

Single Shaft Shredder

ZSS

The world renowned Zerma series of single shaft shredders are multi-purpose machines designed to withstand the demands of continuous operation in recycling.

The ZSS shredders hold a powerful two speed design, eliminating the risk of blocking and wearing out of internal guide rails. This machine is very versatile and can be used for shredding of all kinds of input materials and is well suited for different industries.

The 457mm diameter rotors ranging from 850mm to 2000mm width are driven by either one or two oversized gearboxes.

Applications

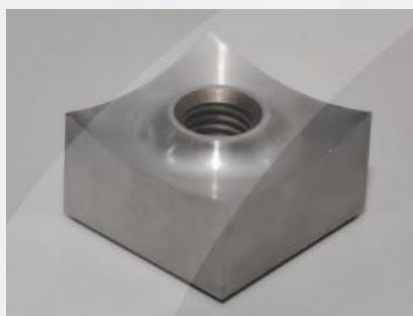
The ZSS shredders have been designed for a wide range of applications and industries such as in-house and general recycling, electronic waste and post-consumer waste handling.

Input materials can be all types and forms of plastics such as lumps, pipes, film, bales, woven bags; electronic waste like cables and ICBs, paper, wood and other organic materials.

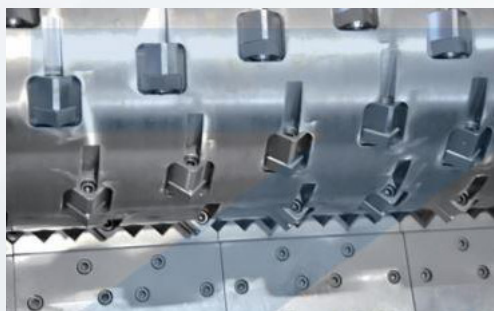
Depending on downstream requirements, the shredded material, with size defined by the fitted screen size, can be used directly or can pass to the next stage of size reduction, for example a GSH granulator.

Advantages

- ▶ Low speed, high torque geared drive
- ▶ Powerful hydraulic swing type pusher (ram)
- ▶ Proven well engineered design
- ▶ Smaller footprint compared to traditional horizontal pusher-style shredders
- ▶ Bolt-in drive shafts
- ▶ Multiple rotor designs and materials
- ▶ Two-speed hydraulic system as standard
- ▶ Intelligent programmable control



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



All ZERMA shredders are equipped with a large diameter flat rotor. The knives are fixed in special knife holders fitted in machined pockets. Optional weld on hard facing is available for abrasive applications.



The ZSS series shredders benefit from sturdy ram construction incorporating heavy duty guide bearings and universal couplings for reliable operation.



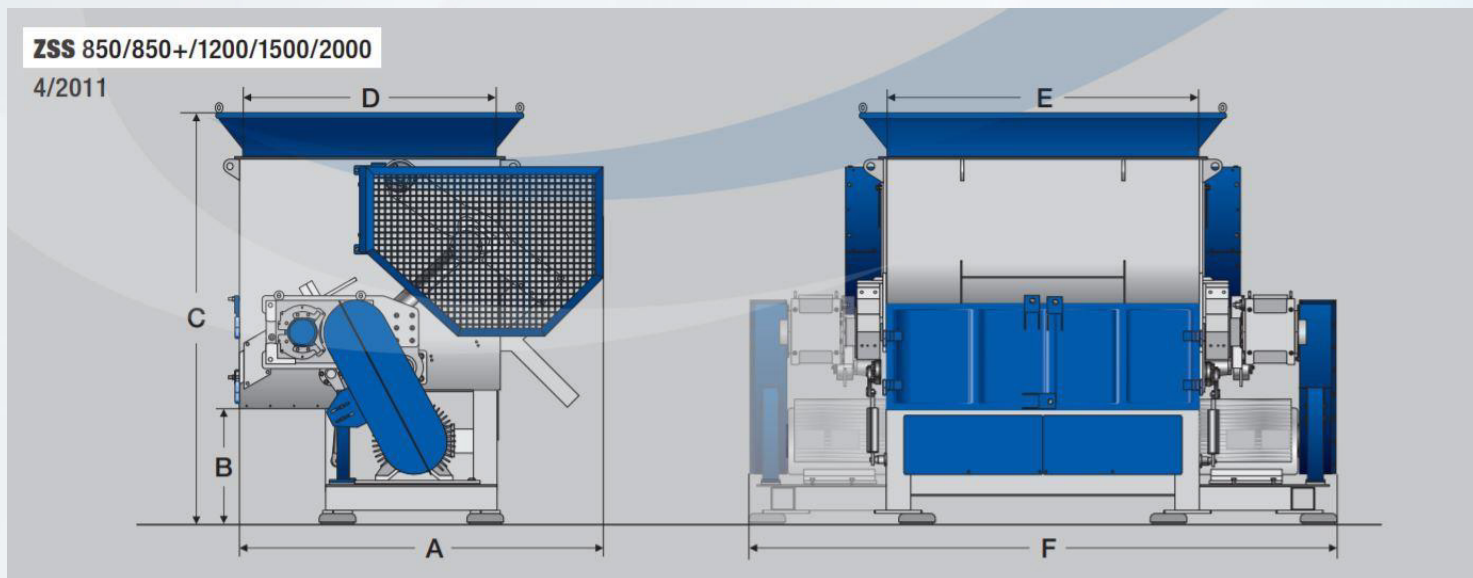
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Single Shaft Shredder ZSS

Model	850	850+	1200	1500	2000
Rotor Diameter (mm)	387	457	457	457	457
Rotor Width (mm)	850	850	1200	1500	2000
Rotor Speed (rpm)	74	74	74	74	74
Drive Capacity (kW)	37	55	55	75	2 x 55
Stator Knives (pcs)	60	60	81	102	144
Stator Blades (rows)	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Ram Feeder Drive (kW)	3.75	3.75	5.6	5.6	5.6
Screen Size (mm)	> 40	> 40	> 40	> 40	> 40
Cutting Chamber Volume (m ³)	1.16	1.37	1.82	2.27	3.16
Effective Working Area (mm)	690 x 730	800 x 730	800 x 1010	800 x 1290	800 x 1850
A (mm)	2085	2300	2300	2300	2300
B (mm)	625	725	725	725	725
C (mm)	2435	2585	2585	2585	2585
D (mm)	1385	1590	1590	1590	1590
E (mm)	840	840	1120	1400	1960
F (mm)	1940	1985	2265	2590	3710



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