

PALLMANN

Singleshaft Shredder TIGER



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Areas of Application

The single shaft shredder, type TIGER is used in recycling operations for the production of valuable secondary raw materials. The feed material should be in pieces in order to be metered into the machine. Whereby, it does not make any difference to the TIGER whether or not it is fed with old tire chips or electronic waste.

It does neither sneeze at used telecommunication equipment and cables nor at circuit boards, waste bins and safety floor coverings. Anywhere where roughest conditions exist and reliability is required, a TIGER is found in action. PALLMANN specialists develop solutions, so that the material can be continuously fed and transported from the shredder. When required, a sorting system for the separation of various secondary raw materials can also be delivered with the machine.



Method of Operation

The single shaft shredder, type TIGER size reduces all cuttable material to a particle size smaller than 20 mm or when necessary coarser. Material is normally fed by means of a conveyor belt or vibratory feeder across the entire width of the machine. Massive, serrated rotor tearing elements work the material between the stator serrations. The tearing elements do not require re-sharpening, due to the regular reversing action of the rotor they are self sharpening. Exact working gap settings are not required in order to achieve good results and only the stators must be adjusted at specific intervals. A well dimensioned screen is installed in the lower part of the housing, which retains the material in the cutting chamber until it is discharged through the screen holes. The material is then discharged straight down out of the machine into a mechanical conveying system. The installation of an auxiliary exhaust system is recommended.



Design

This heavy duty and compactly built machine is designed for the special requirements of modern recycling operations. Excellent accessibility to the cutting chamber by means of large front doors. Rotor and stator tearing elements are clamped by means of wedges and are self sharpening by means of the regular reversing action of the rotor. Extensive adjustments inside the machine are not necessary. The screen frame is opened hydraulically and the screen is reversible, for even usage of both sides. The massive pedestal bearings made out of solid steel are supported sideways by the housing and the safety devices are in compliance with the current machine builders directives.

Decisive advantages

- Homogeneous material preparation
- Low specific power requirement
- High throughput capacity
- Adaptable for different infeed materials
- Easy adjustment of required fineness
- Easy exchange of wear parts
- High machine availability
- Very low maintenance cost

Type	PSRT	600 x 1000	600 x 1250	1000 x 1250	1000 x 1500	1200 x 1750	1400 x 2250
Scale-up factor	F=ca.	0,4	0,6	1,0	1,25	1,75	2,5
Infeed opening	mm	450x1000	450x1250	750x1250	750x1500	900x1750	1050x2250
Rotor diameter	mm	600	600	1000	1000	1200	1400
Rotor type		R24	R30	R60	R72	R84	R135
Motor	kW	132- 60	160-250	315-355	400-500	600-700	800-1000
Throughput capacity*	t/h	1,6 - 2,8	2,4 - 4,2	4,0 - 7,0	5,0 - 8,7	7,0 - 12,2	10,0 - 17,5

*Processing truck tire chips size 150x150 mm through a screen 20x20 mm respectively through a screen 40x40 mm.



The PALLMANN Group of Companies

The Pallmann Group of companies is the leading manufacturer for size reduction machines and systems for the plastic and recycling industry.

Pallmann Maschinenfabrik develops and manufactures machines and complete systems according to customer requirements or as standard solutions for the preparation of almost any plastic as well as recycling products. In its headquarters in Zweibrücken, Pallmann operates one of the world's largest research and technology centers as well as a training- and service center. More than 130 different test machines are available for the preparation of a wide variety of materials. A downstream laboratory analysis of the test material as well as the preparation on a production scale is possible.

In addition to the manufacturing facilities in Europe, North- and South America, the Pallmann group of companies operates a worldwide spare parts- and service network.



Engineering and Service:

Design and manufacturing
Research and development
Production scale testing
Laboratory analysis
Worldwide service
Spare parts
Controlling
Process Control
Installation & Start-up
Overhaul & Repair

System solutions for:

Pulverizing
Granulating
Agglomerating
Recycling

Products:

Singleshaft Shredders
Doubleshaft Shredders
Prebreaker, Precrusher
Horizontal Impactmills
Vertical Shredders
Metal Shears
Horizontal Guillotines
Knife Mills
Industry Granulators
Hammer Mills
Roller Crushers
Cryogenic Grinding Systems
Agglomerators
Compactors
Pulverizing Systems

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