

# McNALLY SAYAJI ENGINEERING LIMITED

(A Member of the Williamson Magor Group)



## EK SERIES IMPACTOR

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 EK Series Impactor is a horizontal shaft, slow speed, non-reversible, fixed blade impact crusher. Because of its unique design configuration it is ideally suitable for Fluidized Bed Boiler requiring coal size below 6mm with limited quantity of fines which is not possible to achieve from conventional Impactor or Ring Granulator. These impact crushers are also employed for sponge iron and washery application.

# OPERATING PRINCIPLE

Feed material entering into feed end at the top gets shattered by the impact blows from rotating blow bars against the grinding wall. At the lower portion of the crushing chamber it is subjected to shearing and attrition to some extent producing finer product size with limited quantity of fines, thus, overcoming the limitation of a swing hammer mill and conventional impactor.

Uniform feeding across the entire width at controlled rate by suitable feeding system is essential to ensure uniform wearing pattern and consistency of product granulometry.

# CONSTRUCTIONAL FEATURES

The housing is of multiple section with inspection doors and with upper portion hinged for opening (mechanically or hydraulically) to have easy access for maintenance.

It has a one piece curved breaker wall (similar to Hammer Mill) with grinding gibs of wear resistant cast material, hinged at the top and supported by spring loaded threaded spindle assembly at the bottom for gap adjustment and safety device against un-crushable .

Rotor drum keyed to a robust shaft is fabricated from MS, adequately ribbed and fitted with 6 Nos. blow bars of wear resistant cast steel through counter shank bolts. Blow bars are reversible to compensate wearing. Open bottom design avoids chocking. Drive transmission is through vee belts and flexible or fluid coupling from motor. Manual or centralized grease lubrication is provided. Water spray arrangement can be provided if needed.

# SALIENT FEATURES

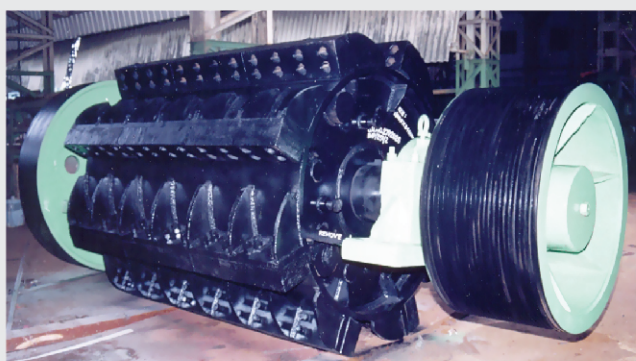
- The performance-wise it is a crusher between a swing hammer mill and conventional impactor having a combination of few Salient Features of both type i.e. high reduction with limited fines.
- MSEL EK series Impactor is ideally suitable for fluidized bed boiler as well as coal washery and sponge iron plant.

# AVAILABLE SIZES

Diameter	: 800mm to 1800mm
Width	: 800mm to 2400mm
Capacity range for Coal	: Up to 600 TPH for 15mm product

Higher model can be offered on request.

*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