

ENVIRO INTERNATIONAL CORPORATION

Manufacturer of Belt Conveyors and Pneumatic conveying systems



Belt Conveyor

EIC belt conveyors are designed to suit the adverse working conditions and as per customers requirements. Featured with long working life, They require less maintenance and are user friendly.

We are offering these belt conveyors to clients in varied lengths and widths in order to meet varied industrial applications.

Belt conveyor is widely used in Industry as a low operating cost of conveying for multiple and wide range of applications. It is a very common equipment used in conveying of various type of materials from a short range to very long distances. It is very widely used in power plant, cement industry, Coal handling Plants, Mines, Rice husk Industry, food plants, chemical plants, building materials, ports, light industry and other industries as raw materials feeding system to plant, etc

It is very economical and very convenient to operate. It operates very smoothly and is very reliable system for conveying bulk materials and irregular material stuff.

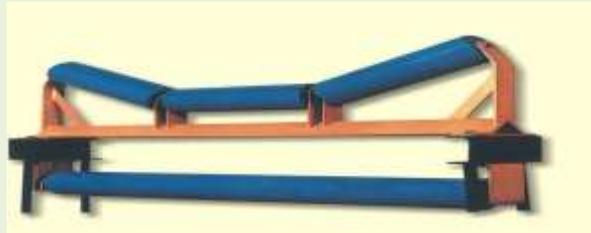
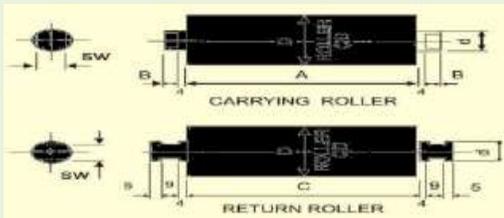
Working temperature for belt conveyor is normally between -10°C and $+40^{\circ}\text{C}$ and the raw material temperature can not exceed 70°C . Heat-resistant rubber belt can transport the high-temperature materials (below 120°C).



ISO 9001-2008

Air Pollution Equipment

IDLER ROLLER



Other material handling equipment

Chain Conveyors,

Screw Conveyors,

Bucket elevators,

Belt Conveyor for CHP Plant,

Belt conveyor spares like Idlers, pulleys, belts, air slide etc

Ash Handling / Pneumatic Conveying Systems

Pneumatic conveying systems are basically quite simple and are eminently suitable for the transport of powdered and granular materials in factory site and plant situations. The system requirements are a source of compressed gas, usually air, a feed device, a conveying pipeline and a receiver to disengage the conveyed material and carrier gas. The system is totally enclosed and if it is required, the system can operate entirely without moving parts coming into contact with the conveyed material. High, low or negative pressures can be used to convey materials. For hygroscopic materials dry air can be used, and for potentially explosive materials an inert gas such as nitrogen can be employed. A particular advantage is that materials can be fed into reception vessels maintained at a high pressure if required

Pneumatic conveying systems are particularly versatile. A very wide range of materials can be handled and they are totally enclosed by the system and pipeline. a hopper or silo in one location to another location some distance away. Considerable flexibility in both plant layout and operation are possible, such that multiple point feeding can be made into a common line, and a single line can be discharged into a number of receiving hoppers. With vacuum systems, materials can be picked up from open storage or stockpiles, and they are ideal for clearing dust accumulations and spillages. Pipelines can run horizontally, as well as vertically up and down, and with bends in the pipeline any combination of orientations can be accommodated in a single pipeline run. Conveying materials vertically up or vertically down presents no more of a problem than conveying horizontally. Material flow rates can be controlled easily and monitored to continuously check input and output, and most systems can be arranged for complete automatic operation. Pneumatic conveying systems are particularly versatile. A very wide range of materials can be handled and they are totally enclosed by the system and pipeline.

DENSE PHASE CONVEYING SYSTEM

The Dense Phase Conveying System is the most advanced, efficient and most reliable system to convey material with wide range of capacities of dry bulk solids up to 200 TPH, with terminal distances exceeding - 1,200 meters. This system includes weighing, batching, blending, lump breaking, storage, master control equipments etc. through Dense Phase Conveying System for bulk material handling in the plant.

Dense Phase System is used to push and convey the highly dense concentration of bulk solids materials effectively at a low constant speed inside the conveying pipe lines. Any type of material (heavy, abrasive or, fragile, crystalline or granular) can be conveyed without causing the degradation due to low velocity and less wear to the system components. Dense Phase System is reliable, flexible and maintenance free due to lower quantum of moving parts and it can also be easily installed at location, where space availability constraint is there.

The low volume of air is utilized at the ash / transporting vessel to convey the material into the line at maximum density while the balance air quantity is added along the conveying line through coupling unit provided at starting on the pipeline to overcome the pipeline frictional losses thus pumping material at the highest obtainable efficiency. The Coupling Unit ensures a uniform gradient and helps to maintain the material at maximum density. It also helps in maintaining the desired velocity, and over coming the pipeline / bend's friction and helps to restart the flow of blocked material if any along the conveying line regardless of length. These Coupling Unit also helps in minimizing the compressed air consumption and pipe abrasion.

Lean Phase system

Lean Phase system works on low air pressure, herein material is conveyed in suspension in the flowing air. To keep the material in suspension in the pipeline it is necessary to maintain a minimum value of conveying line inlet air velocity that, for most materials, is of the order of 13–15 m/s

We also manufacture and supply air pollution control system and ventilation system with following product range

Air Pollution Control Equipment

Pulse Jet Bag Filter

We have supplied bag filter (dust collectors) on various application like Crusher and Screen house, bunker house, coal handling plant in Thermal Power Plant, Induction furnaces, banburry Mixture, various Furnaces, sponge iron plants, Rice mill, cement plants etc. We have so many installation of bag filters and few of them has range from 60000 to 1,00,000m³/hr cap. We have more than 100 bag filter installation power plants. We also take DE system including its ductings on turnkey basis.

In bag Filter, Dust Laden air enters the dust collector through the hopper or high -entry inlet housing section an internal baffle distributes the dirty air within, the housing ,so as to reduce air velocity and allow heavier particles drop into hopper, while lighter particle collects on the outside surface of the bags

For operation of bag filters, suction hoods shall be connected to suction take off points. These suction take off points shall be connected to the main ducting by branch ducting and the other end of main ducting shall culminate into bag filters. The outlet of bag filter to inlet duct of blower and the same will exhaust clean air to atmosphere vide a stack.

Dust Suppression System

Plain Water System,

Dry Fog System

Sprinkling System

Dry Fog Canon

We offer Dust Suppression system for Stock Yard, Belt Conveyor line for power plant & other industries, Wagon Tippler, Belt transfer points, Reclaimer Hopper, Screen, crusher, etc.

We offer Plain Water system and the Dry Fog System also. Stock yard Sprinkling System etc - Sprinkling System is used for Sock Yard Area or Raw Material Storage Area.

Fog Canon For Dust Suppression System,

Fog canon is widely used in India and overseas for suppression of flying dust on various application, It is a rugged and very efficient system. Unlike other types of dust suppression, its efficiency is very high. In some of applications only and only Fog canon is very successful, particularly when it is an open area.

Fog canon is normally mounted on a trolley and it can be moved from one location to other location as it is on wheels. It is namely used for suppression of the flying dust very efficiently from a distance and also covers a very wide area. It throws the mist at a distance of 30m, 50m, 70m, 100m. It is widely used in irrigation and industrial purpose.

Ventilation And Cooling Systems

We are leading manufacturer of various types of ventilation system. We have executed a no Ventilation Systems projects in power plants etc and these have already been running successfully. Ventilation system has been supplied to APSEB, RSEB Prakash Industries Ltd, Usha Martin etc and few more plants Thermal Power Plant Projects of 25MW to 660 MW cap.

Air Washers,

We are leading manufacturer and exporter of Air washers. The products which come under this category are Evaporative Air Cooling- Single Skin and Evaporative Air Cooling- Double Skin.

We offer superior quality, Industrial Air Washer Unit that work on the principle of cooling the air by passing it over water-saturated pads, water evaporates and results in cooling of air. The cool air is then directed into the ventilated area. Air Washer System with cellulose paper pads, specially treated fluid media capable of absorbing and retaining water to provide the maximum cooling efficiencies. The cooling pad is cross-corrugated to maximize the mixing of air and water and eliminate water carryover.

Air Washer are available from 2000 m³/hr to 3,00,000 m³/hr capacity and can be supplied for various applications namely, MCC rooms, ventilation for works, tunnel ventilation, ventilation for basement, crusher house, exhaust fan system, ventilation system for complete thermal power station Etc.

Roof Extractors, Turbo Ventilators And Axial Fan,

Rood extractors with no power or motorless turbo-ventilator is being supplied by us in SS/AL configuration. Axial fan / Motorized Rood extractors of various capacity is also being manufactured by us.



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