

CASTEEL
Composite Wear

01 CERAMIC / HIGH-CHROME
02 CERAMIC / MARTENSITIC
03 HIGH CHROME
04 MANGANESE STEEL
05 MARTENSITIC
06 TIC INSERT

WEAR PARTS FOR HORIZONTAL SHAFT IMPACTORS

BLOW BARS

Six metallurgies — from workhorse martensitic to ceramic-insert composites and cast-in TiC. Grade matched to your feed, not to a hardness number.

CAST · HEAT-TREATED · MACHINED · STOCKED | EST. 2003

WHATSAPP BUSINESS
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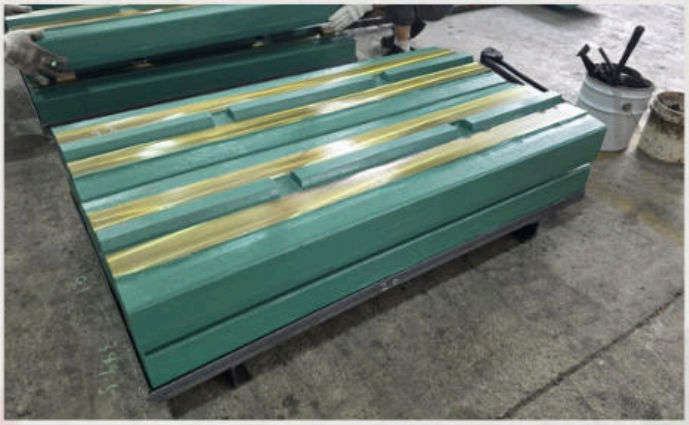
CASTEEL COMPOSITE FOUNDRY CO., LTD.
Jinhui Road Yushan, Shangrao City, Jiangxi Province, China

Two composites, then white iron.

Abrasion and impact pull against each other. These three sit on the hard end of that scale — two composite faces cast onto a ductile body, and the white iron they are built to beat.

01 CERAMIC / HIGH-CHROME

62–66 HRC · ~2.2×





Al_2O_3 insert field cast into an HC white-iron body — 62–66 HRC at the face and about 2.2× the life of Mn steel. Silica, quartz, slag, no tramp metal.

02 CERAMIC / MARTENSITIC

52–56 HRC body · 15–20 J

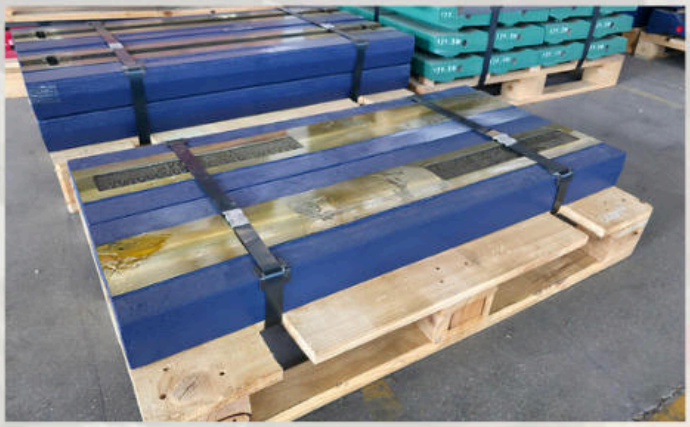




The **same insert field on a martensitic body** — 52–56 HRC, 15–20 J — so the bar bends where the HC version chips. Mixed feed and mobile plants.

03 HIGH CHROME

HC-20 / HC-26 · 60–66 HRC





M7C3 white iron, cast in controlled section then stress-relieved. HC-20 at 60–63 HRC for granite and river gravel; HC-26 at 62–66 HRC for quartzite.

62–66 HRC
FACE HARDNESS, CERAMIC GRADES

3 profiles
TOOTHED · SMOOTH · STEPPED

1.0–2.5×
LIFE RANGE ACROSS SIX GRADES

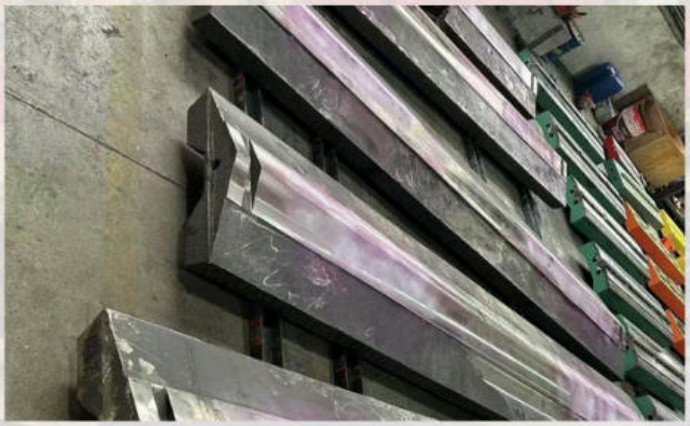
Tough bodies, and cast-in TiC.

The other three trade hardness for shock absorption — then TiC, which puts the hardness back on the face without giving up the body underneath.

04 MANGANESE STEEL

MN-13 · 500+ HB worked





13% austenitic Mn that work-hardens under the hammer. Highest toughness of the six — recycling, C&D, and any chamber that eats tramp metal.

05 MARTENSITIC

MS-45 · 45–50 HRC · 25–30 J



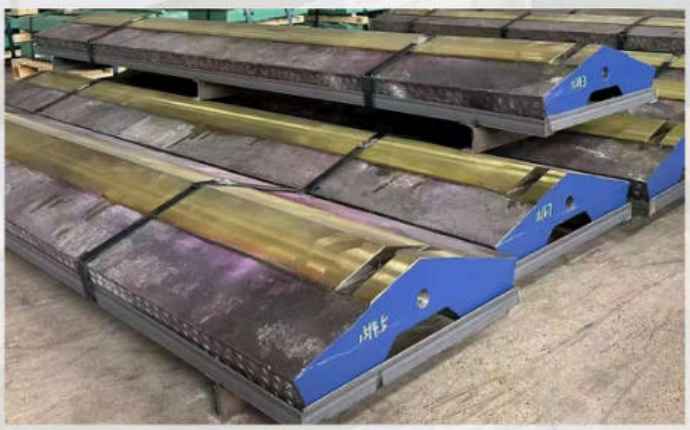


Cr-Mo steel, quenched and tempered. The mixed-feed default and the cheapest bar per tonne on soft, low-abrasion rock.

06 TiC INSERT

Cast-in rods · 2.2–2.5×





TiC rods cast into the wear face on our own line — a continuous field of rod ends rather than glued-on tiles. 2.2–2.5× martensitic life.

5–15 mm
TiC RODS SET BELOW THE FACE

2.2–2.5×
LIFE VS MARTENSITIC BARS

25–35 days
WORN SAMPLE TO FIRST CASTING

SELECTION

Tell us the rock. We pick the grade.

Abrasion picks the hardness, shock picks the toughness — when both are high, the answer is a composite. Every quotation states price per bar and cost per 10,000 t crushed.

FEED MATERIAL	RECOMMENDED	RUNNER-UP	WHY
Limestone / dolomite	MS-45	HC-20	Low abrasion — toughness wins on cost per tonne
Construction & demolition	**MS-45**	CER-MS	Tramp metal risk — work-hardening body absorbs it
Granite / basalt	**HC-20**	CER-HC	High abrasion, controlled top size
River gravel (rounded)	HC-20	HC-26	High abrasion with fines
Quartzite / silica sand	**HC-26**	CER-HC	Very high abrasion, no tramp metal
Slag / mine waste	**CER-HC / TiC**	HC-26	Abrasion plus shock — composite territory

RELATIVE SERVICE LIFE



BARS THAT DROP STRAIGHT IN

OEM-COMPATIBLE COVERAGE

MACHINE FAMILY	BAR TYPES
Metso NP · Sandvik CI	Standard · Long · Heavy duty
Hazemag APK / APSE	Tooth · Smooth · Curved face
Kleemann MR · Terex Trakpactor	Standard · Long, mobile profiles
McCloskey · RM · Striker · Gipo	Standard · Short · to sample
Any OEM, by sample	Sample → drawing → casting in 25–35 days

HOW A QUOTE IS BUILT

01 Machine & profile — model or worn-sample dimensions set the pattern.

02 Rock & duty — feed grading, abrasion index, tonnage per year.

03 Grade & price — one recommendation, one alternative, both priced.

04 Life estimate — expected tonnes and cost per tonne, in writing.

If the cheaper bar wins, we say so. A bar that lasts 2.5× as long but costs 1.8× the price is cheaper per tonne — and takes two shutdowns out of your year.

100%
BARS HARDNESS TESTED BEFORE DISPATCH

±1.5 HRC
SPREAD ACROSS ONE BAR FIVE CHECK POINTS

1,050 °C
AUSTENITISING TEMPERATURE LOGGED PER HEAT

WHAT WE NEED FROM YOU

Machine model, or the worn bar itself
Feed grading and abrasion index
Tonnage per year

WHAT COMES BACK

Wear section and hardness map
A written grade recommendation
Price per bar and cost per 10,000 t

NEXT STEP

SEND US A WORN BAR.

A photo with overall length, width, height and slot dimensions — or ship the worn bar. You get the wear section, a hardness map and a written grade recommendation, at no charge.

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