

SHREDDER WEAR PARTS

Shredder Anvils & Rotor Caps

Anvils that take the hammer strike and rotor caps that protect the rotor body between hammer positions.



OVERVIEW

The anvil is the fixed surface a shredder hammer drives material against, and it absorbs the same energy the hammer does. Rotor caps sit between hammer positions and protect the rotor body itself, the one component in the mill that is genuinely expensive to replace.

Melco casts both in austenitic manganese steel and, where abrasion dominates, in high chrome. The choice follows the same logic as blow bars: manganese where impact and tramp metal dominate, high chrome where the wear is abrasive and steady.

Rotor caps in particular are cheap insurance. Allowing them to wear through exposes the rotor body to direct impact, which turns a routine wear part change into a major rebuild.

APPLICATIONS

- Automobile and scrap shredder anvils
- Rotor cap protection between hammer positions
- VSI crusher anvils and impact surfaces
- Hammer mill breaker plates and impact surfaces

KEY FEATURES

- Protects the rotor body - Rotor caps absorb the wear that would otherwise reach the rotor itself, the costliest part in the mill.
- Manganese or high chrome - Grade selected for whether your failure mode is impact damage or steady abrasion.
- Cast to existing geometry - Produced from your drawing or a sample so caps seat correctly and the gap setting is preserved.
- Supplied with hammers as a package - Anvils, caps, grates and hammers from one schedule, so a full change-out arrives together.

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 A532 Cl. II Type B (15Cr-3Mo)	14-18% Cr, 2.5-3.5% Mo, 2.4-3.0% C	58-64 HRC	General high-abrasion impact crushing
ASTM A532 Cl. II Type D (20Cr-Mo)	18-23% Cr, 1.5% Mo max, 2.0-3.3% C	58-63 HRC	Abrasive limestone and secondary duty

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-anvils-rotor-caps>

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