

# PIPE CONVEYOR



## Our Other Business Divisions



AVIATION



ENERGY



MARINE



MINERAL PROCESSNG



STEEL

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## PIPE CONVEYOR / TUBE CONVEYOR

We at FRIGATE have the in house capabilities to design, manufacture and supply of Complete Tube / Pipe Conveyor Systems. Application of Pipe conveyors is utilised in almost all the core industries like Steel, Cement, Coal handling, Iron Ore Crushing Plant etc. In a Tube Conveyor, at the loading and discharging points, the conveyor system is identical with open troughed conveyors. The difference starts after the loading point, where the belt transforms into a tubular shape by special idler arrangements over a certain distance and finally is led through idler panels with hexagonal cut outs and offset idler arrangement. At the discharging point, the belt opens automatically after the final idler panel and transfers the material to its next destination. Due to its tubular shape, the conveyor is able to travel in horizontal and vertical curves as well as high inclinations. The enclosed transportation system not only protects the conveyed material against external influences such as climatic conditions, it also avoids material loss and spillage and thus, protects the environment. The Tube Conveyor also meets special requirements such as simultaneous material transport in the upper and lower strand and downhill transport with power-regeneration.

### **Technical Aspects:**

Tube diameters between 150 and 650 mm

Centre distance up to 10 km

Curve radius: 300 x diameter for fabric belts, 600 x diameter for steel wire belts

Angles of inclination up to 30° depending on the material to be conveyed

**Advantages:**

Protection of the conveyed material against external influences

Protection of the environment against escaping material by dustfree transport

Possibility of tight curve radii

Realization of steep inclination

Low space requirements

No need for transfer towers

Adaptation ability to topographic requirements

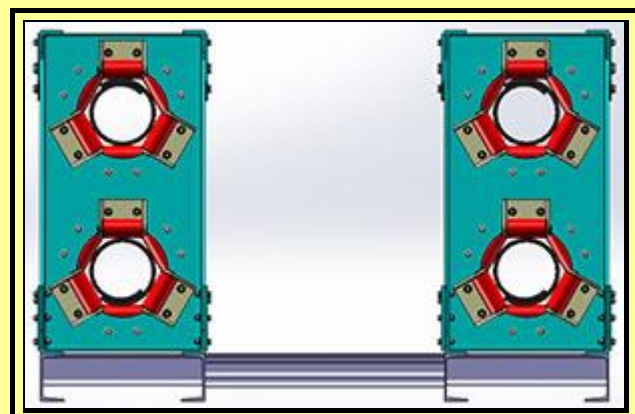
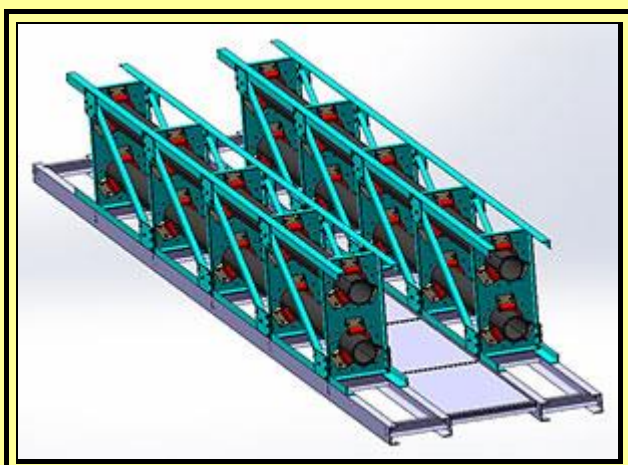
Possibility of downhill transportation

Simultaneous double load transport of different kinds of material in the upper and lower strand

Low investment costs

Low maintenance costs

High operational safety







## Who We Are

Frigate Teknologies is a diversified global conglomerate providing integrated services for various core sectors.

### Services

1. EPC Contracts
2. Design & Engineering Services
3. Consultancy Services
4. Project Management

### Industries Served

1. Cement
2. Mineral Processing
3. Energy
4. Marine
5. Steel
6. Aviation

In very simple words, we offer one-stop solution from **CONCEPT to COMMISSIONING**

## Our Values – Our Vision – Our Mission Statement

Values	Vision	Mission
<p>To realize our vision and mission, we always turn to the corporate values that we hold dear. We will live and deliver these values with uncompromising commitment to safety and sustainability.</p> <p><b>Performance - Passion - Team Work - Agility - Reliability</b></p>	<p>We will deliver reliable, high-quality solutions for global infrastructure, always ensuring that integrity, safety and sustainability are at the heart of everything we do.</p>	<p>To be among the top ten EPC companies in the segments and markets we serve by 2025</p>

## What sets us apart

ISO 9001 – 2008 Certification



In-House Design Setup

Compliance to International Design & Safety Norms



Compliant to International Project & Contract Management Standards





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A few critical technologies are offered in collaboration with European OEMs.