

Industrial Belt Conveyor System

Belt conveyors link production equipment to ensure continuous and automated processes. They are used to transport loose materials or finished items in industries like crushing, handling ores such as limestone, dolomite, and gypsum.



Overview

High-Efficiency Industrial Conveying

This industrial belt conveyor system serves as a vital link in production lines, ensuring continuous automation for material handling. Specifically designed for the crushing and mining industries, it efficiently transports loose materials and finished items across various terrains. The system is engineered for high adaptability, supporting both horizontal and inclined layouts to meet diverse operational requirements.

Technical Capabilities

Operating Conditions

- Ambient temperature range: -20°C to +60°C
- Maximum material temperature: 50°C
- Supports single or multi-unit configurations
- Horizontal or inclined transport systems

Suitable Materials

Limestone, Calcite, Dolomite, Barite, Talc, Calcium Carbonate, Gypsum, Bentonite, Glass

Design & Construction

System Components

- High-quality steel fuselage
- Heavy-duty conveyor belt
- Belt rollers and idlers
- Tensioning device
- Transmission device (Reduction motor or Electric drum)

Anti-Slip Design

To prevent slippage between specific materials and the belt, a 'herringbone' pattern belt option is available to enhance operational stability and grip.

Technical Specifications

System Performance

Belt Width (mm)	Belt Speed (m/s)	Capacity (t/h)
400	1.3 - 1.6	30 - 60
500	1.3 - 1.6	40 - 80
650	1.3 - 1.6	50 - 100
800	1.3 - 1.6	80 - 180
1000	1.3 - 2.0	150 - 300
1200	1.3 - 2.0	200 - 400
1400	1.3 - 2.0	300 - 600

Power Rating Range

1.5 kW

Minimum Power

45 kW

Maximum Power

Belt Width Options

B400, B500, B650, B800, B1000, B1200, B1400

Safety & Compliance

Safety Features

- Emergency stop mechanisms
- Belt alignment sensors
- Protective guards

Project Applications



Real-world application of the conveyor system in a large-scale mining operation.

Target Industries

Mining • Aggregate Processing • Construction Materials • Industrial Automation