Henan Excellent Machinery Co., Ltd, specializing in belt conveyor equipment, mainly manufactures Belt conveyors, Pipe conveyor, Air supported belt conveyor, Corrugated Sidewall belt conveyor.

EXCT occupies an area about 330,000 square meters, there are casting, rivet welding, metal-processing, assembly, heat treatment and other workshops, with oversized modern processing equipment and more than 80 large and medium-sized general equipment. All products adopt national standards and can be widely used in coal, mining, metallurgy, chemical, port, power, construction and transportation industries.

Our products sell well in more than 20 provinces across the China, and are exported to South America, Australia, Malaysia, South Africa and other international transportation markets, and enjoy good reputation among customers.
Belt Conveyor Structure

The main components of the belt conveyor are conveyor belt, idler and intermediate frame, pulley, driving device, tensioning device, brake device, cleaning device, protection device and unloading device.

Belt Conveyor Advantage

1. The conveyor belt can be made of PVC whole core flame retardant tape, large belt tension, to prevent the sudden stop, and the drive device is equipped with backstop and brake.
2. According to the conveyance process requirements, the conveyance system can be made up of single conveyance or multiple conveyors or horizontal or inclined conveyance system with other conveyance equipment to meet the needs of operation lines of different layout types.
3. Large conveying capability, simple structure, convenient maintenance, and high optimized for general use.
4. It can transport various loose materials and finished goods with a loose density of 0.5-2.5t/m3.
5. Compared with other conveyors, it has less noise and is suitable for occasions where the working environment is relatively quiet.
6. Optional moving selection of belt velocity (0.8m/s~4.0m/s). Work stably with less belt deviation and materials spillage.

WHY Choose Exct Belt conveyor

Conveyor belt

- Polyester canvas, nylon canvas and steel rope as the skeleton.
- Good impact resistance and high anti-tearing strength of conveyor belt.
- The conveyor belt is resistant to fatigue and impact.
- The conveyor belt is resistant to fatigue and impact.
Driving device
- Brand of driving device can choose on your request.
- International brands like SEW, ABB, SUMITOMO, SIEMENS.
- China brand like Yutong, Tailong, Guomao, Taixing, Nangaochi.
- Powerful enclosed and compact efficient motor drive
- Shaft mounted and underslung gearbox reducer.
- Optimization YOX & YOT constant filling hydrodynamic coupling.
- Good balance and strong braking force Brake.

Pulley
- High coefficient of surface friction;
- Automatic welding machine of outer ring seam of pulley;
- For big environment humidity and long distance belt conveyor;
- New technology of Pillow block ball bearing;
- Hydraulumatic symmetric three-roll bending machine;
- Pulley inner ring seam automatic welding machine.

Idler
- Supply the various sizes of steel rollers to meet customers’ require.
- Automatic simultaneous welding, CNC milling of bearing housings.
- Adopt precision deep-groove ball bearing of international brand.
- Uniquely labyrinth seals design for definitely water/dust proof.
- Low total indicated runout (T.I.R.), Less vibration.
- Making sure long lifetime operation.

Protection device
- Aluminum alloy housing, strong impact resistance.
- Good sealing, dustproof, waterproof, anti-condensation.
- Sensitive operation, reliable performance.
- Plastic wire rope moisture, acid, flame retardant.
- Prevent cable joints damp and virtual.
- Automatically warning sign.
Conveyor cover

- Easy and safe of operation at conveying systems.
- Self-supporting hood-bracket system.
- Easy opening, latching and closing on both sides.
- Additional attachment components are not necessary.
- Cost-effective special solutions are possible.
- Problem-free connection to junction plates or facing.

## Belt Conveyor Specifications

<table>
<thead>
<tr>
<th>Belt width (mm)</th>
<th>Belt speed (m/s)</th>
<th>Capacity (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.8</td>
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<tr>
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</tr>
<tr>
<td>2400</td>
<td>8289</td>
<td>10526</td>
</tr>
</tbody>
</table>

Remark: Capacity is calculated by material horizontal conveying, 20° Operating stacking Angle, 35° roller groove Angle.

## Belt Conveyor Application Industry

Belt conveyor is widely used in metallurgy, mining, coal, power station, building materials and other industries, used in bulk material transport.
Belt Conveyor Application Material

- Cement plant
- Mining
- Chemical
- Metallurgy
- Port
- Power plants

Materials:
- Cement
- Grain
- Gravel
- Coal
- Fertilizer
- Sand
- Iron ore
- Wood chips
- Carbon black
Manufacturing Facilities

ROLLER WORKSHOP PROCESSING EQUIPMENTS

- Automatic Chamfering Cutting Machine for Steel Pipe
- Automatic CO2 Gas Shielded Dual-Torch Welding Machine
- Double End Automatic Hole Machine Tool for Steel Pipe
- Automatic Machine Tool for Conveyor Roller Press Assembly
- Roller Automatic Painting Production Line
- Roller Automatic Painting Production Line 1
- Roller Automatic Painting Production Line 2

PULLEY WORKSHOP PROCESSING EQUIPMENTS

- CNC Flame Plasma Cutting Machine
- Hydraulic Symmetric Three-Roll Bending Machine
- CNC Coiling Machine
- Automatic Welding Machine of Outer Ring Seam of Pulley
- Pulley Inner Ring Seam Automatic Welding Machine
- Heavy Duty Lathe
MACHINING WORKSHOP PROCESSING EQUIPMENTS

CNC FLOOR MILLING AND BORING MACHINE
CNC TURRET PUNCH PRESS
CNC HIGH SPEED GANTRY MOVING FLANGE DRILLING MACHINE
ROCKER DRILL AREA
LATHE WORK AREA
CNC PLANER HORIZONTAL MILLING AND BORING MACHINE

RIVETING WORKSHOP PROCESSING EQUIPMENTS

CNC BENDING MACHINE
CNC FLAME PLASMA CUTTING MACHINE
LASER CUTTING MACHINE-1
LASER CUTTING MACHINE-2
TRACK AUTOMATIC WELDING MACHINE
PLATE SHEARING MACHINE
PROFILES STEEL CUT-OFF MACHINE
WELDING ROBOT
RADIAL DRILLING MACHINE
WELDING AREA
Belt Conveyor for Guodian Datong Second Power Plant

Project Name: Guodian Datong Second Power Plant Belt Conveyor System
Equipment: Belt Conveyor
Material: Coal
Capacity: 3800 t/h
Belt Width: 1800 mm
Belt Speed: 3.26 m/s
Application Area: Power Plant
Country/Region: China
Project Time: October 2010
Customer Name: Guodian Datong Second Power Plant

The belt conveyor of Datong Phase III Expansion Project is designed and manufactured by EXCT Co., Ltd. During the operation, the belt does not run off, no leakage, runs smoothly, no noise, which providing a continuous supply of clean coal source.

DTIIA Belt Conveyor for Fujian Zijinshan Gold and Copper Mine Project
Project Name: Fujian Zijinshan Gold and Copper Mine Belt Conveyor Project
Equipment: Belt Conveyor  Material: Auricupride  Capacity: 2000 t/h
Belt Width: 1300 mm  Belt Speed: 2.0 m/s  Application Area: Copper Mine
Country/Region: China  Project Time: October 2011  Customer Name: Fujian Zijin Mining

Zijin Mining Group Co., Ltd. is a large-scale mining group mainly engaged in the exploration and development of metal mineral resources such as gold, copper and zinc. The mining area is located in Shanghang County and covers an area of about 30 square kilometers.

The driving power of the DTL belt conveyor designed by EXCT is 110kw, the inclination angle is 0~6.45°, and the maximum lifting height is 19.7m. It adopts frequency conversion to change speed and hydraulic tensioning. Reasonable structure is, low resistance coefficient, large carrying capacity, matched with the electric control and protection device, thus the automatic operation can be realized.

The Fixed Belt Conveyor for Dandong Port 200,000-ton Ore Berth Project

Project Name: 200,000-ton ore berth project of Dandong Port Dadong Port
Equipment: Fixed Belt Conveyor  Material: Coal ore  Capacity: 9000 t/h
Belt Width: 1800 mm  Belt Speed: 4 m/s  Application Area: Wharf
Country/Region: China  Project Time: October 2013  Customer Name: Dandong Port Group Co., Ltd.

The 200,000-ton ore berth project of Dandong Port Dadong Port Area is located in offshore deepwater operation area of Dandong Port Dadong Port Area. The wharf is arranged in the natural deep groove 15m water depth offshore. Dandong Port Group Co., Ltd. decided to invest in the construction of 200,000-ton ore terminal heating project in the wharf of 200,000-ton ore berth project of Dandong Port Dadong Port Area.

The project has a large volume of transportation. In order to effectively ensure the non-leakage transmission of coal ore, solving the problem of heating in berths, also protecting the surrounding ecological environment, Dandong Port Group Co., Ltd. finally chose Henan Excellent Machinery Co., Ltd. This fixed belt conveyor has a processing capacity of 9000t/h, belt width of 1800mm, belt speed of 4m/s, it is the maximum bandwidth, and maximum power. It can receive multi-point loading and create the first single contract amount.
EXCT committed to be the best supplier in the world