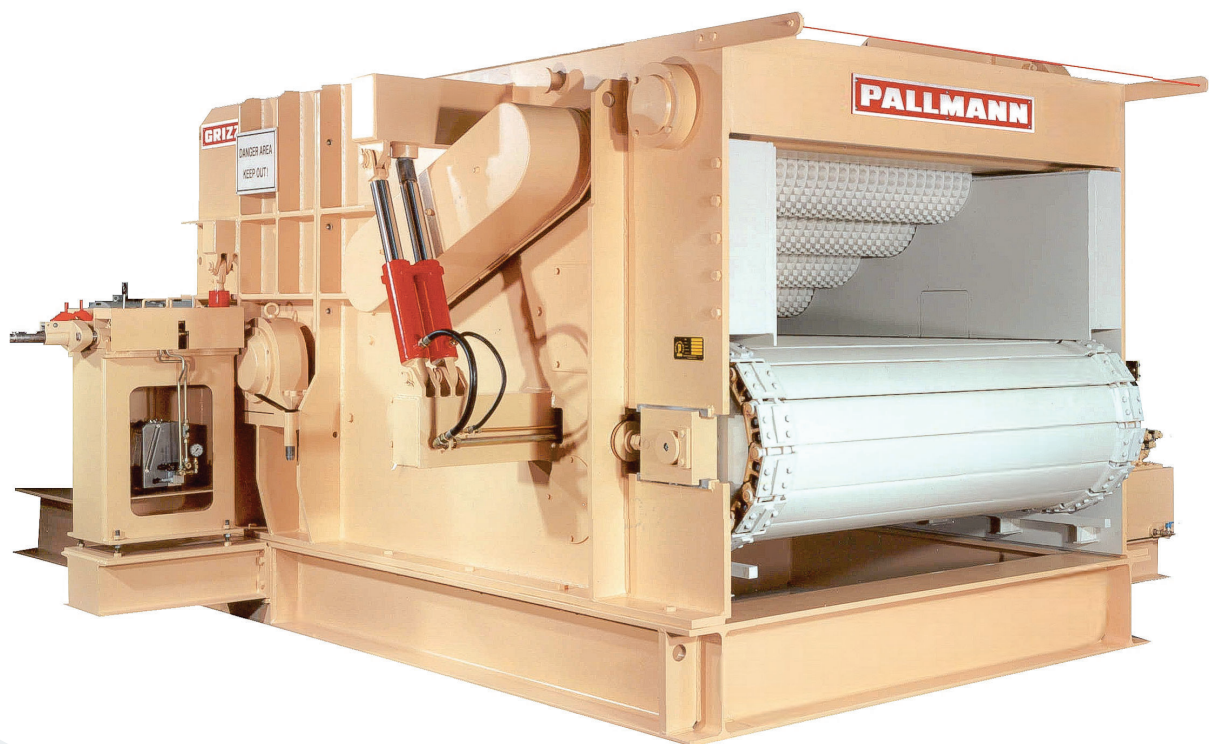

Economical preparation of production residues and recycling wood



Impact Hammer Mill PHP



SIEMPELKAMP
SIZE REDUCTION

Pallets, windows, doorframes, solid lumber and beams? The Grizzly eats them all.

Infeed Material

Waste- and Recycling Wood Material



Final Product

Chips for Material or Thermal Recovery



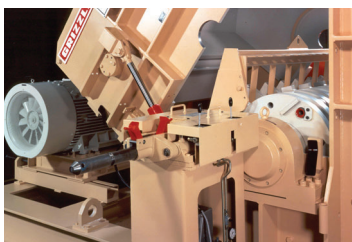
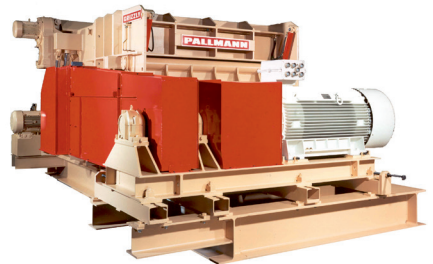
Area of Application

The Impact Hammer Mill, series PHPH „Grizzly“ is especially developed for the economical size reduction of residual- and waste wood of any kind. Not only pre-broken waste wood but also non-precut, long recycling wood can be fed into the mill. The machine distinguishes itself by high throughput rates at low specific energy consumption, low operating costs as well as robust and durable design. Any wood prepared with the „Grizzly“ is used as a high quality uniform product for material and thermal recovery.

Design and Method of Operation

The material is horizontally fed from the front of the machine by means of a vibratory feeder. Onto an integrated plate conveyor. A heavy weight swing with infeed rollers compresses the material. The material then is hit by hammers in an upward action and is pre-broken inside the housing. Material pieces fall onto the rotor and are further reduced between hammers and a breaking comb installed at the end of the milling chamber. Screen rods installed in the bottom of the housing determine the size of the final product.

A split housing design of the very robust and wear-resistant hammer mill can be hydraulically opened. Essential machine parts in the size reduction area are made of wear-resistant durable material or armoured. The hammers can give way when coarse material enters into the milling chamber. A hydraulic device for simple and safe exchange of the hammers and the hammer bars is part of the scope of supply.



Decisive Advantages

- › Utilization of cost-effective waste wood and recycling wood
- › High throughput rate
- › High availability at minimum maintenance
- › Insensitive to feeding fluctuations
- › Resistant against large contaminants
- › Housing flap to remove large contaminants
- › Simple and safe operation

PHPH		12-18	16-20
Rotor diameter	mm	1.200	1.600
Rotor length	mm	1.800	2.000
Capacity *	t b. d. / h	20 - 40	50 - 70

Ballistic separator of the PHPS will shoot heavy contaminants out of the machine.



Area of Application

The Impact Hammer Mill, series PHPS converts pre-shredded residual wood and waste wood of any kind into a valuable product for material and thermal recovery. Even contaminated materials can be processed. Heavy foreign objects in the feed material are separated and discharged through the optional ballistic separator.

Design and Method of Operation

Material is fed from above. Heavy rotating hammers hit in an upward action against the material and throw it into the ballistic chute above the rotor. The wood pieces are split along the grain and contaminants enclosed in the wood are set free for easy separation in downstream process. Further size reduction is effected by a stationary breaker. The final product size is determined by the perforation of the screen. Material is discharged straight down.

The split design of the machine housing allows hydraulic opening and easy access for maintenance. The sturdy rotor is stressrelieved. The heavy swing hammers have two working edges. The ballistic discharge chute is equipped with a flap for precise adjustment of the degree of separation. The milling chamber can be hydraulically opened for easy access to the rotor for quick changing of the screen and the hammers.



Decisive Advantages

- › Ballistic separation of foreign objects are removed and separated from the waste wood
- › Hammers with two working edges
- › Split housing design with easy hydraulic opening
- › High throughput rate at low specific energy consumption
- › Simple and safe operation

PHPS		12-15**	16-15**	16-18**
Rotor diameter	mm	1.200	1.600	1.600
Rotor length	mm	1.500	1.500	1.800
Capacity *	t b. d. / h	8 - 10	12 - 915	15 - 18

* Depending on the wood species, conditions and machine settings **Also available for paper milling



System solutions for:

- Flake production
- Fiber production
- Recycling of waste wood
- Annual plants preparation
- Thermal usage

Engineering and Service:

- Design and Manufacturing
- Research and development
- Control Systems
- Process monitoring
- Spare and wear parts for size reduction machines in PALLMANN quality
- Installation, commissioning, start - up
- Maintenance and repair service
- Operator training
- Technological training
- Retrofit and modernisation
- Warehouse stocking programs and logistic concepts



**Any questions?
We've got answers**

Pallmann is the leading manufacturer of size reduction machinery for the wood products industry. Pallmann designs, manufactures and supplies tailor-made, individual or complete solutions for the processing of raw material for MDF, OSB and particleboard plants. At its headquarters in Zweibrücken, PALLMANN company operates the world's largest research and development center for size reduction technology as well as a training and service center. Numerous machines are available for the preparation of various raw materials including subsequent laboratory analysis on individual scale. Our global presence is ensured by our sales network for machinery as well as spare parts and after-sales service.

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**Intelligent engineering
for future generations.**