

harden
JUST SHRED IT, THUS SORT IT.



Four-Shaft Shredder



Four-Shaft Shredder

The Harden Four-Shaft Shredder employs advanced single-side direct-drive technology with high-torque straight blades to efficiently shear tough waste and control particle size. Designed for large-scale solid waste processing, its robust, impact-resistant structure ensures stable operation, while the low-energy design reduces operational costs. The compact layout allows for continuous operation and simplifies maintenance, enhancing production efficiency.

Cutting System



► Cutting System

Shear-type blade system with upper hook blades for grabbing and lower blades for thorough shredding via shearing, tearing, and extrusion. Replaceable screens ensure precise particle size control and reliable, durable performance for diverse applications.

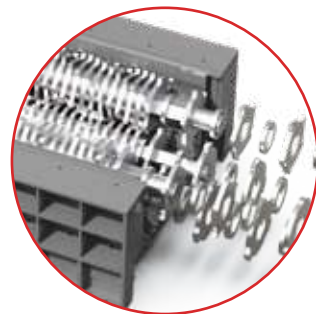
► Applications

Batteries, cardboard, electronic waste, hazardous waste, medical waste, packaging, aluminum, household appliances, wood, rubber, plastics, textiles, automobile interior, and confidential waste.



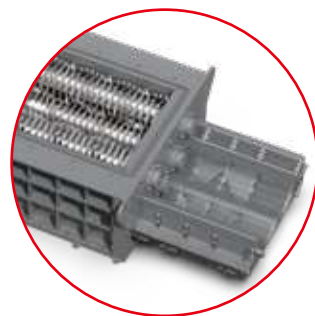
► Output Size (mm)





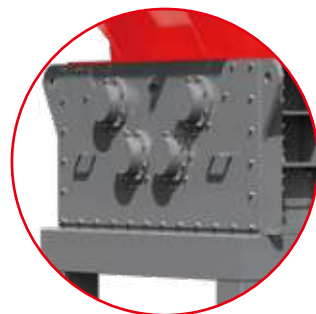
Convenient Maintenance

The blades and screens are designed for quick replacement without disassembling the main shaft. By removing the single-side bearing seat, the blades can be easily swapped, while the screens can be manually withdrawn from the side—ensuring rapid, efficient, and hassle-free maintenance.



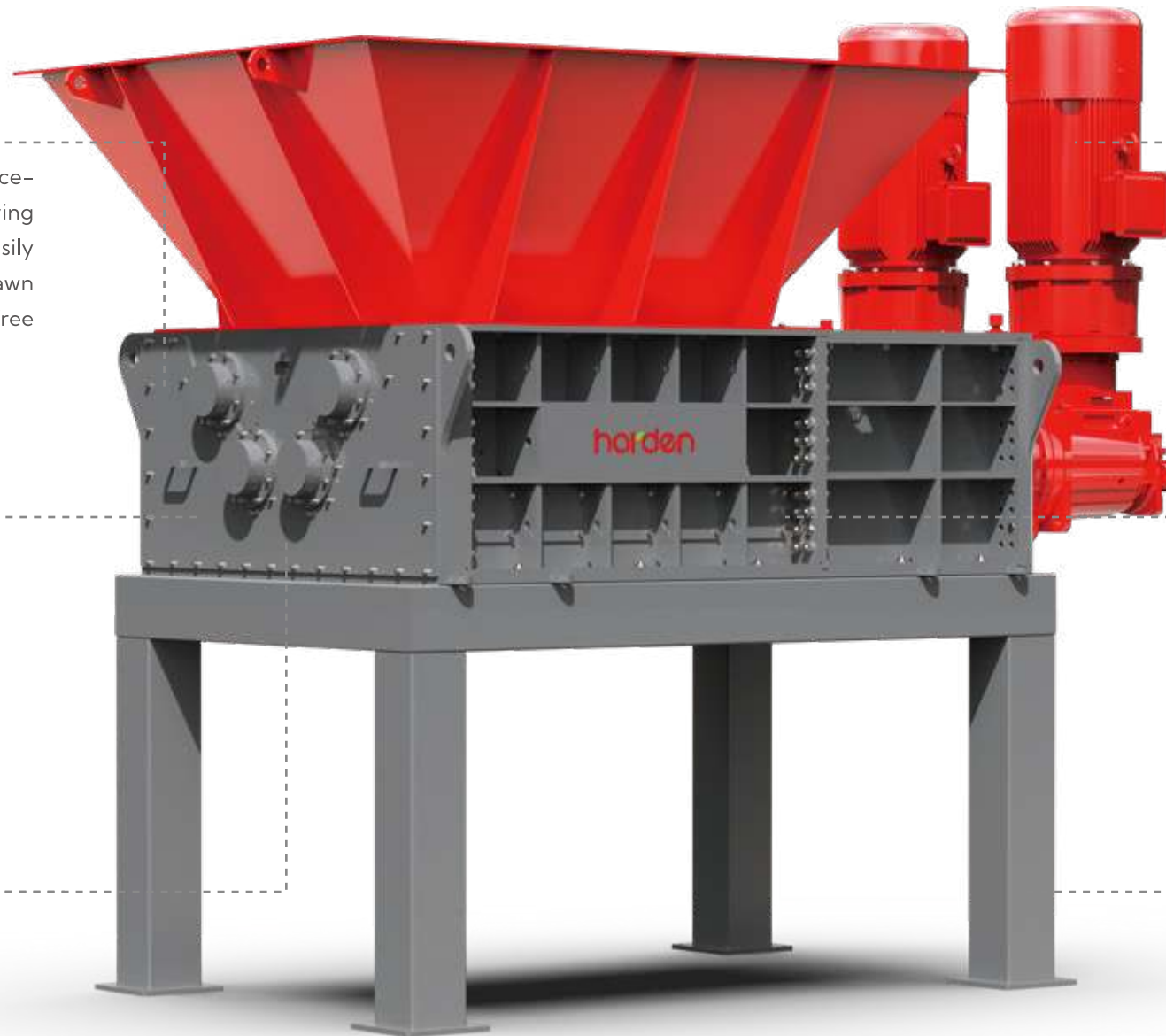
Adjustable Screening System

The system flexibly adjusts output particle size by swapping screens of different specifications. With a large-area screen design, it ensures high throughput and uniform output, optimizing materials for downstream sorting and resource recovery.



High-Seal Bearing Design

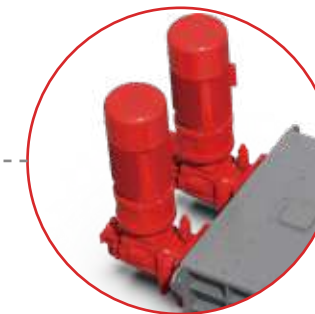
High-precision bearing seats and gearbox design, combined with multiple sealing layers, ensure reliable operation in harsh conditions.



QS Series

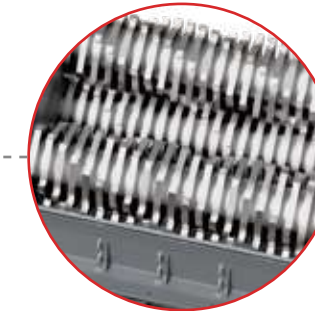
Efficient Drive System

The high-efficiency single-side drive system uses two motors to power four shafts, balancing energy savings and performance. Each motor drives a pair of shafts, with torque optimized through a reducer and evenly distributed to all four shafts via a precision gearbox, ensuring stable speed, uniform rotation, and durability.



Superior Shredding Efficiency

Features high-quality, wear-resistant blades for exceptional hardness and durability, reducing maintenance costs and blade replacement frequency. Low-speed, high-torque design ensures efficient shredding and low noise with minimized energy consumption.



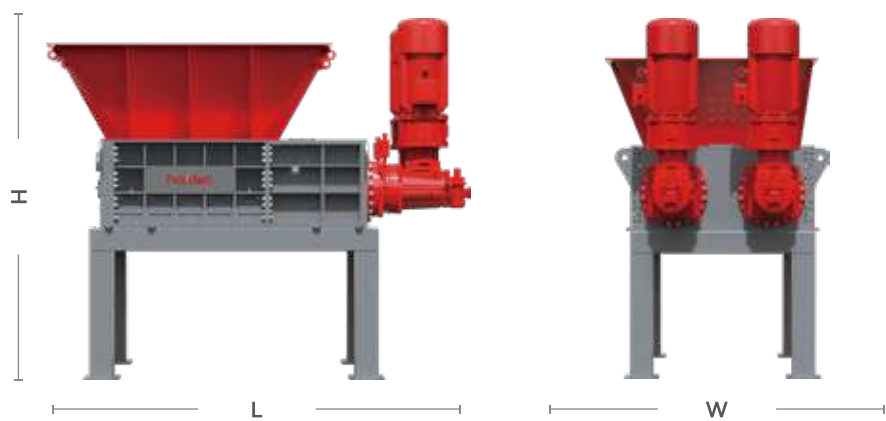
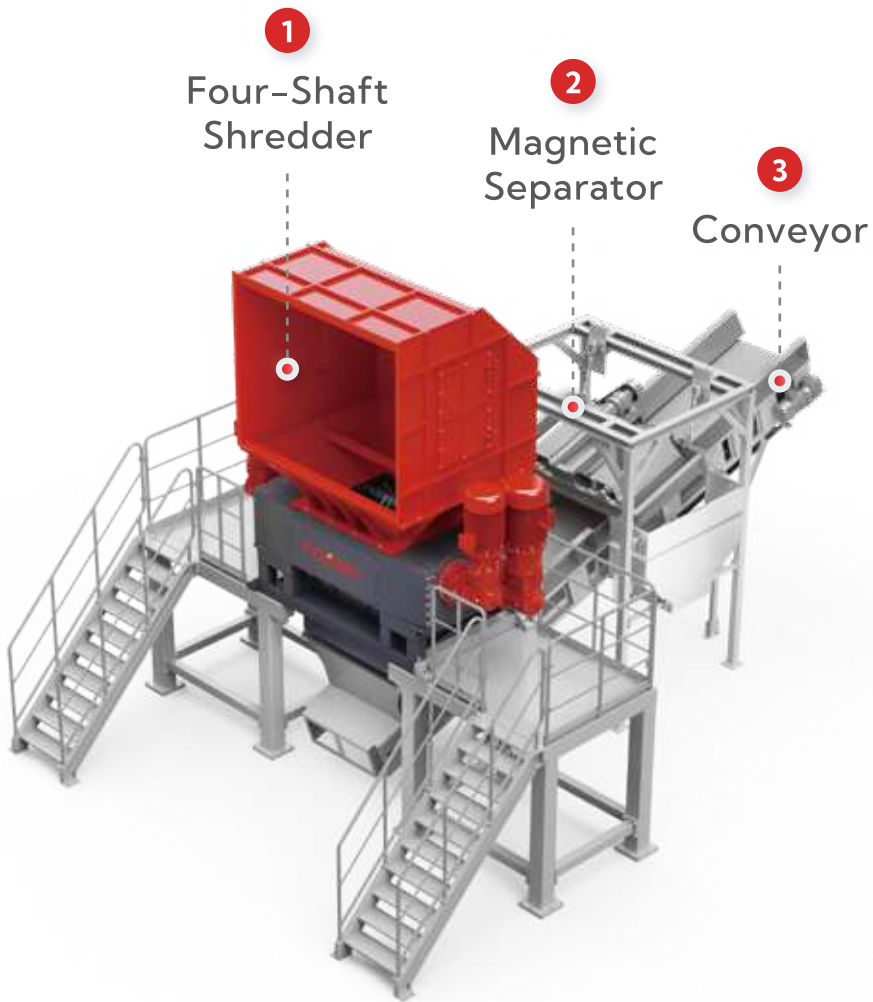
Intelligent Control System

The intuitive touchscreen-integrated control system monitors equipment status in real time, automatically optimizing operation modes for stable, efficient performance while significantly reducing manual intervention and maintenance costs.





Shredding Solution



► QS1012

Model		QS1012
Equipment Dimensions		
Dimensions (L*W*H)	mm	3300*1920*1840
Total Weight	kg	10000
Output Size	mm	30~100
Cutting Chamber		
Dimensions (L*W)	mm	1200*1000
Number of Rotors	pcs	4
Rotor Speed	rpm	18
Knife Thickness	mm	30
Number of Knives	pcs	4*20
Drive System		
Drive	/	Electric Drive
Power	kW	2*45
Electrical Control System		
Dimensions	mm	800*1800*500

*The above are standard model parameters, excluding legs and hopper, and are subject to modification.

Why Choose **Harden**



15 Years of Technical
Expertise in Innovation



1,500+ Global Success Stories
Across 30+ Countries



Rigorous Quality Control
for Reliable Equipment



Customized Solutions to
Optimize Client Value



24/7 Rapid-response
After-sales Support

Contact Us

Harden China

Harden Machinery Ltd.

Building 8, No. 6 Jingye Road, Torch Development Zone,
Zhongshan City, Guangdong, China

Tel: +86 760 8993 5422

Email: info@hardenmachinery.com

www.hardenshredder.com



Harden Singapore

Harden Machinery Pte. Ltd.

138 Cecil Street, #13-02 Cecil Court, Singapore 069538

Tel: +65 9117 5487

Email: arthur.zhang@hardenmachinery.com

www.hardenshredder.com

Harden Machinery Ltd.



QS-202508

Subject to technical changes, revisions, and printing errors. Illustrations are for reference only and may differ from the actual product.