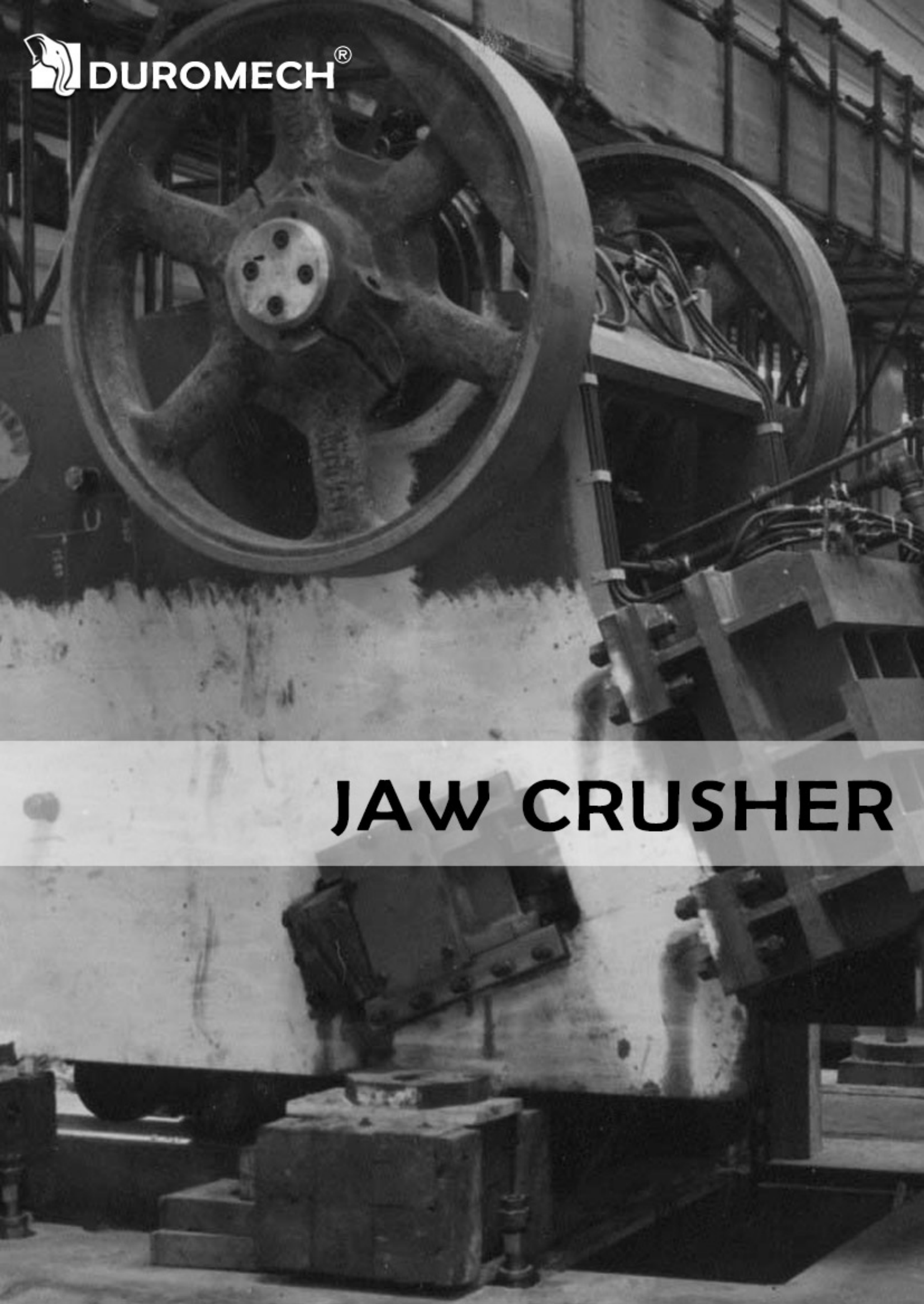


JAW CRUSHER



At duromech we have over a century of experience of designing and manufacturing jaw crushers. We also have a wealth of knowledge about customers' expectations and needs. This background has led to the current range of duromech jaw crushers which includes models specially suited for mobile applications. Strength has been increased and weight has been reduced. Duromech's jaw crushers provide an excellent choice when high production and low total cost are sought. A jaw crusher is generally used as a primary crusher in a crushing circuit. Product is fed into the top of the jaw crusher by a vibrating grizzly feeder. The eccentric rotating drive shaft causes the movable jaw to oscillate crushing the aggregate against a fixed jaw.

APPLICATION

Typical application for our jaw crusher are in mining, quarrying and recycling. The jaw crusher handles 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 duromech after-market service and spare part support.

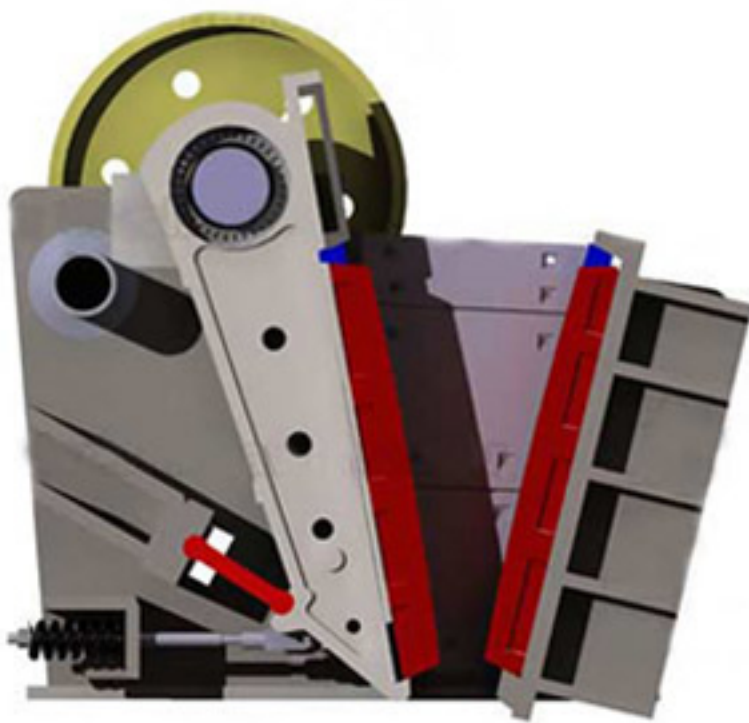
BENEFITS

- 1) High production
- 2) High reduction ratio
- 3) Easy maintenance
- 4) High uptime



FEATURES

- 1) With larger feed opening and longer crushing chamber suitable to crush big lump of stones
- 2) Main frame made of welded high strength steel plates, with heat treatment which makes it particularly strong.
- 3) Pitman arm with precise counter weight, for stable crushing process with very low vibration
- 4) Shaft made of alloy steel, having high tenacity and impact resistance after heat treatment and precision grinding
- 5) Heavy-duty roller bearing can carry heavy load during crushing
- 6) Gap adjustment with hydraulic operation fast and convenient



WHY CHOOSE DUROMECH ?

Reliability

- Outstanding fatigue strength
- Pinned and bolted
- Premium quality component

Productivity

- Excellence material intake capability
- Reliability ,high availability
- Aggressive pitman motion for efficient compression

Easy Installation

- Compact crusher module
- Easy to install in place of an existing crusher
- Possible to ship in pieces

High Performance

- High capacity
- High reduction ratio
- Less sensitive to sticky material than other machine

High Efficiency

- Quick and easy installation
- Easy to operate
- High mechanical reliability
- High machine availability

Maintenance Friendly

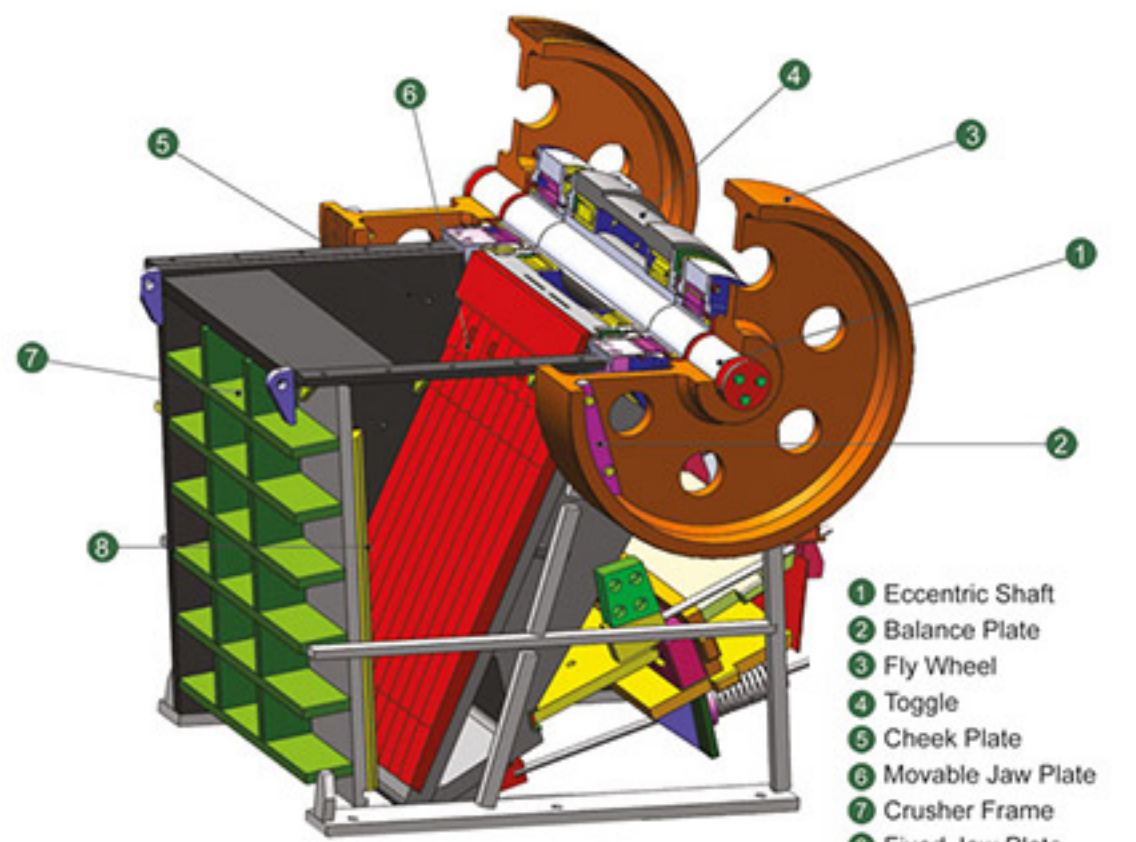
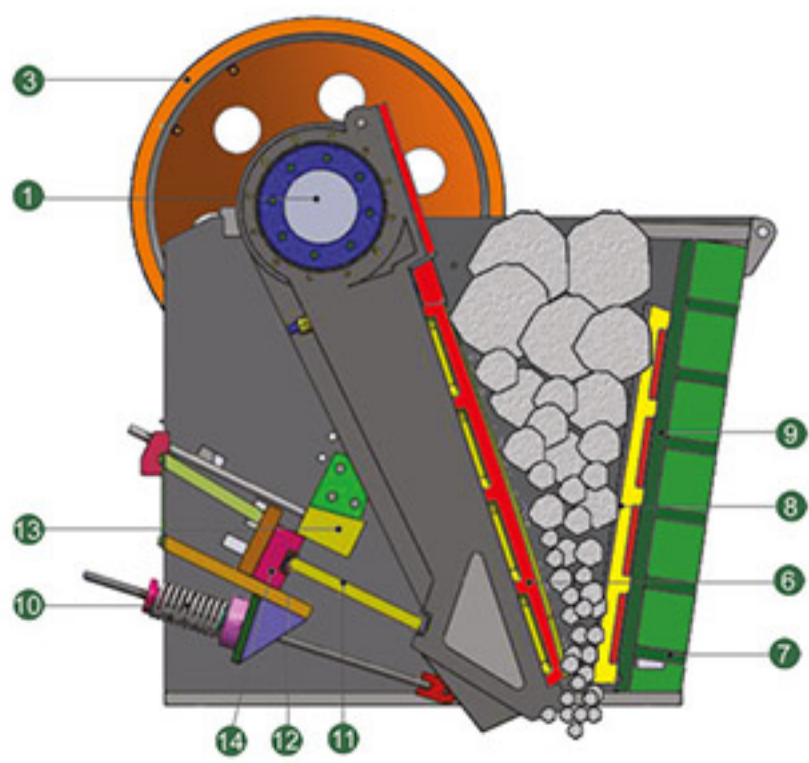
- Easy blow bar attachment
- Safety devices

Primary

SNO.	Crusher Model	Feed Size in Inches(Max)	Average TPH	Power Required in HP	Weight in Tons	R.P.M
1	20"x10"	7	20-40	30	4.000	320-340
2	24"x18"	15	50-100	50	6.700	300-320
3	30"x15"	12	50-100	60	7.850	300-320
4	30"x20"	17	90-150	75	10.100	300-320
5	36"x24"	20	125-250	100	18.270	260-280
6	42"x32"	25	150-300	150	21.500	240-260
7	42"x36"	30	200-400	175	24.000	240-260
8	48"x36"	30	250-400	200	34.530	240-260
9	60"x48"	40	400-625	325	80.000	180-200

Secondary

10	36"x08"	7	25-50	50	6.500	320-340
11	42"x09"	8	30-60	60	7.100	320-340
12	48"x09"	8	35-70	75	10.500	320-340



- 1 Eccentric Shaft
- 2 Balance Plate
- 3 Fly Wheel
- 4 Toggle
- 5 Cheek Plate
- 6 Movable Jaw Plate
- 7 Crusher Frame
- 8 Fixed Jaw Plate
- 9 Fixed Jaw plate Shim
- 10 Retraction Spring
- 11 Toggle Plate
- 12 Toggle Seat
- 13 Adjusting Wedge
- 14 Groove Block

FUNCTIONS

MAIN FRAME

Fully fabricated heavy-duty designs on all models. Fully stress relieved after fabrication. Our designs have been thoroughly field tested under arduous conditions. Heavy-duty frames of low carbon steel plate, reinforced with ribs, are fabricated with all mounting surfaces fully machined to accurately align critical components.

MAIN SHAFT

Forged from hardened and tempered alloy steel with particularly large diameters to suit heavy-duty applications. High fatigue resistance due to a fine finish and the elimination of screw threads and sharp radii which can contribute to stress concentrations.

BEARING

Heavy duty self aligning double row roller bearings on both jaw-holder and main frame.

DUST SEALS

Grease purged labyrinth dust seals.

JAWS

Back faces of all jaws are machine ground to provide firm support. Two piece reversible jaws are provided on our larger crushers to allow maximum jaw life. The jaw-faces are fully reversible. Replaceable jaw-face backing plates are provided to protect the machined jaw-face locations and the jawholder guard, provides protection for the jawholder bearing housing.

TOGGLE

The toggle rolls across the flat pressure face of the toggle seat. No rubbing or scuffing takes place and friction is kept to a minimum. This type of toggle system has the following advantages over the socket end type toggle & seat:

- No lubrication whatsoever is required
- The system can handle far greater crushing pressures.
- The life factor of toggle and seats is many times greater.

Jaw-holder & Main Bearing Housings

Can be removed from the frame as an assembly. The jaw-holder is a robust box construction with a fully machined face to support the moving jaw

DUROMECH

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