

# Waste FineShredders from Metso Waste Recycling M&J FineShred series





## The safe choice

Ingenious solutions with uncompromising quality. Metso's fine-shredders give you stable and problem-free operation for many years to come.



### Easy maintenance

#### **Intelligent design ensures stability**

On our single-shaft machines, there is easy access to the shaft from both sides. The two-shaft machines separate in the middle with hydraulics, allowing easy access for cleaning and servicing of knives and shafts.

The ingenious design provides the shortest possible downtime and ensures that the machine can be serviced safely and ergonomically correct. Proper maintenance is critical for stable operation, fewer breakdowns, higher capacity and, in the end, better earnings on the bottom line.





Make your business run as smoothly as possible!



### Output quality

#### **Homogeneous output quality without downtime**

Our machines produce output of under Ø 30 mm – even all the way down to Ø 10 mm. This gives you an exceptionally flexible machine that can be adapted to the market trend towards smaller grain sizes. Thanks to our unique cutting technology, you get a high and homogeneous output quality, without fine particles, that can be sold at a higher price. High quality is also ensured through minimal heat generation during shredding, which means the end product absorbs minimal moisture during storage and transport.



### Protection system

#### **Built-in protection ensures fewer and less serious damage**

Our thoroughly tested hydraulic drive delivers resonance-free power and minimal energy use. And in case of an accident, our automatic protection system provides immediate protection to minimize damage to the rest of the machine. In just 2 seconds, the machine stops if the system registers that there is foreign material in the machine, such as iron. In short, you get minimal wear in daily production and superb protection system that is always looking after your machine.



### Metso Waste Recycling

#### **A reliable partner and a safe choice**

Metso Waste Recycling has delivered the market's strongest and most dependable pre-shredders for more than 30 years. We know the industry and focus on matching our customers' needs with intelligent solutions that ensure maximum efficiency and minimum downtime. With us, you get access to a comprehensive service network with our own specialists and certified partners around the globe who are ready to help you 24-7.





## M&J FineShred 4500 and 6500

double shaft for a wide range of applications and high volumes



The M&J FineShred 4500 and 6500 double shaft are suitable for RDF production and can deliver a through put up of to 20 tons per hour depending on the output size.

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

M&J 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 10-100 mm are obtainable depending on screen size. Two counter rotating shafts fitted with knives specially selected for individual applications make the units highly flexible. The unique design of the cutting area ensures minimal friction on the shaft. The combination of continuously adjustable rotor speed, variable cutting frequency and optimal selection of screen sizes delivers a very homogeneous output with a minimum content of fine fractions.

The two shafted machine is very suitable for high volumes of material and continuous material input.

The hydraulic drive of the shafts guarantees impact resistant and resonance-free power transmission with minimum wear and energy consumption.



## M&J FineShred 1550 and 3550

Single shaft high-tech Fine-shredders with pusher



The M&J FineShred series consists of one-shaft shredders ideal for all recycling purposes. The shredder handles a wide range of different materials in bales, rolls, bricks or loose – and is highly suitable for RDF production.

The multi-edged shaft is fitted with a patented knife system and is fed by a pusher. The sensitivity of the pusher ensures that material is not forced onto the shaft and a minimum of heat is generated. The hydraulic drive of the shaft guarantees impact resistant and resonance-free power transmission.

The system ensures minimum wear and energy consumption– and produces RDF material of the highest standard.

The M&J FineShred 1550 and 3550 single shaft with pusher are very suitable for RDF production and can deliver a through put up to 17 tons per hour depending on the output size.



# Patented cutting technology

featuring multi-edge shaft and hydraulic drive



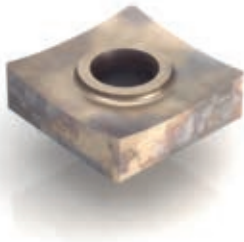
## Shaft

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 tilt-safe assembly. The shaft is positioned to ensure correct feeding via the horizontal or gravity pusher. In the two shafts version the shafts are positioned to ensure self-feeding and thus eliminate the need for additional pushing devices. The geometry of the 12-edged shaft minimizes the risk of materials getting entangled, and prevents the machine from heating up.

on each shaft. This “state of the art” double hydrostatic system provides maximum output and the most reliable performance available.

## Screen

The precise cutting of material minimizes the strain on the screens which can be made from very thin materials typically, 6 mm plates. The absence of pressure on the screen means the open area can be optimized to ensure a high output rate. Granules can be discharged using screw or belt conveyors.



## Knives

Knives are available in different designs to suit the demands from different applications. The positioning of counter knives in relation to rotating knives delivers a “clean cut” minimizing dust emissions. Cutting clearance is easily adjusted using the notches provided.

## Service

Knives and knife holders are easy to fasten and change. The new design feature which allows the two shafts to be moved away from each other has greatly improved access to the shafts and the cutting tables. The service hatch on the outside of the two one-shafted machines provides easy access to service the shaft or change the knives.

## Drive

The hydraulic system consists of a variable pump with power control, an integrated feed pump and a hydraulic motor mounted

Ease of maintenance ensures minimal down time.





## Our history and quality standard



### **We are a proud long-established company**

Set up in 1857 in Horsens, Denmark, as a foundry under the name “Møller & Jochumsen”, Metso Waste Recycling of today has a long tradition of designing and manufacturing industrial components and equipment.

### **We listen**

The basis of any good co-operation lies in an in-depth understanding of our customers’ requirements and respect for individual preferences. We believe that close co-operation with customers and suppliers, based on mutual respect and trust gives the best results – to the benefit of all concerned.

### **We encourage quality performance**

A high level of quality is a key element in all our activities, both internal and external – we want our customers to return, not our products. Our objective is to ensure our customers always have complete confidence in us. Your satisfaction is fundamental to our long-term development. Our employees, together with supportive participation from all levels of management, work hard to ensure you have a good experience when working with us.

### **Our level of quality is achieved by**

- Fulfilling the requirements of ISO 9001 and thereby continuously improving the effectiveness of the quality management system.
- Having a zero-defect strategy and focusing on error prevention. If errors do occur, we will correct them and find a way to ensure that they never occur again.
- Working as “One” in all our processes and teams to create value not only for our customers, but also for our employees.
- Relevant training for all levels of personnel. Our organization, both management and staff, are committed to the above philosophy and directives.



# To meet our customers' needs

## The Metso Way

**MAKING THE BIG DIFFERENCE**

The message that covers everything we do



### **knowledge**

We have deep knowledge about our customers' business environment, processes and challenges



### **people**

Our committed and highly competent people make the difference to our customers



### **solutions**

We create the technology and services required to meet our customer needs



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