



An ISO 9001:2000 Company

McNally Sayaji Engineering Limited

A Subsidiary of McNally Bharat Engineering Company Limited



Apron Feeder | Conveyor | MBE Built One of the Largest Apron Conveyors in the World

At MBE 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 other heavy equipment, serving the core sectors of the economy. These sectors include Coal, Mining and Mineral Processing, Power, Steel, Ports, Cement, Aluminium and Non-Ferrous Metals.

The manufacturing units have ISO 9000 certification.

We have marketing and branch offices at Kolkata, Baroda, Mumbai, Kumardhubi, Bangalore, Chennai,

Secunderabad, Cochin, Nagpur, Vizag and Vijaywada. This makes us capable of comprehensive customer support at all times.

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.



Apron Feeder

MSEL's custom-built Apron Feeders are backed by years of experience in design, manufacture and commissioning of plant and equipment for bulk material handling. The sturdy Apron Feeders have proved their capacity and reliability in several installations, handling run of mine feeds ranging from Coal to Limestone, Rock Phosphate, Bauxite, Fluorspar, Copper Ore, Iron Ore, Pyrites etc.

Salient Features of MSEL Apron Feeders

Frame

The main frame of the feeder is fabricated out of rolled steel structural members, heavily ribbed and supported to impart rigidity and strength to withstand impact without any appreciable deflections. Welding is done by qualified and experienced welders, under close supervision.

Pans

Overlapping type fabricated steel pans or cast Manganese Steel pans are used depending on the service condition to ensure minimum spillage of materials through overlapping portion.

Chains

Depending upon the severity of application either Heavy Duty Crawler Chain or Link Plate Roller Chains is used. Crawler Chains are used for heavy and extra heavy-duty application. These chains have high static breaking load and are lubricated for life. High surface hardness ensures maximum wear resistance. Pans are torque tightened with the chains through high-tension bolts. For comparatively lighter and less critical application Link Plate Type Roller Chains are used. Roller Chains are made of heavy gauge formed steel, flanged and drilled for pan attachment. Chain Links have hardened and precision ground brushes, pins and rollers to give long trouble free service. Depending on width and duty there may be two or three strands of chains.

Carrying Rollers

Crawler Type Chains are supported and guided on the main frame by carrying rollers. These rollers are lifetime lubricated. Special seals ensure a perfect sealing joint for lubricant, which is contained in an approximately dimensioned cavity, guaranteeing proper lubricant circulation and do not require

further lubrication. In the loading zone rollers are closely spaced and sometimes-special rubber pads are provided below the rollers' seating to absorb impact arising due to falling material. For Link Plate Type Roller Chains, normally no carrying rollers are used. Chain Rollers roll over the rails/square bar, thus supporting the chain.

Impact Rails

Depending upon feeder width one or two impact rails is provided below the pans. Impact rails prevent permanent pan deformation during severe impact, but providing ample clearance between rail and pan during normal operation.

Sprockets

Heavy duty segmented type sprockets with excellent wear resistant property are fastened to the sprocket hub through high-tension fit bolts. These sprockets are generally procured from the Crawler Chain manufacturer for better compatibility. Cast steel sprockets are also supplied which are machined to close tolerances. Teeth may be flame hardened to suit the duty conditions. The sprockets are keyed to EN-8 or superior shafts.

Bearings

Head, Tail and Counter Shafts are supported on liberally sized babitted bearings / special roller bearings, housed in cast iron pillow blocks.

Tensioning Device

Generally screw type tensioning device is provided. However, hydraulic tensioning device may also be provided optionally.

Drive

The head shaft is normally driven by counter shaft through a pair of machine cut steel, spur pinion and gear. The counter shaft may be driven by chain or gear drive depending on duty required, by a motor and reducer. The gear drives and chain drives are provided with suitable guards. A variable speed drive may be supplied as an option.

Lubrication

All bearings are provided with grease fittings and can be manually greased. Automatic centralised lubrication may be provided as an option.

McNally Sayaji Engineering Company Limited

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**Crusher | Screens | Mills | Feeders | Conveyors | Port Cranes | Stacker Reclaimer | Wagon Tippler | Slurry Pump | Thickener
Pressure Vessels | Equipments for Steel, Cement, Power & Non Ferrous Metals**