

McNALLY SAYAJI ENGINEERING LIMITED

(A Member of the Williamson Magor Group)



JAW CRUSHER

At MSEL we believe in constantly reinventing ourselves. And in line with this we are always on the lookout for new avenues and opportunities.

McNally Sayaji Engineering Limited (MSEL), with factories in Kumardhubi, Asansol, Bangalore and Baroda, is one of the country's leading manufacturer of Crushing, Screening, Milling, Material Handling and mineral processing and other heavy equipment, serving the core sectors of the economy. These sectors include Coal, Mining, Power, Steel, Ports, Cement, Aluminium and Non-Ferrous Metals.

All manufacturing units of MSEL are ISO 9001-2008 certified with well established quality assurance department supported by modern testing facilities and

managed by a team of highly experienced professionals.

MSEL has branch offices at Kolkata, Bangalore, Chennai, Delhi, Mumbai, Hyderabad, Nagpur, Vishakhapatnam, Kochi, Vijaywada, Coimbatore. This makes MSEL capable to render comprehensive customer support.

MSEL has inducted technology over the years through strategic alliances and developed focused R&D and Design & Development teams, who offer optimum and cost effective solutions to meet customer needs.

APPLICATION

MSEL Double Toggle Jaw Crusher is a versatile type of Crusher in the sense that it can crush almost any type of material from soft to very hard such as Ferro Silicon, Ferro Chrome, Fused Alumina, etc. However, because of its robust constructional features it is mainly used from medium to hard material for reason of viability. It is employed for both Primary and Secondary application (some times for tertiary also).

OPERATING PRINCIPLE

In MSEL DTJC crushing takes place by pressure/compression between one fixed and one moveable jaw. In MSEL design the unique geometrical configuration of crushing chamber with specially designed swing jaw ensures "crushing without rubbing" action enabling it to handle toughest material. Quick release spring loaded safety arm disengages instantly making the pulley free from motor during entry of tramp iron. The crusher is fed uniformly across the entire width by suitable feeding system to ensure proper performance, uniform wearing pattern of Jaw Plates to maintain consistency of product size.

CONSTRUCTIONAL FEATURES

Double Toggle Jaw Crusher is consisting of an eccentric shaft actuating a Pitman-Double Toggle mechanism for pushing forward the swing jaw, hinged at the top, for generating crushing pressure on the feed material in the crushing chamber against the fixed jaw. On return stroke it comes back by action of pull back compression spring holding it from the bottom. The pitman, Toggle mechanism and the bearings are lubricated continuously by automatic motorized oil splash system, a closed circuit lubrication unit complete with oil tank, fillers, Pumps, Flow switches, motor etc.

MSEL DTJ Crusher is having an unique spring loaded safety device mounted with the pulley which disengages instantly during entry of tramp iron making the pulley free from motor and saves the crusher. Resetting takes hardly few minutes to start the operation.

Jaw plates and side lines are of Austenitic Mn. Steel.

SALIENT FEATURES

- The unique 'Crushing without rubbing' action enhances jaw plate life substantially.
- Unique design configuration of the crushing chamber, pitman toggle plate mechanism enables it to handle toughest materials.
- Automatic oil lubrication system with Flow Switch (interlocked with Motor) protect the crusher and increases availability.
- Quick release safety device protect the Crusher. It can be reset in few minutes.

AVAILABLE SIZES

JAW CRISJER SIZE (mm)	RECOMMENDED FEED (mm)	DRIVE HP	APPROXIMATE WEIGHT (KG)
300 x 175	137	20	1300
300 x 225	175	20	1550
400 x 225	175	25	2700
500 x 300	200	30	3800
750 x 225	175	30/40	6900
750 x 375	300	40	7500
750 x 500	400	50	13000
900 x 200	150	50	8000
1050 x 150	125	40/50	8500
900 x 500	400	60/75	17000
900 x 600	500	75/100	24000
1050 x 750	600	100/125	33000
1500 x 250	200	100	26000
1500 x 375	300	100	31000

NOTE: As improvements are made from time to time, specifications and other details are subject to change without notice.

McNally Sayaji Engineering Limited

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Crusher | Screen | Grinding Mill | Feeder | Conveyor | Wagon Tippler | Pulley & Idler | Port Crane | Stacker Reclaimer | Mobile/Skid Mounted Crushing & Screening Plant | Slurry Pump | Thickener | Flotation Cell | Pressure Vessel | Equipment for Iron Ore, Steel, Cement, Power, Coal & Other Non-Ferrous Metal Processing Plants