



JAW CRUSHER

SALIENT FEATURES :

- Simple, Robust Design
- High strength, Low weight
- High capacity & High reduction
- Large feed & Higher range of settings
- High reliability and High quality manufacturing

Titan Crushing Machinery Pvt. Ltd., a high technology & engineering group focused on the Aggregate and Infrastructure Industry all over the world. We design & manufacture equipment for tomorrow's needs with quality workmanship. Our '**DIAMOND**' brand Jaw Crushers are designed and built to maximize productivity, minimize maintenance and operating cost.

Our Jaw Crushers are designed with advanced CAD systems which enables us to confirm the performance, durability in varied rock characteristics for higher strength with low machine weight.

The result is that '**DIAMOND**' Jaws combine High Strength and Low Weight.

Our overhead eccentric jaw design maximizes shaft and bearing life and hence delivers crushing efficiency that maximizes throughput utilizing a more efficient crushing chamber.

In most cases, a '**DIAMOND**' Jaw Crushers will out produce other jaws in tons per hour at the same Closed Side Settings (CSS).

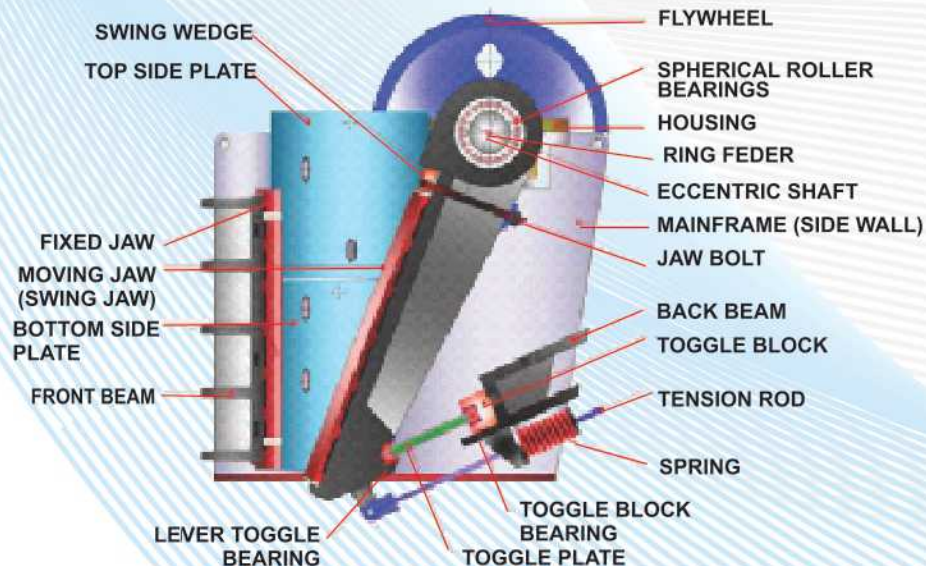
Titan Crushing Machinery Pvt. Ltd. Is unique in the industry as a crusher manufacturer that completely designs, manufactures and warrants the entire crushing plant. From the Feeder to Crusher, to Screens & Conveyors, our, expertise in integrating these components and commissioning a complete aggregate crushing plant.

In short, to optimize production and minimize operating costs choose '**DIAMOND**'

At **Titan Crushing Machinery Pvt. Ltd.**, we provide the highest quality spare parts and service support in the industry to ensure minimum machine down time.

CONSTRUCTION DETAILS

1	Main Frame (Body)	The main frame of 'Diamond' jaw crusher is fabricated from high quality ultrasonically tested steel plates (IS2062). The integrity of entire structure is strengthened by providing ribs and deep pockets.
2	Jaw Stock (Lever)	The Jaw stock is made of high-quality Cast Steel castings (IS 1030) with an open rib design to increase its strength while maintaining structural integrity. The jaw stock has a machined barrel for a precise fit of shaft bearings and the face of the jaw stock is machined to fit the jaw plate tightly.
3	Eccentric Shaft	The shafts are machined from heat treated Chrome-Molybdenum (EN19) steel to withstand heavy shock loads and strains of hard rock crushing. The stroke of the shaft is largest possible for maximum crushing pressure and high-volume production. All eccentric shafts are ground finished to achieve perfect bearing fit.
4	Housings	Cast steel housings are provided to support the eccentric shaft and are fitted with the heavy duty self-aligning spherical double roller bearings which are replaceable.
5	Flywheels	Balanced large diameter of Flywheels (Flat & "V") are provided, which can be interchanged from side to side to ensure smooth running of the machine. Counter weighs are added to balance the eccentricity of the shaft.
6	Jaw Plates	Jaw plates are made of High-Grade Chrome - Manganese steel which are designed to be quickly reversed for extended service life (Grade III).
7	Side wearing Plates	They are also made of High-Grade Chrome- Manganese steel which saves the body from wear and tear while offering easy replacement and reduced maintenance costs.
8	Toggle Mechanism	Accurate toggle plate angle and toggle bearing placement optimizes crushing action through the full range of closed side settings. As a safety devised (fuse), it protects the bearings, shaft and jaw stock should any non-crushable material enter the crushing chamber. A simple shim. - type setting arrangement system is incorporated and a hydraulic jack is supplied to make setting changes quick and easy.
9	Roller Bearing	Heavy duty self-aligned spherical double roller bearings are fitted to absorb the flex of the shaft and withstand both sides thrust and heavy radial load to give smooth running of the machine. This design assures greater reliability for both shaft and bearing performance.
10	Labyrinth	Grease filled labyrinth seals are provided to prevent the entry of dust for smooth operation and long life of the bearings.
11	Ring Feder	Keyless connection between shaft & flywheel for convenience.



SINGLE TOGGLE PRIMARY JAW CRUSHERS - 40 to 700 TPH

		PRIMARY CRUSHERS									
		DJ 2418	DJ 3220	DJ 3224	DJ 3424	DJ 3628	DJ 4030	DJ 4232	DJ 4632	DJ 5234	DJ 6240
Feed Opening	IN	24 x 18	32 x 20	32 x 24	34 x 24	36 x 28	40 x 30	42 x 32	46 x 32	52 x 34	62 x 40
	MM	600 x 450	800 x 500	800 x 600	850 x 600	900 x 700	1000 x 750	1050 x 800	1150 x 800	1300 x 850	1550 x 1000
Max. Feed Size	IN	16	18	22	22	26	28	30	30	32	38
	MM	400	450	550	550	650	700	750	750	800	950
Motor Power	Kw	37	44	44	55	75	90	110	132	160	200
	HP	50	60	60	75	100	120	150	180	215	270
Crusher Speed	RPM	300	285	285	275	275	260	260	250	250	225

Crushing Capacity in Tons Per Hour (TPH)

Closed Side Setting (CSS)		24 x 18	32 x 20	32 x 24	34 x 24	36 x 28	40 x 30	42 x 32	46 x 32	52 x 34	62 x 40
Inches	mm										
2"	50	40 - 45									
2.1/2"	65	45 - 50	60 - 65								
3"	75	50 - 55	65 - 70	75 - 80	90 - 95						
3.1/2"	90	55 - 65	70 - 75	80 - 85	95 - 100	100 - 110	130 - 140	160 - 170	180 - 200		
4"	100		75 - 85	85 - 95	100 - 105	110 - 125	140 - 160	170 - 180	200 - 220	280-300	
5"	125				105 - 110	125 - 130	160 - 180	180 - 200	220 - 250	300-350	
6"	150						180 - 200	200 - 220	250 - 270	350-400	500-600
7"	175									400-500	600-700

Note: Output (tonnage) and power requirements are considering the rock properties, feed rate, feed gradation with bulk density of 1.6 Kg/Cm³ and feed size should be bigger than CSS.

Grey colour indicated is the minimum allowable CSS for safe operation of equipment's.



SINGLE TOGGLE MEDIUM & SECONDARY JAW CRUSHERS - 15 to 70 TPH



SALIENT FEATURES :

- High reduction ratio with shaped aggregates
- Easy to maintain
- Longer service life

		MEDIUM CRUSHERS			SECONDARY CRUSHERS					
		DJ 2210	DJ 2412	DJ 2612	DJ 424	DJ 327	DJ 368	DJ 428	DJ 489	DJ 5410
Feed Opening	IN	22 x 10	24 x 12	26 x 12	42 x 4	32 x 7	36 x 8	42 x 8	48 x 9	54 x 10
	MM	550 x 250	600 x 300	650 x 300	1050 x 100	800 x 175	900 x 200	1050 x 200	1200 x 225	1400 x 250
Max.Feed Size	IN	9	11	11	3	6	7	7	8	9
	MM	225	275	275	75	150	175	175	200	225
Motor Power	Kw	30	37	37	30	37	44	44	55	75
	HP	40	50	50	40	50	60	60	75	100
Crusher Speed	RPM	315	315	315	315	325	325	325	325	275

Average Crushing Capacity in Tons Per Hour (TPH)

Closed Size Setting (CSS)		22 x 10	24 x 12	26 x 12	42 x 4	32 x 7	36 x 8	42 x 8	48 x 9	54 x 10
Inches	mm									
1/2	12				20					
3/4	19	16			23	25	30	35	42	
1	25	20	25	28	26	31	35	42	50	
1.1/4	32	23	28	32	29	36	42	48	60	
1.1/2	40	25	32	35		42	50	55	70	75
2	50	30	35	40				60	80	100
2.1/2	65		40	45						

Note: Output (tonnage) and power requirements are considering the rock properties, feed rate, feed gradation with bulk density of 1.6 kg/cm³ and feed size should be bigger than the CSS.

Grey colour indicated is the minimum allowable CSS for Safe operation of equipment



TITAN CRUSHING MACHINERY PVT. LTD.
www.titancrushing.in

ROCKWORTH INFRA EQUIPMENT PVT. LTD.
www.rockworth.in

Registered Office : D-222/36, MIDC, Shirvane, Nerul, Navi Mumbai - 400 706
Maharashtra, India.

Tel : +91-22- 27684040 / 27632996

www.diamondcrusher.in

Manufacturing Units : Mumbai • Hyderabad • Bangalore
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