

# MINING BUCKETS

manufacturer of all type of excavator buckets



**Radisson Impex™**

AN ISO 9001: 2015 CERTIFIED CO.

## WHY RADISSON IMPEX?

Throughout the years, Radisson Impex has become a bucket specialist offering a wide range of excavator buckets from 7 to 250 ton machines.

We offer a complete range of digging & earthmoving buckets for all kind of construction equipments to match the toughest jobs and applications. Radisson Impex specializes in customization to ensure the best fit on the OEM excavators as well as meeting the customer's requirements.

### Our Core Values:

- **Relationships** – to build solid relationships founded on trust and partnership
- **Honesty** – to be honest at all times even when it gets tough
- **Innovation** – to constantly strive to deliver innovative products and service
- **One standard of excellence** – every customer deserves the best
- **Extra mile** – to deliver exceptional customer service in everything we do

Due to outstanding structural properties of this high-yield-strength steel, it can be bent, formed and welded without degradation of its key qualities, i.e. hardness and resistance to abrasion, impacts, shocks, and contact pressure.

The abrasion-resisting Hardox® sheet is the highest global standard among abrasion-resisting steels, uniquely combining hardness and impact strength, ensuring long reliable operation regardless of conditions. This is the quality that the largest global manufacturers of excavators and other construction machinery expect.

## OUR ASSURANCE

### Savings

We can advise you on optimum bucket and attachment solutions for a wide variety of applications. The right bucket will enable you to work more efficiently saving time and money, and giving you scope to tackle a far wider range of jobs. Our prices compare well with OEM and main dealers.

### Quality

Our own quality testing laboratory enables us in keeping stringent check on product quality and performance. Thereby, we have emerged as a noteworthy company with standard manufacturing process, unmatched quality products, high-end research and hardworking team of professionals.

### Range

We design and manufacture buckets in house, for all popular sizes, makes and models of the following brands:

## EXCAVATOR BRANDS



**KOMATSU**

**HITACHI**

**LIEBHERR**

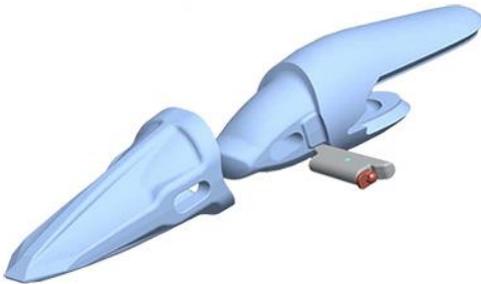


**KOBELCO**



## TYPES OF TEETH

### HENSLEY TYPE



### ESCO TYPE



## EXCAVATOR PINS AND BUSHES

- Pin manufacturing as per OEM standard
- Accurate size and dimension
- 8 mm layer of 50HRC or higher
- Gives good wear resistance
- Provides better life



### EXCAVATOR PINS DETAILS

1. BOOM CYLINDER TUBE PIN
2. BOOM MAIN PIN
3. STICK CYLINDER TUBE PIN
4. BOOM CENTER PIN
5. BOOM STICK JOINT PIN
6. STICK CYLINDER RODE PIN
7. BUCKET CYLINDER TUBE PIN
8. LINKER PIN
9. BUCKET PIN
10. CONNECTING PIN
11. BUCKET PIN



## TYPES OF BUCKETS

### BACKHOE / ROCK BUCKET

We manufacture standard or custom made Backhoe Buckets adaptable on excavators until 100 Tons of operating capacity or 7.00 m<sup>3</sup> (Cubic metre) of bucket capacity.

Backhoe buckets are extensively general purpose tools.



### LOADER BUCKET

We manufacture various types of Loader Buckets which can handle materials such as rock, sand, coal, woodchips, wood logs, scrap metals & hot slag. We manufacture these buckets upto the capacity of 10.00 m<sup>3</sup> (Cubic metre).



## SHOVEL BUCKET

We manufacture shovel buckets for excavators upto 250 tons operating capacity or 15.00 m<sup>3</sup> (Cubic metre) of bucket capacity which are used for digging, lifting and moving bulk materials.



## LHD (LOAD, HAUL & DUMP) BUCKET

LHD have powerful prime movers, advanced drive train technology, heavy planetary axles, four-wheel drive, articulated steering and ergonomic controls which is why more than 75% of world's underground metal mines use LHD for handling the muck of their excavations.

Their bucket capacity varies from 0.8 to 8.00 m<sup>3</sup> (Cubic metre).



## RECLAIMER BUCKET

A reclaimer uses a conveyor system to move any material reclaimed from the boom to its specific pile.



## SKELETON BUCKET

A skeleton bucket is primarily used to remove and separate rocks and larger debris from soil and sand.



## BLOCK HANDLING BUCKET

It is a special bucket, constructed to effectively load very large squared blocks and boulders.

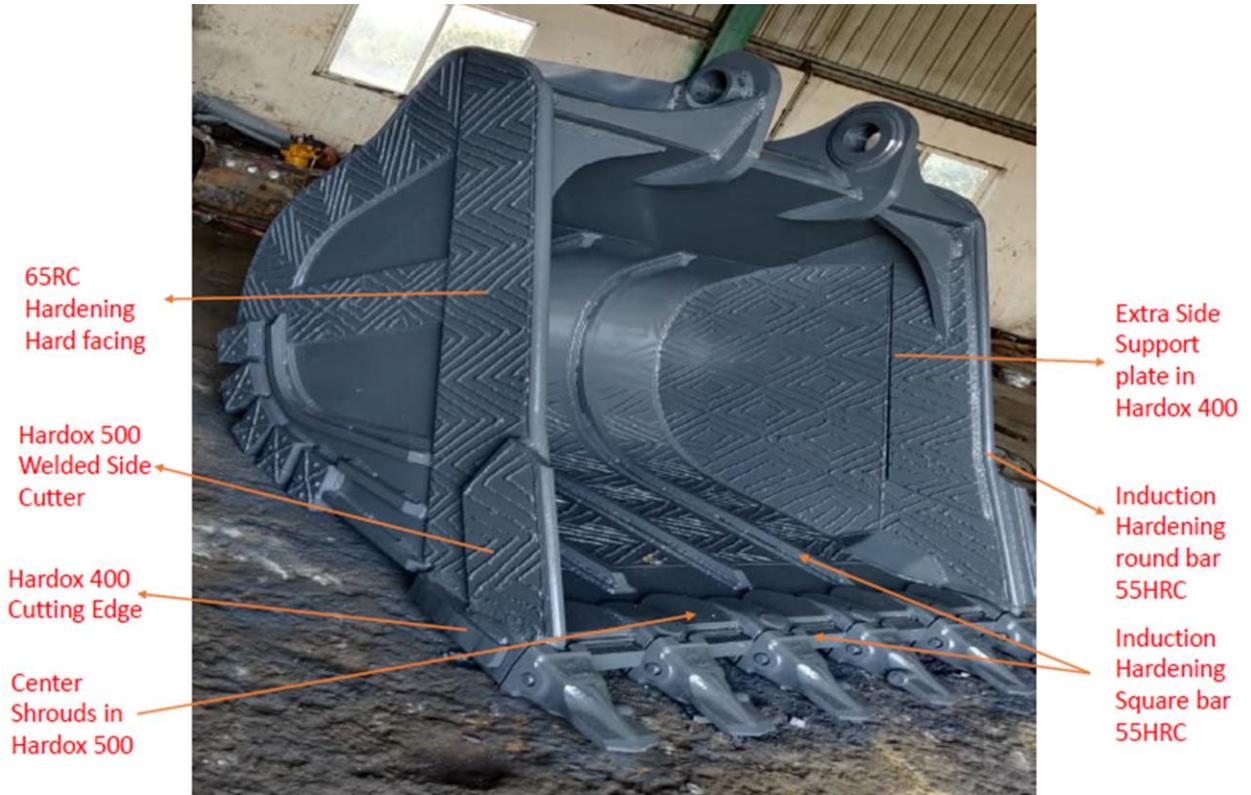


## RIPPER TOOTH

A ripper tooth has traditionally been used for breaking very hard ground and rock, prior to digging it out with a bucket.



## OUR AREA OF EXPERTISE





# HARDOX®

## WEAR PLATE

Radisson Impex is one of the leading Importer & Stockist of high quality and fabulous abrasion resistance Hardox material In Mumbai – India.

### HARDOX PLATE – Full spectrum of material range we offer

**Hardox wear plate** — The renowned hard and tough steel for aggressive environments. Abrasive applications and aggressive wear environments are simply no match for Hardox. Whatever your wear challenges, Hardox wear plate offers better wear resistance, higher payload and longer service life.

The Hardox family features the original wear plate — thinner and thicker than ever at 0.7-160 mm (0.027-6.25") — as well as tubes and round bars. By delivering superior quality, reliability and performance, Hardox keeps your equipment — and your business — up and running.

Brinell hardness, HBW, as per EN ISO 6506-1, on a processed surface 0.5 - 3 mm beneath surface. No less than one test example for every heat and 40 tons. The ostensible material thickness won't go amiss more than + 15 mm from that of the test examples. The plates are through-solidified to at least 90% of the ensured least surface hardness.

### Chemical Composition of Hardox

Gridel	Thickness range	C* (max %)	Si* (max%)	Mn* (max%)	P (max%)	S (max%)	Cr* (max%)	Ni* (max%)	Mo* (max%)	B* (max%)	Hardness (BHN)
HARDOX 400	6mm to 130mm	0.32	0.70	1.60	0.025	0.010	1.50	1.50	0.60	0.004	370 - 450
HARDOX 450	6mm to 130mm	0.26	0.70	1.60	0.025	0.010	1.40	1.50	0.60	0.005	425 - 475
HARDOX 500	6mm to 103mm	0.30	0.70	1.60	0.020	0.010	1.50	1.50	0.60	0.005	470 - 530
HARDOX 500 TUF	6mm to 25.4mm	0.30	0.70	1.30	0.020	0.010	1.50	1.50	0.60	0.005	470 - 505
HARDOX 550	6mm to 65 mm	0.37	0.50	1.30	0.020	0.010	1.40	1.40	0.60	0.004	525 - 575
HARDOX 600	6mm to 65mm	0.47	0.70	1.40	0.015	0.010	1.20	2.50	0.70	0.005	570 - 640



### Salient Features

- Thoroughly Hardened for Long Wear Life
- Superb Cold Bending & Welding Properties
- High Impact Properties
- Flat Clean, Shot Blasted and Primed Finished Products
- Grain-Refined

### Material Application

- Conveyors
- Dump Truck Bodies
- Loading Buckets & Bulldozers
- Chutes
- Crushers & many more
- Excavator Buckets
- Shredder Blade
- Fork Buckets & Lift Molds
- Dumper & Tippers
- Chutes & Hoppers



## ABREX

Radisson Impex stocks and distributes ABREX Plates manufactured by Nippon steel & Sumitomo Metal Corporation, Japan.

The use of abrasion resistance ABREX steel plate markedly reduces the weight of structural members exposed to serve abrasive conditions. Compare with regular steel, ABREX steel plate reduces structural weight and delivers economic merits.

Adoption of high performance abrasion resistant ABREX will prolong the service life of machinery and component.

Thickness : 6mm to 100mm THK

### Abrex Plate Applications :

- Dump Truck Liners
- Cutting Edges
- Drag line Bucket Wear Liners
- Screen Plates - Chute Liners
- Conveyor Buckets
- Hoppers
- Ore Scrapers



Type	Designation	Plate Thickness t (mm)	Brinell Hardness (HBW)*1		Charpy Impact Test (L Direction)*2	
			Aiming	Range	Test Temperature (*C)	Absorbed Energy (J)
Standard Type	ABREX 400	6(4.0) ~ 100	400	360~440	-	-
	ABREX 450	6(4.5) ~ 50	450	410~490	-	-
	ABREX 500	6(4.5) ~ 50	500	450~550	-	-
	ABREX 600	6 ~ 25	600	550~650	-	-
Extra Tough Type	ABREX 400LT	6 ~ 60	400	360~440	-40	≥27
	ABREX 450LT	6 ~ 25	450	410~490	-40	≥27
	ABREX 500LT	6 ~ 25	500	450~550	-40	≥21

## TECHNICAL INFORMATION

### CUTTING

High precision steel plate with low impurities and a balanced chemical composition ensure superior cutting characteristics with the help of a laser jet machine, water jet machine, plasma & oxy-fuel process.

### BENDING

Quality and surface properties of the plate allow tight bends on thin plate. Stable characteristics ensure high precision in plate thickness tolerances, allowing for high precision in bending with the help of the 3 or 4 roller bending machine.

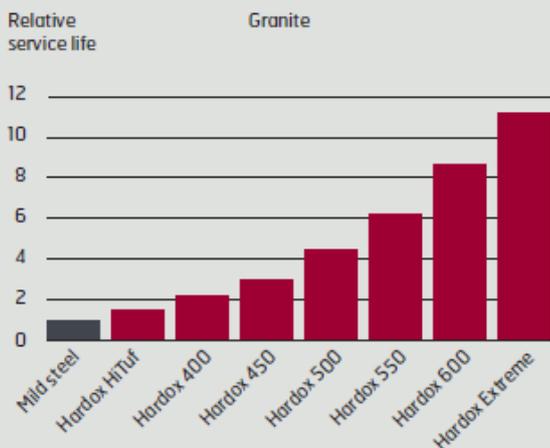
### WELDING

Hardox wear-resistant steel plate has a low carbon content ensuring low thermal inertia. Its high flatness value and strict tolerances permit automatic welding, reducing preparation time for tack welding etc. Ador Fontech 718 hard facing welding electrodes or copper coated M.S wire are the best recommendations.

### MACHINING

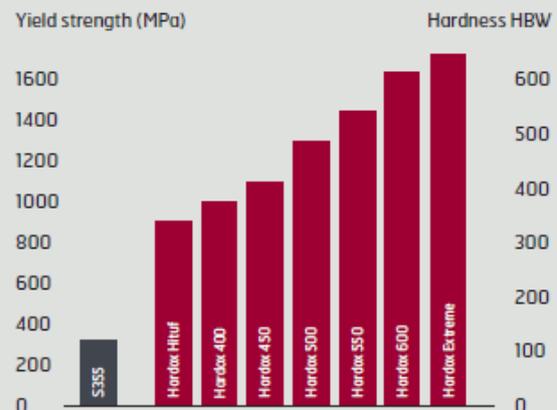
Hardox wear-resistant steel plate is easily machined. Stability and uniformity in characteristics between plates ensures the desired finish in machining.

#### WEAR RESISTANCE



Optimal material selection depends on the interaction between the plate hardness and abrasiveness of the material. The chart shows the relative service life of different steel grades when subjected to wear from granite. An upgrade from mild steel to Hardox 500 can increase service life by nearly 5 times.

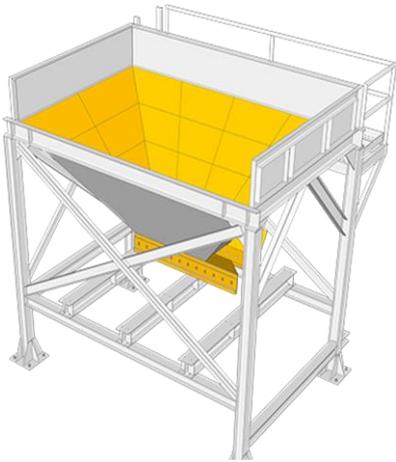
#### STRENGTH AND HARDNESS



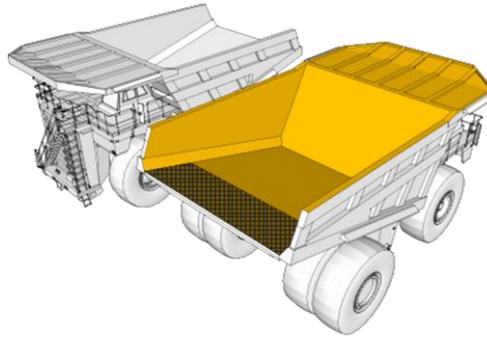
The graph presents the hardness and yield strength of different Hardox grades, ranging from 350 HB to 650 HB. The key with the high performance of Hardox is its unique combination of high hardness, strength and toughness. This allows Hardox to both resist wear and withstand heavy impact without permanent deformation or cracking.

**MAJOR APPLICATIONS OF HARDOX / ABREX PLATES**

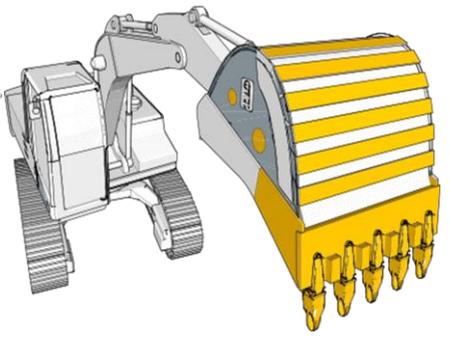
**STONE MINING / QUARRY**



CHUTES & HOPPERS

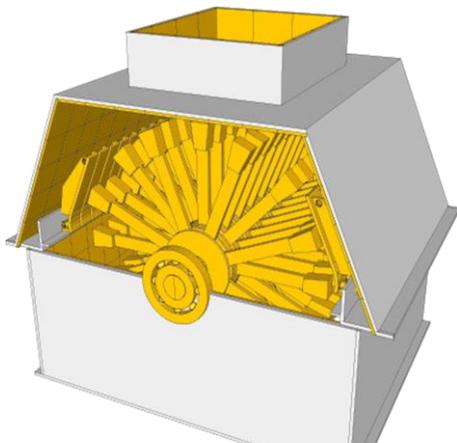


TRUCK / TIPPER BODY

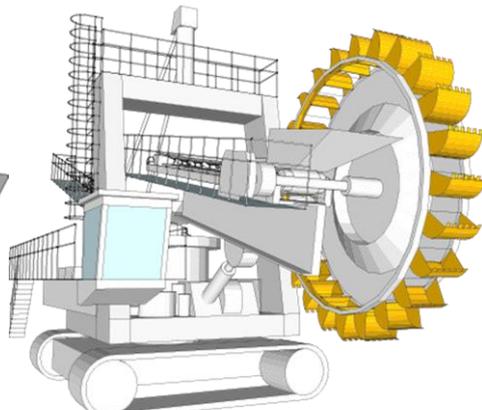


EXCAVATOR BUCKETS

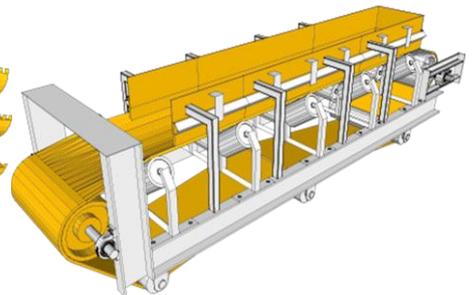
**COAL MINING**



COAL CRUSHER

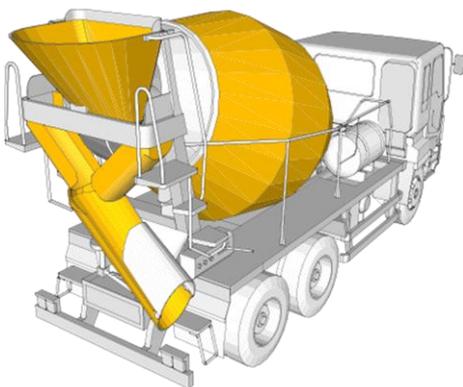


WHEEL EXCAVATOR

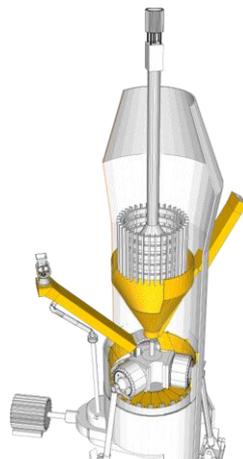


CONVEYORS

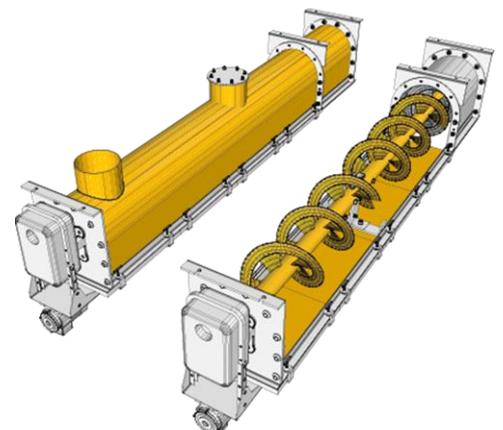
**CEMENT INDUSTRY**



TRANSIT MIXERS



CEMENT MILL GRINDING TABLE



SCREW CONVEYORS



**Radisson Impex™**

AN ISO 9001: 2015 CERTIFIED CO.

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