

## Climbing belt conveyor

### Introduction of Climbing belt conveyor

A **Climbing Belt Conveyor** is a specialized conveyor system designed to transport materials at an incline or decline. It is widely used in industries such as manufacturing, mining, agriculture, logistics, and packaging. This type of conveyor enhances efficiency by moving bulk or packaged goods across different elevation levels smoothly and securely.



17 years



**Recommend**

### Applicable material range of Climbing belt conveyor

Raw material



## Key Features of the Climbing belt conveyor

### 1. Inclined or Declined Transport

- Allows smooth movement of materials at various angles.
- Adjustable incline angles to meet different application needs.

### 2. High-Performance Belt Material

- Available in **rubber, PVC, or PU** for durability and adaptability.
- Anti-slip properties for secure material transport.

### 3. Modular Design & Customization

- Can be customized with **side guards, cleats, and rollers**.
- Available in different belt widths and conveyor lengths.

### 4. Energy Efficient & Cost-Effective

- Reduces manual handling and increases automation.
- Low maintenance requirements.





**Technical Parameters of the belt conveyor ( General purpose belt conveyor)**

Section form	Belt speed (m/s)	Belt width(mm)					
		500	650	800	1000	1200	1400
		G(t/h)					
Groove type	0.8	78	131				
	1.0	97	169	278	435	655	891
	1.3	122	206	348	544	819	1115
	1.6	156	264	445	696	1048	1427
	2.0	191	323	546	853	1284	1748
	2.5	232	391	661	1033	1556	2118
	3.2			824	1233	1858	2528
	4.0					2202	2996
Flat type	0.8	41	67	118			
	1.0	52	88	147	230	345	469
	1.3	66	110	184	288	432	588
	1.6	84	142	236	368	553	756
	2.0	103	174	289	451	677	922
	2.5	125	211	350	546	821	111

Note: The conveying capacity is calculated under the conditions of material bulk density 1t/m<sup>3</sup>, conveying inclination 0°~7°, and material accumulation angle 30°.

length(m)		15	30	45	60	100	150	200	300
Belt Width (mm)	500	1	1.3	1.7	2	3.2	4.6	8	11.5
	650	1.3	1.9	2.4	2.8	4.6	9.2	11.5	16
	800	1.9	2.9	3.6	4.3	9.7	14	17.5	24.3

Note: The above power estimation conditions are calculated under ideal conditions of normal humidity, horizontal belt speed of 1m/s, material capacity of 1t/m<sup>3</sup>, and material stacking angle of 30°. In general, the power used should be about 30% more than the power in the table. If other devices are added, the power should be increased and calculated more heavily.

### Application of the belt conveyor