

ENVIRO INTERNATIONAL CORPORATION

MANUFACTURER OF BELT CONVEYORS AND PNEUMATIC CONVEYING SYSTEM

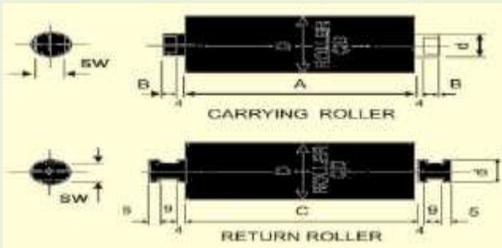
EIC belt conveyors are designed to suit the adverse working conditions and as per customers requirements. Featured with long working life, They require less maintenance and are user friendly.

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).



Other material handling equipment

Belt conveyor spares like Idlers, pulleys, belts, etc.

Chain Conveyors, Screw Conveyors,

Bucket elevators, Air Slide

Complete turnkey project of belt Conveyors

Coal Handling Plant

Raw Material Handling Systems

Rice Husk Material Feeding system, etc

Complete crushing and screening system, etc



Air & Materials handling Equipment

ENVIRO INTERNATIONAL CORPORATION

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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. 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. 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. These Coupling Unit also helps in minimizing the compressed air consumption and pipe abrasion.

LEAN PHASE CONVEYING 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. Lean Phase system is used in rice husk conveying, rice husk ash conveying, grains conveying, etc etc. In it Root blower or fans are used at high pressure and collects the material from various discharge points and conveys the material through pipes and bends to a storage silo, wherein material is stored and discharge further to ground or to a truck for further disposal.

A vent filter is put up at the top of Silo, through which air is discharged to atmosphere after cleaning.

