

PALLMANN

Shearing ledge Shredder PUMA



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Areas of Application

The shearing ledge shredder, type PUMA is used in recycling operations for the production of valuable secondary raw materials. The feed material should be available in pieces in order to be metered into the machine. To the PUMA it does not make any difference whether or not it is fed with rubber parts or plastic containers. It likes used plastic film waste and packaging material, just as much as scrap paper, cardboard container and carbon fiber waste. Anywhere where roughest conditions exist and where reliability is required, the PUMA 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 the most various secondary raw materials can also be delivered with the machine.



Method of Operation

The shearing ledge shredder type PUMA size reduces all cuttable material to a particle size smaller than 10 mm or coarser when required. Material is normally fed by means of a conveyor belt or vibratory feeder across the entire width of the machine. Rotating shearing elements work in combination with stationary shearing ledges to size reduce the feed material.

In the lower part of the housing, a well dimensioned screen is installed, which retains the cut material in the cutting chamber until it is discharged through the screen holes. The material is then discharged straight down and transported mechanically away from the machine. The installation of an auxiliary exhaust system is recommended in most cases.

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. The upper machine housing is hydraulically opened. Rotor- and stator knives are adjusted in fixtures outside the machine and can be re-sharpened many times.

The screen frame is opened hydraulically and the screen is reversible, for even usage of both sides. The massive flanged bearings are centered in the housing and the safety devices are in compliance with the current machine builders standards.



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	PSRS	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		VS6	VS6	VS10	VS10	VS12	VS14
Motor	kW	100-132	132-160	250-315	315-400	400-600	600-800
Throughput capacity*	t/h	0,6 - 1,6	0,7 - 2,0	1,2 - 2,6	1,5 - 3,3	2,1 - 4,5	3,0 - 6,5

* Granulating truck tire granules size 20x20mm through a screen 4x4mm respectively through a screen 8x8mm.



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.



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Vertical Shredders
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