

# High Manganese Steel Ceramic Composite Jaw Crusher Plates

These jaw crusher plates feature a high manganese steel matrix with ceramic composite. This design provides enhanced wear resistance and extends the lifespan of the plates compared to standard high manganese steel plates.



## Product Overview

### High-Performance Composite Jaw Plates

These jaw plates utilize a high manganese steel base embedded with high-wear-resistance ceramic stiffeners to optimize both impact resistance and durability. By combining the work-hardening properties of manganese steel with advanced ceramic composites, these plates offer approximately twice the service life of standard manganese steel alternatives. They are engineered to excel in crushing environments characterized by severe erosion, extrusion, and grinding effects.

## Material Composition

### Available Steel Alloys

Mn18Cr2+Ti-Re, Mn18Cr2, Mn13, Mn13Cr2, Martensite steel

## Performance Metrics

### Lifespan Improvement

**2 times**

Longevity vs Standard Steel

## Technical Design

### Jaw Plate Types

- Fixed Jaw Plate (vertical positioning)
- Movable Jaw Plate (tilt positioning)

### Working Principle

Periodic reciprocating motion creating bending and fracturing forces within the crushing cavity.