

JAW CRUSHERS

SCREENING SYSTEM

VIBRO FEEDERS

MOBILE PLANTS

AGARWALLA

MFG. OF AGARWALLA BRAND MINERAL PROCESSING EQUIPMENTS



BPA PROJECTS PVT LTD

BPA Mineral Processing Equipments

We have been manufacturing Jaw Crushers for the past 75 years and over this time period have gained a reputation for manufacturing quality heavy duty machineries to match the most arduous crushing conditions encountered by our team in extremely remote locations globally, with efficiency



All of this experience has been used in the design of our BPA series Jaws of single toggle mechanism, built for trouble free operations and continuous applications of heavy duty nature. Designed to suit civil foundations, skid mounts and even track designs with each component being of heavy nature giving optimum operation and long life.

- Typical applications for our single-toggle jaw crushers are in mining, quarrying and recycling.
- The jaw crushers handle ores, rock, gravel and recycled concrete.
- These rugged machines are manufactured with heavy duty parts for constant operation and long life.
- Each machine is backed by the BPA network of total after-market service and spare parts support



Single Toggle Jaw Crusher

▼ Benefits and Features

➤ **Frame of great strength**
Heavy, fully welded stress relieved

➤ **Fatigue resistance**
Large diameter forged alloy steel eccentric shaft, polished to a fine finish and with no screw threads or sharp radii that can cause stress concentrations.

➤ **Constant shaft alignment**
Self aligning spherical roller bearings.

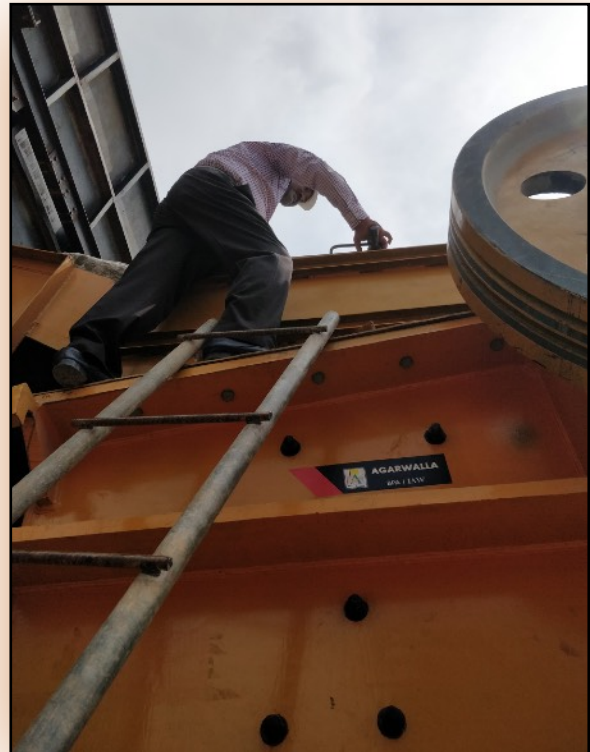
➤ **Even distribution of crushing forces**
Machined jaw-face locations.

➤ **Protection of swing jaw holder and main-frame jaw locations.**
Replaceable jaw backing plates.

➤ **Bearings kept free from dust and water**
Grease-purged labyrinth dust seals.

➤ **Smooth running operation**
Balanced flywheel and drive pulley

➤ **Simple installation**
Adaptable Mounting arrangement suitable for static or mobile installations



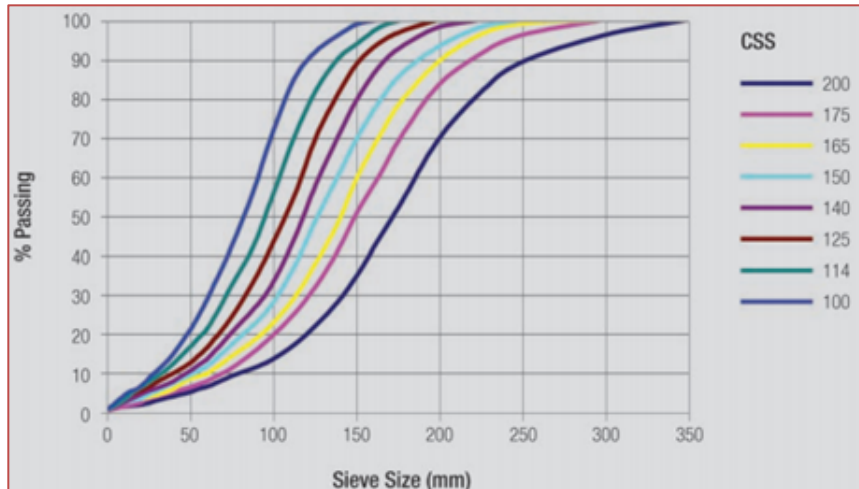
48"x40" ST Jaw Crusher

➤ **Pitman (jaw holder) designed to handle severe crushing conditions.**
Mild steel and precision machined.

➤ **Designed for easy maintenance.**
Mild steel pitman can be removed from the frame as an assembly.

➤ **Extended life of toggle and toggle seats.**
The rocking-end toggle requires no lubrication. Friction is kept to a minimum and no lubrication is required.

Product Gradations



Footnote: These product curves are to be used as a guide only. Crusher product is dependant on feed material properties. Please consult AGARWALLA for advice on products for specific feed materials.

Machine Selection Product Grading

The typical curves illustrated only give a very broad indication of the likely product. Factors that markedly affect results are:

- Structure of material
- Grading of crusher feed
- Degree of pre-scalping
- Choke versus regulated feed

We are pleased to examine specific applications, crush material samples and advise on the likely results from our machines without obligation.

Machine Capacity

The accompanying tables give typical outputs for our range of machines. These need careful interpretation for particular materials and applications.

Options Available on request:

- Automatic lubrication system for bearings and seals
- Bearing temperature sensors
- Guards for flywheels and drive

Machine Rigidity

Wide differences occur in bearing diameters, shaft stiffness, frame rigidity and overall robustness in different makes of machines. In some countries the majority of natural materials are soft and machines of very light design are acceptable.



20"x10" ST Jaw

Jaw Specifications and Dimensions

Machine	Feed Opening	Max. Feed Size (mm)	Discharge Setting (mm)	Product Range (Tons)	Shaft Speed (rpm)	Required H.P.	Weight (Tons)
16.10	400x250	200	20 - 50	8-25	350	25	3
20.10	500x250	200	20 -50	10 -30	350	30	4
24.12	600x300	250	20 - 40	20-35	350	40	6
24.15	600X375	325	50-75	30-55	300	40	6.5
30.15	750x380	300	40-75	45-70	300	60	7.5
30.20	750x500	450	50-100	50-100	280	60-75	11.5
36.08	900x200	160	20-50	20-40	320	40-50	9.5
36.28	900x700	650	80-150	100-180	240	100-125	18
42.10	1050x250	225	20-65	30-70	320	125-150	10
42.32	1050x800	750	100-180	140-300	240	125-150	24
48.10	1200x250	200	20-65	35-80	320	60-75	12
48x40	1200x1000	800	125-175	200-400	220	150-220	35

The table sets out sizes in which the Agarwalla BPA Single Toggle Jaw Crusher are built, general data regarding capacities, weights etc.

Certified installation drawings are supplied as part of the contract for each crusher.

Data Checklist for Jaw Crusher Selection

- Type of material to be crushed
- Bulk density of feed material
- Maximum lump size
- Characteristics of the material - hard, soft, slab like, moist or wet, sticky, contains clay or materials.
- Capacity in tonnes per hour
- Method of feeding to be adopted.

Complete information furnished in accordance with the above will enable us to study the installation contemplated and make recommendations.

Inclined Vibrating Screen



20'x7' 3 Deck Screen



20'x6' - 4 Deck Screen

BPA Vibrating screen is a two bearing inclined heavy duty screen designed for scalping, sizing and finished screening of virtually any aggregate. The efficiency of the screen is critical to maximise production of the plant directly proportionate to profitability. Sizes range from one to four deck units.

Single piece body, continuously welded decks are either huck fastened to extra deep corner supports or welded to the main frame along with heat treatment for stress relief. Rugged steel side plates are given for box type structural strength that is highly resistant to racking. Corner supports are full height for extra rigidity in the side plate.

Screen Size		Approx Cubic Content in (m)			Motor H.P.
feet	mm	1 Deck	2 Deck	3 Deck	1440 rpm
12x5	3660x1525	11.4	14.5	18.65	12.5-25
16x5	4572x1525	13.6	17.4	20.4	15-30
18x5	5485x1525	16.5	21.4	26.5	20-35
20x7	6096x2133	24.5	32.31	38.1	20-40



18'x5' - 4 Deck Screen

Optional fixtures include polyurethane sheets, special dusting hood, chutes and maintenance walkways with dust suppressors

Feeders and Conveyor systems

AGARWALLA GRIZZLY FEEDERS

have been the centre of many crushing operations for over 75 years. In both large stationary plants or mobile crushing plants, we have the feeder for your application. The AGARWALLA advanced feeders utilise high strength steels and high stroke vibrators to produce a high production to weight ratio for portable operations. Heavy duty feeders are designed for stationary plants with their massive frames and high output vibrator mechanisms.



Model No.	Width (mm)	Length(mm)	Capacity (TPH)	Power (HP)
AGF8'x4'	1200	2400	100	10-20
AGF10'x4'	1200	3000	150	15-25
AGF12'x4'	1200	3600	150-250	25-30
AGF15'x5'	1500	4500	240-400	25-30



AGARWALLA CONVEYOR SYSTEMS

The complete turnkey set of Conveyor Systems transport the crushed material to the dumping site. It can be designed stationary, relocatable, shiftable for bench and dumping operations.

It comes with optional fixtures of walkways, dust suppression systems

Standard widths are **500mm, 600mm, 800mm and 1000mm** with flange type motors assembly and premium gearboxes of reputed make to drive the system at high efficiency

Turnkey Solutions for Aggregates



Range from 30-300 TPH

Complete Primary Crushing, Secondary Screening + Cone/Jaw , tertiary VSI crushing for greater production and available on a skid structure as illustrated

Complete range of conveyors, electrical systems, control panels, maintenance kits is supplied along with the system on a turnkey basis.

A dedicated team is deployed for civil markings and foundations while the manufacturing is in pipeline simultaneously and another team of contractors to execute erection and commissioning of the plant

All outsourced machineries and parts are taken from trusted and reputed OEMs directly ensuring highest quality and standards in the entire system.



- **Reliable & Efficient Performance**

The crushing plant includes two or three different crushing machines, designed with specific features and similar working principle. It is known for its high-efficiency, multi-functionality and high-quality final product.

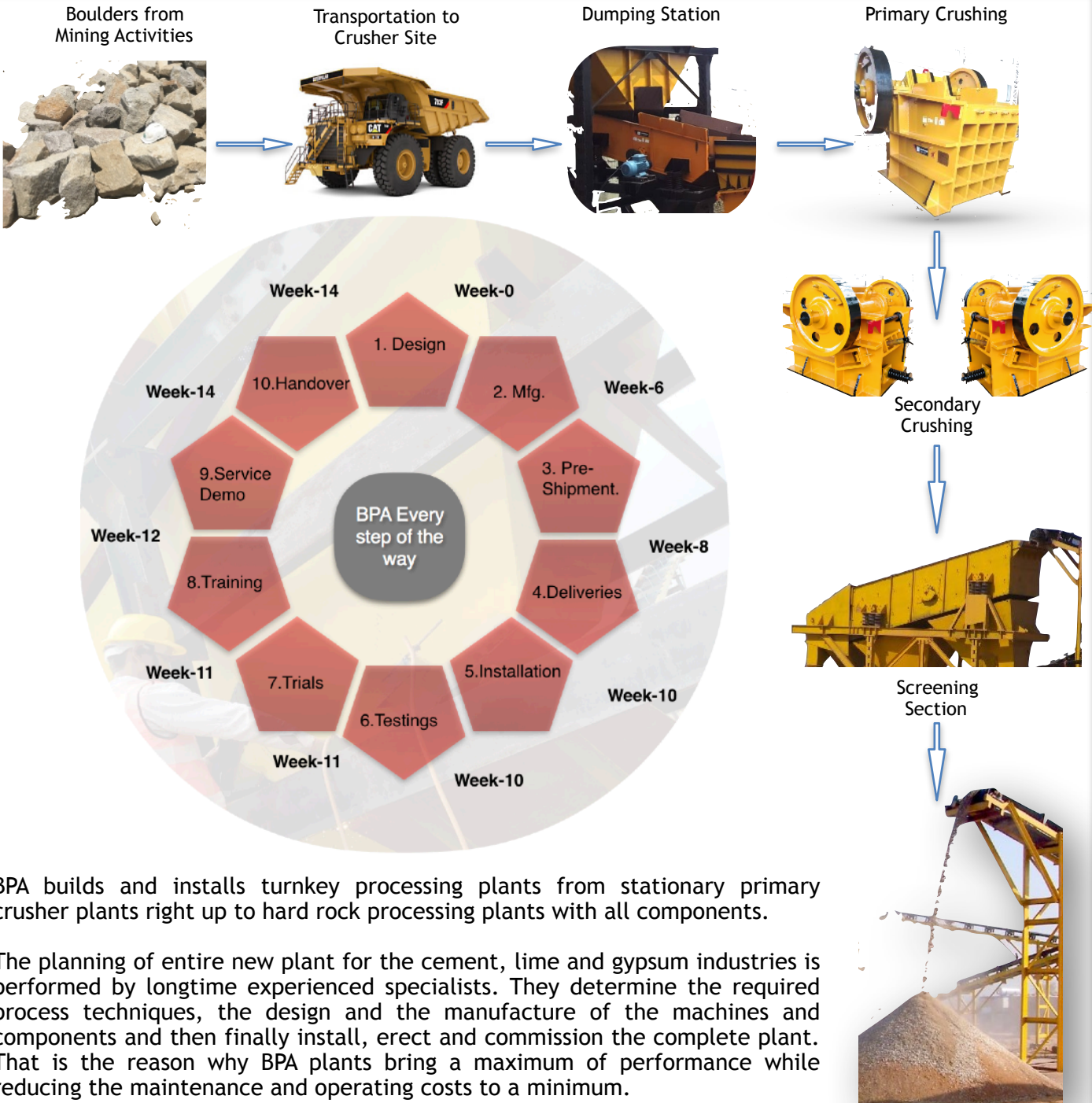
- **Low Operating Costs**

By eliminating the need for multiple points of management , a significant amount can be saved by using BPA crushers and the varied applications that can be utilised taking advantage of the advanced system

- **Versatile & Flexible Configuration**

Pre-screening, fine screening, and crushing are some of the many operations that can be performed by the crushing plant. Its flexible configuration has a discharge hopper that is capable to screen, crush and transport materials.

Stationary plant solutions



BPA Vertical Shaft Impactor (VSI)

These mini VSI's are a marvel of solid dynamics and high impact crushing, for small scale sand applications and giving opportunities for small and medium scale crusher owners to witness the opportunities and quality difference in aggregates produced by impactors.

- Reduces Flakiness and Elongation index while skilfully increasing the quantity of Manufactured Sand (M SAND)
- Highly Engineered Rock on Rock mechanism to provide high attrition value, coupled with free impact to handle high volumes per kW of power.
- The entire assembly is mounted on a sturdy skid to ensure vibration free installations and cost saving on civil foundations.



BPA 750

Advantages

- High throughput Rates
- Significant reduced risk of clogging
- Directed material acceleration
- Optimum energy efficiency
- Reduced wear
- Upto 35% sand efficiency in a single pass
- High quality cubical aggregates
- Endures hard and abrasive materials

TYPE	CAPACITY	POWER	RPM	FEED SIZE	WEIGHT (Tons)
BPA750	10-20 TPH	15-25 HP	2900	0-20mm	1.5
BPA1200	30-60 TPH	30-60HP	2100	0-30mm	3.5
BPA1500	75-125 TPH	75-125 HP	1900	0-40mm	5
BPA1800	100-150TPH	150-200 HP	1500	0-40mm	8

Mini Mobile Crushing Plant

Agarwalla Mobile Crusher with a Trommel screen is one of the company's oldest and the most successful design till date. Combined with a diesel engine (optional against electrical motor), it is widely used by upcoming construction companies with small site job works in remote and isolated areas where large scale mobility is a challenge. It comes with a special towing bar, parking brakes and pneumatic tyres for transportation. Also equipped with working stands to be activated while crushing activity is engaged to ensure minimum vibrations.



Technical Specifications

Capacity :- Upto 20 Tons Per Hour

Primary Machine :- AJC 20.10

Cooling :- Grease Cooled

Towing : Mechanical Assembly

Rotation: 360 Degrees, Turntable

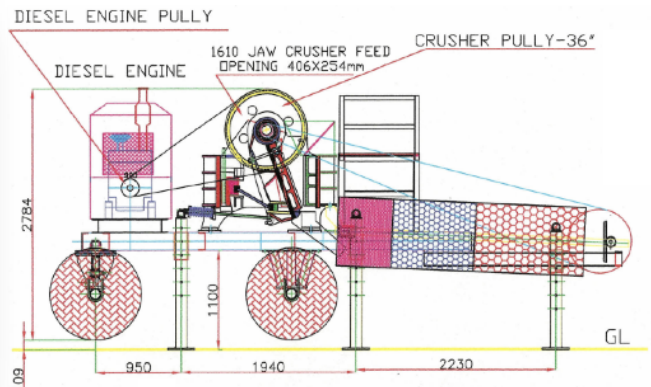
Weight of the plant :- 8 Tons

Engine :- 4 cylinder diesel S433

Diesel Consumption :- 4 Litre/Hour (Av.)

Maintenance: Feeding Platform

Screen Length: 9 Feet - 16 Feet as required





AGARWALLA | BPA

Crushing & Screening Solutions



For more information about Agarwalla Mineral Processing Equipments or other products, contact a BPA technical advisor

BPA Projects Pvt. Ltd.

Address: Lucknow- Deva Road, Opposite SRMU, Lucknow-225003

[Email: bpa@crushersagarwalla.com](mailto:bpa@crushersagarwalla.com)

[Web: www.crushersagarwalla.com](http://www.crushersagarwalla.com)

+00-91-8858888865