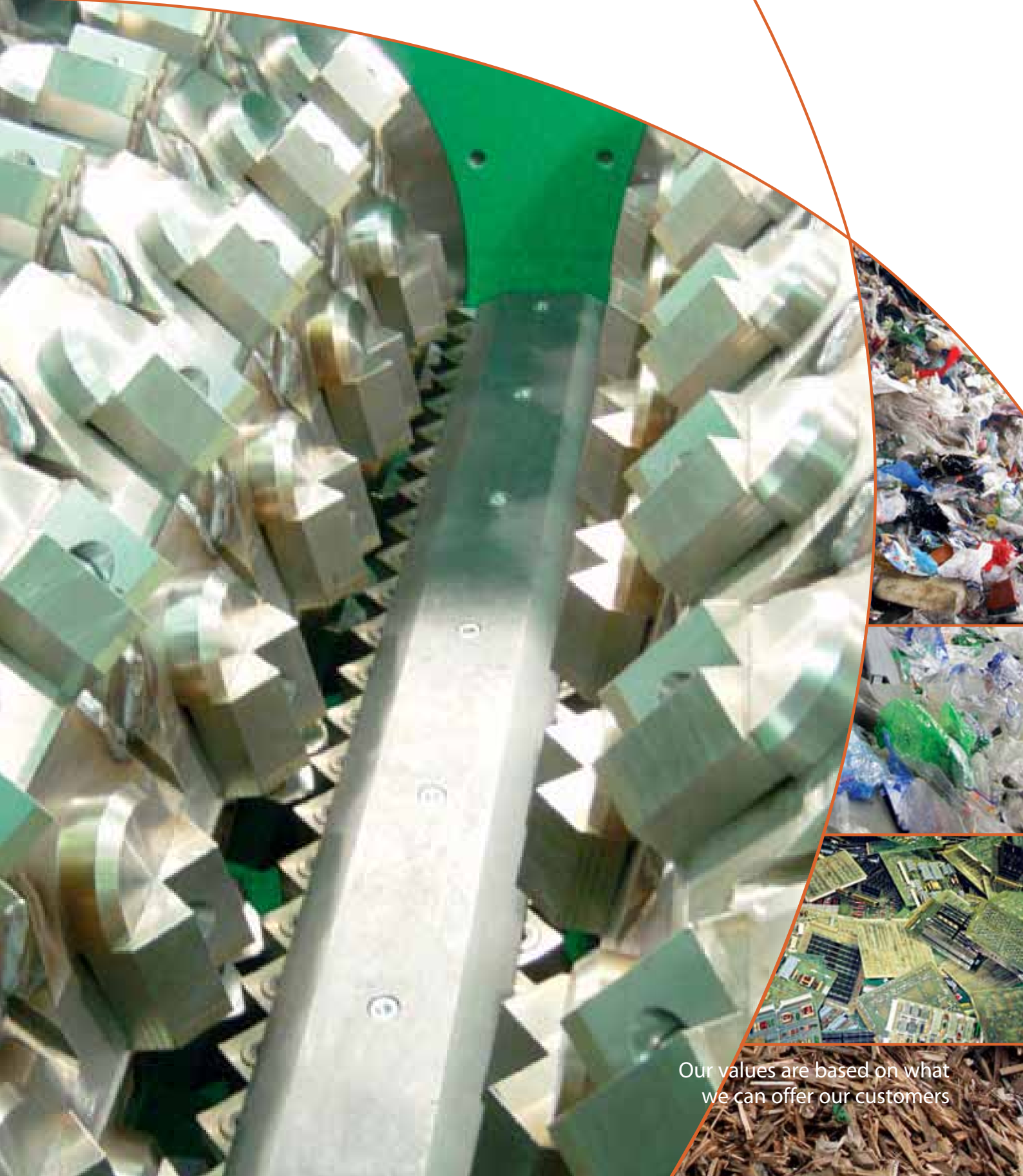


Double shaft fine shredders from Metso:  
M&J Eta<sup>®</sup> FineShred  
4500 and 6500



Our values are based on what  
we can offer our customers



## M&J Eta® FineShred offer a wide range of recycling possibilities

The M&J Eta® FineShred range consists of two-shaft shredders for continuous material input.

The M&J Eta® FineShred units can be used in a wide range of different applications including difficult materials such as sticky bitumen, fabrics and foams. Particle sizes of 8-100 mm are obtainable depending on the screen size applied.

Two counter rotating shafts fitted with knives specially selected for the individual applications ensure a high degree of flexibility of the units. The unique design of the cutting area ensures minimal friction on the shaft. In combination with the continuously adjustable rotor speed, the variable cutting frequency and the optimal selection of screen sizes a very homogeneous output with a minimum content of fine fractions can be achieved.

The hydraulic drive of the shafts guarantees an impact resistant and resonance free power transmission. All together a minimum of wear and energy consumption is secured.

### Key benefits:

- Homogeneous output
- Self-feeding
- Minimal fine particles
- Minimal dust emissions
- No heat generation
- Easy maintenance

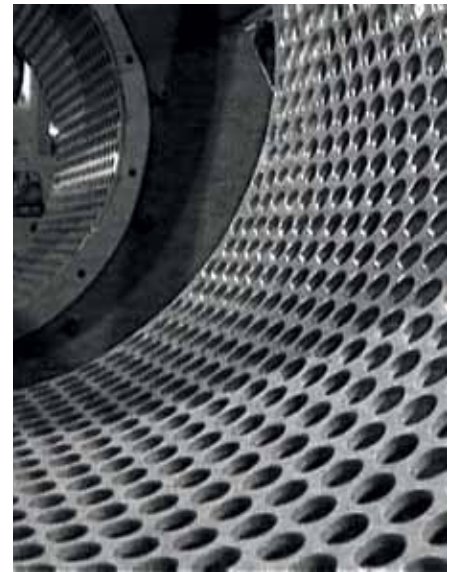
### Applications:

- RDF
- PET
- WEEE
- Wood
- Bitumen
- Nylon
- Kevlar
- Paper
- Etc.

### Performance

	Output size	RDF	PET	WEEE	Wood
<b>M&amp;J Eta® FineShred 4500</b>	10 mm	≤ 4 t/h	≤ 3 t/h	≤ 4 t/h	≤ 13 t/h
	40 mm	≤ 10 t/h	≤ 8 t/h	≤ 7 t/h	≤ 20 t/h
	60 mm	≤ 12 t/h	≤ 10 t/h	≤ 8 t/h	≤ 22 t/h
<b>M&amp;J Eta® FineShred 6500</b>	10 mm	≤ 9 t/h	≤ 5 t/h	≤ 6 t/h	≤ 20 t/h
	40 mm	≤ 15 t/h	≤ 10 t/h	≤ 10 t/h	≤ 30 t/h
	60 mm	≤ 18 t/h	≤ 14 t/h	≤ 12 t/h	≤ 33 t/h

**Input material:** < 300 mm – pre sorted – continuous feeding. Guide values only.



Patented cutting technology featuring  
**multi-edge rotor and hydraulic drive**

**Shaft**

The patented shaft can be fitted with a number of different cutting tools. Knife blocks are positioned firmly in the shaft utilizing a unique self centering, distortion- and tilting safe assembly. In the double shafted M&J Eta®FineShred the shafts are positioned in a way that secures a self feeding effect eliminating the need for additional pushing devices. Along with the geometry of the 12-edged shaft, which minimizes the risk of materials winding up, this secures no heat development in the machine.



**Screen**

Due to the precise cutting of the material the strain on the screens is minimal and the design can therefore be made in very thin materials. Typically screens can be made in 3 - 6 mm plates. As there is not pressure on the screen the open area can be optimized and secure a high output rate. Discharge of the granules can be executed either using screw conveyors or belt conveyors.

**Knives**

Knives are available in different designs depending on the demands from different applications. The positioning of the counter knives in relation to the rotating knives result in a "clean cut" minimizing dust emissions. Easy adjustment of the cutting clearance is secured by help of notches.

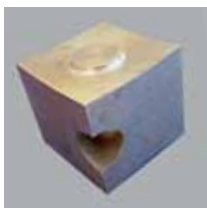
**Drive**

The hydraulic system consists of a variable pump with power control, an integrated feed pump and a hydraulic motor mounted on each shaft. All together a "state of the art" double hydrostatic system, providing the maximum output and the most reliable performance available.

**Service**

Due to the easy fastening of knives and knife holders exchange of these is a very simple operation.

With the new design feature which allows the two shafts to be moved away from each other access to the shafts and the cutting tables has been improved greatly. Altogether easy maintenance and consequently minimal down time is secured.



Large granules



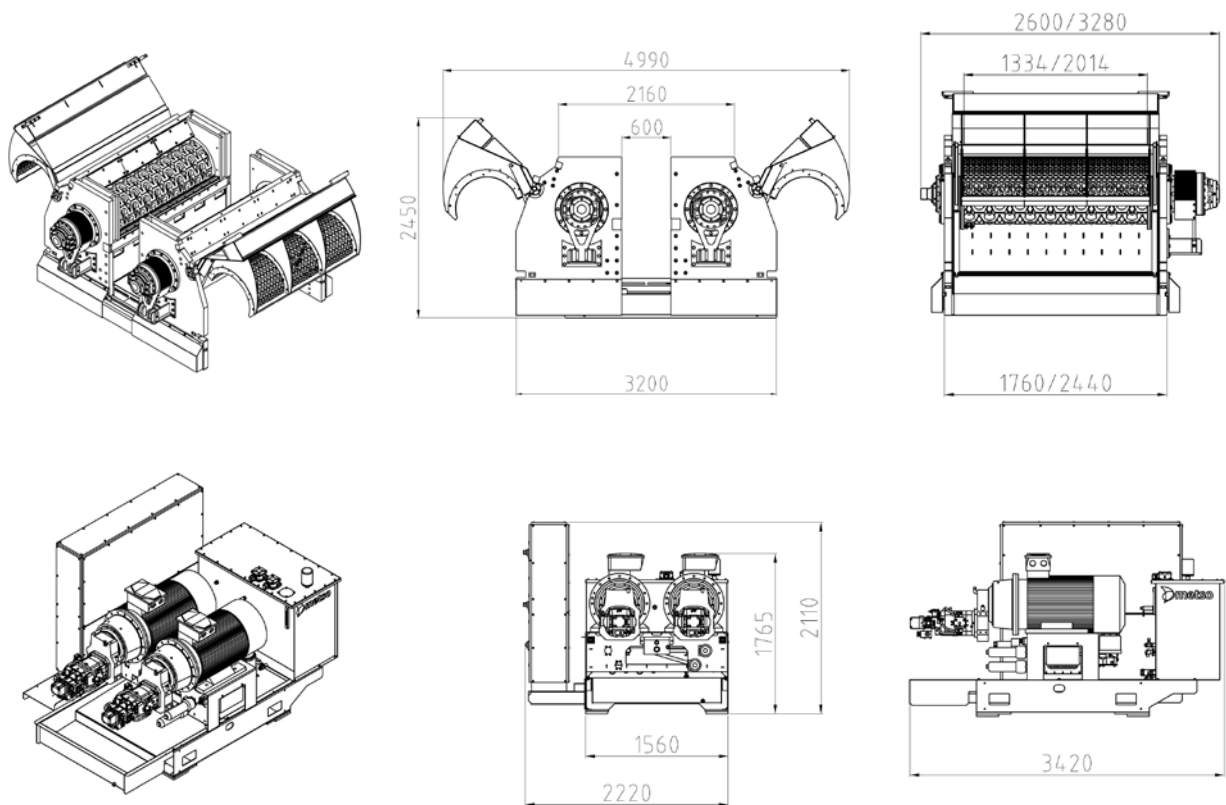
RDF



Small granules



Electronic scrap



Dimensions on the drawing:  
 The left number represents the dimension for the M&J Eta\*FineShred 4500, the right number represents the Eta\*FineShred 6500. Where only one dimension is present, the dimension is valid for both machines.

## Technical specifications

	Shaft length	Shaft diameter	Shaft edges	Rotation speed	Number of tools	Output size	Drive	Drive power
<b>M&amp;J Eta*FineShred 4500</b>	1334 mm	665 mm	12	Up to 280 rpm	2x72 pcs	Ø8-100 mm	Hydraulic	2x110 kW
<b>M&amp;J Eta*FineShred 4500</b>	1334 mm	665 mm	12	Up to 280 rpm	2x72 pcs	Ø8-100 mm	Hydraulic	2x132 kW
<b>M&amp;J Eta*FineShred 6500</b>	2014 mm	665 mm	12	Up to 280 rpm	2x108 pcs	Ø8-100 mm	Hydraulic	2x132 kW
<b>M&amp;J Eta*FineShred 6500</b>	2014 mm	665 mm	12	Up to 280 rpm	2x108 pcs	Ø8-100 mm	Hydraulic	2x160 kW

For more information, contact your local Metso representative, or contact the Metso service technicians and support organization directly.

