

ZTS/ZTTS

Shredders for car tyres



- Single large diameter rotor (760 mm)
- Proprietary knife design and material
- Variable knife gap to improve separation of steel and rubber
- Compact Heavy Duty design
- High throughput rates
- Fast and easy tool change and maintenance



The ZERMA tyre shredders use special highly wear resistant tungsten carbide flat knives, these knives ensure a long lifetime working with abrasive and contaminated materials.



The oversized gearbox driving the rotor is supported by a very sturdy torque arm cushioning the shocks created while grinding.



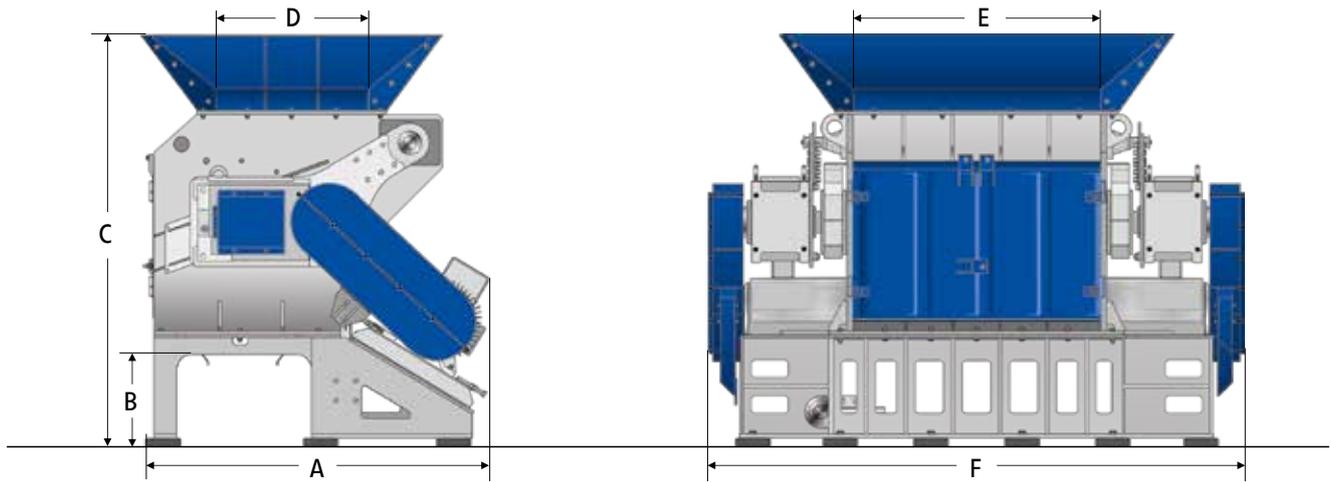
The ZTS and ZTTS shredders are equipped with a large diameter flat rotors with weld on hard facing. The knives are fixed in special knife holders fitted in machined pockets.

Applications

The ZTS with its single row of stator knives is used to pre-shred complete car tyres or large pieces of pre-reduced truck tyres down to a size of approx. 150 mm. The twin rows of stator knives and screen in the ZTTS enable it to process the tyre shreds down to any required size > 20 mm. The unique machine design combined with the variable cutting gap create an optimal separation of rubber and steel fractions when the machine is used with 20 mm screen. Therefore steel can be removed easily in the following process with magnetic separation equipment. The machines are also used in the processing of RDF and other alternative fuel applications.

General Description

The ZTS and ZTTS single shaft shredders are specially designed for the processing of complete or pre-shred tyres. Both machines feature a 750 mm diameter rotor with width options 1500 mm to 3000 mm with oversized outboard bearings and twin gear drives. The tangential infeed ensures optimal feeding of the input materials while eliminating the need for a hydraulic feeding system. All tyre shredders are equipped with a complete wear package including rotor hard facing plus special knives and wear plates made from highly wear resistant steel. The ZTS and ZTTS ranges differ in the number of stator knives and the screen sizes used. The modular design makes it easy to integrate either machine into existing installations.



Technical Specifications

Type	1500	2000	3000
Rotor diameter (mm)	760	760	760
Rotor width (mm)	1560	1960	2760
Rotor speed (rpm)	41	41	41
Drive capacity (kW)	2 x 90	2 x 110	on request
Rotor knives (pcs)	76	96	136
Stator blades (rows)	1 oder 2	1 oder 2	1 oder 2
Screen size (mm) ZTS	80 mm screen bars	80 mm screen bars	80 mm screen bars
Screen size (mm) ZTTS	> 16	> 16	> 16
Effective working area (mm)	1005 x 1620	1005 x 2020	1005 x 2820
Weight approx. (kg) ZTS	12300	15300	20500
Weight approx. (kg) ZTTS	12800	16500	21500

Dimensions

Type	1500	2000	3000
A (mm)	2300	2300	2300
B (mm)	605	605	605
C (mm)	2700	2700	2700
D (mm)	1000	1000	1000
E (mm)	1620	2020	2820
F (mm)	3800	4240	5040

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