

Metal Pre-Shredder from Metso Recycling

金屬製品&鋼材粉碎機



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One century of experience in the recycling field and the commitment to meeting the needs of our customers have paid off. The technology in Metso Recycling products is recognized worldwide as leading in superior productivity and extremely short downtimes. Metso Recycling quality ensures a good service life and higher resale values – which lowers the total cost of ownership of your machine.

Metso EtaRip® machines are used to pre-shred bales and ELVs. This pre-shredding supports an optimal shredding operation by feeding it with uniformly pre-fragmented material. The approach increases production, reduces wear, keeps electrical power consumption peaks low, and substantially reduces environmental concerns such as noise and explosion risk.

We understand your business

Since we at Metso Recycling delivered the first shredder for a plant in England in 1967, this branch of our metal recycling technology has undergone continuous innovation. Today we are the market leader, as two thirds of all shredder plants world-wide have been installed by us. Even though today's requirements are different, we nevertheless draw on the practical experience gained from around 450 plants and 550 shredders.

Today's Metso Recycling is a solutions provider and not just another company selling machines. We are continuously extending our competence as a complete supplier of solutions for shredder processes.

Our range of Pre-Shredders and our long time experience within building and servicing shredder plant.

- Allows us to provide a more complex solution to you
- Suits the Pre-Shredder to our portfolio which is driven by your demand
- Rounds up our upstream offering

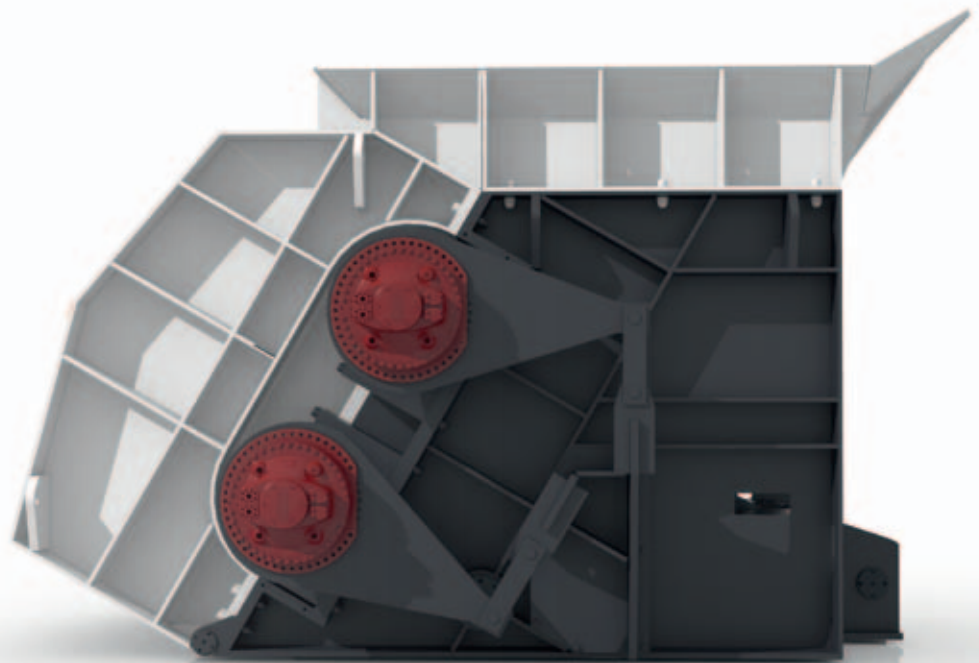
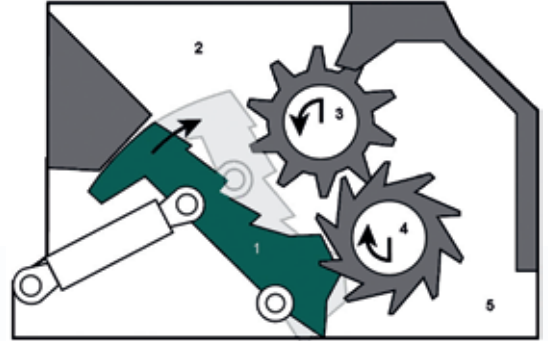
Choosing Metso Recycling as your supplier for equipment for your scrap recycling process gives you the best performance overall – and the Metso EtaRip® has some strong and reliable working principles

- Tilttable housing consists of 2 main welded parts - Top housing and Bottom housing inclusive flipper
- Dual rotor system
- Plummer block bearing
- Direct drive system (without gear box)
- Moveable flipper
- Hydraulic power unit developed by Metso

Working principle

Two rotor system with moveable flipper

1. Flipper
2. Feed chamber
3. Low speed rotor
4. High speed rotor
5. Discharge area



Why should you choose a Pre-Shredder from Metso Recycling?

Reduces risk of explosion in the shredder caused by gas bottles, petrol tanks or other hazardous elements

- The formation of sparks is avoided, thus the hazard of ignition is prevented, because the slowly turning rotors tear the materials apart instead of smashing them into pieces.



Reduced noise pollution means fewer difficulties with neighbours and supervisory authorities.

More efficiency through better preparatory work

- Protection against risky material
- No standstill is caused by nonshreddable parts
- More flexibility with the incoming material



Less idle time and a wider range of infeed material means a more profitable shredder installation.

Even use of the installation

- Optimized utilization of the shredder installation
- Increasing lifetime of wear parts
- Equal utilization of sorting units



Maximum production output and better sorting results for better quality scrap.

No peak loadings

- The main shredder can work in the most economical range of energy consumption because the Pre-Shredder evenly pre-fragments the material
- Expensive provision costs for electricity demands during peak loads, which the energy supplier arranges to be paid expensively, are avoided



Savings up to the range of six figures are possible according to the installation



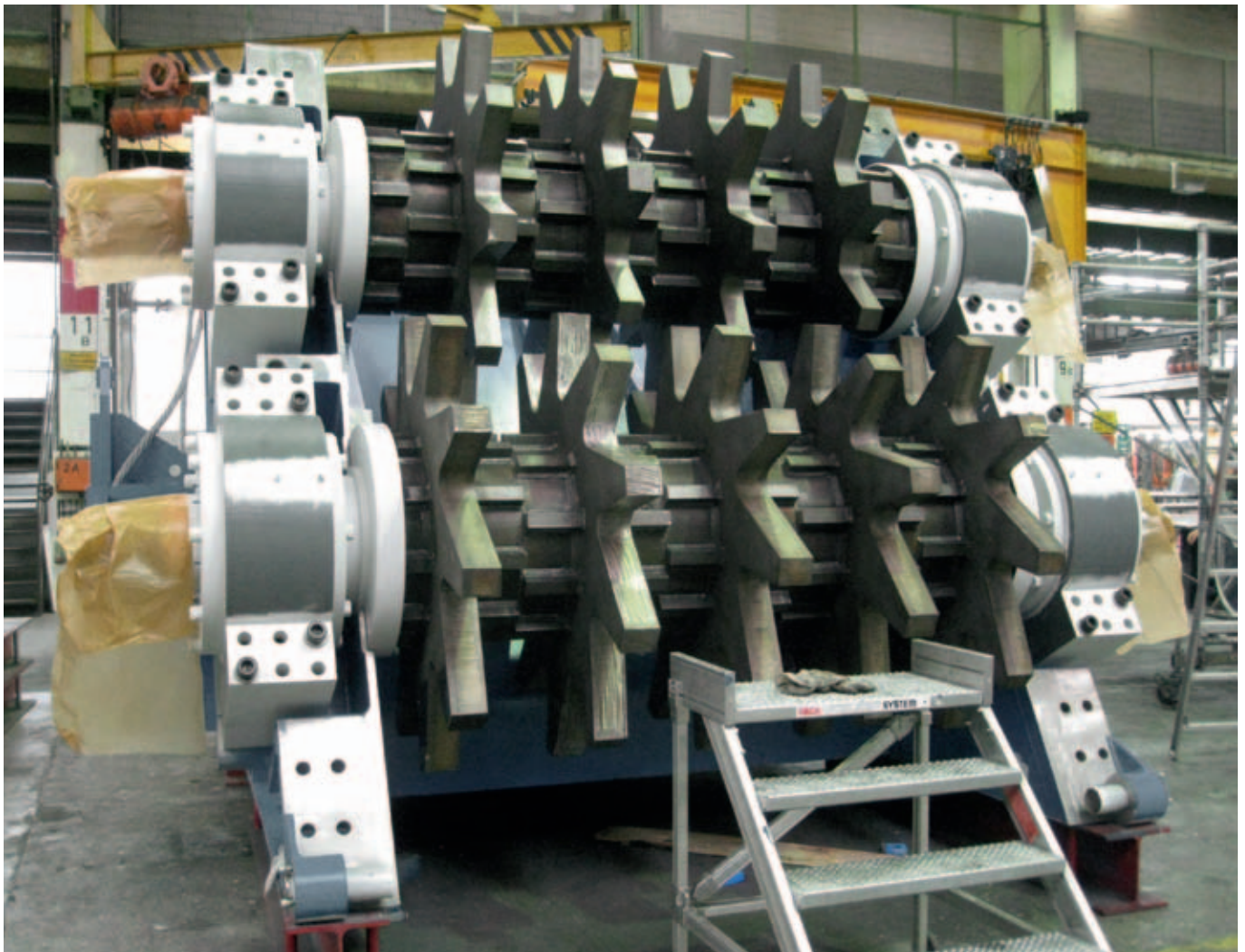
Competitive Advantages

Hydraulic equipment and drive concept

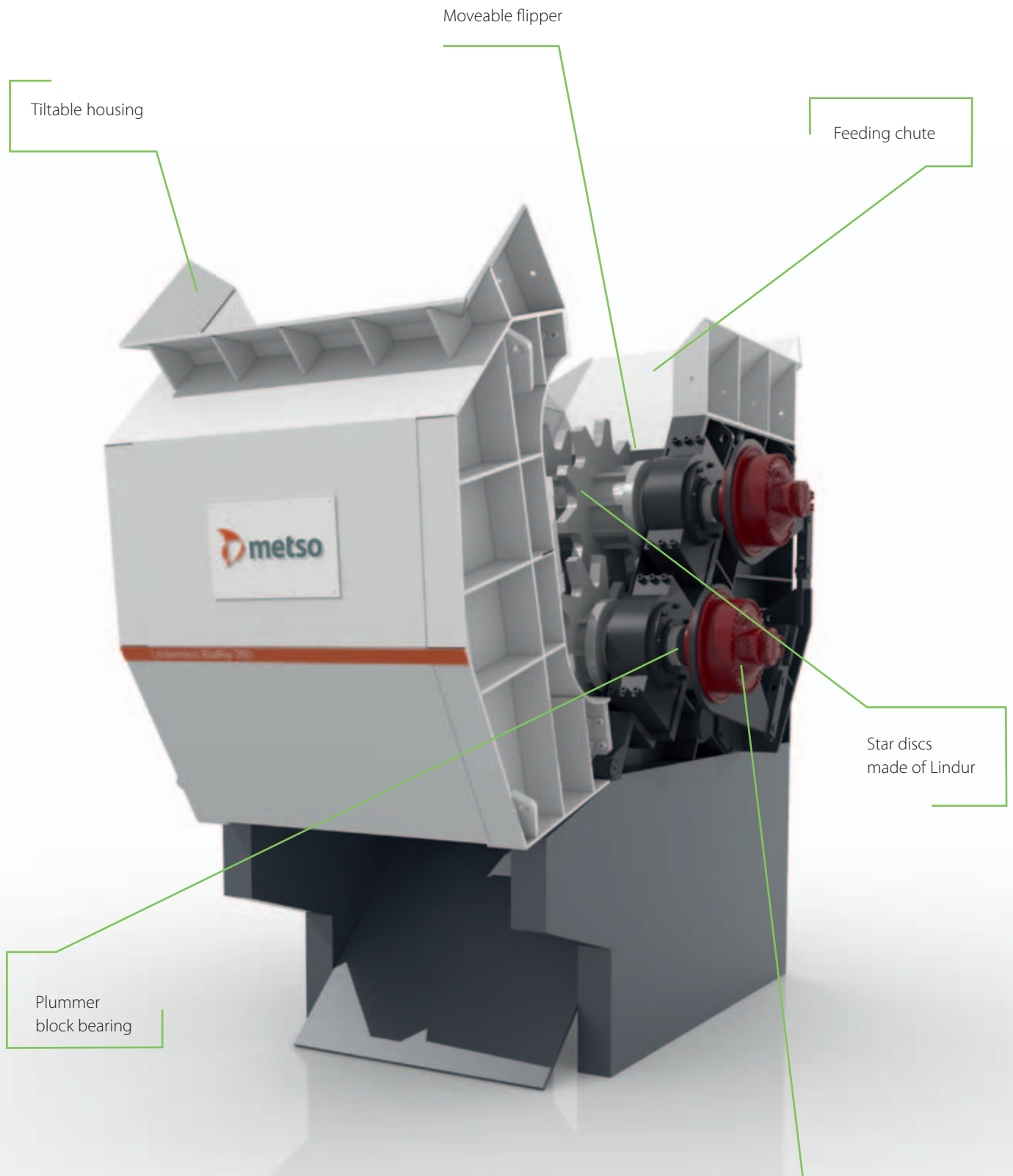
- Hydraulic unit
- Compact design, pre-assembled in workshop
- Well-defined interface for piping
- Supports translational as well as rotational movements
- High quality oil filter system (<math><3\mu\text{m}</math>)
- Specially designed tank to calm the oil
- Supports frame with integrated oil sump
- Performance-controlled pumps
- Slow rotating hydraulic motors with high torque
- Motors directly connected to the rotor shaft (splined shaft)
- No additional gear box that may cause problems due to load cycles
- Plummer block rotor bearing

Smart, powerful driving concept

- Performance-controlled pumps (reduces the speed at high torque)
- Protects the whole system
- Reduces shock loads
- Saves energy by smart installed power



Features



Foundation works does not belong to our scope of supply

Direct drive system
(without gear box)

Improvement of the rotor bearing

- Plummer block instead of flange bearing
- Better protection on fine particles
- Less tension at the bearing through twisting of the housings

Improvement of the drive system

- No additional gear box that may cause problems due to load cycles
- Less problems and longer lifetime of the drive

Human machine interface (HMI)

- Visualisation via Touchscreen-PC
- Higher operator convenience
- Reasonable handling
- Language independent
- Easy parameter setting
- Features as such
 - Error diagnosis
 - History of malfunction messages
 - History of the main machine parameters
 - Real-time trends for the main performance data
- Touch panel suitable for temperatures from -20 up to +50°C
- “iF communication design award” 2010



EtaRip® 210

EtaRip® 250

		EtaRip® 210	EtaRip® 250
General data			
Feeding width	mm	2100	2500
Driving power			
Flipper and top rotor (low speed)	kW	90	132
Bottom rotor (high speed)	kW	250	2x250
Throughput			
miscellaneous scrap; ELV	t/hour	up to 40	up to 110
bale density <0,8t/m ³	t/hour	up to 25	up to 100
bale density <1,0t/m ³	t/hour	up to 20	up to 90
Top rotor (low speed)			
Discs / teeth per disc	pieces	3/8	4/10
Diameter incl. teeth	mm	1200	1600
Hydraulic motors		One per rotor	Two per rotor
Bottom rotor (high speed)			
Discs / teeth pr disc	pieces	4/8	5/10
Diameter incl. teeth	mm	1200	1600
Hydraulic motors		One per rotor	Two per rotor

All values are approximate and subject to alteration.