



RD JAW CRUSHER



Powerhouse



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A MAKE IN INDIA
INCITIVE



RD JAW CRUSHER

Powering up your crushing performance

RD JAW Crushers have been developed to crush any feed materials into desired end products efficiently, reliably, and economically.

With hydraulically adjusted CSS, single toggle mechanism, and a choice of several different crushing jaw plate, and with optimized nip angle along with wide range of feed openings, each model is versatile, user-friendly and highly productive.

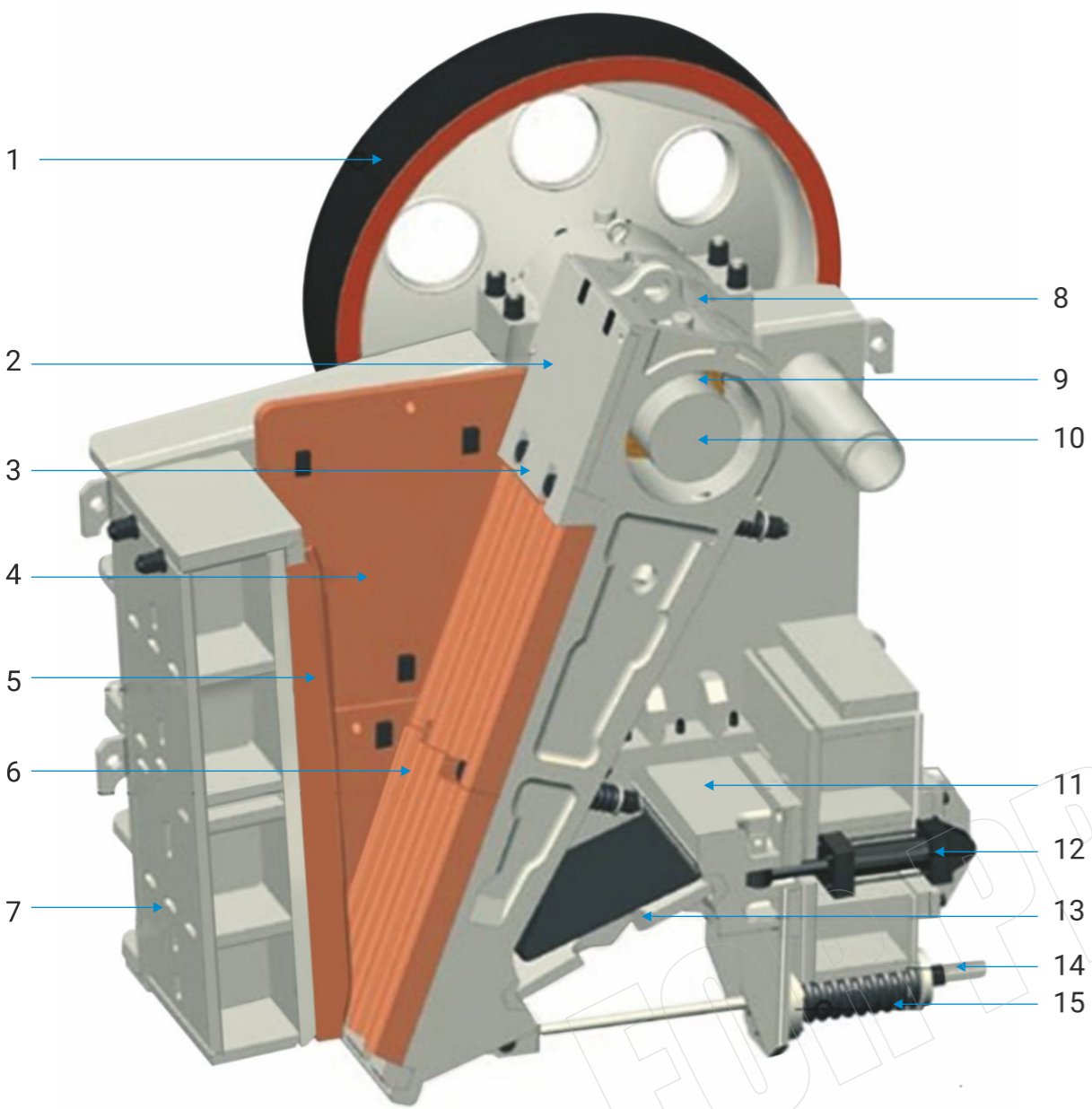
The RD Jaw Crushers have a wide field of use as they can easily be matched to changes in production through the proper selection of Jaw Crusher. Our Jaw crushers are ideal for any type of crushing ie gabbro, basalt, granite sandstone quartz etc, and the compact and easy-to- service design also makes them a perfect choice for any installations.

If your aggregate or mining business demands big capacities, superior power and high feed opening, you will find a RD Jaw crusher powering up for your needs. The RD Jaw Crushers also provide you with unlimited possibilities in smooth process adaptation and full crushing process automation.

■ RANGE :

- RDJC 4436
- RDJC 4236
- RDJC 4432
- RDJC 4232
- RDJC 3628
- RDJC 3624
- RDJC 3022
- RDJC 3608
- RDJC 3015
- RDJC 2415
- RDJC 2412
- RDJC 2410
- RDJC 4208
- RDJC 4204



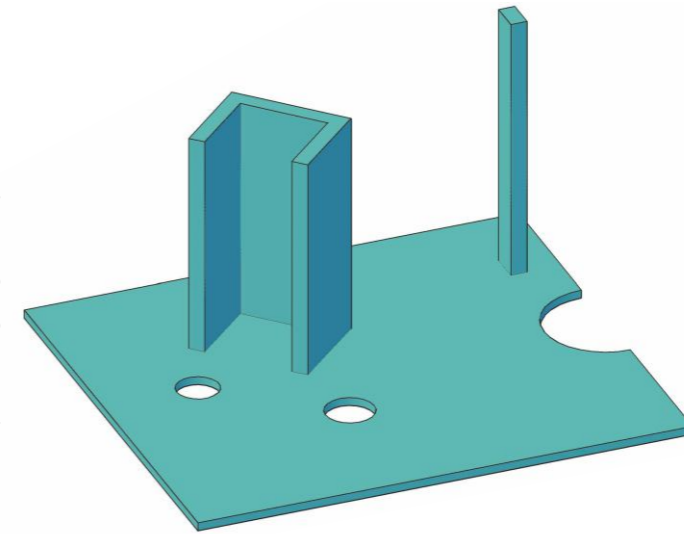


- | | |
|------------------------------|-----------------------|
| 1 Fly Wheel | 9 Bearing |
| 2 Movable Jaw Guard Plate | 10 Eccentric Shaft |
| 3 Movable Jaw Pressing Block | 11 Adjustment Seat |
| 4 Cheek Plate | 12 Hydraulic Device |
| 5 Fixed Jaw Plate | 13 Toggle Plate |
| 6 Swing Jaw Plate | 14 Tension Rod |
| 7 Main Frame | 15 Tension Rod Spring |
| 8 Movable Jaw | |

ROBUST DESIGN

- The RD Jaw Crusher is a single toggle jaw crusher, delineated by focusing on detail, in every aspect ie designing and manufacturing.
- We have consolidated the best of the orthodox practices and applied the benefits of the latest technology.
- The frame consists of two side plates of rolled steel, plus welded at front frame end and moving jaw which give a high rigidity/weight ratio. Big-radius transition areas reduce stress concentrations and welds are done at low-stress areas.
- The advantage of a welded frame is that it is equally strong in all direction. And boasts of excellent rigidity against shock-loads. Thus minimizing the risk of failure on the main-frame, as with a bolted construction.

FEA Analysis



VERSATILE RANGE OF JAW PLATES

- RD Jaw Crusher's wear parts are calibrated to give high performance and lowest operating costs. Highest quality material and impeccable design ensure best quality parts.
- Optimizing in applications that are ensured through the available range of alternative jaw plate designs.
- All jaw plates are reversible.
- High grade M7 range of Jaw plates are used in the Jaw Crusher



C : Corrugated



ST : Sharp Teeth



HD : Heavy Duty



WT : Wide Teeth



CC : Coarse Corrugated

■ LOWEST PER TON COST WITH HIGHEST PERFORMANCE



All our jaw crushers are of the single toggle type, with a deep, symmetrical crushing chamber and easy setting adjustment. Each model has a large feed opening for its size and an optimized nip angle, giving smooth material flow, high reduction efficiency and high capacity. Behind the simple design are many advanced features that ensure easy operation and maintenance, long life & a low cost per ton.

SUPERCHARGED PERFORMANCE

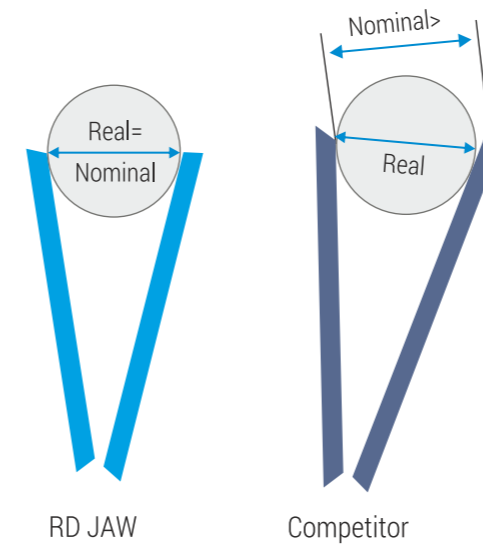
- High capacity
- High reduction
- Low jaw plate wearing pattern
- Large feed acceptance capability

These four factors are directly proportional and the RD jaw crusher provides an optimum balance. The design of the deep symmetrical crushing chamber maximizes feed size, capacity and reduction.

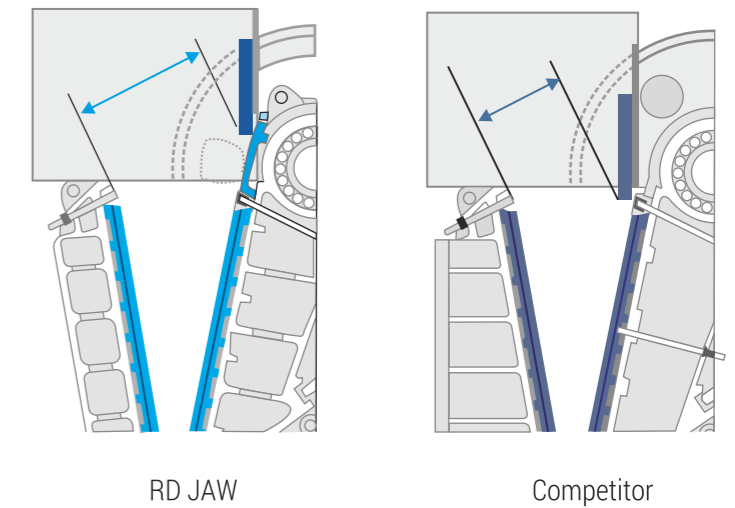
An optimized nip angle ensures that the material progresses smoothly down through the crushing chamber to enable high reduction, productivity and superb utilization of jaw plates.

It is not just a large nominal feed opening that is necessary – the feed acceptance capability depends on a feed opening which is effective and active (see illustration). All crushers in the range have an almost square feed opening so that they can accept the max boulder size without blockages. Big Boulders entering the crusher fall straight into the active region of the crushing chamber, so there is no need for a stationary cross-wall in the feed area.

Effective feed opening

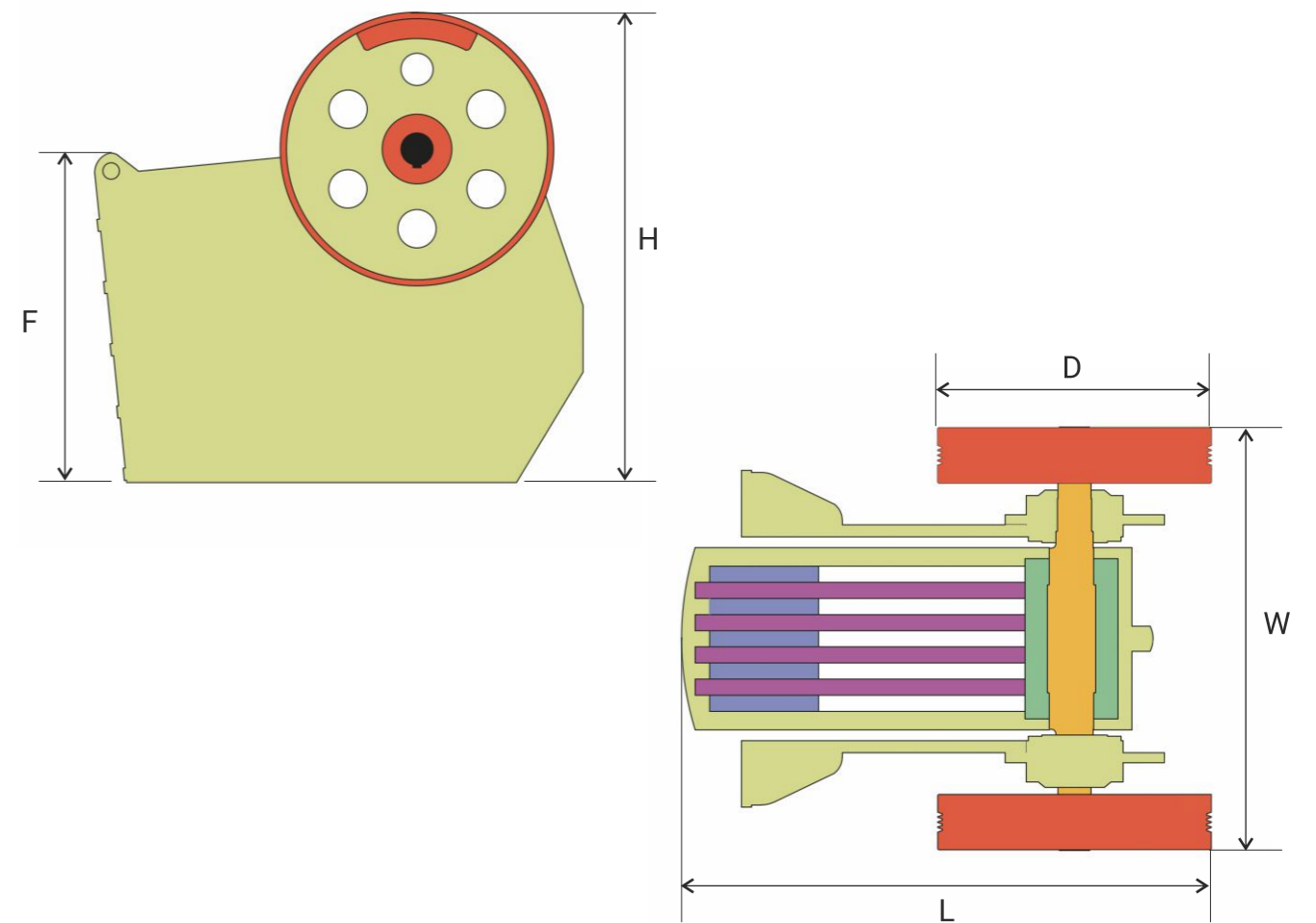


Active feed opening



Jaw Crusher		Average Capacity in Tons/hr, with Jaw Setting (Closed setting)											HP	RPM
Inches		1"	1½"	2"	2½"	3"	3½"	4"	5"	6"	7"	8"		
MM		25	38	50	63	75	90	100	125	150	175	200		
24" X 12"	610 X 305	28	33	43	48	55	62	-	-	-	-	-	50	280
24" X 15"	610 X 381	-	40	45	53	60	70	-	-	-	-	-	50	280
30" X 15"	762 X 381	-	-	50	63	70	80	88	-	-	-	-	50	280
30" X 20"	762 X 508	-	-	-	68	72	80	90	-	-	-	-	60	280
36" X 24"	914 X 610	-	-	-	-	-	80	90	125	140	175	200	100	280
36" X 28"	914 X 711	-	-	-	-	-	115	140	165	190	215	240	100	280
42" X 32"	1067 X 813	-	-	-	-	-	125	150	175	200	250	275	125	280
44" X 32"	1118 X 813	-	-	-	-	-	-	165	190	230	280	330	150	280
42" X 36"	1067 X 914	-	-	-	-	-	-	175	200	250	300	350	150	280
44" X 36"	1118 X 914	-	-	-	-	-	-	200	225	275	330	375	200	280

The capacity figures given in the table above are approximate and are intended only to give an indication of what the crushers can be expected to produce. They apply for the open-circuit crushing of dry blasted granite with a bulk density of 1600 kg/m³ (100 lbs/ft³) and a maximum size which can be fed into the crushing chamber without difficulty. The lower values apply for a feed from which the material finer than the crusher's CSS has been removed. The higher values apply for a feed which includes the fine material. The minimum CSS at which the crusher can be operated depends on the feed size distribution, the material's crushability (Wi), the degree of contamination and moisture in the feed, the type of jaw plates fitted and the condition of the manganese



Css	CRUSHER MODELS														
	RDJC 4436	RDJC 4236	RDJC 4432	RDJC 4232	RDJC 3628	RDJC 3624	RDJC 3022	RDJC 3015	RDJC 2415	RDJC 2412	RDJC 2410	RDJC 2010	RDJC 4208	RDJC 38X08	RDJC 42X04
Feed Size	850 mm	850 mm	700 mm	700 mm	600 mm	500 mm	400 mm	250 mm	250 mm	200 mm	180 mm	180 mm	180 mm	180 mm	80 mm
Feed															
L	2835	2725	2675	2490	2530	2445	2025	1690	1665	1655	1555	1535	1540	1485	1255
W	2410	2325	2375	2325	2100	2100	1785	1785	1615	1615	1615	1435	1050	1875	1985
D	1350	1350	1350	1350	1350	1350	1150	1150	1050	1050	1050	950	1150	1050	950
H	2675	2525	2455	2465	2300	2245	1850	1535	1515	1505	1555	1535	1540	1435	1255
F	2000	1800	1735	1550	1630	1555	1260	800	990	980	1030	1060	965	960	780
Range															
Power	150	100	150	100	75	75	60	50	50	50	50	40	50	50	40
Wt	24.6 T	22 T	22.5 T	21.4 T	17.2 T	16.6 T	10 T	7.4 T	6.6 T	6.0 T	4.7 T	4.2 T	7.6 T	5.9 T	5.3 T

300 TPH WHEEL MOUNTED RD JAW CRUSHER

