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HAMMER MILL
MM-2000

ABOUT THE TECHNOLOGY

Wood Chip Conversion: The MM hammer mill offers woodworking companies a solution to convert wood chips into briquettable sawdust. By shredding and crushing wood chips through metal screens (sieves), it transforms them into microchips, or sawdust.

Optimal efficiency: The MMB-2000 configuration includes a ~2.9m3 buffer and an auger. This auger automatically doses material into the hammer mill based on its current load, optimizing energy efficiency and throughput to the next level, ensuring consistent operation, reducing downtime.

Long live the mill: Designed for low maintenance, the machine's quick-change sieves reduce downtime by 50% compared to competitors. Two-sided hammers can be used twice by simply reversing the machine's direction, halving the need for hammer servicing.

Versatile Applications: The mill can be customized to fit various products and applications, ranging from reducing biomass waste to spice production, and even chemical and mineral processing. Blades are adjustable for different materials and purposes.

Nature Business

Eco-Friendly Solution & Wallet-Wise Choice

TECHNICAL HIGHLIGHTS

Basic information
The Hammer Mill family of shredders offers a versatile solution for efficiently processing wood scraps or chips. Designed for woodworking companies, these shredders transform waste into briquetteable mass, enhancing storage, transport, and resale possibilities.
The shredder is primed and ready for action, requiring only a power source to unleash its full potential.
Ambient operating temperature range of the vehicle spans 5 – 40°C. Machine should be installed indoors, protected from the elements (rain, sleet, snow).
Each shredder is designed, built and tested in Ukmergė, Lithuania by UMP Technika. Not only do we manufacture, but we also use our machines - all products of UMP Technika are also used daily in our sister woodworking companies.
Rotor
Quickly Changeable Screens: The screens can be replaced swiftly, minimizing downtime.
Bidirectional Rotation: The rotor can rotate in both directions. There is no need to disassemble the rotor to flip the hammers; simply change the direction of rotation. This allows the use of the other side of the hammers, halving the downtime as disassembly is only required when both sides are worn out.
Air Flow Control Dampers: These dampers allow for precise regulation of air flow, optimizing the shredding process.
Efficient Knife Change: The design allows for quick replacement of knives since the shafts can be removed without disassembling the rotor.
Electricals
Hammer Mill operates on a standard 380-volt electrical supply at a frequency of 50 Hz. The main motor has a power rating of 37/45/55kW, providing the necessary torque and speed for efficient shredding operations. The revolutions per minute (RPM) of the shredder's rotor are set at 3000, ensuring optimal performance during material processing.
Power supply: 380 V, 50 Hz **Main motor power:** 37/45/55kW **Revolutions:** 3000 RPM
Material infeed
Top Feed: Wood chips are fed into the hammer mill from the top of the machine. This process can be automated by using bunker MMB which doses material into the hammer mill at best energy efficiency / throughput ratio depending on hammer mill load. **Gravity-Based:** Once the wood chips are introduced into the machine, gravity assists in guiding them downward into the shredding and crushing chamber. **Continuous Process:** The material infeed process is continuous, allowing for a steady supply of wood chips to be processed by the hammer mill. **Versatile Handling:** The machine is designed to handle various types of wood chips, accommodating different sizes and densities. **Adaptability:** The material infeed process can be adjusted based on the specific requirements of the material being processed and the desired output.

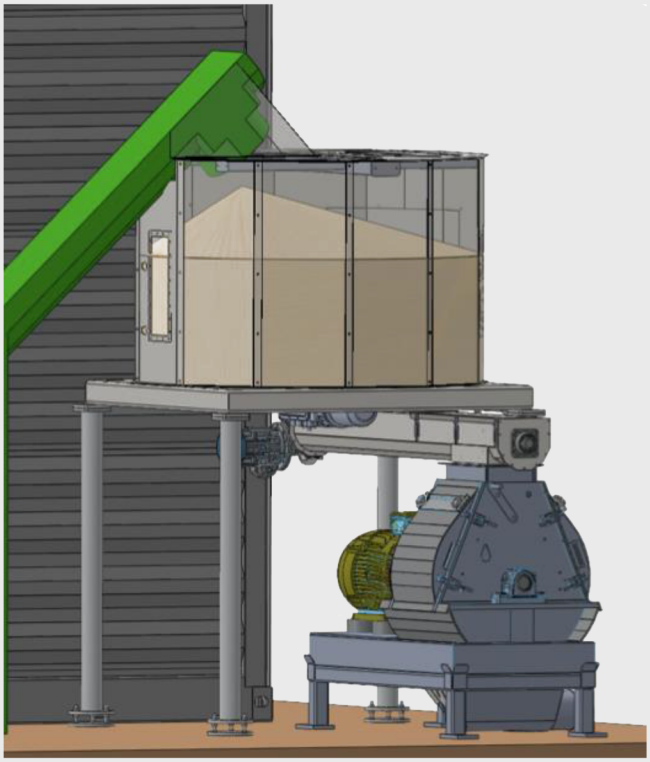
TECHNICAL HIGHLIGHTS

Manufacturer's warranty

24 month / 1000 work hour warranty [1]
Service, materials and parts provided by the seller.
Servicing done following the manual & service plan.

Bunker specifications

- Capacity: 2.8m3
- Power supply: 380V/50-60Hz
- Power consumption: ≤ 1kW
- Total height assembled: 3.3m



SPECIFICATIONS:	MM-2000	MM-2000+MMB	2x MM-2000+MMB
THROUGHPUT[2]:	Up to 2,5t/h*		Up to 4t/h*
FEEDING:	-	3kW	
MAIN MOTOR:	37/45/55kW		74/90/110kw
BLADES:	48 units		96 units
LENGTH:	1850mm	2800mm	3650mm
WIDTH:	900mm	1900mm	
HEIGHT:	1650mm	3250mm	
WEIGHT:	1100kg	2700kg	3800kg
SCREEN:	D5~D10		
OUTPUT HOLE:	D315		
WARRANTY:	2 years / 1000 workhours		

[1] Which ever comes first, either 24 months or 1000 work hours.
[2] Throughput depends on material type, hardness, humidity, input particle size, output particle size and output system. Actual throughput numbers are provided after free tests with customers material in UMP Technika factory, Ukmergė Lithuania. Customers are invited to participate in the tests.

TOGETHER.
EVERY STEP OF THE WAY

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