



SG3000MP One-Step Shredder

JUST SHRED IT, THUS SORT IT.

harden



Contact Harden for professional shredding and recycling solutions.

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Finer, More Uniform, and More Energy-Efficient

The SG3000MP is an integrated shredder engineered for processing various types of solid waste under complex operating conditions. It features a robust structural design, high-torque output, and an advanced cutting system, ensuring finer, more uniform, and higher-capacity output. These enhancements improve shredding efficiency while optimizing operational reliability.

Product Highlights

- Compact design with a small footprint.
- Capable of shredding materials with diverse properties, meeting the requirements of various applications.
- Interchangeable mesh screens of different specifications enable uniform and stable output of finished products ranging from 40 to 130 mm.
- The variable frequency drive optimizes energy efficiency, reducing energy consumption per ton of output.
- The high-efficiency cutting system minimizes material loss per ton of production.
- Engineered for easy maintenance and upkeep.

Materials Compatible with SG3000MP

- General industrial solid waste
- Municipal solid waste (MSW)
- Wood
- Paper mill waste
- Waste tires
- Waste textiles
- Renovation waste
- Bulky waste
- Plastics
- Cables
- Scrap aluminum
- Other materials

Automatic Lubrication System

Ensures continuous lubrication of the equipment, reducing the need for maintenance and making upkeep more convenient.



Drive System

The drive system features high inertia and high torque to deliver powerful performance.

It is equipped with overload protection, ensuring safety and reliability while effectively mitigating risks such as abnormal damage.

Stable Body Structure System

Constructed from high-quality steel, the system features a high level of redundancy with multiple load-bearing paths and provides multi-point support at impact areas, enabling the machine to effectively withstand shocks.



Intelligent Control System

The system incorporates intelligent temperature control, automatic lubrication, digital frequency control, and other advanced features to provide more efficient, intelligent, and user-friendly operation.

Equipped with an intelligent on-site control system, it enables one-touch start and stop via the control panel.

Intelligent Feeding System

The intelligent feeding logic monitors the output pushing force and knife shaft load current in real time, utilizing closed-loop control to prevent material jamming. The system continuously optimizes the feeding process, ensuring the equipment operates at maximum feed capacity, significantly enhancing production efficiency.



Adjustable Cutting Unit

The cutting gap can be quickly adjusted without the need to open the discharge door, simply by adjusting the bolts at designated positions.



Cutting System

The cutting system features a high-precision spindle configuration, with all contact surfaces exposed to crushing made from high-wear, high-strength alloy steel, enabling the processing of materials with varying properties.



High-Efficiency Discharge System

The open-type discharge door design, coupled with one-touch hydraulic drive operation, allows for the rapid removal of foreign objects and quick restoration of production.



Screening System

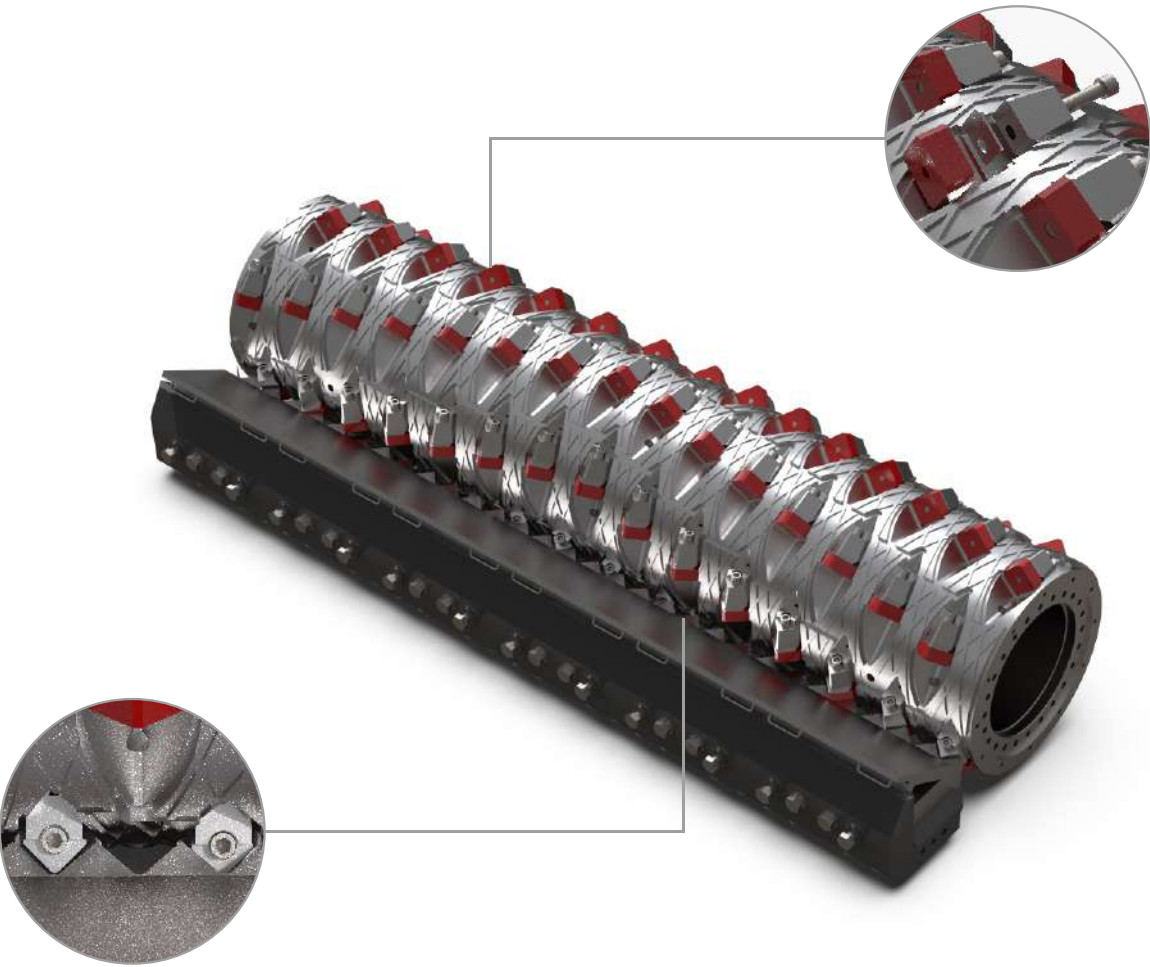
The system utilizes different screen meshes to achieve various sizes of output material. With a maximized discharge area, it employs highly wear-resistant alloy steel screen meshes for extended durability. The modular design of the screen panels facilitates easier replacement, enhancing operational efficiency in waste shredding applications.



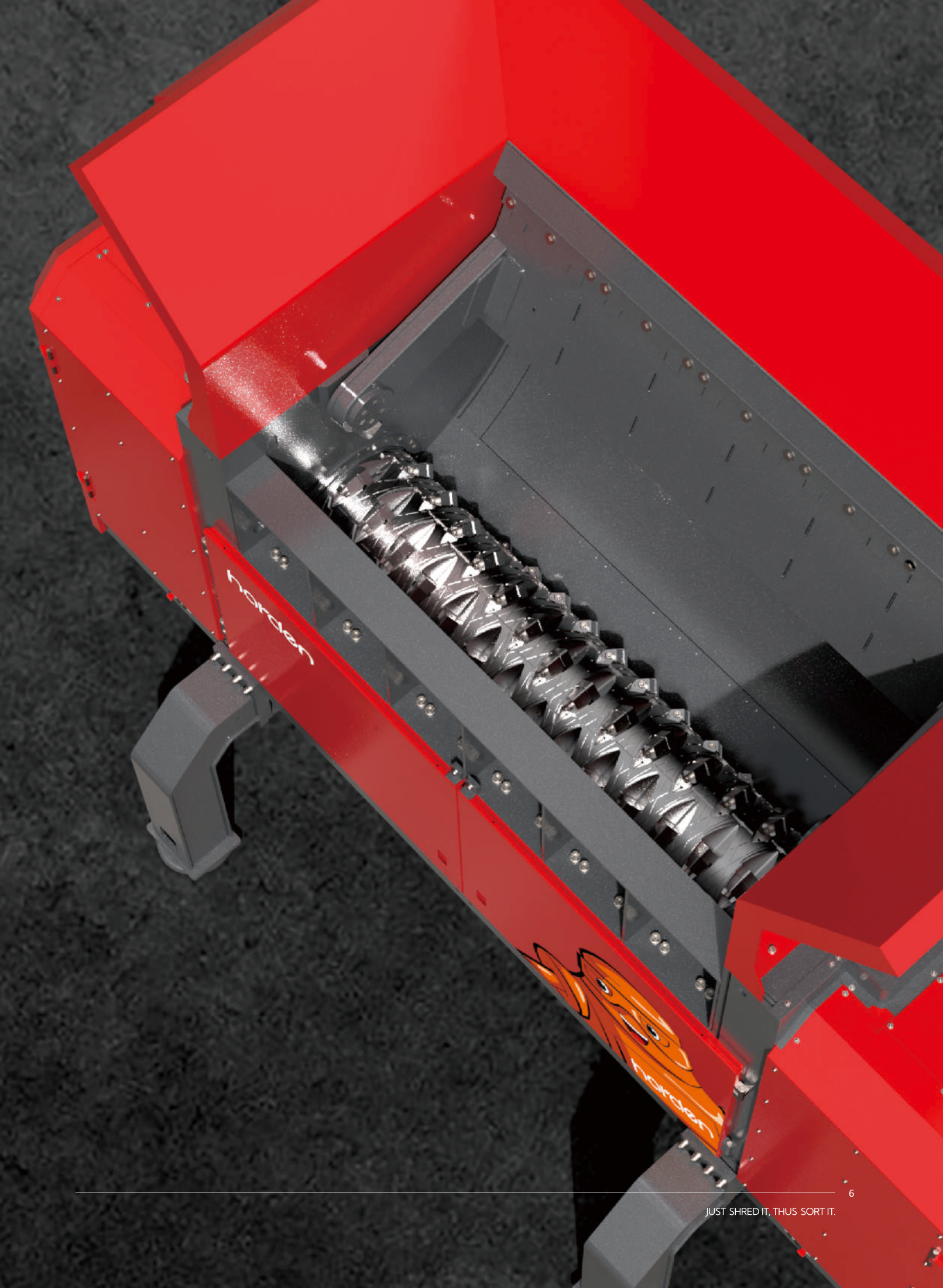
Shredding Mechanism - Cutting System

The MP series is designed to meet the demand for one-step, high-efficiency crushing, capable of processing materials with varying characteristics, such as flexibility, brittleness, and hardness.

The knife shaft features a 5-row angular knife design, ensuring balanced output, improved cutting efficiency, and easier maintenance. Discharge size is controlled through screen mesh of different specifications.



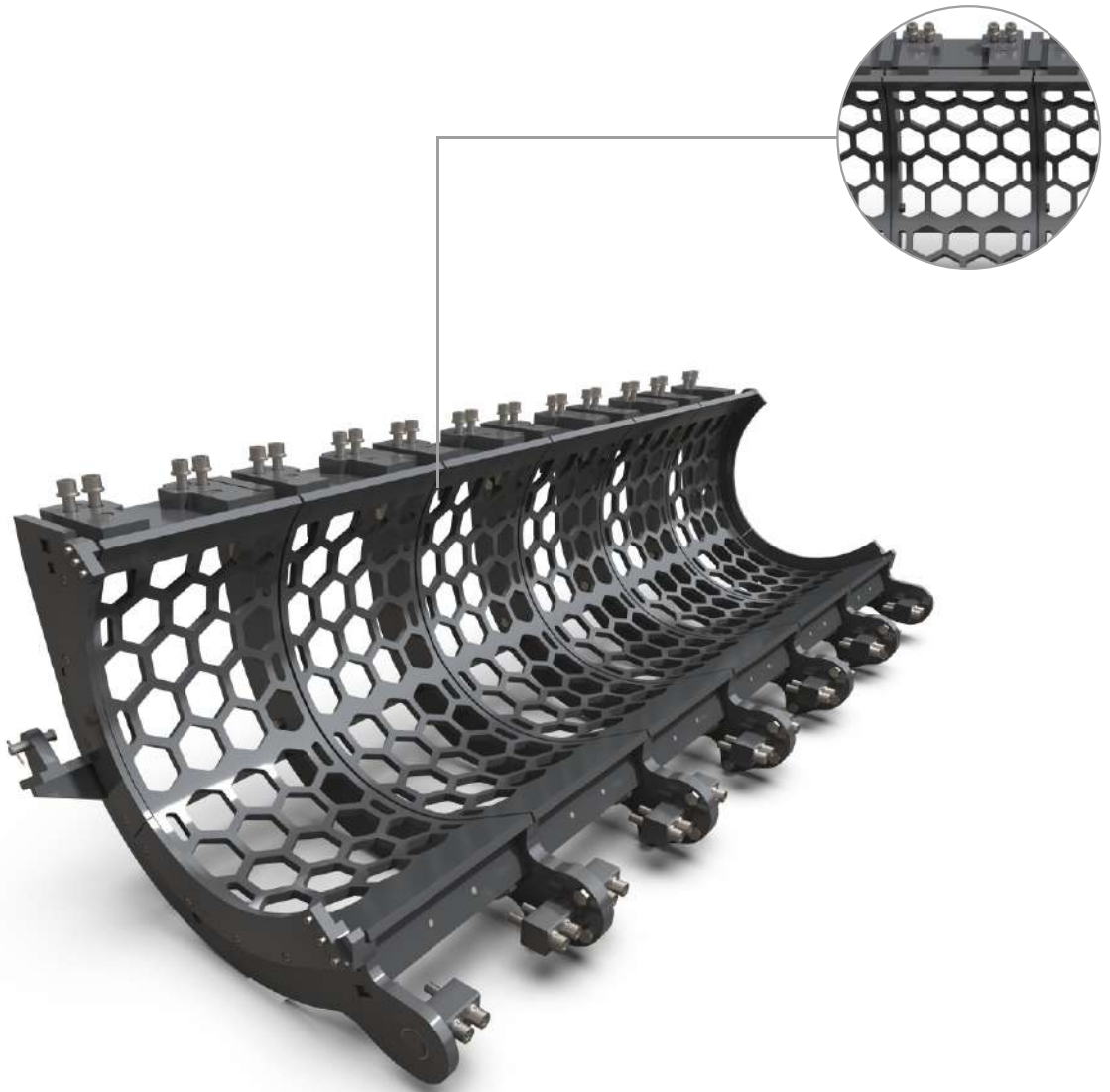
Achievable particle sizes after shredding (mm)





Product Advantage - Variable Dimensions

- The Screening System - Stable output of uniform, qualified product sizes.
- Variable Dimensions – Various specifications of combs and mesh hole screens are available to meet diverse dimensional requirements.
- Convenient Maintenance – The modular design of the screen panels allows for easy replacement. The hydraulic drive with single-touch operation simplifies maintenance.
- High Permeability - Hexagonal mesh openings maximize the discharge area, while the cutting and clearing functions of the blades and screening system ensure efficient material flow.
- Long Service Life – Constructed from highly wear-resistant materials for exceptional durability.



SG3000MP /Technical Specifications

Model	SG3000MP
Equipment Dimensions	
Dimensions (L*W*H) mm	6406*3253*4988
Hopper Opening (mm)	2960*950
Feeding Height (mm)	3375
Hopper Capacity (m³)	4.8
Discharge Width (mm)	765
Total Weight (kg)	35000
Shredding Size (mm)	40-130
Cutting Chamber	
Cutting Length (mm)	3000
Shaft Speed (rpm)	133
Number of Rotating Knives (pcs)	75/90
Number of Fixed Knives (pcs)	12
Power Drive	
Power Rating (kw)	2*200
Electrical Control System	15
Electrical Cabinet Dimensions	3000*2200*800
Drive Control	Variable Frequency Drive

