

harden
JUST SHRED IT, THUS SORT IT.



Two-Shaft Shredder

Two-Shaft Shredder

The Harden Two-Shaft Shredder provides versatile solutions for a wide range of industrial applications. Its low-speed, high-torque design efficiently handles challenging materials — including sticky, wet, flammable, explosive, and corrosive waste — while minimizing the risk of blockages.

Operating at low noise levels, it adapts seamlessly to diverse production requirements, helping customers enhance efficiency and reduce costs.



TS Series

Medium–Small Torque Two–Shaft Shredder

Applications

This shredder is designed for processing municipal solid waste (MSW), commercial and industrial waste (C&I), medical waste, food waste, document waste, batteries, and plastics.



TPH/TP Series

High Torque Two–Shaft Primary Shredder

Applications

Municipal solid waste (MSW), commercial and industrial waste (C&I), renovation waste, food waste, landfill waste, bulky waste, electronic waste (e-waste), car scrap, scrap aluminum.



TD/ TDH Series

High Torque Two–Shaft Shredder

Applications

Municipal solid waste (MSW), commercial and industrial waste (C&I), hazardous waste, bulky waste, scrap metal/aluminum, biomass (wood/straw), batteries, food waste, textiles, tyres, plastics and rubber, electronic waste (e-waste), and composite materials.



Cutting System



▸ **CB-Series**

▸ **CB-Series Cutting System**

It features a shear-type blade structure that employs staggered blades for efficient shredding through cutting, tearing, and squeezing actions, making it ideal for high-hardness and entangled materials.

▸ **Applications**

Commercial and industrial waste(C&I), municipal solid waste (MSW), bulky waste, scrap metal/aluminum, biomass(wood/straw), textiles, and plastics.



▸ **Output Size (mm)**



▸ **HB-Series**

▸ **HB-Series Cutting System**

Large-hook blade that boosts crushing efficiency and capacity. Its bi-directional blade rotation ensures uniform material sizing while reducing blade wear.

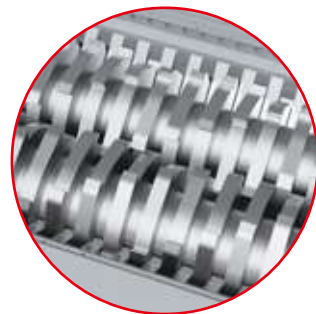
▸ **Applications**

Pre-shredding of municipal solid waste (MSW), bulky waste, renovation waste, commercial and industrial waste (C&I), landfill waste.



▸ **Output Size (mm)**





Cutting System

Blades use durable, repairable materials to minimize wear costs. The spline knife shaft supports heavy loads for complex shredding.



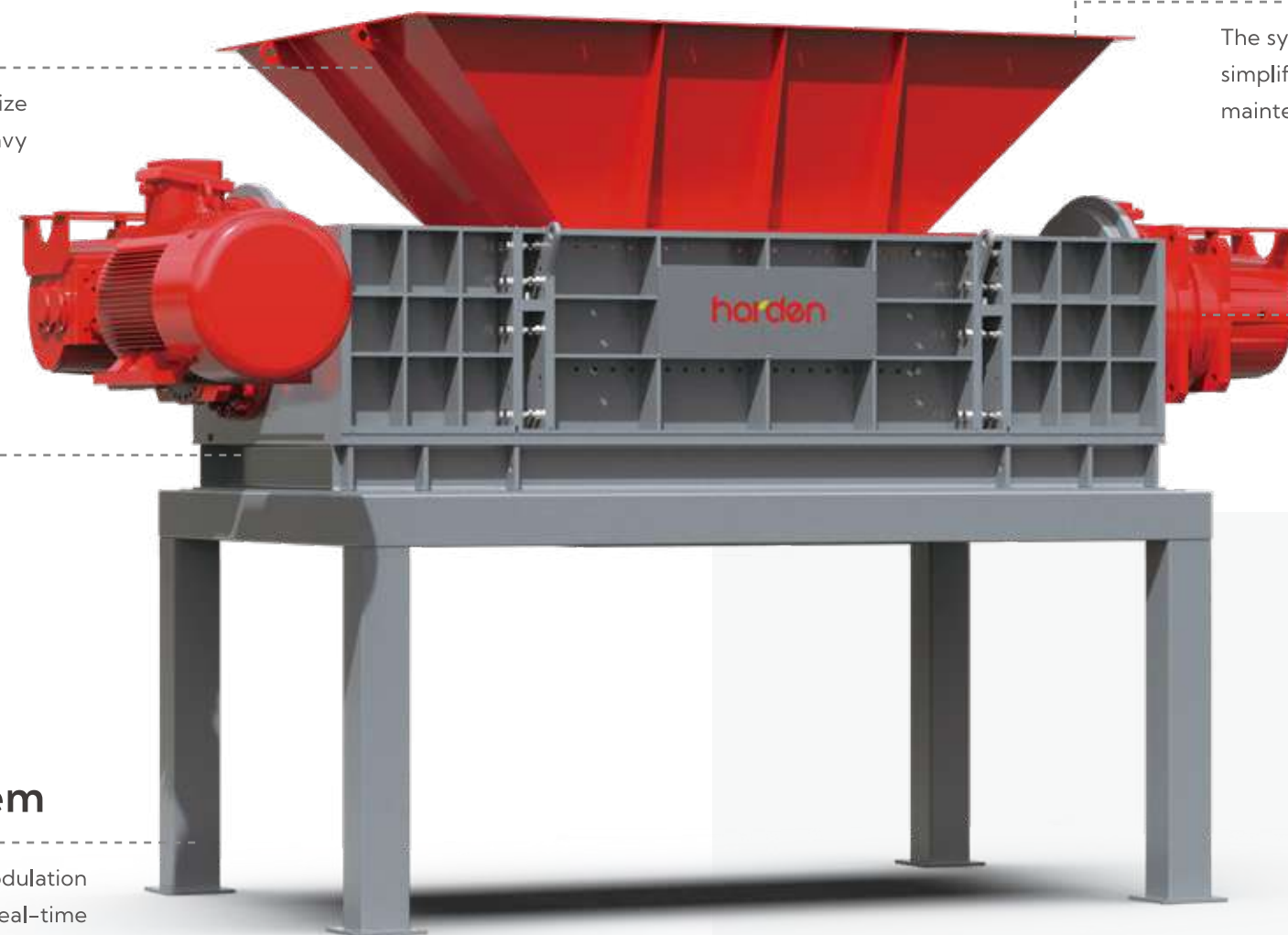
Centralized Lubrication System

A centralized lubrication system maintains optimal lubrication for bearings, reducing manual maintenance frequency and enhancing equipment stability while simplifying maintenance tasks.



Intelligent Control System

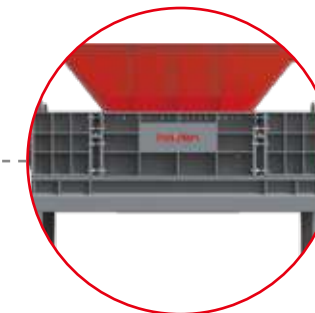
The system features a smart frequency modulation mechanism for optimal efficiency, providing real-time monitoring, fault prediction, remote operation, and data-driven optimization.



TD Series

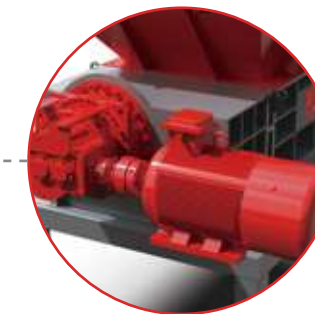
Integrated Cutter Box

The system's integrated design offers strong deformation resistance, simplifying cutting shaft replacement. Its effective sealing reduces maintenance and lowers long-term operational costs.



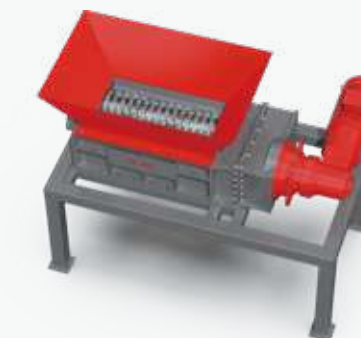
Compact Power Drive System

The TD series shredder features an independent dual-drive system with low speed and high torque, efficiently shredding tough materials. Its variable frequency speed control adjusts to material hardness, improving energy efficiency.



TDH Series – Drive System

The TDH uses hydraulic drive with variable torque for shredding tough materials, featuring a compact main unit to save floor space.



TS Series – Drive System

The TS uses a single-drive system with a gearbox to power two blade sets, offering a compact design and lower energy use.



Cutting System

Blades are made of high-alloy steel for durability. The system features large hooked blades with a bidirectional shredding mechanism for enhanced grip and efficiency, ensuring high-capacity operations with a uniform output size.



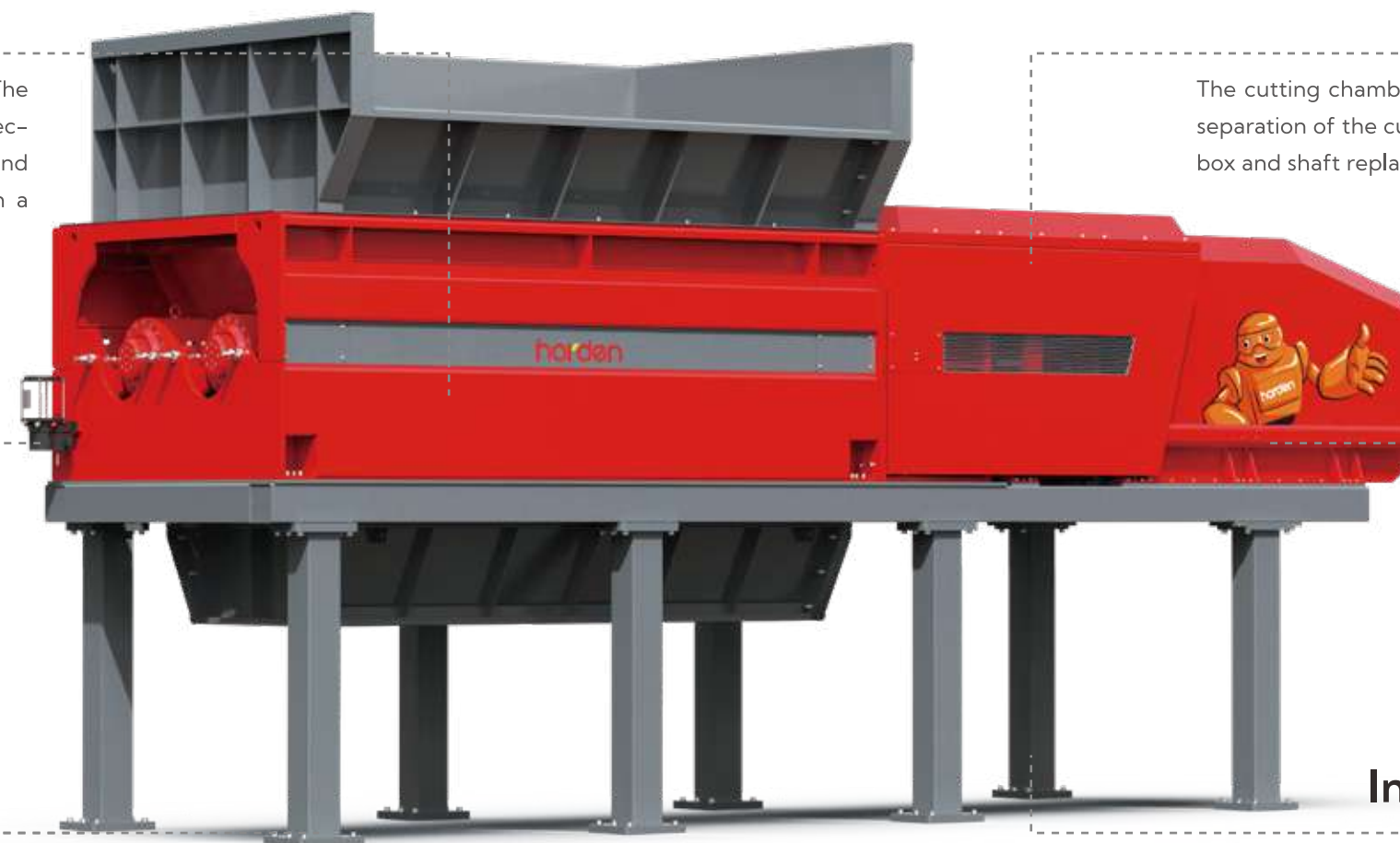
Automatic Lubrication System

Equipped with an automatic lubrication system, it ensures continuous optimal lubrication, reducing manual maintenance and enhancing operational stability.



Robust Frame Structure

The structural design features high redundancy and multi-path load transmission, with multi-point support in key impact areas to ensure stable operation under high-intensity conditions.



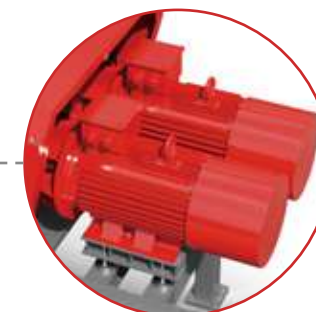
Easy Maintenance

The cutting chamber features a quick-disconnect structure for easy separation of the cutting and power sections, enabling efficient blade box and shaft replacement, thus reducing maintenance downtime.



Power System

Powered by a high-efficiency motor with strong torque, it effectively manages complex conditions in forward and reverse shredding. An overload protection system ensures safety, while the intelligent control system optimizes energy use and reduces operating costs.

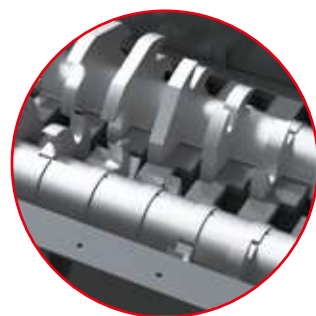


Intelligent Control System

With an intelligent frequency control system, it adjusts cutting speed and torque for optimal efficiency. Energy recovery technology reduces power consumption, enhancing convenience and cost-effectiveness.

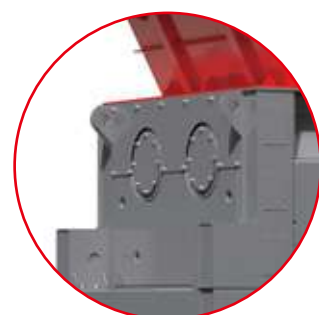


TP Series



Cutting System

The cutting system is equipped with various blade structures tailored to different materials and processing requirements. It allows flexible adjustment of blade quantity and cutting clearance to meet diverse capacity and size specifications.



Maintenance-Free Bearing System

The bearing system features a detachable bearing cover, facilitating quick replacement of the cutting shaft. Its specialized bearing design ensures excellent sealing performance, preventing debris or liquid ingress and extending the equipment's service life.



Intelligent Control System

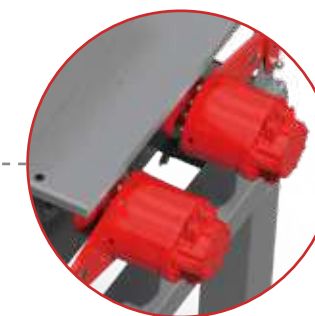
The system includes a smart control that regulates shredding parameters, monitors status, and provides alerts, reducing costs and improving efficiency. It supports remote operation and data optimization.



TPH Series

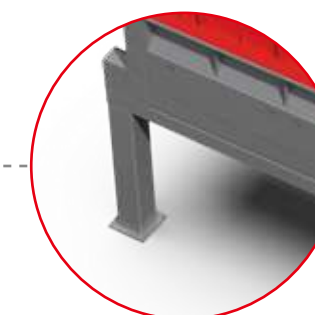
Power System

Driven by a hydraulic motor, the system supports stepless speed variation and frequent forward/reverse shredding. It automatically adjusts power output for better adaptability to various materials, ensuring stable high-capacity operation even under extreme conditions.



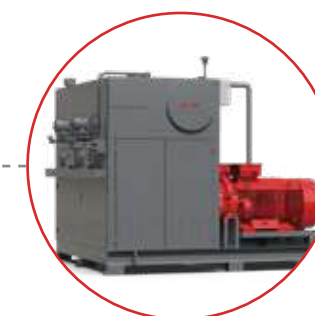
Robust Frame Structure System

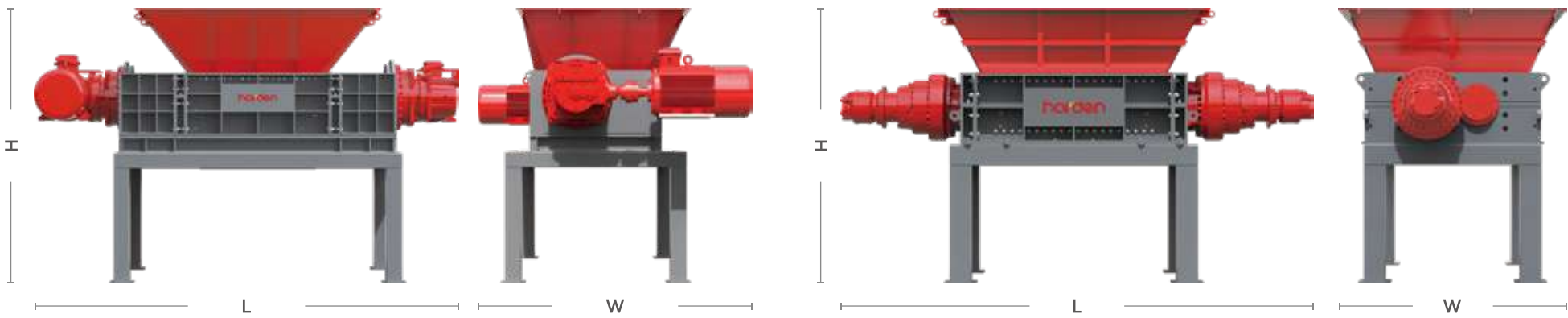
The structure is constructed from high-quality selected steel with a compact and refined design. It incorporates hydraulic-driven shock absorption to protect the hydraulic system from overload impacts, thereby enhancing the equipment's durability and reliability.



Hydraulic Station

The hydraulic station employs a closed-loop system that automatically adjusts power based on load changes. This reduces energy consumption during no-load or low-load conditions, enabling energy-efficient operation.



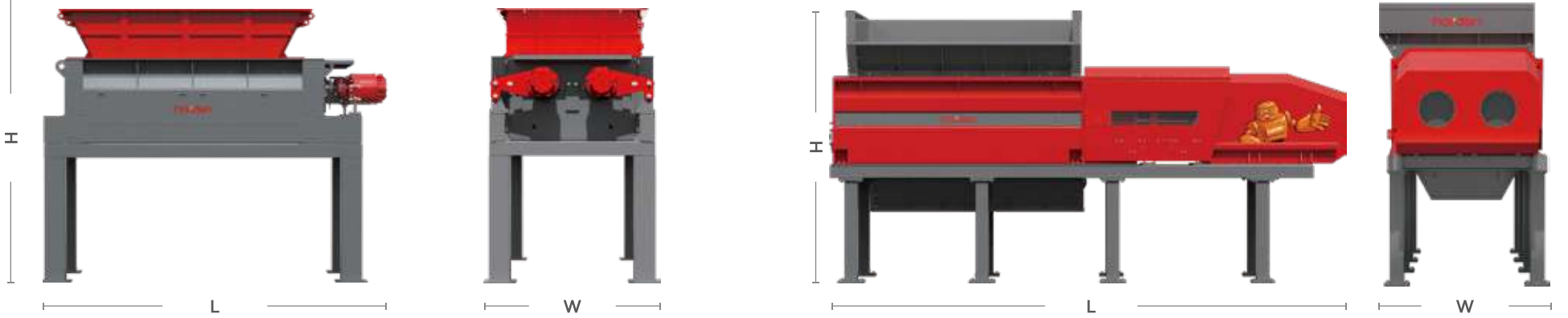


► TD1216H

► TDH1216

Model		TD612	TD912	TDH912	TD919	TD1016	TD1216E	TD1216H	TDH1216
Equipment Dimensions									
Dimensions (L*W*H)	mm	4370*2392*3475	4824*2773*3245	3784*1440*677	6428*2719*3361	6720*3571*4257	5069*3430*4745	5920*3494*6350	4960*1860*708
Total Weight	kg	6940	10800	6500	14400	16800	18200	22000	12100
Cutting Chamber									
Dimensions (L*W)	mm	1200*600	1200*900	1200*900	1900*900	1600*1000	1600*1200	1600*1200	1600*1200
Rotor Speed	rpm	16/26	10/13/20	17	10	10/12/21	12	10/13	17
Cutting System Type	/	CB	CB	CB	CB	CB	CB	CB	CB
Knife Thickness	mm	30/40/60	30/40/60	60	50	30/40/50/60	40/60	40/60	40/60
Number of Knives	pcs	20/30/40	20/30/40	20	38	26/32/40/52	26/40	26/40	26/40
Drive System									
Drive	/	Electric	Electric	Hydraulic	Electric	Electric	Electric	Electric	Hydraulic
Power	kW	2*45	2*75	132	2*75	2*110	2*132	2*132/2*160	200
Electrical Control System									
Drive Control	/	/	/	/	/	/	/	/	/

*Models TS and TD include legs and hopper; models TDH, TP, and TPH do not. Specifications subject to modification.



► TPH1826

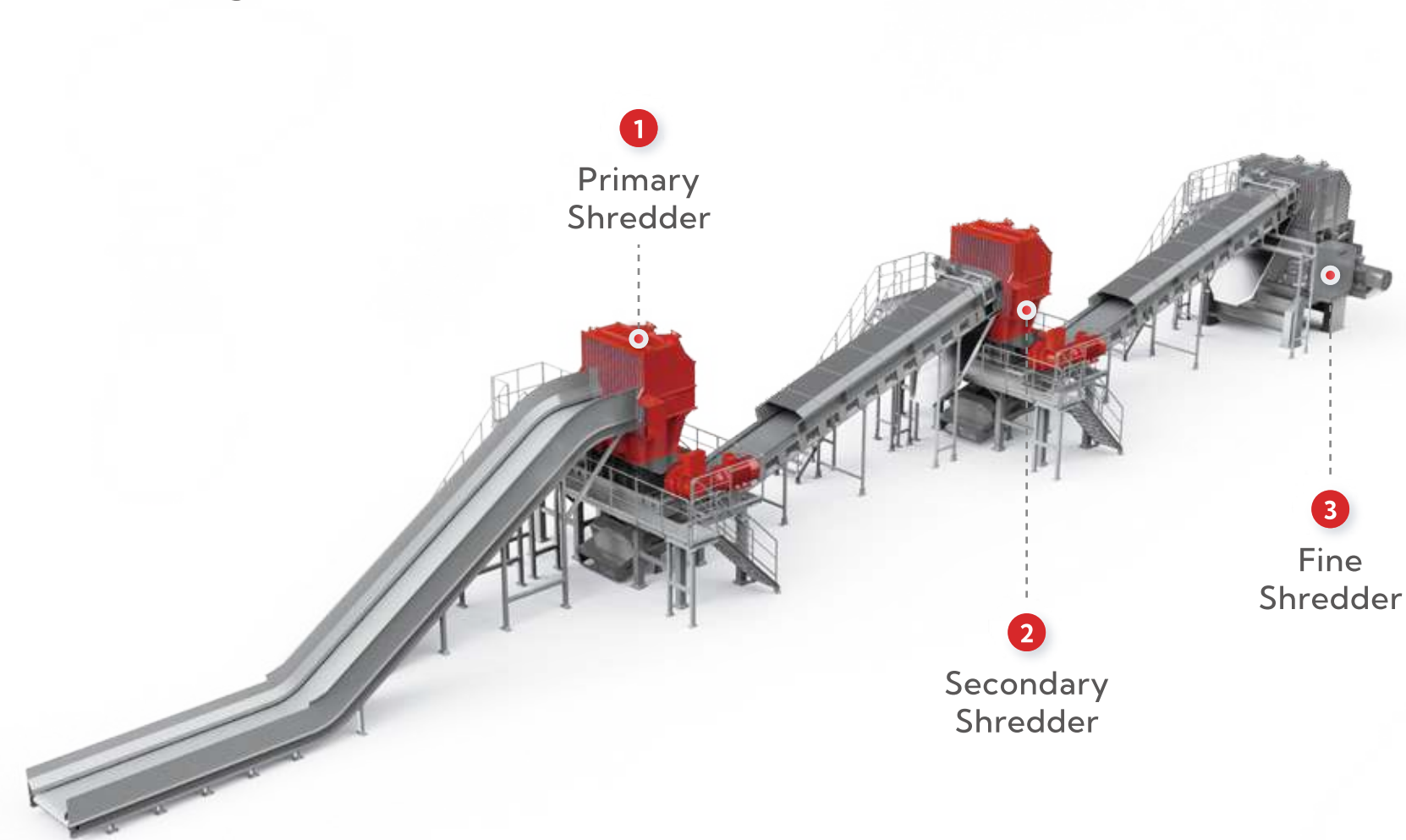
► TP2440

Model		TS303	TS508	TS612	TPH1620	TP1826	TPH1826	TP2440	TPH2440
Equipment Dimensions									
Dimensions (L*W*H)	mm	1473*872*1603	2100*1600*2185	3118*2152*2874	3925*2166*1186	7000*2338*1400	5020*2354*1235	9700*2700*1600	6313*2730*1739
Total Weight	kg	550	2680	5000	13900	27000	19700	46000	34600
Cutting Chamber									
Dimensions (L*W)	mm	324*360	839*580	1200*600	2000*1700	2700*1900	2700*1900	3700*2400	3700*2400
Rotor Speed	rpm	19	18/26	14/26	56	54	59	28	32
Cutting System Type	/	CB	CB	CB	HB	HB	HB	HB	HB
Knife Thickness	mm	10/30	10/20/30	20/30/60	80	80	80	80	80
Number of Knives	pcs	10/33	28/42/86	20/30/60	14/16	20/22	20/22	28	28
Drive System									
Drive	/	Electric	Electric	Electric	Hydraulic	Electric	Hydraulic	Electric	Hydraulic
Power	kW	7.5	30	45	2*110/2*132	2*160/2*200	2*160/2*200	2*220	2*200
Electrical Control System									
Drive Control	/	/	/	/	Soft Start	Frequency converter	Soft Start	Frequency converter	Soft Start

*Models TS and TD include legs and hopper; models TDH, TP, and TPH do not. Specifications subject to modification.

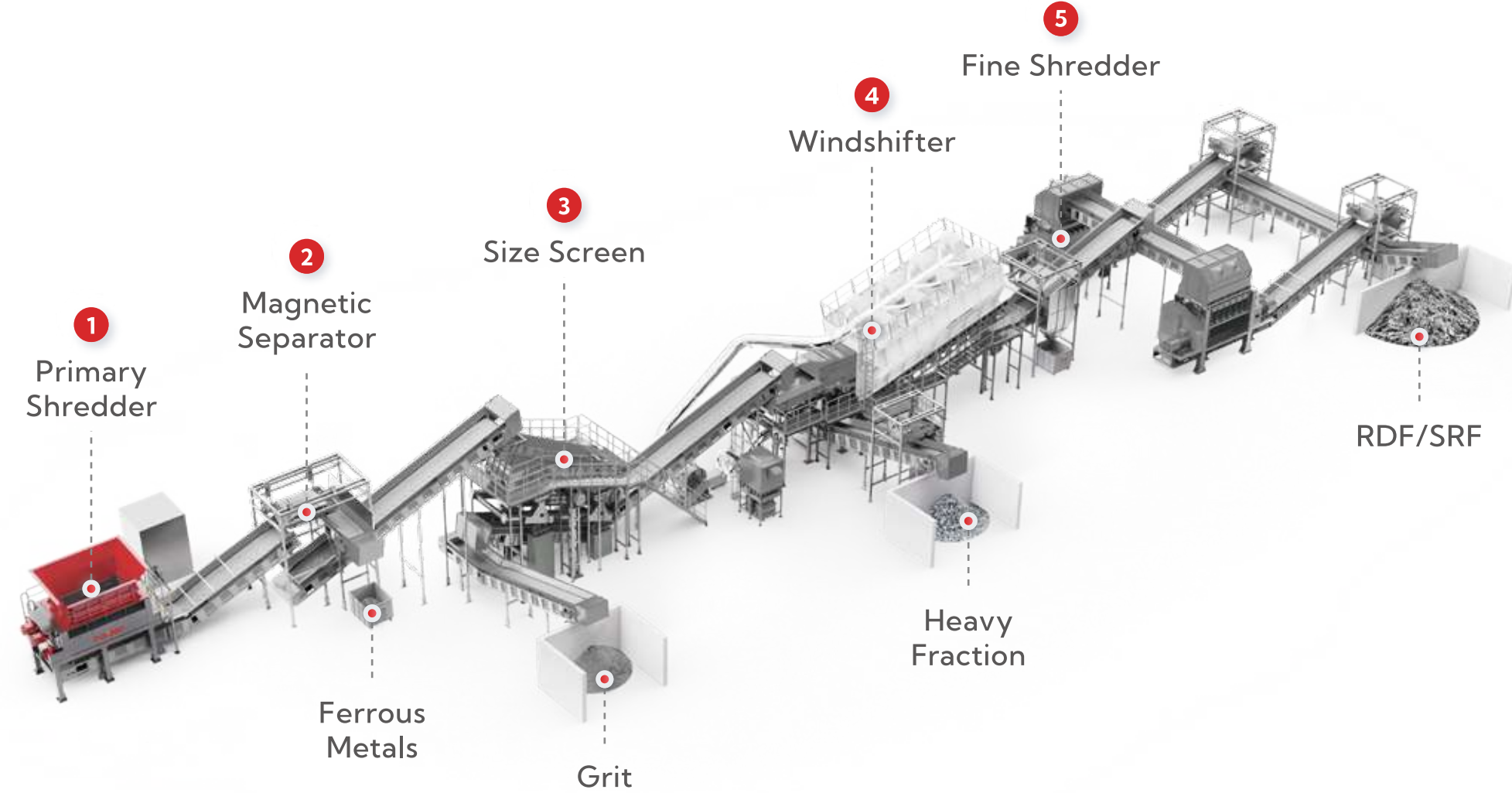
DDS

Shredding Solution



DSWS

Shredding Solution



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

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