



Technical Specification

CPS Series Pipe Shredder



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CPS Series Pipe Shredder

Application:

The CPS Series single shaft shredders have been developed for size reduction of pipes up to 1,194 mm diameter from materials such as UPVC, PE, and PP. Pipes up to 7.6 meters in length may be shredded without the need for pre-cutting. The shredder is available with two rotor diameters (990 mm and 1422 mm) and is equipped with rotary cutters operating at low speed, which ensures smooth, efficient size reduction of pipes. Large Pipes or bundles of smaller diameter are loaded into the horizontal feeding trough, the doors close automatically, and the hydraulic pusher forces the pipes towards the rotor.

Benefits:

- Dual drive motors with heavy-duty self-aligning gear box maximizes torque for high throughput shredding with reduced noise levels and long life.
- Standard, hardened rotor designed for long life in demanding applications.
- Horizontal trough with hinged hydraulic door provides comfortable height to feed full length pipes.
- Bolt on 4-edge rotor knives with replaceable seats for easy maintenance.
- Telescoping ram provides positive pressure to pipe to ensure constant throughput.

Standard Features:

- 990 mm (1000 model) or 1422 mm (1500 model) diameter drum style rotor provides efficient cutting of thick wall pipe.
- Low speed rotor (43 rpm on 1000 model; 28 rpm on 1500 model) transmits high cutting torque for processing solid, thick wall, or corrugated pipe.
- The low speed cutting action provides smooth operation when processing the heavy wall or solid pipe and reduces noise levels that typically occur when processing long lengths of heavy material.
- Standard rotor is fabricated using abrasion-resistant steel for long life in high-wear applications.
- 4-edge 33 mm reversible cutters with bolt-in replaceable knife seat for easy maintenance.
- Heavy-duty self-aligning outboard mounted bearings that reduce the possibility of material contamination.
- Feed trough that processes up to 7.6 meters long full length pipes horizontally. This feed style allows the heavy pipe to be fed at a comfortable height by fork lift or crane without the need of complex tilting mechanisms.
- The 3-stage telescoping 15 kW hydraulic ram pushes the pipe into the shredder, maintaining pressure to maximize throughput. The laser measurement device on the ram records the exact position of the ram at each step of the process.
- Dual drive motors provide even distribution of horsepower along the rotor, maximizing the transmission of torque through the heavy-duty gear box system.



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Specifications

Model	CPS 1000	CPS 1500
Feed opening, mm	6425 x 840	6425 x 1295
Rotor diameter, mm	990	1420
Biggest pipe, mm	5995 x 790	5995 x 1195
Rotor speed	43 rpm	28 rpm
Number of cutters (pieces)	108	206
Drive capacity, kW	2 x 45	2 x 55
Bed knives (pieces)	4	5
Ram drive, kW	15	
Total weight, tons	20	25

Dimensions, mm

Model	A	B	C	D	E	F	G	H	I
CPS 1000	10,590	1475	7850	3,000 – 8000	1930	2895	2490	1065	585
CPS 1500	11,100	1805	7495		2310	3300	3050	735	560

