

High Manganese Steel Plate

Excellent Abrasion Resistant

Up to 500 Brinell

Excellent Ductility

Decrease cracking rate

Wide range of sizes

Available in a wide range of sizes

High Quality
Fastest Delivery
Wide Ex-Stock Range

Applications

- Screens
- Anti-drill plate
- Jaws of crushers
- Magnetic separators
- Shotblasting cabinets
- Hammers of pulverizers
- Liner of shotblasting units
- Cutting edges of large excavators
- etc..

Chemical Composition

C (x10 ²)	Si(x10 ²)	Mn(x10 ²)	P(x10 ³)	S(x10 ³)
100~125	20~40	1200~1400	0~35	0~20

Mechanical Properties

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation n (%)	Brinell Hardness Rage(HB)
415	1030	54	216

Cutting

Possible using oxy-acetylene with iron powder addition or improved using plasma or laser cutting which result in a cleaner quality of cut.

Drilling

Using supercarburized cobalt alloy high speed steel bits of HSSCO type, with reinforced shape, long twist, low cutting speed, high feed, lubrication using soluble oils.

Forming

Bending and rolling are easy : to be performed cold only (at workshop temperature). Avoid forming directly on zones previously work-hardened, (e.g. sheared edges), carry out grinding of these areas.

Milling

Using supercarburized high speed steel tools of HSSCO type (AISI grade M42) or carbide tipped tools (ISO grade K10) and high feed (as for drilling) to bite beyond work-hardened zones. Punching is possible on sufficiently powerful equipment and with tools in good condition (avoids denting shocks.).

Welding

Welding is performed with low heat-input $E < 20 \text{KJ/cm}$, interpass temperature limited to @ 100°C (212°F) with water cooling, if necessary between each es. Punching is pass. Any distortions can be hammered out.
N.B. NEVER PREHEAT



D&G

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