

Single shaft fine shredders from Metso:
M&J Eta®FineShred 1500/3500





M&J Eta®FineShred 1500 and 3500: Single shaft high-tech

fineshredders with multi-edged shaft

The M&J Eta®FineShred series consist of one-shaft shredders ideal for any recycling purpose. The Shredder handles a wide range of different materials be it in bales, rolls, bricks or in loose. The output generated is always of a homogenous quality in sizes from 8 to 100 mm.

The multi-edged shaft is fitted with a patent-ed knife system and is fed by a hydraulic pusher. The speed and the sensitivity of the pusher are interlinked with the function of the shaft. This ensures that material is not forced onto the shaft and a minimum of heat is generated. The hydraulic drive of the shaft guarantees an impact resistant and resonance free power transmission. All together a minimum of wear and energy consumption is secured.

Key benefits:

- Homogeneous output
- Horizontal pusher interlinked with shaft
- Minimal fine particles
- Minimal dust emissions
- No heat generation
- Easy maintenance

Applications:

- PET
- WEEE
- Nylon
- Kevlar
- Paper
- PEHD
- PELD
- Etc.

Performance

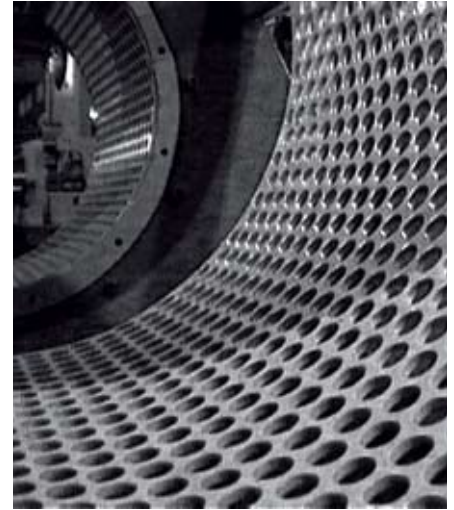
M&J Eta®FineShred 1500

Output size	PP Fibers	Nylon Fibers	HDPE foils	Aluminum
10 mm	≤ 1,2 t/h	≤ 0,9 t/h	≤ 1,5 t/h	≤ 3,0 t/h
40 mm	≤ 1,6 t/h	≤ 1,3 t/h	≤ 2,5 t/h	≤ 5,0 t/h
60 mm	≤ 1,8 t/h	≤ 1,5 t/h	≤ 2,7 t/h	≤ 6,0 t/h

M&J Eta®FineShred 3500

10 mm	≤ 1,5 t/h	≤ 1,2 t/h	≤ 2,0 t/h	≤ 4,0 t/h
40 mm	≤ 1,9 t/h	≤ 1,7 t/h	≤ 3,2 t/h	≤ 7,0 t/h
60 mm	≤ 2,1 t/h	≤ 1,9 t/h	≤ 4,0 t/h	≤ 8,0 t/h

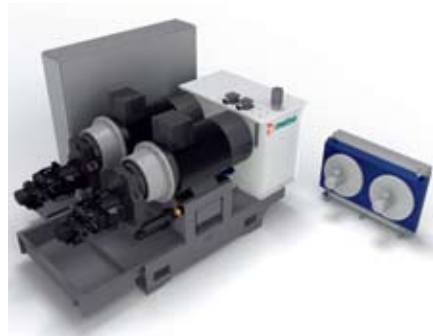
Input materiel: <300 mm – pre sorted – both feeding or continous feeding. Guide values only.



Patented cutting technology featuring
multi-edge shaft 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 single shafted Eta®FineShred 1500 and 3500 the shaft are positioned in a way that secures a correct feeding via the pusher. 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

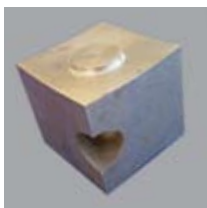
Knives are available in different designs depending on the demands from different applications. The positioning of the counter knives in relation to the rotating knives result in a "clean cut" minimizing dust emissions. Easy adjustment of the cutting clearance is secured by help of notches.

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. The new design feature which allows the shaft to be moved away from the pusher. This easy access to the shafts and the cutting table has been improved greatly. Altogether easy maintenance and consequently minimal down time is secured.



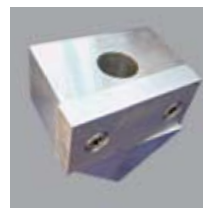
Large granules



RDF



Small granules



Electronic scrap

Metso Recycling Equipment

Our range:

Pre-Shredders
Shredders
Shredder Plants

Metal Crushers
Scrap Shears
Turnings Crushers
Briquetting Presses

Double Screw Presses
Anode Crushers
Screen Drums
Scrap Baling Presses

Waste Fine Shredders
Waste Pre Shredders

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