

# Pipe and Profile Shredder

**ZRS**

The ZRS shredder is the world's first single shaft shredder capable of large diameter pipes (up to 1200mm) without the need for pre-cutting. Since their introduction they have become the standard for pipe shredding and are used worldwide by leading pipe manufacturers.

With several hundred machines installed, the ZRS is the technological leader in the pipe and profile reduction market. Response to market demands and customer feedback drives continuous innovation.

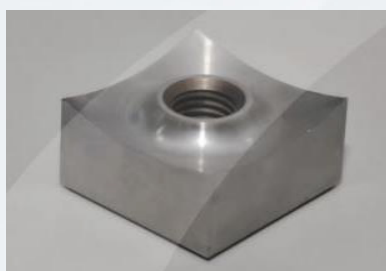
The ZRS rotor diameters and widths range from 800mm to 1500mm. Standard hoppers accept pipe lengths of up to 6m. Advanced controls, low rotor speed and smooth hydraulics create a reliable and easy to use system.

## Features

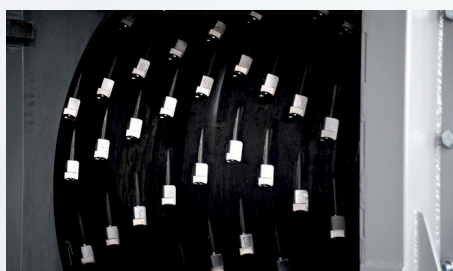
- ▶ No pre-cutting of pipe lengths necessary
- ▶ Process pipes up to 1200mm diameter
- ▶ Automatic control giving virtually risk-free operation
- ▶ Elimination of amperage peaks
- ▶ High throughput rates
- ▶ Allows feeding of bundles or nested pipes and profiles
- ▶ Large diameter rotor (up to 1500mm)

## Applications

- ▶ Large diameter pipes
- ▶ Bundles of smaller pipes
- ▶ Profiles
- ▶ HDPE, PP and PVC
- ▶ Large lumps, stacked wheelie bins and pallets
- ▶ Combine with granulators and pulverizers for a complete turn-key recycling solution



The shredders use concave ground square knives, producing high quality output. The cutters can be turned after a side is worn out.



The ZRS uses very large diameter flat E-style rotors. Knives are fixed in special knife holders fitted in machined pockets.



The pipe shredder is equipped with a special feeding trough sized to take pipes of up to 6m length. A powerful hydraulic ram forces the pipes into the rotor.



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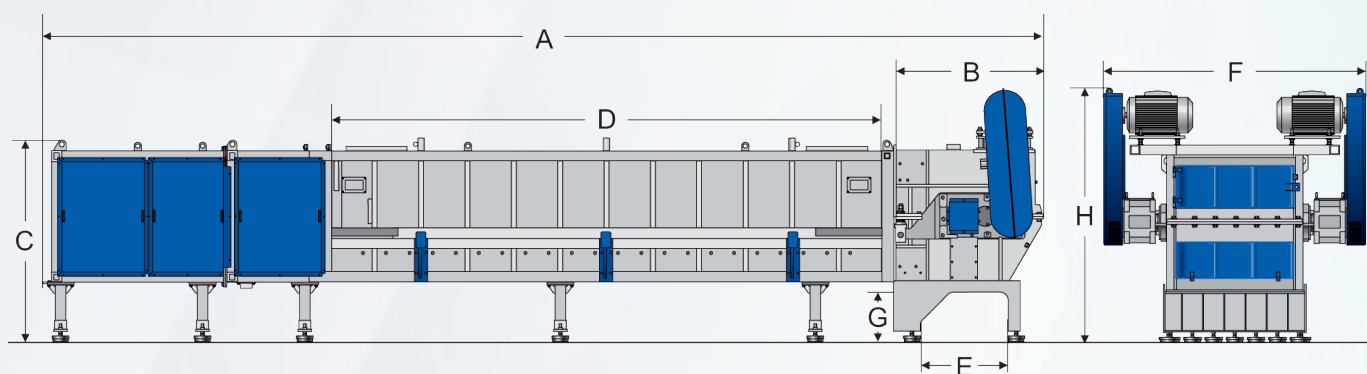
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## ZRS

Model	800	1000	1500
Rotor Diameter (mm)	852	1033	1482
Rotor Width (mm)	800	1000	1500
Rotor Speed (rpm)	40	36	23
Drive Capacity (kW)	2 x 37	2 x 45	2 x 55
Stator Knives (pcs)	60	81	136
Stator Blades (rows)	1 or 2	1 or 2	1 or 2
Ram Feeder Drive (kW)	11	15	15
Feeding Trough Volume (m3)	2.7	6.7	12.6
Biggest Pipe (mm)	3500 x Ø630	6500 x Ø850	6500 x Ø1200
Weight approx (kg)	11000	16000	25000
A (mm)	7695	11940	12180
B (mm)	1420	1580	1820
C (mm)	1830	1965	2320
D (mm)	3860	6720	6720
E (mm)	975	1080	1080
F (mm)	2545	2965	3250
G (mm)	590	590	590
H (mm)	2565	2660	3160



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