

# ORISSA ENGINEERING WORKS

**Mining & Crushing**  
EQUIPMENT

[WWW.ORISSAENGINEERINGWORKS.COM](http://WWW.ORISSAENGINEERINGWORKS.COM)



## COMPANY CREDENTIAL

Dear Sir,

ORISSA ENGINEERING WORKS an ISO approved Established Manufacturing, Fabrication and Minerals Handling contractors situated in BARBIL catering the needs of various Govt. and private organizations to their satisfaction since last 30 year. Our total manpower 200 (Trained & untrained). Our Sister Concern is BRECHERS TECHNO INDIA PVT LTD.

We have a full fledged Manufacturing, Machining, Fabrication Steel melting Foundry unit with all necessary equipment facilities & machinery. We are a regular supplier of below mentioned organizations with list of item we supply. Our products performance has been proved up to their level of satisfaction.

### LIST OF OUR REGULAR CUSTOMERS:

**TATA STEEL:** Noamuodi, Joda, Khandband Iron Ore Mines. Tata Sponge Iron Ltd. KALINGA NAGAR STEEL PLANT, GOPALPUR

**SAIL, (RMD):** Kiriburu., Meghahatuboru, Bolani, Gua, Chiriya. Manoharpur Iron Ore Mines,

**JSPL:** Jspl Bubil & Tensa Mines, Angul.

**JSW:** Kalinganagar and Barbil

**ARCELOR MITTAL NIPPON STEEL INDIA LTD.**

**BRAHMANI RIVER PELLETS LIMITED**

**TRIVENI EARTH MOVERS PVT. Ltd Topadih, Cwali, D top, etc.**

**VOLTAS LTD KLEEMAN TEREX.**

**MONTE CARLO LTD.**

**METSO. SANDVIK.**

**EMIL :** Aditya Birla Group

**RUNGTA'S :** RUNGTA MINES LTD CHAIBASA, Barbil.

**JSW BHUSAN Ltd**

**RKD CONSTRUCTION BBSR, ARSS BBSR. LTD**

**SHRI JAGANNATH STEEL & POWER LTD.**

**Vedanta Limited, KJS AHLUWALIA, ADHUNIK METALIKS LTD.**

**NARAYANI SONS ETC.**

**USHA MARTIN LTD.**



## LIST FOR REGULAR ITEMS AND JOB WE DEAL WITH:

- Complete Crushing and Screening Plant up to 250 TPH.
- Manufacturer of various Casting for core sector like Power Mines, Pellets Plant, Cement, Railway Infrastructure, Carbon Steel, low and High alloy Steel, Mn Steel, Stainless Steel, Ni-Hard, Grate Bar, Grate Plate, Blow Bar, Pig Mould, Hammer, Jaw Plate, Concave Ring and Mantle, Liner Plate etc.
- Screen Cloth of different sizes such as Vibrating Screen, Screen Cloth Panel, Woven Wire Screen, Perforated/ Punch Plate etc.
- Spares for Plant : Sheave Assembly, Rope Pulley, Take up Screw, Chutes, Screen cloth, Side clamp, Distance tube with flange, Nut and bolts, Side Springs, Counter weight etc.
- Spares of Crusher i.e. Spares of Cone Crusher & Jaw Crusher, Eccentric Shafts, Side plates, Side liners, nuts & bolts and any Cast Steel, C.I, Manganese Castings Spares as per drawing.
- Idlers and Conveyor Drum pulley.
- Foundation Bolts any type..
- Any type of GEARS Spur, Helical etc.
- We also do machining of Manganese Casting materials.
- We have a machining facility to machine any job up to 3500 MM Diameter and Height up to 2000 mm.
- Complete Repairing of Crusher plant & Screen Plant.
- We also do repairing of Cone Head, Upper frame, Main Frame, Rotary Seal Ring Eccentric Bush for VOLTAS, METSO, SANDVICK, PUZZOLANA etc.
- We are also deal with product relating to Backing compound, floor coating Steel putty and Chemical Paint Cables coating etc.
- We are having setup for large fabrication and Machining job with loading and unloading facilities both at Barbil and Cuttack Odisha as per drawing and full fledge design team to meet customer requirement (Certificate attached)
- We also do Screening Crushing Raising Transporting job on contract basis at mines and plant with Mobile and semi mobile equipments such as Crusher Screen Excavators Loader Truck etc.

## INNOVATION OF NEW TECHNOLOGIES FOR MANUFACTURING PRODUCTS WITH ZERO DEFECT

Good products are made by combination of first class facility, material and process under good design. In recognition of above, most of our ORISSA ENGINEERING WORKS facilities were procured from famous companies, high precision and heavy duty equipments. CNC also meticulously selects first class material and applies superior manufacture process.

### 1. Lathe Machine

- 6 Feet - Mysore Kirloskar make
- 8 Feet- Mysore Kirloskar make
- 16 Feet- Mysore Kirloskar make
- 20 Feet- Atlas Company

### 2. Milling Machine

### 3. Slotting Machine

### 4. Radial Drill Machine

### 5. Vertical Boring Machine 3000MM

### 6. Vertical Boring Machine 2200MM

### 7. Vertical Boring Machine 1500MM CNC

### 8. Horizontal Boring Machine

### 9. Hydraulic Press Vertical

### 10. Hydraulic Press Horizontal

### 11. Hydraulic Press Brake

### 10. Complete Machinery set for repairing SCREEN PLANT & CRUSHER PLANT

### 11. Complete set of Wire Netting Machine



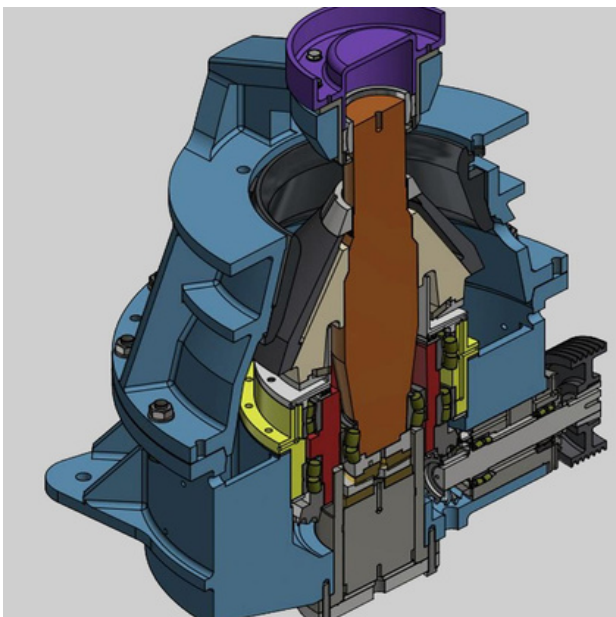


## CONE CRUSHER

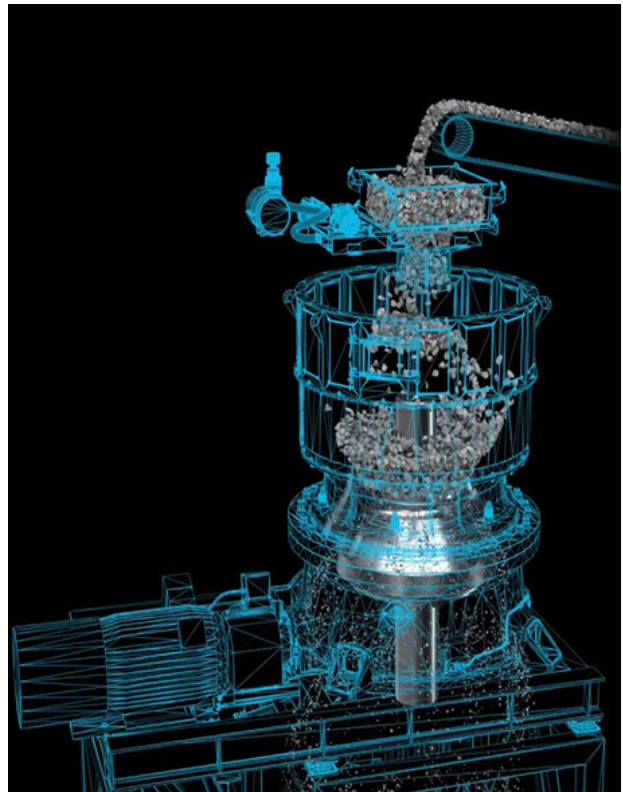
The single-cylinder hydraulic cone crusher adopts a unique oil station lubrication system and PLC control system, Which can realize the dynamic steeples adjustment of the gap or the crushing chamber, effectively reducing the downtime and ensuring the continuous and stable operation of the equipment. Our single-cylinder hydraulic cone crusher is characterized by superior performance, simple operation, easy maintenance and stable operation. It is ideal as a two-stage and three-stage crusher.

## FEATURES

- > Up to date version of crushing technology.
- > High production & low downtime.
- > Built in multiple Cavity & eccentricity at customer's choice.
- > CSS Adjustment : Available in manual/semi automatic/fully automatic at customer's choice.
- > Design basis:
- > Liners are used Gr-7 & 9.
- > Very easy to operate and maintain.
- > Throughout capacity up to 350Tph.



MODEL NO.	MOTOR POWER RATING (kw)	NORMAL FEED OPENING IN MM	THROUGHOUT CAPACITY IN TPH		
			19-32	4-41	8-48
H 4200	111	190	125-220	-	-
H 4300	150	220	140-260	-	-
H 4350	132	42-214		26-215	-
H 4400	220	47-250			58-336



## CHARACTERISTICS OF THE SERIES OF JAW CRUSHER

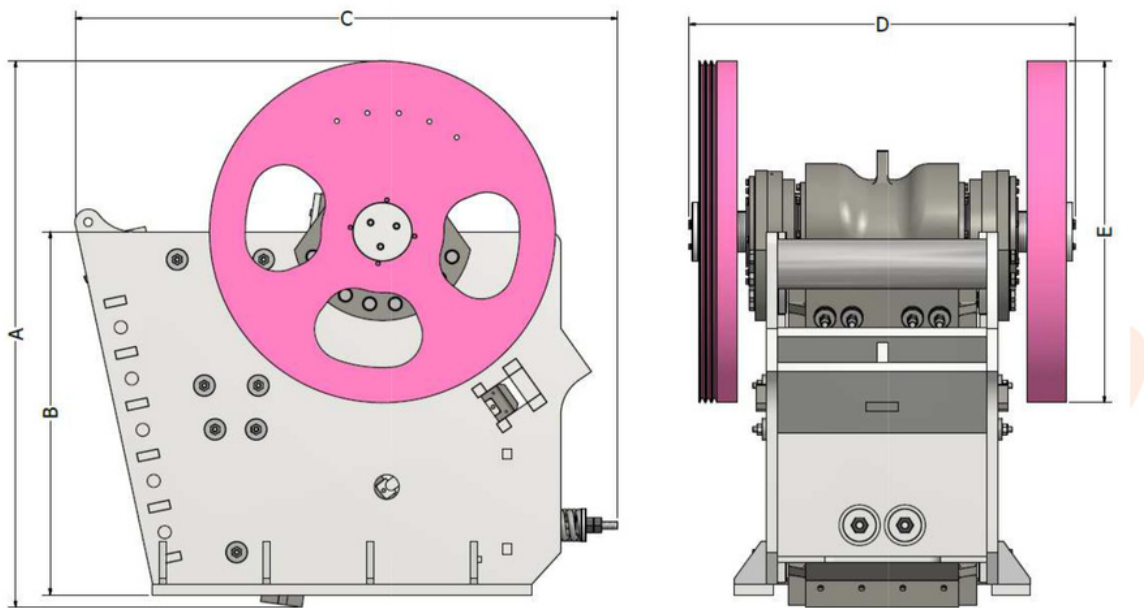
- >World-class skills in making are adopted and the use of high-tech materials.
- >Movable jaw assembly adopts a high-quality steel casting, and heavy eccentric shaft has also adopted forging billet for processing. All those JC series of jaw crushers with exceptional reliability.
- >Use of finite element analysis technology makes the crusher with high intensity.
- >Compared with the same specification of crushers ,all series of jaw crushers are equipped with greater and more durable eccentric shaft bearings. The better carrying capacity and the more effective labyrinth seal greatly extend the service life of the bearings. Typical applications for our single-toggle jaw crushers are in mining, quarrying and recycling. The jaw crushers handle ores, rock , gravel and recycle concretes.





## JAW CRUSHER

The Jaw crusher is widely used in mining, Metallurgy, construction material, highway water conservancy and chemical industries for crushing various materials with compression strength less than 350 Mpa. It is preferred equipment for the complete product line as the primary crusher.



## TECHNICAL SPECIFICATION

DIMENSION	PSJ 0604 24'' x 16''	PSJ 0706 30'' x 24''	PSJ 0907 36'' x 28''	PSJ 1008 42'' x 32''	SSJ 0702 30'' x 08''	SSJ 1002 40'' x 09''
A	1772 mm	2111 mm	2557 mm	2785 mm	1433 mm	1570 mm
B	915 mm	1380 mm	1700 mm	2090 mm	900 mm	1111 mm
C	1580 mm	2185 mm	2509 mm	2850 mm	1841 mm	2120 mm
D	1727 mm	1639 mm	1790 mm	2370 mm	1745 mm	2082 mm
E	1065 mm	1250 mm	1450 mm	1550 mm	910 mm	950 mm

CRUSHER SETTING	PSJ 0604 24'' x 16''	PSJ 0706 30'' x 24''	PSJ 0907 36'' x 28''	PSJ 1008 42'' x 32''	SSJ 0702 30'' x 08''	SSJ 1002 40'' x 09''
FEED OPENING (mm)	600 x 350	750 x 500	900 x 600	1050 x 750	750 x 200	1000 x 225
MAX. FEED SIZE (mm)	325 x 325	450 x 450	550 x 550	700 x 700	175 x 175	200 x 200
POWER	40 hp	75 hp	100 hp	150 hp	50 hp	75 hp
MOTOR RPM	1440	1440	1440	1440	1440	1440
MACHINE RPM	270	270	250	225	320	320
CSS (mm)	30-60	75-150	75-160	90-200	20-50	20-50
MAXIMUM CAPACITY	20-70	40-98	80-170	100-220	18-65	23-75
TOTAL WEIGHT (EX. MOTOR WT.)						

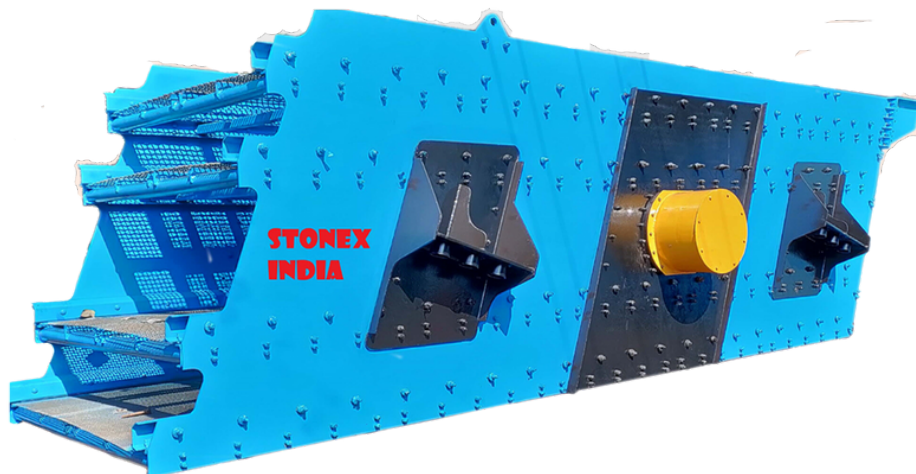
## VIBRATING SCREEN

Vibrating screen works in circular motion, is specially designed for quarry to separate crushed one material into different size, and it also used as a grading machine in coal dressing, one dressing, construction material electric and chemical industries.

### FEATURES

- > High Flowrate and Standard inclination at 18° to 20°.
- > Vibration Mechanism : Circular & Elliptical Motion.
- > FFA Tested main frame Construction and are non welded.
- > Wire mesh as IS-4454, part-I, Gr-I.
- > Capacity: Up to 300 Tph.

MODEL	MOTOR POWER RATING (kw)			SCREEN SIZE	FEED SIZE
	2 DECK	3 DECK	4 DECK		
VS 125	11	11	-	3660 x 1525	125
VS 165	15	22	22	4880 x 1525	130
VS 186	22	22	22	5490 x 1830	150
VS 206	22	30	30	6100 x 1830	150
VS 217	22	30	-	6405 x 2135	150



## MT VIBRATING SCREEN

Our MT Vibrating feeders are linear & inclined direction feeding equipments. MT series Vibrating feeder consists of vibrating frame, spring and motor. It is made of fixed eccentric shafts. Through driver of the motor, the eccentric shafts start rotating to produce a linear huge power which forces the feeder to vibrate.

### MT VIBRATING FEEDER

- > Heavy duty custom designed and built.
- > Maximum efficiency and output.
- > FFATested mainframe construction.
- > Replaceable Manganese Steel grizzly bar.
- > SAILHARD and HARDOX liner are used.
- > Easy to maintain and operate,



Model No	Width (mm)	Length (mm)	Capacity (tph)	Power (kw)
MF 309	900	3000	80-100	11
MF 3510	1000	3500	100-150	15
MF 3512	1200	3500	150-200	18.6
MF 4514	1400	4500	200-300	22.3



**IDLERS, ROLLER**



**GRATE BAR**



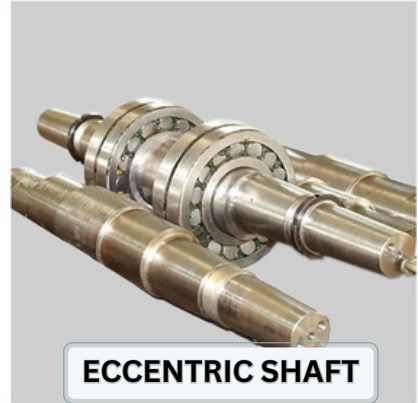
**WIRE MESH**



**JAW PLATE**



**CONCAVE RING & MANTLE**



**ECCENTRIC SHAFT**



**GEAR PINION**



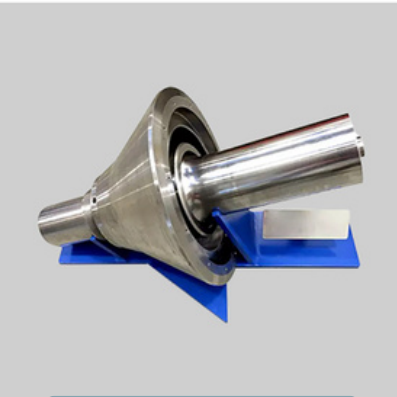
**BRONZE BUSH**



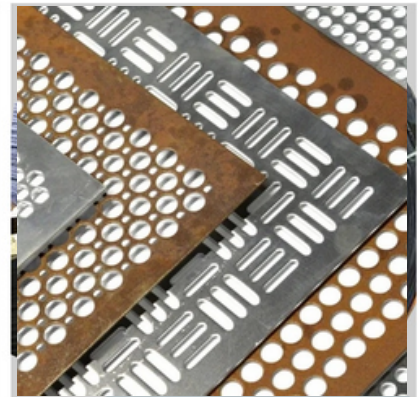
**DRUM PULLEY**



**NUT BOLT**



**MANTLE & SHAFT**



**PERFORATED/ PUNCH PLATE**



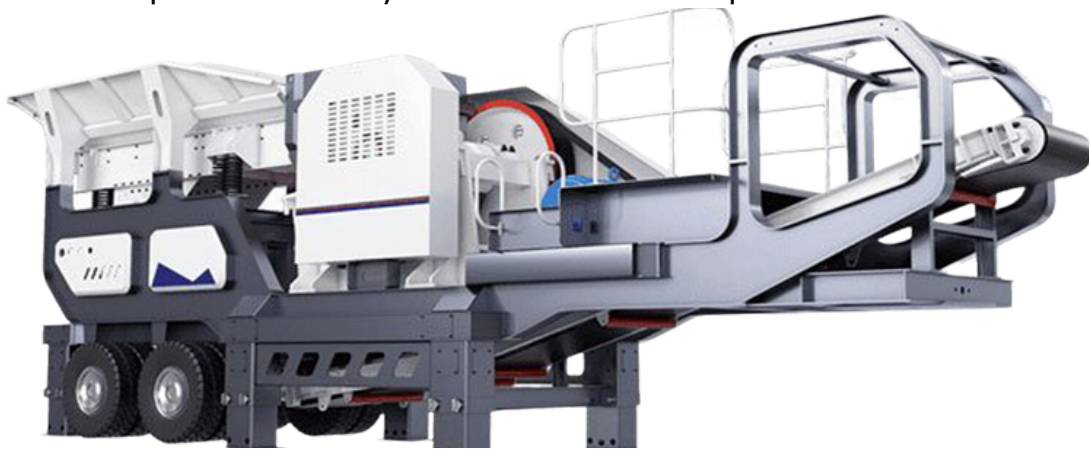
## SEMI MOBILE JAW CRUSHER CRUSHING PLANT

Semi mobile jaw crusher is designed for trouble free operation in heavy and continuous applications with latest technical and manufacturing know how.



## MOBILE JAW CRUSHER CRUSHING PLANT

Portable mobile jaw crusher is developed according to novel series stone crushing equipment's design idea, reduce the weight and volume of the plant, and makes it easy for turning and transportation, the fashionable design and standardized mass production fully meet customer's requirements.



## MOBILE SCREENING PLANT

OEW screens are versatile, they can be used for secondary and tertiary screening as well as primary screening. Screen standard slope angle is  $18^{\circ}$  how ever, this can be modified for special applications.



## STRENX AND HARDOX PRODUCT RANGE

>There is only one producer of Hardox® wear plate, SSAB. Only Hardox® wear plate meets the very high level of product properties and customer value (outstanding precision, smooth and flat surface, excellent impact resistance, predictable lifetime and uniform wear), guaranteed by SSAB.

### THE RENOWNED HARD AND TOUGH STEEL FOR AGGRESSIVE ENVIRONMENTS

From 350 HB to 700 HBW

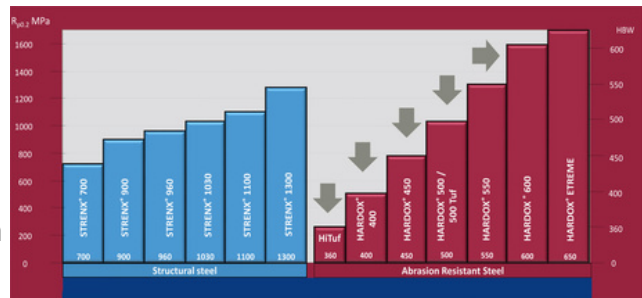
Structural capabilities, (up to 500 HBW)

From 0.7 mm to 160 mm thickness

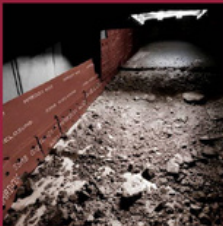


Up to 3.35m wide plate

Markets best workshop properties

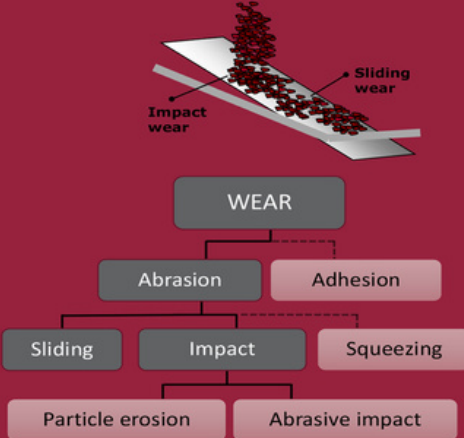
Guaranteed toughness option. Tubes, in 400 HBW and 500 HBW Bars in 400 HBW



## DIFFERENT TYPES OF WEAR

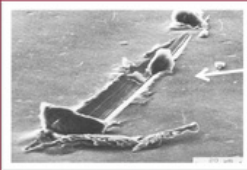




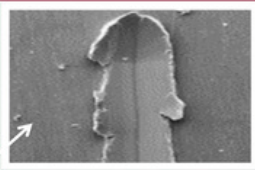
Sliding                      Impact                      Particle erosion




## WHAT IS REQUIRED IN MINING APPLICATIONS?

Wear & Dent Resistance



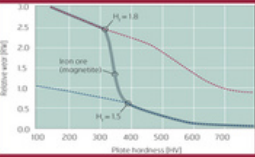




Wear Rate vs Plate Hardness

High level wear      Transition      Low level wear

AR 500      Hardox® 550-600HBW

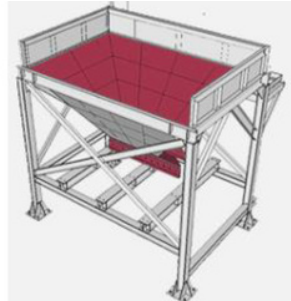


Relative Hardness vs Plate Hardness

$H_1 = 1.8$

$H_1 = 1.5$

# HARDOX 500/600 APPLICATIONS

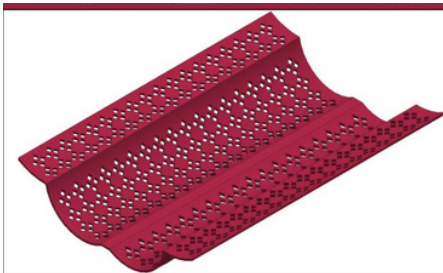


## Feeders & Hoppers:

### Lining in HARDOX 500/600



## SCREENS



Screen Plates  
Sorting screen – pre-sort, classify and size split

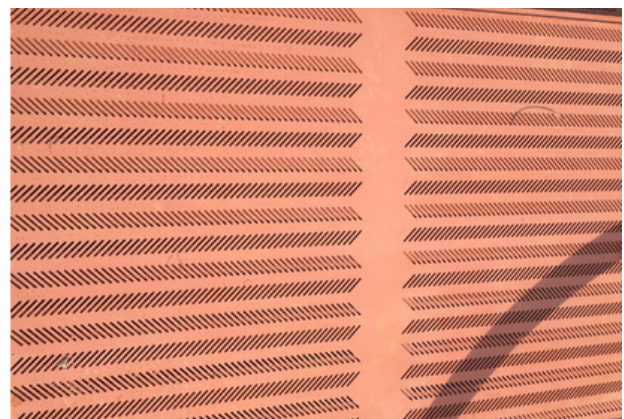


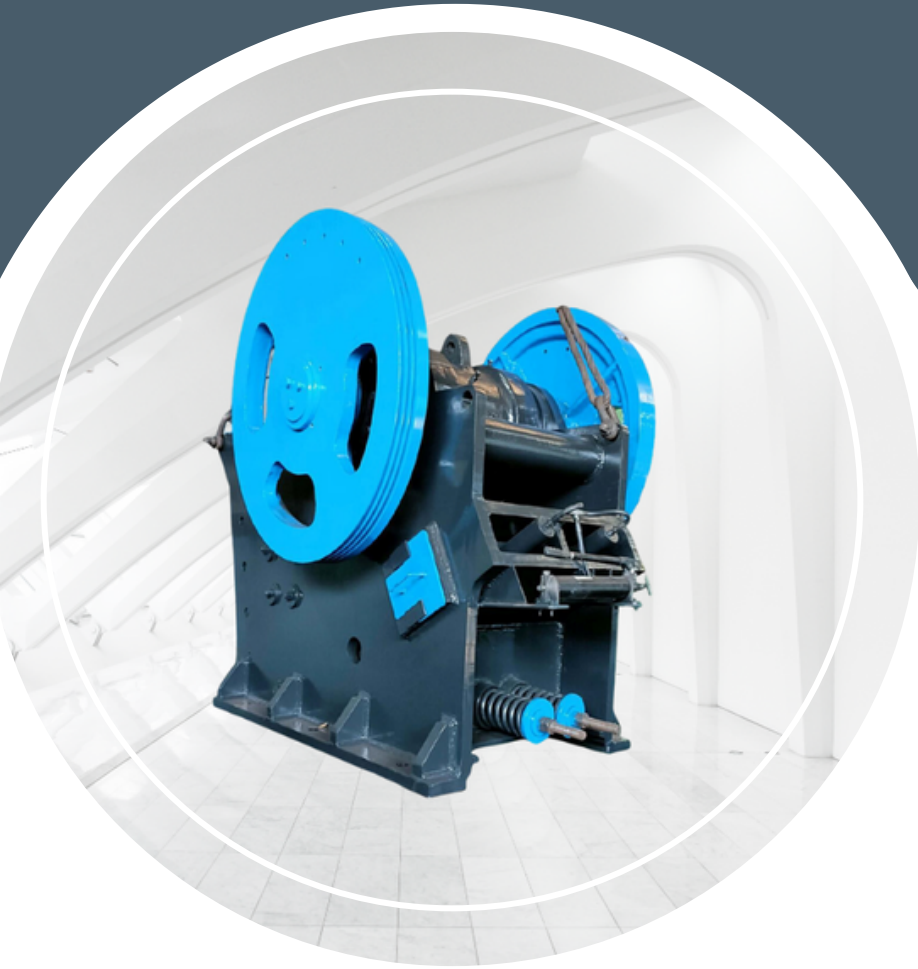
Roll form or bended

Hardox 500 ( Formed or Flatpatern)



Waterjet or Laser cut ( HAZ )





# Our Contact



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