

# Pipe Conveyor Systems

## Environmentally Safe Conveying

Excellence in Technology



**ThyssenKrupp Robins**



**ThyssenKrupp**

## Pipe Conveyors:

### Solutions to Problems with Troughed Conveyor Applications



**THIS PAGE:**

**Left:**

A Pipe Conveyor is trained open into a conventional troughed shape as it enters the offloading point.

**Right:**

A Pipe Conveyor carrying coal to a power plant.

**NEXT PAGE:**

**Left :**

Use of a Pipe Conveyor in an environmentally sensitive recreational area to carry coal from the mine to the rail loadout station.

**Right:**

A Pipe Conveyor designed to carry coal from the port to a power plant through an industrialized area.



The Pipe Conveyor is a modern conveying system solving problems that can be encountered with conventional conveyors.

#### Best of Both Worlds

The “Pipe Conveyor” is designed to solve problems where spillage of materials, and conveying through congested areas prevents the use of conventional conveying systems.

At the loading point, the Pipe Conveyor is open in a conventional troughed form, after which it is formed into a pipe shape for the transport length. This completely encloses the material within the “pipe”.

At the end of the Pipe Conveyor, and just before the discharge pulley, the belt again opens to allow the conveyed material to be discharged in a normal fashion.

Horizontal, vertical and compound curves can be accomplished with the Pipe Conveyor that are impossible to follow with conventional troughed belt conveyors.

This system of self-enclosed conveying is particularly useful where temperatures, moisture, or contamination of product are a concern. Further, with all materials completely enclosed within the rolled belt, the risks of pollution, environmental damage, and dust are minimized.



### Benefits of a Pipe Conveyor

- (1) Completely enclosed and dust free transport of material.
- (2) No spillage or scattering of material from the loaded belt.
- (3) No dropping of material from the return belt.
- (4) Conveyor can be curved both horizontally and vertically.
- (5) Conveyor can rise at steep angles.
- (6) Return belt can also be used to convey material.

### Working with the Environment

The Pipe Conveyor is the ideal solution to overland haulage where use of conventional conveyors in remote or difficult terrain would create the potential for spillage and environmental

damage. Pipe Conveyors protect the material being transported and prevent access to the material from outside sources. This enclosed method of transportation protects the surrounding environment and minimizes the need for dust and pollution suppression systems, especially in remote or difficult terrain.

A further concern in today's heavily populated and industrialized areas is the problem of safely negotiating obstacles such as buildings, roads, and heavy equipment areas. Pipe Conveyors are ideally suited to situations where transport by conventional conveyor systems would prove too hazardous or costly due to environmental or community-based concerns.

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