

ZRS

Pipe / profile shredders



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



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



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



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

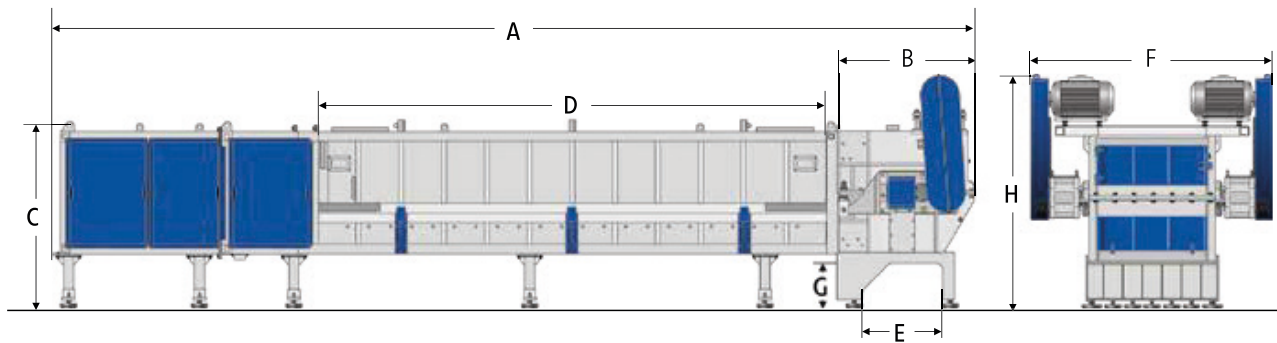
Applications

The main focus of the ZRS shredders is the shredding of large diameter pipes or bundles of smaller pipes and profiles made from HDPE, PP and PVC. The machines can also be used for recycling of other plastic materials such as large lumps, stacked wheelie bins and pallets etc. In combination with other **ZERMA** size reduction equipment such as granulators and pulverizers we are able to provide a complete turn-key recycling solution.

General Description

The ZRS shredder is the world's first single shaft shredder capable of handling large diameter pipes (up to 1200mm diameter) without the need for pre-cutting. Since their introduction they have become the virtual standard for pipe shredding and are used world-wide by leading pipe manufacturers. More than 200 installations demonstrate our technological leadership in this market and our continuing innovation is based on market demands and customer feedback.

Dependent on pipe diameter, the ZRS rotor diameters and widths range from 800mm up to 1500 mm. The standard hopper accepts pipe lengths of up to 6 m. The combination of advanced controls, low rotor speed and smooth hydraulics create a reliable and easy to use system.



Technical Specifications

Type	800	1000	1500	2000
Rotor diameter (mm)	800	1000	1500	1650
Rotor width (mm)	850	1050	1450	2000
Rotor speed (rpm)	40	36	23	18
Drive capacity (kW)	2 x 37	2 x 45	2 x 55	2 x 75
Rotor knives (pcs)	60	81	136	264
Stator blades (pcs)	4	4	5	5
Ram feeder drive (kW)	11	15	15	18.5
Feeding trough volume (m ³)	2.7	6.7	12.6	16
Biggest pipe (mm)	6500/3500 x 630	6500 x 850	6500 x 1200	6500 x 1800
Weight approx. (kg)	12800	17500	24000	40000

Dimensions

Type	800	1000	1500	2000
A (mm)	11840	11940	12180	13800
B (mm)	1420	1580	1820	2380
C (mm)	1830	1965	2320	2920
D (mm)	3860	6720	6720	7200
E (mm)	975	1080	1080	1200
F (mm)	2545	2975	3290	3900
G (mm)	590	590	590	590
H (mm)	2565	2660	3160	4172

