

Survey of products

Machine	Type = rotor length in mm	Category	Application	Dimensions L x B x H	Weight in kg	Drive	Shredding area in mm	Throughput capacity*
JUPITER	1800	V	Non pre-treated domestic waste, commercial and industrial waste, bulky waste, waste wood, mixed building construction waste	4830 x 3260 x 4900	approx. 26000	1 x 200 kW	1800 x 1750	bis zu 15 t/h
	2200			5200 x 3260 x 4900	approx. 30000	2 x 110 kW	2135 x 1750	bis zu 30 t/h
	3200			6250 x 3260 x 4900	approx. 39000	2 x 160 kW	3190 x 1750	bis zu 50 t/h
METEOR	1800	V	Mixed plastics, paper, cardboard, files, containers, rubber, leather, textiles, floorings, cables, computer scraps, bulky waste, domestic waste, commercial and industrial waste	4830 x 3260 x 4900	approx. 26000	1 x 200 kW	1800 x 1750	bis zu 8 t/h
	2200			5200 x 3260 x 4900	approx. 30000	2 x 132 kW	2135 x 1750	bis zu 10 t/h
	3200			6250 x 3260 x 4900	approx. 39000	2 x 160 kW	3190 x 1750	bis zu 12 t/h
SATURN	2200	V	Mixed plastics, packaging material, paper, plastic films, leather, rubber, pallets, cable drums	6200 x 2900 x 3950	approx. 20000	2 x 110 kW	2135 x 1525	bis zu 7 t/h
KOMET	1100	N	Mixed plastics, paper, cardboard, files, plastics, foam plastics, containers, rubber, leather, textiles, floorings, wood	3330 x 2900 x 4480	approx. 14000	132 kW	1080 x 1315	bis zu 4 t/h
	1800			4020 x 2900 x 4480	approx. 17000	200 kW	1770 x 1315	bis zu 6 t/h
	2200			5815 x 2900 x 4480	approx. 21000	2 x 132 kW	2135 x 1315	bis zu 8 t/h
	2800	U		6500 x 2900 x 4480	approx. 28000	2 x 160 kW	2825 x 1315	bis zu 15 t/h
MICROMAT	1500	U	Mixed plastics, paper, cardboard, files, plastics, foam plastics, containers, rubber, leather, textiles, floorings, cables, computer scraps, wood	3770 x 2460 x 2450	approx. 7500	75 kW	1530 x 1500	bis zu 1,5 t/h
	2000			4590 x 2800 x 3000	approx. 11000	90 kW, 110 kW	2030 x 1650	bis zu 2,5 t/h
VEGA	1500	U	See MICROMAT	2700 x 1500 x 2610	approx. 7000	55 kW	2200 x 1500	bis zu 1 t/h
MERAK	1500	V	Car-, truck-, tractor-tires, plastic- and steel-barrels	3520 x 2680 x 3400	approx. 13000	55 kW, 75 kW	1950 x 1530	bis zu 8 t/h

* Richtwerte; abhängig von Material, Input- und Output-Größe

Status quo: October 2006 - technical changes, literal mistake and errors reserved.

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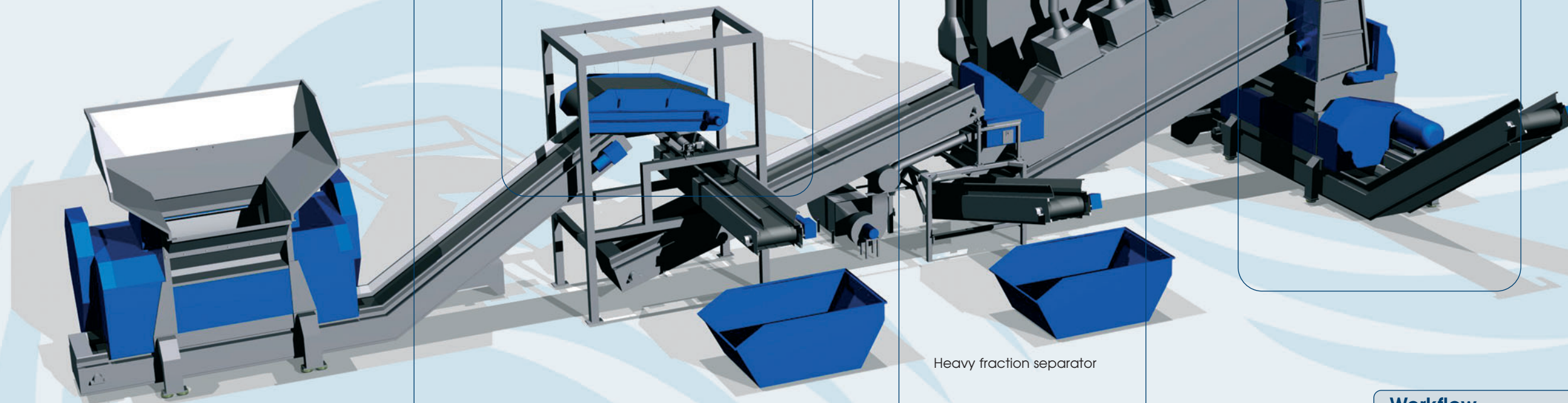
Pre-shredder JUPITER



FE-separation



Granulator KOMET



Heavy fraction separator

Requirements

Large scale energy users like the cement and steel industry and power generators often demand very stringent specifications for refuse derived fuel (RDF) manufactured from the commercial and industrial waste streams; with particle size requirements of 20 mm. For this purpose a multi-level shredding process is required.

The main criterion for the system is the effective pre-shredding of the input material to a defined granular-size which is a precondition for a problem free separation of large foreign parts. The separation of this heavy fraction using the heavy fraction separator minimises wear costs, optimises product quality, increases availability and makes for economic processing.

System Components

- Primary-shredding of the non-treated waste
- FE-separator
- Heavy fraction separator
- Secondary-shredding
- Conveyors

Application Areas

- Commercial and industrial waste, municipal solid waste
- Plastics and textiles from the automotive industry (loose and in bales)
- Packaging material made of wood, paper and plastic film (loose, in bales and rolls)
- Waste products and lumps from the plastic industry (PP, PE, ABS, etc.)

Throughput Capacity

Approximately 8 to 30 tons per hour, depending on the chosen shredder-size

Workflow

The supply of material to the Alternative Fuel Processing System can be done by drag chain conveyor, assuring continuous feeding of the **JUPITER** single-shaft pre-shredder, wheel loader, fork-lift truck or crane. The robust drive system of the pre-shredder (countershaft drive with safety clutch directly mounted on the rotor shaft) in combination with the massive monofix-knife-system optimally protects the shredder from damage caused by large foreign objects. The **JUPITER** shreds the input material to a defined granulate-size. Homogeneous output-sizes allow optimum separation of large foreign parts by means of FE-separation and the heavy fraction separator. The separated material, free of large foreign parts is transported to the downstream granulator **KOMET** by belt conveyor. Fine granulation is now achieved by choosing screen sizes of approximately 20 mm. The finished RDF material is then discharged by means of conveyors or by the modular LINDNER chain-conveyor-system LIMATIC.

Conveyors

- Straight and bent conveyors
- Individually adapted conveyors
- Know-how by long-term experience

Separation of heavy parts from the pre-shredded material by means of air injection combined with heavy parts separating device.

- A Material input
- B Light parts
- C Heavy parts

