

ST-500 2-Shaft Shredder

The ST-500 is specifically designed for high shock load and severe duty applications such as e-waste reduction, OTR tires, magnesium castings, municipal & industrial waste, hazardous waste, pallets, wood waste, copper and steel wire and cable, scrap aluminum, high volume production processing and other applications.

It does more so you can **DO MORE!**



STANDARD FEATURES

CUTTING CHAMBER

The ST-500 shredders are available in three large cutting chamber sizes.

DRIVE SYSTEM

The ST-500H shredders offer electric/hydraulic and diesel/hydraulic systems. Power units range in horsepower from 200 HP to 800 HP. High-torque, multi-cam, radial piston hydraulic motors are available in single or dual configurations. Shred-Tech's superior closed loop hydraulic drives allow for knife tip cutting forces in excess of 237,000 lbs.

KNIVES

Shred-Tech engineers design each knife profile and configuration to suit the application for maximum throughput and optimum shred size.

CONTROL PANEL

The ST-500H control panel, designed by certified Shred-Tech technicians, features illuminated function buttons, keyed power switch, fused lockable disconnect, hour meter, and programmable logic controller for shredder functions, including knife reversal on overload.

HOPPER AND STANDS

Quality is evident in the workmanship of Shred-Tech's extra heavy duty stand and hopper. As an option, the stand and hopper can be modified to suit the application or installation.

HEX SHAFTS

The unique design of the machined hex shafts maximizes knife placement options and allows for easy knife removal and machine maintenance. Size for size, the hex shaft is several times stronger than a keyed shaft. The Shred-Tech hex shaft drive system offers the highest knife tip cutting force of any comparable shredder on the market.

HYDRAULIC FEATURES

Variable displacement pumps, 5,000 PSI operating pressure, ability to maintain maximum knife tip force by adjusting speeds, capable of extra high starting torque under any load condition, modular hydraulic power packs engineered to meet application requirements, diesel or electric hydraulic drives, stationary or mobile capabilities, high shock manifolds and accumulators for severe applications.





ST-500

2-Shaft Shredder

The ST-500 is designed for maximum use with a wide range of materials and optimum shred size.

SHREDDER TECHNICAL SPECIFICATIONS	ST-500HS	ST-500H	ST-500HL
MEASUREMENTS			
M/C Length (Single/Dual Drive)	128" 154"	143" 169"	164" 200"
M/C Width	80"	80"	80"
M/C Height	136"	136"	136"
M/C Weight (lbs)	31,250 35,500	33,450 37,700	42,000 46,000
Floor Space (sq.ft.)	70 85	80 94	90 110
PRODUCT SPECIFICATIONS			
Drive	Hydraulic	Hydraulic	Hydraulic
Number of Motors	1 or 2	1 or 2	1 or 2
Motor Type	Radial Piston	Radial Piston	Radial Piston
Power Unit	Diesel or Electric	Diesel or Electric	Diesel or Electric
Knife Thickness (STD)	2 3/4" 1 7/8" 1 1/2"	1 1/2" 1 7/8" 2 3/4"	2 3/4" 1 7/8" 1 1/2"
Number of Knives	17 24 31	22 32 41	30 44 55
Knife Diameter	22 3/4"	22 3/4"	22 3/4"
Hex Size Diameter	8"	8"	8"
Distance Between Shafts	17"	17"	17"
Cutting Chamber	60" x 43"	75" x 43"	96" x 43"
Discharge Height	60"	60"	60"
Hopper Height	73"	73"	73"
Hopper Opening	68" x 69"	83" x 69"	104" x 69"
Stand Opening (Width)	47 1/2"	47 1/2"	47 1/2"
Stand Opening (Length)	82"	97"	119"
OPTIONAL FEATURES			
PLC Interfacing for Peripheral Equipment			
Custom Stands and Hoppers			
Feed and Discharge Conveyors			
Pneumatic or Hydraulic Ram			
Vibrating, Magnetic or Rotary Separation			
Reduced Voltage Starters			
Trailer Mounted			
Explosion Proof Motors			
Modem Capabilities			
Boom Crane and Working Platform			
MAINTENANCE			
Several design refinements proven successful to increase ease of maintenance and shredder durability in Shred-Tech's model line up have been incorporated into the ST-500H shredder. The removable fingers from the hopper side, the sleeved bearings and the design of the hexed shafts facilitate ease of parts removal. The hopper mounting is configured to permit shredder disassembly without hopper removal. A Shred-Tech proprietary torque setting mechanism provides easy knife-stack tightening.			
MODULAR HYDRAULIC DRIVE SYSTEM			
Shred-Tech's shredders have been engineered with exceptionally high mechanical safety factors to generate high knife tip cutting forces without the use of gear reduction. The ability to correlate shredder cutting chamber sizes with a variety of hydraulic power units provides the customer with a machine designed to best suit the application.			

Product specifications subject to change without notice.

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