



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 47" (1194mm) diameter from materials such as UPVC, PE, and PP. Pipes up to 25 feet (7.6 m) in length may be shredded without the need for pre-cutting. The shredder is available with two rotor diameters (39" (990mm) and 56" (1422mm)) 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:

- 39" ((990mm) 1000 model) or 56" ((1422mm) 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 1.3" (33mm) 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 25 foot (7.6m) 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 20hp (14.9 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.

— See Page 2 For CPS Series Specifications & Drawings —



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Specifications

Model	CPS 1000	CPS 1500
Feed opening, in. (mm)	253 x 33 (6426 x 838)	253 x 51 (6436 x 838)
Rotor diameter, in. (mm)	39 (991)	56 (1422)
Biggest pipe, in. (mm)	236 x 31 (5994 x 787)	236 x 47 (5994 x 1194)
Rotor speed	43 rpm	28 rpm
Number of cutters (pieces)	108	206
Drive capacity, hp (kW)	2 x 60 (1.5 x 44.8)	2 x 75 (1.5 x 55.9)
Bed knives (pieces)	4	5
Ram drive, hp (kW)	20 (14.9)	
Total weight, tons	20	25

Dimensions, in. (mm)

Model	A	B	C	D	E	F	G	H	I
CPS 1000	417 (10592)	58 (1473)	309 (7848)	118 - 315 (2997-8001)	76 (1930)	114 (2895)	98 (2489)	42 (1066)	23 (584)
CPS 1500	437 (11099)	71 (1803)	295 (7493)	118 - 315 (2997-8001)	91 (2311)	130 (3302)	120 (3048)	29 (736)	22 (558)

