



SHREE SPONGE STEEL AND FORGING LTD.

Mfg. of : Wide Range of Jaw Crushers & Crushing Equipments

Jaw Crusher



Designed & Developed by

Larsen & Toubro Ltd.

300 mm x 175 mm to 900 mm X 600mm

The World of Reduction Technology & Crushing Equipments

SSSF is an Engineering Co. engaged in manufacturing Double Toggle Jaw Crushers and Crushing equipments. SSSF Jaw Crushers are most reliable and trusted for their simple structures, easy maintenance, stable performance, Low operating cost and High crushing ratio.

Product Design & Engineering Features

The design of SSSF jaw crusher enables crushing by pressure application as shown in figure-'A'

The movements of jaw plates are precisely ensured for the potential energy transformation for desired crushing application..

Design and detail engineering are the sole input by L & T to facilitate the manufacturing of crushing equipment providing the best technical support.

Kinematics and fatigue analysis of moving parts are the inherent designed criteria developed by L & T's technical team.

Crushing zone is designed in such a way that feed stock material is gripped firmly and it gets crushed without rubbing action which results in minimum wear and tear, optimum power consumption with desired production capacity.

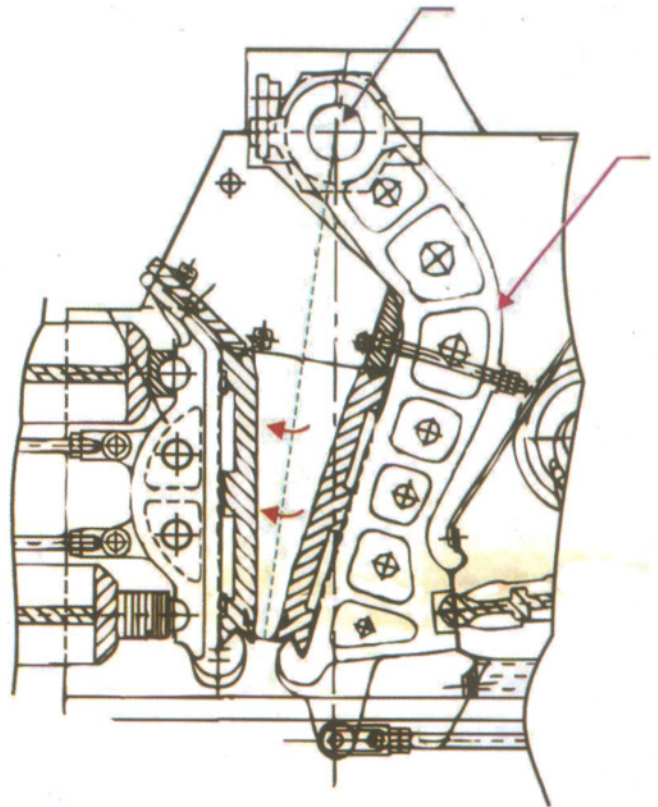


Figure-'A'

Constructional Features

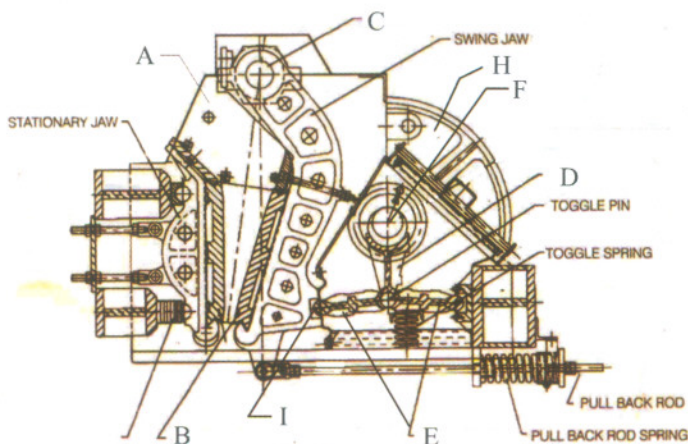


Figure-'B'

A-Body

Fabricated body from certified quality strong steel material welded construction to withstand heavy crushing and impact loads during operation. Wide entry throat ensures easy feeding to crushing chamber.

B - Jaw plates

Manganese steel casted stationary and swing jaw plates are the well mass balance castings, machined / levelled precisely for crushing without rubbing. Different types of jaw plates are available to suit the feed stock for crushing application. Gap adjustment mechanism is at the fixed / Stationary Jaw which ensures the crushing geometry intact.

C- Hinge Pin

Sturdy hinge pin is made out of well engineered precision sub assembly, assembled at correct location of crushing chamber to ensure crushing without rubbing. Hinge pin large load bearing area is designed to facilitate integral lubrication which results in minimum frictional loss during operation.

D- Pitman

Light weight cast steel, precisely machined component uniquely designed to withstand maximum compression load with minimum frictional operation.

E-Toggle

Double toggle arrangement gives balance load distribution and effective pressure application through eccentric mechanism to swing jaw.

Well engineered compression spring ensures the cushioning to the toggle mechanism, which eliminates knocking and wear & tear.

F-Lubrication

Splash lubrication system comprising of positive displacement pump for oil spray arrangement. It is completely in enclosed operating mechanism designed for continuous application. This high tech lubrication system enables the jaw crusher to run safely at

designed speed for rated out put.

G- Safety device

This device disengages the driven pulley instantaneously and protects the machine against accidental overloads.

H- Fly wheel

Light weight fly wheel transmits power to main shaft through safety device. Mass momentum balance mechanism is the salient feature of this fly wheel which helps in starting the crusher with normal duty squirrel cage electric motor or as required for special application.

I-Diaphragm

Specially designed oil resistant flexible diaphragm is an excellent sealing for oil chamber. No foreign particles can intervene the splash lubrication system.

Industrial Application

Crusher plants are widely used for the industrial sectors as mentioned below :

Animal/cattle feed plants, Cement Plant, Ceramic plants, Coconut shell plants, Mines & Minerals, Poultry feed plants, Salt plants, etc.

Feed Stock Application

SSSF Jaw crushers are capable of handling following variety of feed stock material.

Basalt, Bauxite, Black Trap, Blast Furnace Slag, Copper ORE, Dolomite, Dunite, Ferro alloys low carbon and high carbon, Fused Alumina Chrome ORE, Granite, Lime Stone, Manganese ORE, River Gravel, Quartzite,

Any specific material apart from above mentioned shall be tried and tested on need base.

Capacity and Power Chart of SSSF Jaw Crushers

1. Capacity figures indicated in the below chart are approximate and are based on bulk density of feed stock material having bulk density 100 lbs/cft or 1600Kg/Cum.

2. Cubical-uniform crushed product shall be obtained with the usage of serrated jaw plates

3. Through put capacity is based on following assumptions:

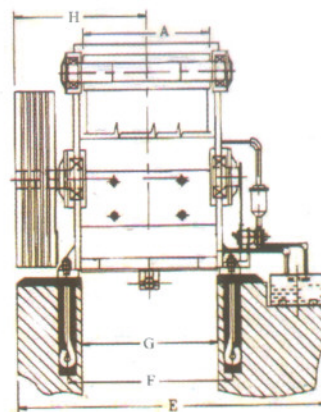
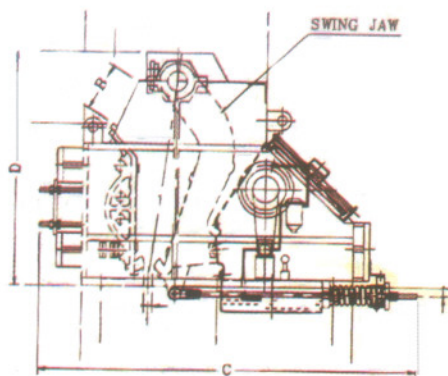
Feed stock material is fed to machine with controlled and regulated flow rate. Maximum lump size should not exceed 75 to 80% of the machine feed mouth opening. Machine is equipped with standard jaw plates assembly.

Sr. No	Jaw Crusher Size		Recommended Feed Stock Size		Crashing Capacity In Tones Per Hour With Jaw Setting Of																Crusher RPM	Drive HP	Motor RPM
	MM	INCH	MM	MM INCH	12	20	25	31	37	50	62	75	88	100	125	150	175	200					
					½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	7	8					
1	300 X 175	12 X 07	130	5	5	6	7	9	12	16	22									350-380	20	1440	
2	400 X 225	16 X 09	170	7	7	10	12	15	17	24	32									360-390	25	1440	
3	500 X 300	20 X 12	250	10		12	15	21	24	30	37									350-380	30	1440	
4	550 X 225	22 X 09	170	7		13	17	22	25	33	40									360-380	30	1440	
5	550 X 225	30 X 09	170	7	10	17	23	30	35	38	42									320-350	40	1440	
6	750 X 375	30 X 15	300	12					35	45	56	65	70	90						330-360	40	1440	
7	750 X 500	30 X 20	450	18						46	62	71	82	88	112					330-360	50	1440	
8	900 X 200	36 X 8	150	6	15	20	24	30	38	50										320-350	50	1440	
9	900 X 600	36 X 24	550	22							75	95	115	125	155					320-350	75	1440	

Jaw settings to the left of the line are not recommended. If any one requires to keep a jaw setting closer then recommended, it must to maintain feed size in the ratio 8:1.

Due to continuous technology up gradation, design and dimensions are subject to change/ modification without any prior notice.





Sr. No	Jaw Crusher Size		Dimensions in MM -Appx.								Shipping Specifications	
	MM	Inch	A	B	C	D	E	F	G	H	Appx. Wt.kgs	Appx. Volume-m3
1	300 X 175	12 X 07	300	175	1630	1000	1330	455	320	630	1280	2
2	400 X 225	16 X 09	400	225	1950	1220	1450	635	450	750	2675	3.5
3	500 X 300	20 X 12	500	300	2300	1540	1680	745	500	635	4316	5
4	550 X 225	22 X 09	550	225	2160	1390	1690	760	615	650	3808	6.5
5	550 X 225	30 X 09	750	225	2460	1550	1980	1030	700	840	7153	7
6	750 X 375	30 X 15	750	375	2565	1860	1960	1030	700	840	7850	9
7	750 X 500	30 X 20	750	500	2810	2570	2060	1030	700	945	13100	14.5
8	900 X 200	36 X 08	900	200	2630	1605	1690	1180	960	900	8600	9
9	900 X 600	36 X 24	900	600	3830	2570	2790	1300	1000	1335	19690	24

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Depth of foundation pocket is subject to soil bearing capacity - Customer to decide

Our Product Range

A. Crushing Equipment

1. Jaw crusher size 300 mm x 175 mm to 900 mm x 600 mm. 2. impact breakers 800 mm to 2000 mm diameter and 800 mm to 2000 mm width. 3. Hammer Mills 600 mm to 2000 mm Diameter and 600 mm to 2000 mm width.

1. Vibrating screens Horizontal liner motion or inclined circular motion type size 600 mm to 2500 mm width and 1300 mm to 7000 mm length. 2. Rotary screens size 500 mm diameter x 2400 mm long, 900 mm diameter x 2700 mm long, 900 mm diameter and 3600 mm long.

C. Material Handling Equipments

1. Bucket elevators 2. Screw conveyors 3. Belt conveyors 4. Bucket loaders.

D. Plants and turnkey Projects

1. Crushing, Grinding and screening plants for mining and metallurgical industries. 2. Coal preparation plants. 3. Material storage and handling systems.

E. Special Tailor made Equipments

F. Spare Parts

1. Cast steel, Cast iron and Manganese steel casted and Machined parts. 2. Precision machining parts. 3. Std. Hardware items.

Accessories at extra cost: • Electric Motor • Switch/Starter • Motor Pulley
• Drive Gurd • V-Belts • Slide Rail



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