

SHREDDER WEAR PARTS

Shredder Grates & Grids

Grates and grids that set shredder product size, cast in manganese and alloy steel to survive the discharge zone.



OVERVIEW

Grates and grids control the product size leaving a shredder. Material stays in the mill until it is small enough to pass. That makes them a process control component as much as a wear part: as the openings wear, product size drifts and downstream separation suffers.

Melco casts grates and grids in austenitic manganese steel and alloy steel, in the section sizes and opening patterns each machine and product spec requires. Large single-piece grates up to 2,000 kg are within our range.

Because grates are heavy and awkward to handle, we pay particular attention to dimensional accuracy, because a grate that has to be forced into position wastes hours of downtime during a change.

APPLICATIONS

- Automobile and scrap shredder discharge grates
- Hammer mill grid bars and screen sections
- Metal recycling lines needing controlled product size
- Replacement grates for Wendt, Metso and Lindemann machines

KEY FEATURES

- Opening pattern to your spec - Grid openings cast to the product size you actually need, not a single stock pattern.
- Manganese or alloy steel - Grade chosen for the balance of impact and abrasion in your discharge zone.
- Large single-piece castings - Up to 2,000 kg per piece, reducing the number of sections to handle during a change.
- Dimensional accuracy checked - Verified against drawing before dispatch so grates drop into position without on-site fitting.

MANUFACTURING SPECIFICATION

Parameter	Specification
Moulding	No-bake resin sand and green sand
Melting	Induction furnace, spectrometer-controlled
Piece weight	5 kg - 2,000 kg
Heat treatment	In-house, computer-controlled cycles
Dimensional control	Template and CMM check against drawing
Documentation	Chemical, hardness and dimensional report per heat

MATERIAL GRADES

Grade	Typical composition	Hardness	Suited to
ASTM A128 Grade A	1.05-1.35% C, 11.0-14.0% Mn	200-229 BHN as-cast, 500+ BHN work-hardened	Standard high-impact duty
ASTM A128 Grade B-3	0.9-1.05% C, 11.5-14.0% Mn	200-229 BHN as-cast, 500+ BHN work-hardened	Heavier sections, improved toughness
ASTM A128 Grade C	1.05-1.35% C, 11.5-14.0% Mn, 1.5-2.5% Cr	220-250 BHN as-cast	Where extra initial hardness is needed
Low-alloy martensitic steel	0.3-0.5% C, Cr-Ni-Mo alloyed	45-52 HRC	Mixed impact and abrasion

ENQUIRIES

Send a drawing, a sample or the machine model and we will confirm the fitment, recommend a grade and quote a firm price and delivery date.

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Web: <https://www.wearcastings.com/products/shredder-grates-grids>

Melco Castings is an independent manufacturer of replacement wear parts. Machine and OEM names are used only to identify the equipment our castings fit. We are not affiliated with, endorsed by, or a distributor for any of these manufacturers.