

# PALLMANN

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Double shaft Shredder LION



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## Areas of Application

The double shaft shredder, type LION is used in recycling operations for the production of valuable secondary raw materials. The feed material should be in pieces which can be grabbed by the rotors. Whereby, it does not make any difference to the LION whether or not it is fed with waste car- or truck tires. It does neither sneeze at conveyor belts and commercial waste nor at rejects, refrigerators, metal shavings or steel barrels. Anywhere where roughest conditions exist and reliability is required, a LION is found in action.

PALLMANN specialists develop solutions, so that the material can be continuously fed and transported from the shredder. When required, a processing system for further size reduction and separation of the various secondary raw materials can also be delivered with the machine.





## Method of Operation

The double shaft shredder, type LION size reduces all cuttable material to a particle size smaller than 50 mm or when necessary coarser. Material is normally fed by means of a belt conveyor or gripper. The highly wear-resistant knives of the two cutting drums grab the material to be size reduced and cut it, along the edges of the knives, into strips and pieces.

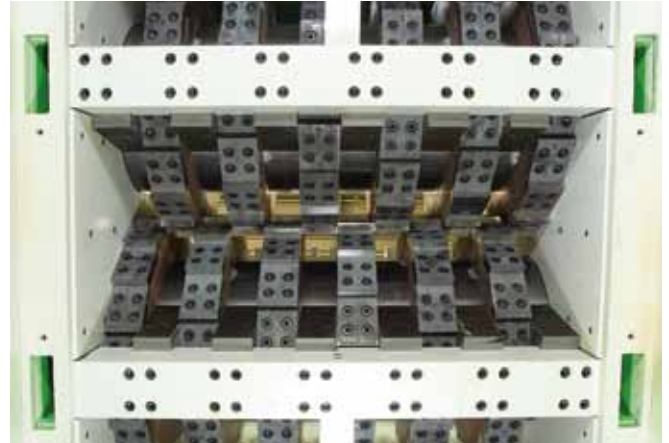
The space between the knives of the cutting drums are constantly cleaned by means of stripping combs installed in the lower part of the housing thereby ensuring efficient power consumption.

If material is fed into the machine that cannot be size reduced, the cutting drums reverse and the objects are discharged.

## 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 rotor knives are screwed on, easily exchangeable and can be re-sharpened many times.

The massive flange bearings made out of solid steel are laterally centered in the housing. 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 exchange of wear parts
- High machine availability
- Very low maintenance cost

Type	PSDT	550 x 1250	550 x 1500	750 x 1250	750 x 1900	950 x 1900	950 x 2700
Scale-up Faktor	F=ca.	0,6	0,8	1,0	1,4	1,8	2,6
Infeed opening	mm	1250x1300	1250x1550	1650x1300	1650x1950	2150x1950	2150x2750
Rotor diameter	mm	550	550	750	750	950	950
Rotor type		M15	M15	M18	M18	M24	M18
Motor	kW	110-160	132-200	160-250	200-315	315-400	355-500
Throughput capacity*	t/h	6,0 - 12,0	8,0 - 12,0	10,0 - 20,0	14,0 - 28,0	18,0 - 26,0	26,0 - 52,0

\* Shredding truck tires to a size 50 x 50mm respectively 150 x 150mm.



## 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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