

CRUSHER WEAR PARTS

High Chrome Blow Bars

Chromium-carbide blow bars for abrasive, low-to-medium impact crushing where wear life matters more than shock resistance.



OVERVIEW

High chrome blow bars are cast in hypereutectic white iron, where hard chromium carbides sit in a martensitic matrix. That structure resists sliding abrasion far better than steel, which is what makes it the default choice for limestone, dolomite, gravel and other clean, abrasive feeds.

Melco supplies high chrome blow bars in the ASTM A532 Class II and Class III families, typically 15Cr-3Mo, 20Cr-Mo and 25Cr. Each grade is heat treated in-house to 58-64 HRC and verified by spectrometer analysis and hardness testing before dispatch.

The trade-off is impact resistance: chromium carbide is hard but brittle. Where the feed carries tramp metal, rebar or large uncrushable material, a manganese or martensitic bar will outlast a high chrome one despite being softer.

APPLICATIONS

- Limestone and dolomite crushing in cement plants
- Aggregate and gravel production for road construction
- Secondary and tertiary impact crushing
- Clean, abrasive feed with limited tramp metal
- Sand and gravel washing plant feed preparation

KEY FEATURES

- Chromium carbide microstructure - Primary M7C3 carbides in a martensitic matrix give sustained resistance to sliding abrasion.
- Heat treated in-house - Destabilisation and tempering cycles run on our own computer-controlled furnaces, so hardness is repeatable heat to heat.
- Spectrometer-verified chemistry - Every heat is analysed before pouring and the certificate travels with the casting.

- Cast to your drawing or sample - Pattern shop works from OEM drawings, a sample bar or a 3D scan of a worn part.

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 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
ASTM A532 Cl. III Type A (25Cr)	23-30% Cr, 1.5% Mo max, 2.0-3.3% C	56-62 HRC	Highest abrasion, corrosive or wet feed

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.

Email: achandra@melcocastings.com

Phone: +91 98184 36295

Works: Plot No. F-1021, Industrial Area, Khushkhera, Bhiwadi, Alwar, Rajasthan 301019, India

Web: <https://www.wearcastings.com/products/high-chrome-blow-bars>

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.