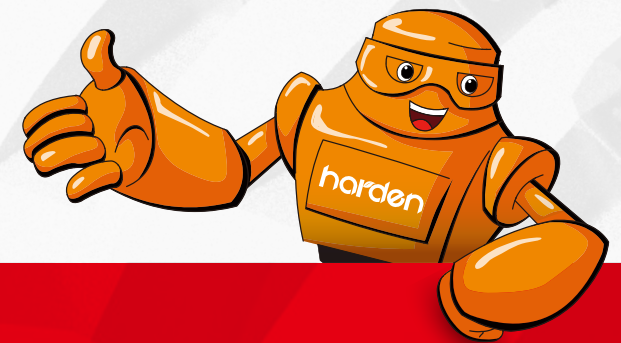


Solid Waste Resource Recovery Technologies and Solutions

Mastering Shredding and
Screening Excellence



harden
JUST SHRED IT, THUS SORT IT.

HARDEN MACHINERY LTD.

240+
Employees

20,000m²
Factory Area

Founded in 2010, Harden Machinery Ltd. stands as a leading manufacturer of waste management and recycling equipment in China, specializing in the research, development, and production of customized industrial shredders and material sorting systems. We are committed to delivering diverse, high-performance waste management solutions, empowering clients to achieve efficient waste processing and maximize resource recovery.

Our robust product portfolio

- **Single-Shaft Shredders**
- **Two-Shaft Shredders**
- **Four-Shaft Shredders**
- **Triangle Disc Screens**
- **Hexagon Disc Screens**
- **Vibrating Screens**
- **Windshifters**

These precision-engineered solutions adapt seamlessly to a wide range of solid waste processing scenarios, meeting diverse customer demands with unmatched versatility.

JUST SHRED IT, THUS SORT IT.





Paper Mill Waste Processing System



Municipal Solid Waste Processing System



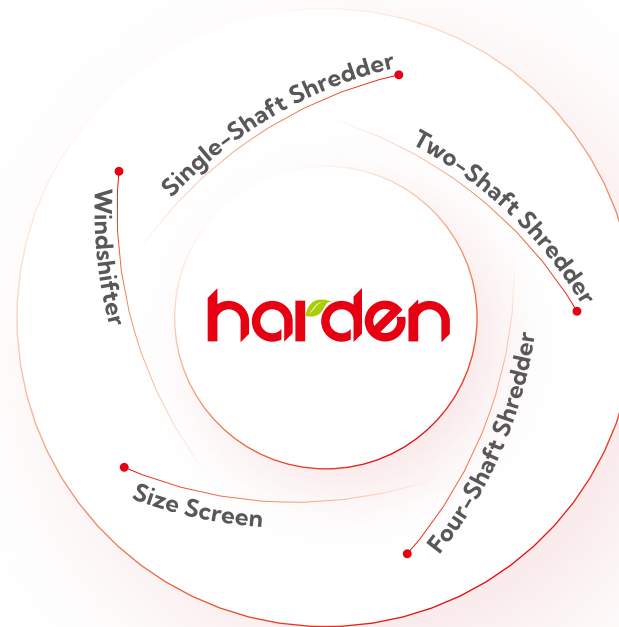
Bulky Waste Processing System



Hazardous Waste Processing System



Food Waste Processing System



DSWS Alternative Fuel Preparation System



C&I Waste Processing System



Waste Tire Processing System



Waste Battery Processing System



Medical Waste Processing System



Global Partner

With a global footprint spanning over 30 countries and regions across Europe, Southeast Asia, North America, and beyond, Harden Machinery Ltd. proudly partners with more than 1,000 enterprises.

Our solutions excel in boosting operational efficiency, optimizing resource recovery, and reducing costs, unlocking exceptional economic and environmental value for our clients.



CONCH



光大綠色環保
Everbright Greentech

Sinoma



| Raw Materials

Compatible with Diverse Materials

- MSW
- C&I Waste
- E-Waste
- C&D Waste
- Scrap Aluminum
- Food Waste
- Hazardous Waste
- Waste Tires
- Biomass
- Used Batteries
- Landfill Waste
- Plastics
- Waste Textiles
- Bulky Waste
- Medical Waste
- Paper Mill Waste
- Wooden Pallet
- and more...



Applications

Applicable to Multiple Industries

Harden's products are widely used across various industries, including cement plants, paper mills, power plants, waste treatment facilities, chemical plants, and synthetic fiber factories, contributing to resource recovery and recycling.



**RDF/SRF
Production Facilities**



**Recycling
Facilities**



**MSW
Processing**



**Hazardous Waste
Treatment Centers**



**Cement
Plants**



**Secure
Destruction**



**Biomass Biogas
Production**



**Paper
Mills**



**Power
Plants**



**Tire
Recycling**



**Chemical
Plants**



Refineries

Single-Shaft Shredders

SG3000MP

One-Step Single-Shaft Shredder



- ✓ Compact Design
- ✓ Versatile Applications
- ✓ Low Operational Cost Per Ton
- ✓ Throughput Capacity: 30 t/h
- ✓ Output Size: 40–130 mm

SG2200RP/SG3000RP/SG3000RF

Fine Single-Shaft Shredder



- ✓ High Energy Efficiency
- ✓ Easy Maintenance
- ✓ Throughput Capacity: 30 t/h
- ✓ RP/MP Output Size: 40–130 mm
- ✓ RF Output Size: 10–80 mm

SL1500/SL2000/SL2500

Small-Capacity Single-Shaft Shredder



- ✓ Safe and Reliable Operation
- ✓ Easy Maintenance
- ✓ Low Operational Cost Per Ton
- ✓ Throughput Capacity: 20 t/h
- ✓ Output Size: 40–130 mm

SP3000

Low-Speed Single-Shaft Shredder



- ✓ High-Torque Shredding
- ✓ Low Energy Consumption
- ✓ High Throughput
- ✓ Throughput Capacity: 70 t/h
- ✓ Output Size: 50–300 mm

Two-Shaft & Four-Shaft Shredders

TS Series

Medium-Small Torque Two-Shaft Shredder



- ✓ Compact Single-Drive Design
- ✓ Reduced Energy Consumption
- ✓ Throughput Capacity: 20 t/h
- ✓ Output Size: 10–300 mm

TD Series

High Torque Two-Shaft Shredder



- ✓ Independent Dual-Drive, Low-Speed System
- ✓ Capable of Shredding Challenging Materials
- ✓ Throughput Capacity: 50 t/h
- ✓ Output Size: 100–500 mm

TDH Series

High Torque Two-Shaft Shredder



- ✓ Hydraulically Driven
- ✓ Suitable for Tough Materials
- ✓ Throughput Capacity: 50 t/h
- ✓ Output Size: 100–500 mm

TP Series

High Torque Two-Shaft Primary Shredder



- ✓ Electric Motor
- ✓ Adeptly Handles Complex Operating Conditions
- ✓ Throughput Capacity: 100 t/h
- ✓ Output Size: 80–400 mm

TPH Series

High Torque Two-Shaft Primary Shredder



- ✓ Energy-Efficient Hydraulic Drive
- ✓ Highly Adaptable to Complex Materials
- ✓ Throughput Capacity: 100 t/h
- ✓ Output Size: 80–400 mm

QS Series

Four-Shaft Shredder



- ✓ Precise Output Size Control
- ✓ Efficiently Shears Stubborn Waste
- ✓ Throughput Capacity: 10 t/h
- ✓ Output Size: 20–150 mm

Size Screen

TDS Triangle Disc Screen



- ✔ Suitable for High-Moisture Materials
- ✔ Broad Adaptability
- ✔ High Screening Efficiency

HDS Hexagon Disc Screen



- ✔ Suitable for Relatively Low-Moisture Materials
- ✔ Suitable for Screening Fine Materials

MDS Multi-Star Disc Screen



- ✔ Suitable for Sorting Waste Tires
- ✔ Suitable for Sorting 3D Plastics

Step Vibrating Screen



- ✔ Multi-Specification Screen Plates
- ✔ Precise Separation by Size and Shape

VF Flip-Flow Vibrating Screen



- ✔ Suitable for High-Viscosity Materials
- ✔ Suitable for Clog-Prone Materials

VC Combined Vibrating Screen



- ✔ One Unit for Dual-Function Separation
- ✔ Ideal for Complex Materials



Windshifters

SFX Single-Drum Windshifter



- Separates waste into light and heavy fractions—light materials include plastics, paper, and textiles; heavy materials include stones, glass, and metals.
- Ideal for commercial & industrial waste, municipal solid waste, C&D waste, landfill waste, and RDF/SRF production.

DDW Double-Drum Windshifter



- Separates waste into light, medium, and heavy fractions—Light materials include plastics, paper, and textiles; medium materials include cardboard and wood; heavy materials include stones, glass, and metals.
- Offers superior separation accuracy and efficiency compared to single-drum models; suited for C&D waste, high-calorific RDF/SRF production, and recyclable resource recovery.

Product Overview

Type	Model	Applicable Materials	Dimensions (L*W*H) mm	Weight kg	Power kw	Drive	Cutting Chamber (L*W) mm
Two-Shaft Shredders	TS303	MSW, C&I Waste, E-Waste, Plastics, Food Waste	1473*872*1603	550	7.5	Electric	324*360
	TS508		2100*1600*2185	2680	30	Electric	839*580
	TS612		3118*2152*2874	5000	45	Electric	1200*600
	TD612		4370*2392*3475	6940	2*45	Electric	1200*600
	TD912		4824*2773*3245	10800	2*75	Electric	1200*900
	TDH912	MSW, C&I Waste, E-Waste, Hazardous Waste, Biomass, Plastics, Rubber&Tires, Textiles	3784*1440*677	6500	132	Hydraulic	1200*900
	TD919		6428*2719*3361	14400	2*75	Electric	1600*900
	TD1016		6720*3571*4257	16800	2*110	Electric	1600*1000
	TD1216E		5069*3430*4745	18200	2*132	Electric	1600*1200
	TD1216H		5920*3494*6350	22000	2*132/2*160	Electric	1600*1200
	TDH1216		4960*1860*708	12100	200	Hydraulic	1600*1200
	TPH1620		3925*2166*1186	13900	2*110/2*132	Hydraulic	2000*1700
	TP1826		7000*2338*1400	27000	2*160/2*200	Electric	2700*1900
	TPH1826		5020*2354*1235	19700	2*160/2*200	Hydraulic	2700*1900
	TP2440		9700*2700*1600	46000	2*200/2*200	Electric	3700*2400
	TPH2440		6313*2730*1739	34600	2*200	Hydraulic	3700*2400
Four-Shaft Shredders	QS1012	C&I Waste, C&D Waste, E-Waste, Biomass, Plastics, Rubber&Tires, Textiles	3300*1920*1840	10000	2*45	Electric	1200*1000

*The above are standard model parameters and are subject to modification.
Two-shaft shredder models TS and TD include legs and a hopper, while TDH, TP, and TPH models do not.
Four-shaft shredder models do not include legs and a hopper.

Type	Model	Applicable Materials	Dimensions (L*W*H) mm	Weight kg	Power kw	Drive	Cutting Length mm
Single-Shaft Shredders	SL1500	MSW, C&I Waste, C&D Waste, Biomass, Plastics, Textiles	3300*3220*4740	14500	110	Electric	1500
	SL2000		3800*3220*4740	16500	132	Electric	2000
	SL2500		4300*3220*4740	19000	160	Electric	2500
	SG2200RP	MSW, C&I Waste, C&D Waste, E-Waste, Biomass, Plastics, Textiles	6122*3430*5423	28000	2*160	Electric	2200
	SG3000RP		6822*3430*5423	34000	2*200/2*250	Electric	3000
	SG3000RF	MSW, C&I Waste, C&D Waste, Biomass, Plastics, Textiles	7430*2876*5200	34000	2*200/2*250	Electric	3000
	SG3000MP	MSW, C&I Waste, C&D Waste, E-Waste, Hazardous Waste, Biomass, Plastics, Rubber&Tires, Textiles	6406*3253*4988	35000	2*200	Electric	3000
	SP3000		6475*2370*2655	34000	2*200	Electric	3000

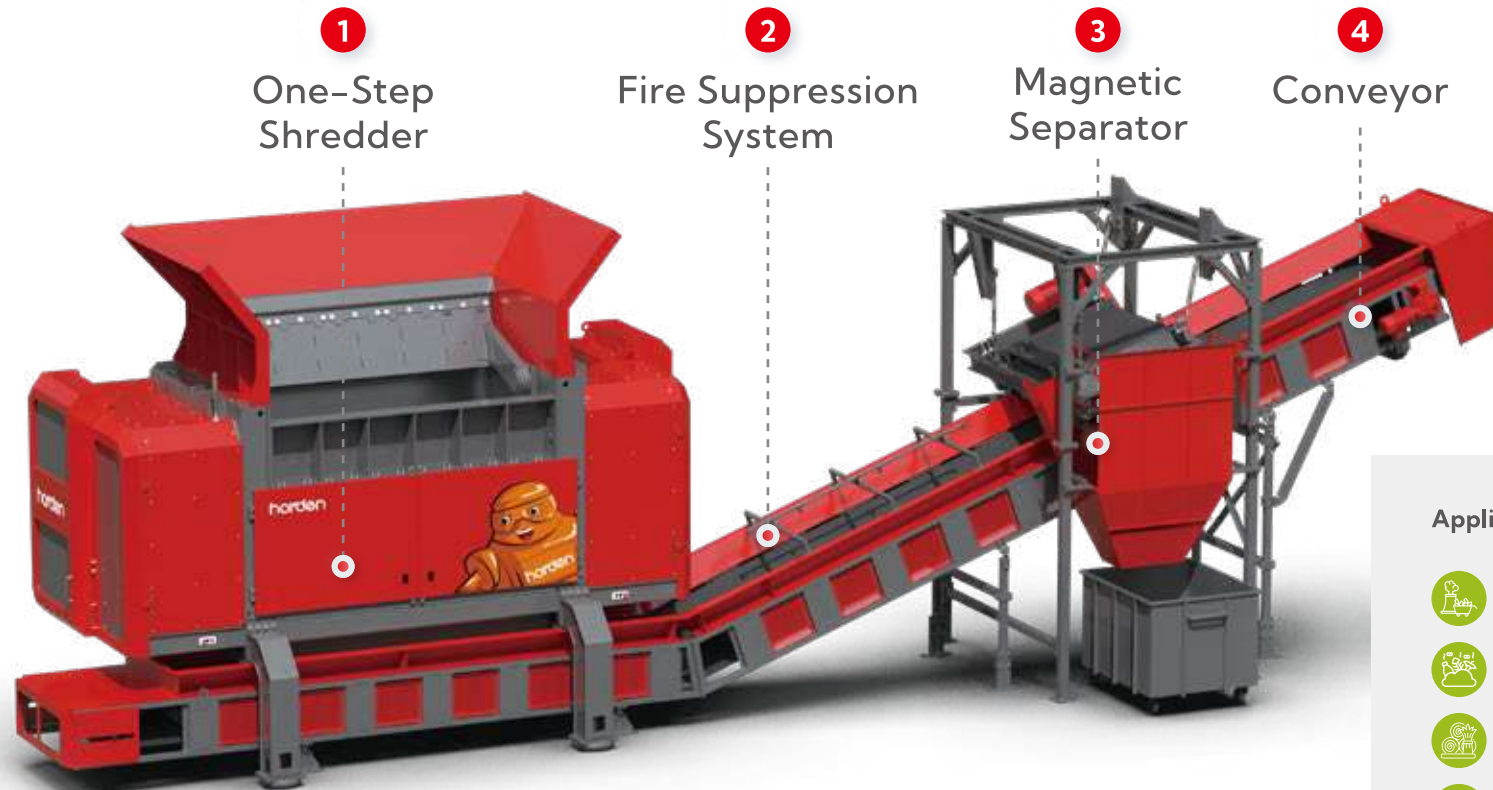
*The above are standard model parameters and are subject to modification. The single-shaft model includes legs and a hopper.

Type	Model	Applicable Materials	Dimensions (L*W*H) mm	Weight kg	Power kw	Working Length	Working Width
Windshifter	SF800	MSW, C&I Waste, C&D Waste, E-Waste, Plastics, Biomass	13600*3600*6000	11500	35	/	800
	SF1200		17600*5200*6900	16000	48.5	/	1200
	SF1400		20000*6500*8500	22000	57	/	1400
	DDW2000		30000*10700*8000	32000	134	/	2000
Triangle Disc Screen	TDS3500	MSW, C&I Waste, C&D Waste, E-Waste, Rubber&Tires, Plastics, Biomass	3846*2156*1845	4300	5.5	3500	1500
	TDS4500		4739*2195*1825	5500	7.5	4500	1500
Hexagon Disc Screen	HDS2000	MSW, C&I Waste, C&D Waste, E-Waste, Rubber&Tires, Plastics, Biomass	1962*2323*1277	3600	7.5	2000	1600
	HDS3000	MSW, C&I Waste, C&D Waste, E-Waste, Plastics, Biomass	2931*2323*1277	4800	7.5	3000	1600
Multi-Star Disc Screen	MDS4000	E-Waste, Rubber&Tires	4643*2086*1005	3000	5.5	4000	1200
Flip-Flow Vibrating Screen	VF2060	C&I Waste, C&D Waste, E-Waste, Rubber&Tires, Plastics	7298*3997*3354	8700	30	6000	2000
Combined Vibrating Screen	VC1660	MSW, C&D Waste, E-Waste, Rubber&Tires, Plastics, Biomass	7184*4043*5930	15000	45	5700	1600

*The above are standard model parameters and are subject to modification.
Disc screens and vibrating screens do not include legs.
The windshifter includes legs and air ducts.

Alternative Fuel RDF/SRF Preparation System

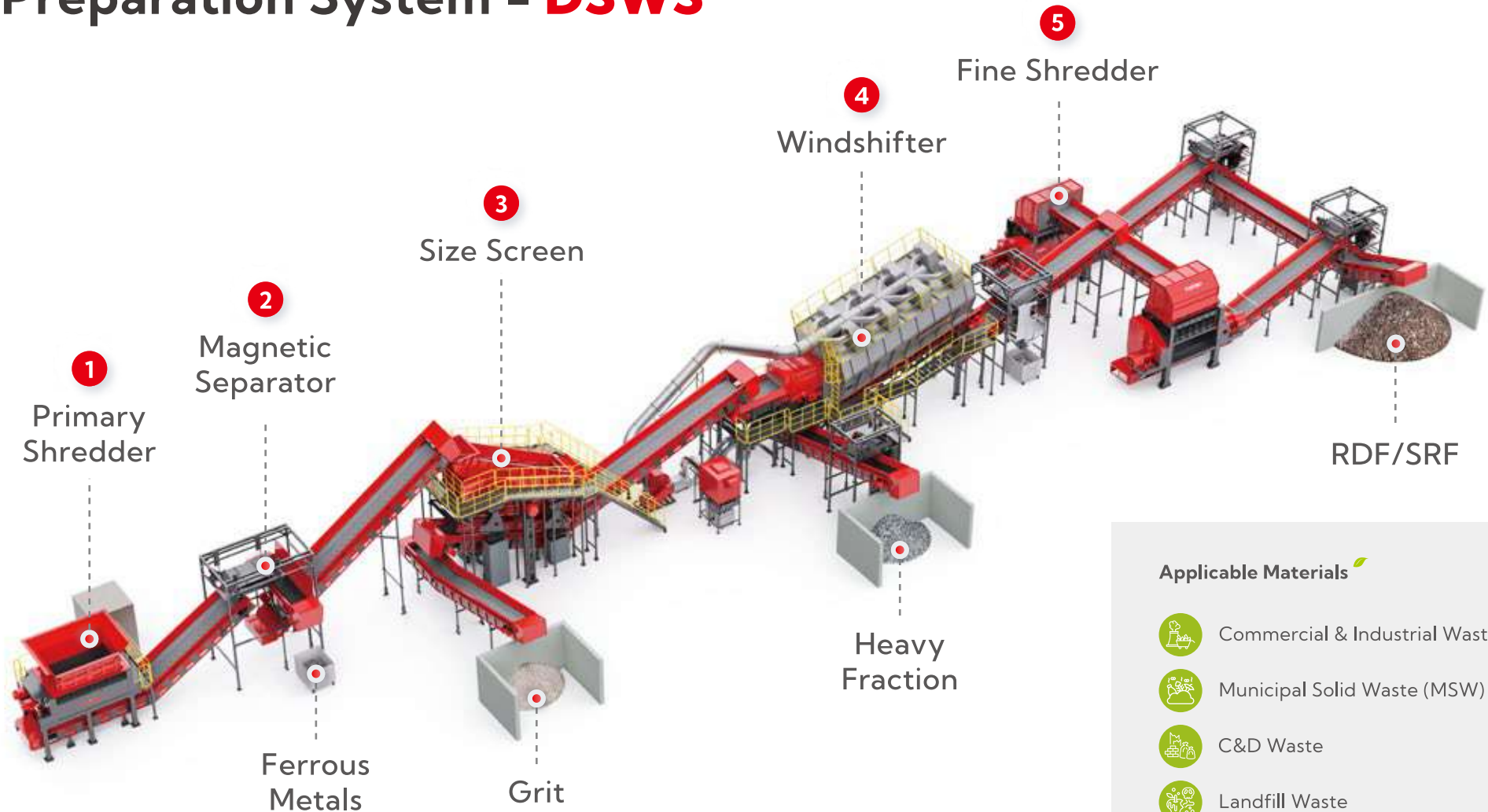
One-Step Shredding Solution



Applicable Materials

-  Commercial & Industrial Waste
-  Municipal Solid Waste (MSW)
-  Biomass
-  Waste Tires
-  Plastics
-  Textiles

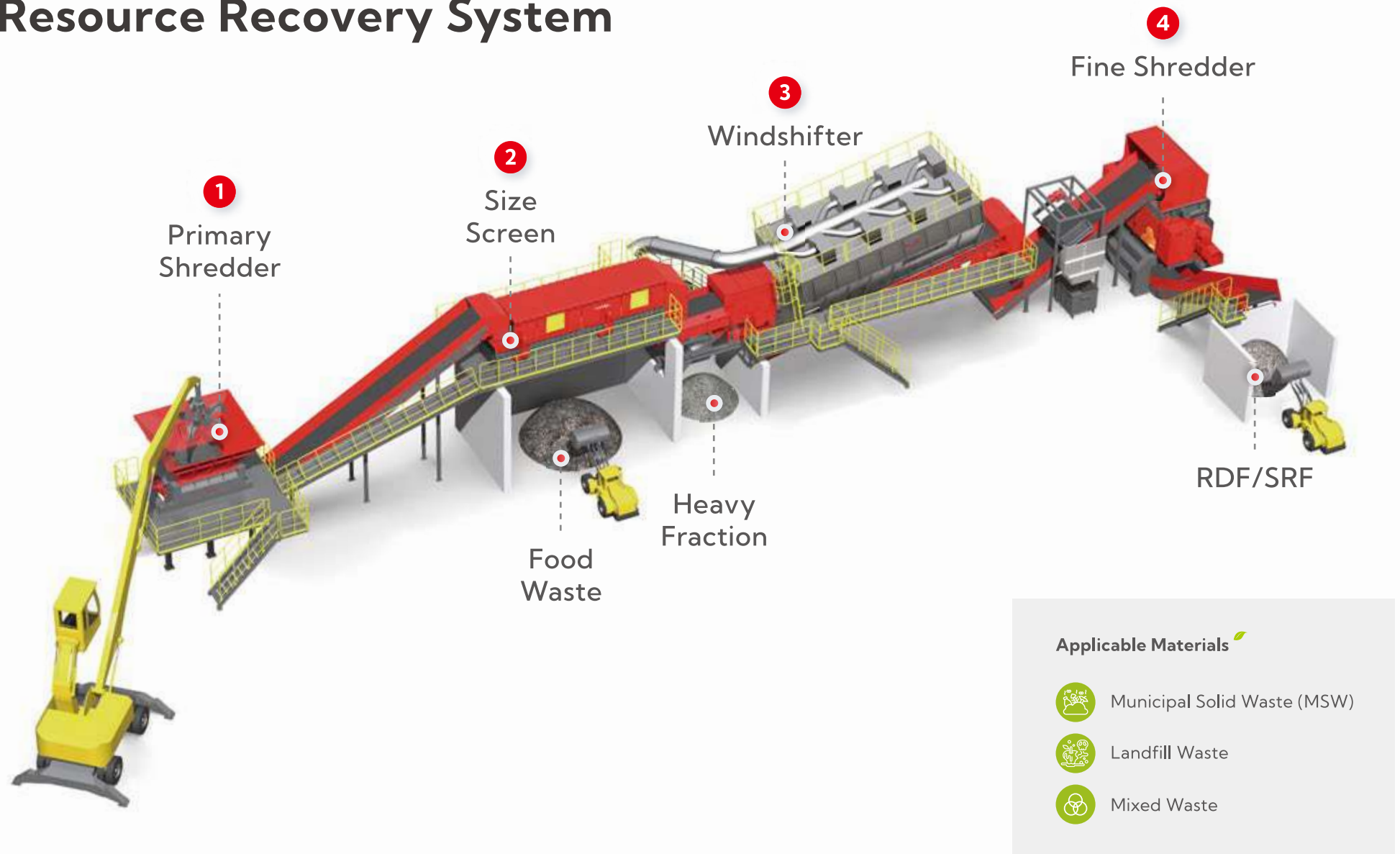
High-Calorific Alternative Fuel RDF/SRF Preparation System – **DSWS**



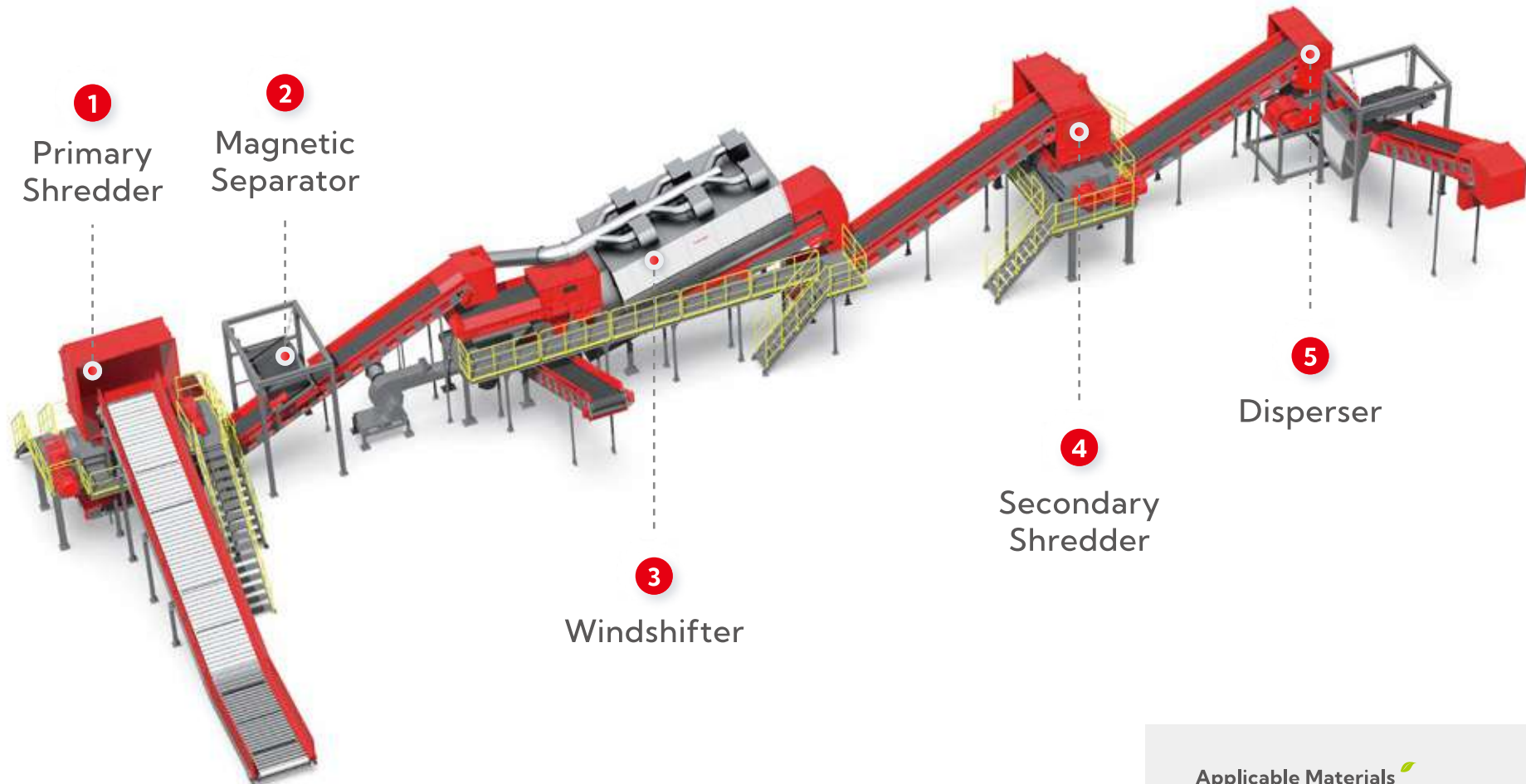
Applicable Materials

-  Commercial & Industrial Waste
-  Municipal Solid Waste (MSW)
-  C&D Waste
-  Landfill Waste
-  Mixed Waste

Municipal Solid Waste Resource Recovery System



Paper Mill Waste Processing System

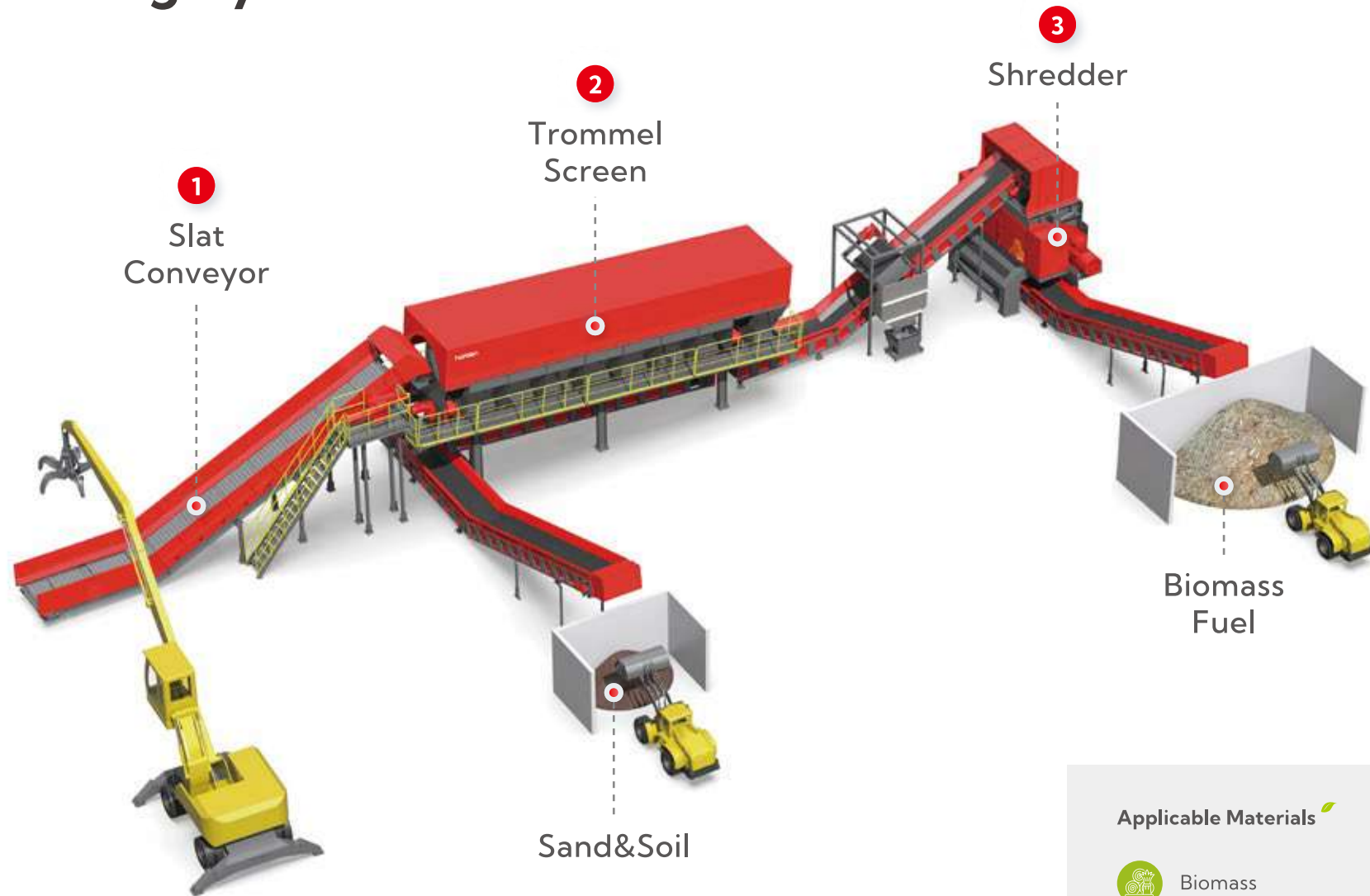


Applicable Materials



Paper Mill Waste
(Ragger Tail/Light Rejects)

Biomass Processing System



Applicable Materials 



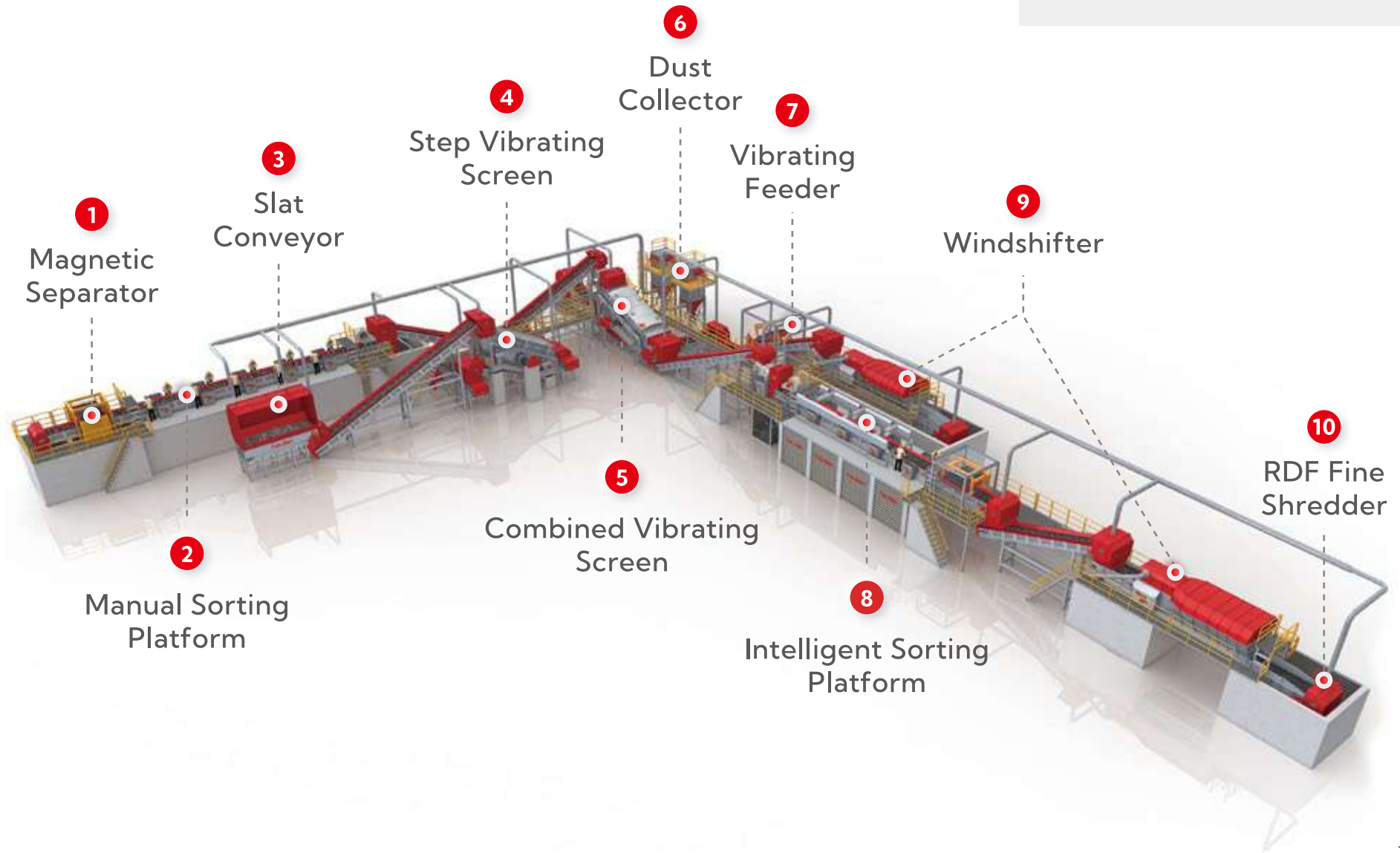
Biomass

C&D Waste Resource Recovery System

Applicable Materials 

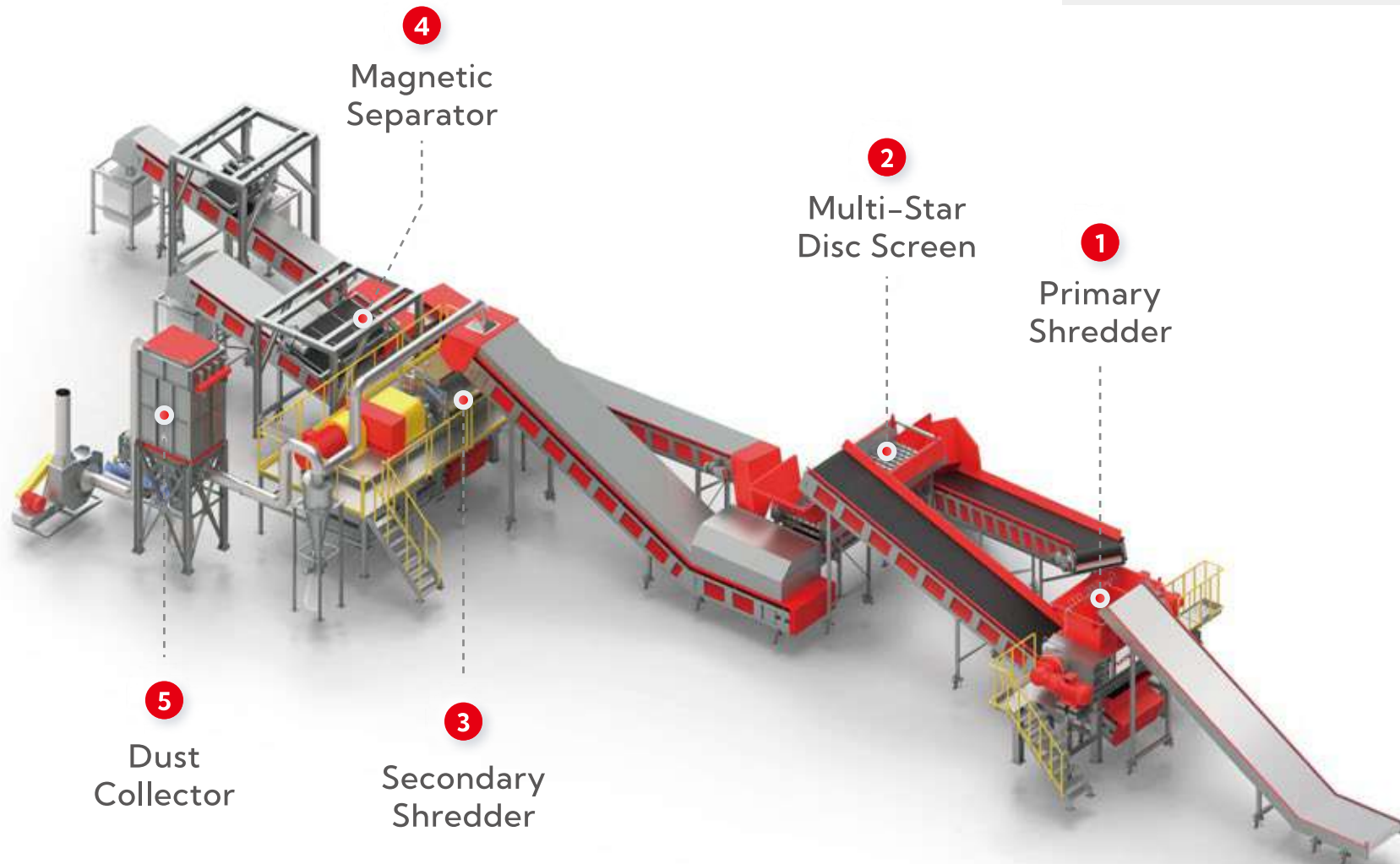


C&D Waste



Tire Derived Fuel (TDF) Preparation System

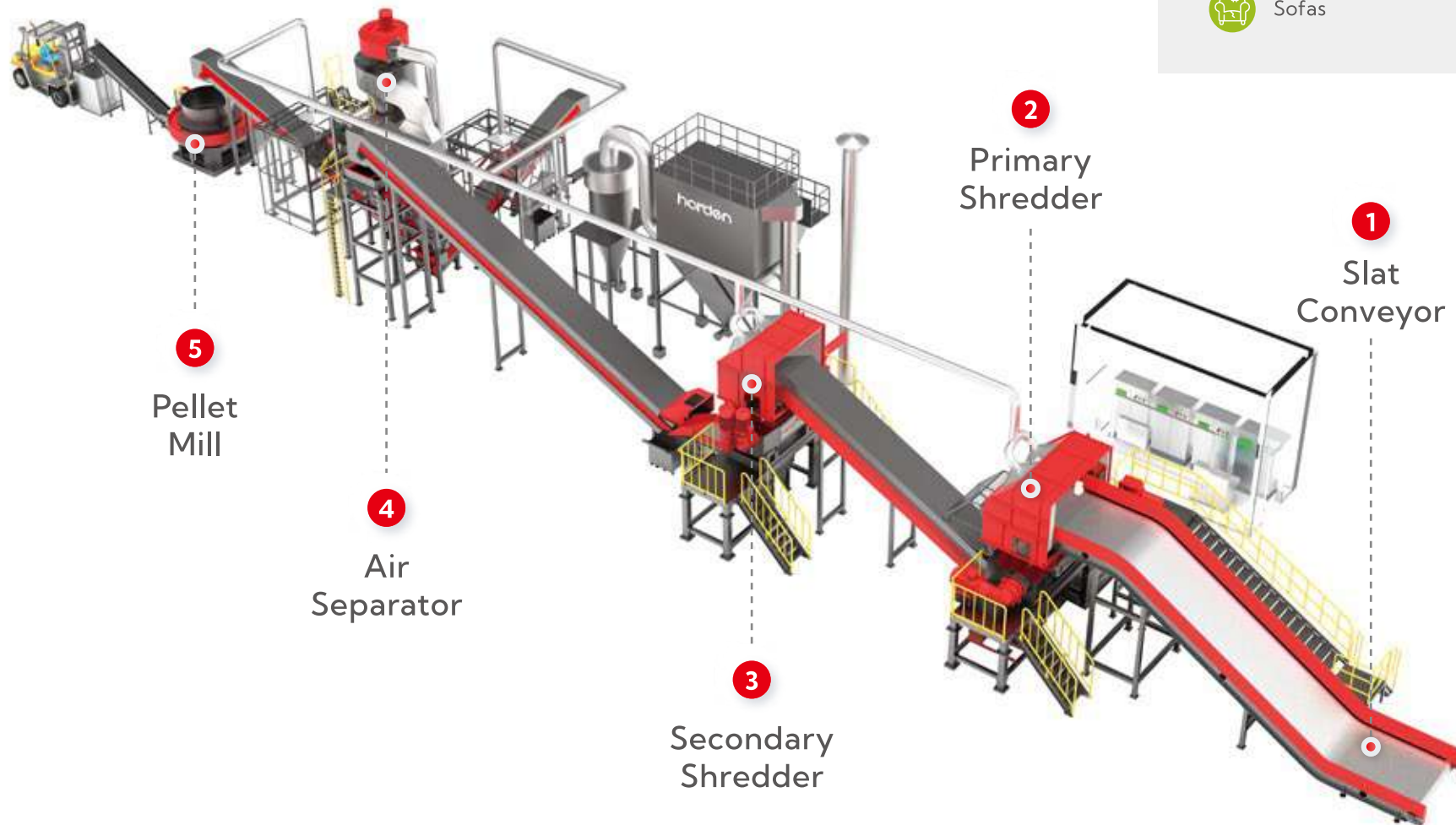
Applicable Materials 



Bulky Waste Resource Recovery System

Applicable Materials

-  Waste Furniture
-  Mattresses
-  Sofas

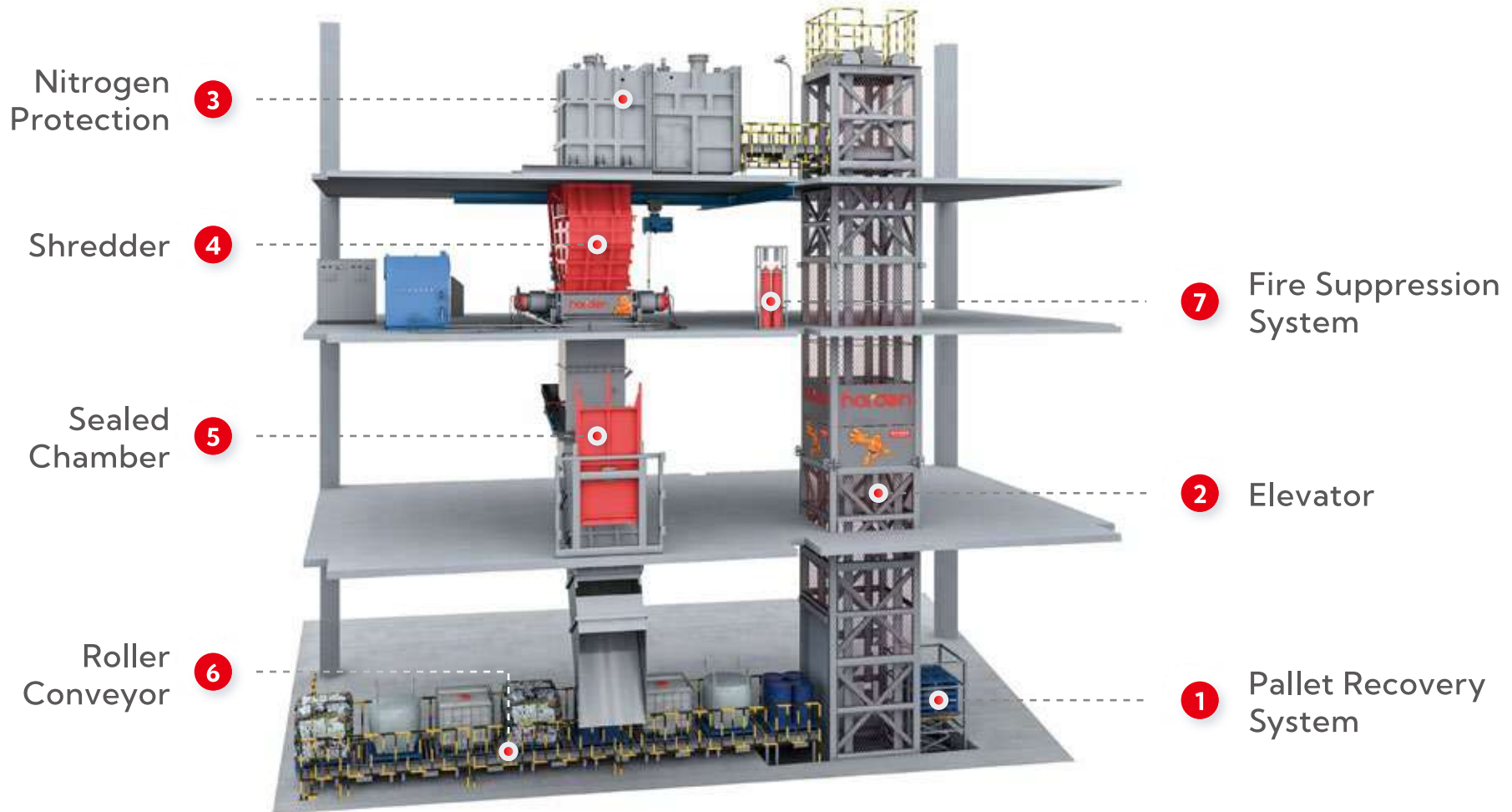


Hazardous Waste Shredding System

Applicable Materials 



Hazardous Waste



Waste Battery Shredding System

Applicable Materials



Lithium Batteries



Battery Cells or Modules



Harden's Global Presence

1500+

Cases

1000+

Clients

After-Sales Service



The engineering team is highly specialized, capable of providing their technical expertise to resolve complex technical challenges.



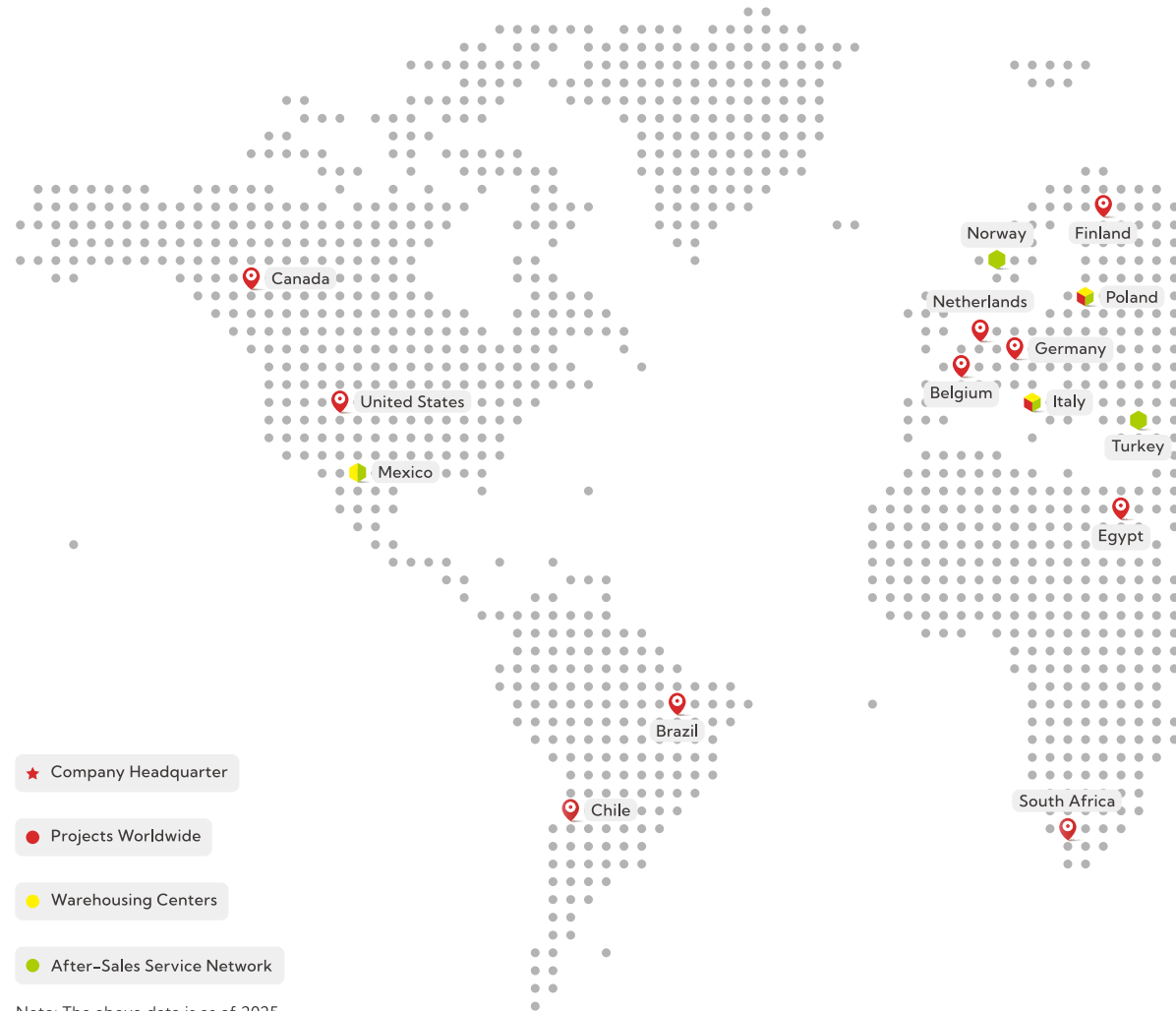
Service network spans 13 countries, with warehouses in China, Italy, Poland, Mexico, Thailand, India, and more for rapid spare parts delivery.



Automated cutter refurbishment ensures efficiency, superior quality, and extended tool life.



The team offers comprehensive training on equipment operation and maintenance.





System Inspection

Technicians conduct regular full skill inspections to ensure stable operation and recommend maintenance improvements as needed.



Problem Analysis

Experts diagnose production root issues and deliver prompt, effective fixes.



Rapid Maintenance

Service team responds quickly to repair requests with full support, ensuring uninterrupted performance.



System Upgrades

We periodically enhance mechanical and automation features, sharing innovations and proposing upgrades with customers.

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.



HM-202508

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