

**QUALITY AS THE FOUNDATION
INTEGRITY AS THE PRINCIPLE.**



GUANKEY CONVEYORS AND ACCESSORIES CATALOG

Professional manufacturer of conveyor series products

en.guankeymining.com



SHANXI GUANGKAI MACHINERY TECHNOLOGY CO., LTD.

Baiquan Industrial Park, Suburb of Yangquan City,
Shanxi Province

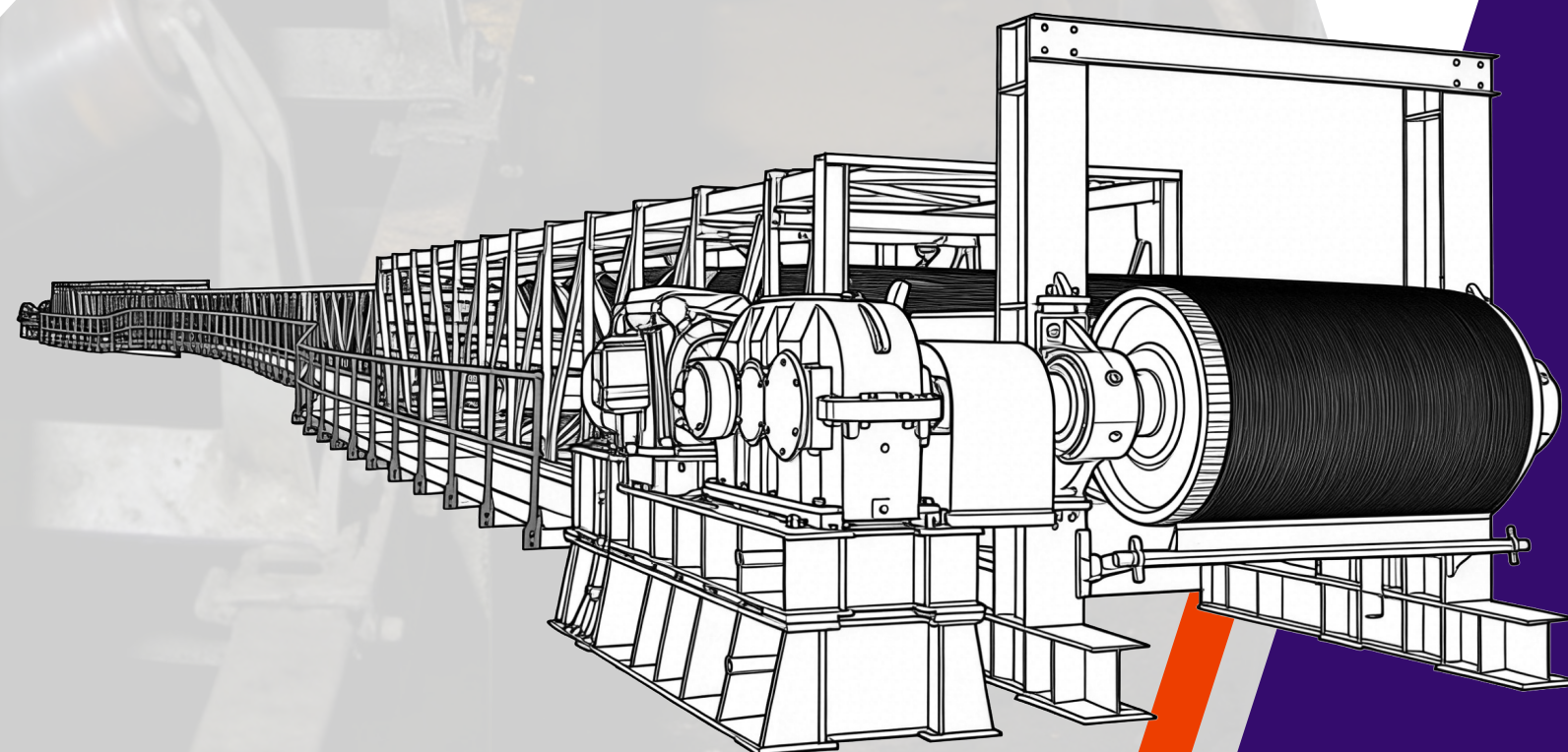
Email
YQGK2012@163.com

Tel
4001032690 / 0353-5030222

Mobile
+8613935358852



WeChat Official Account

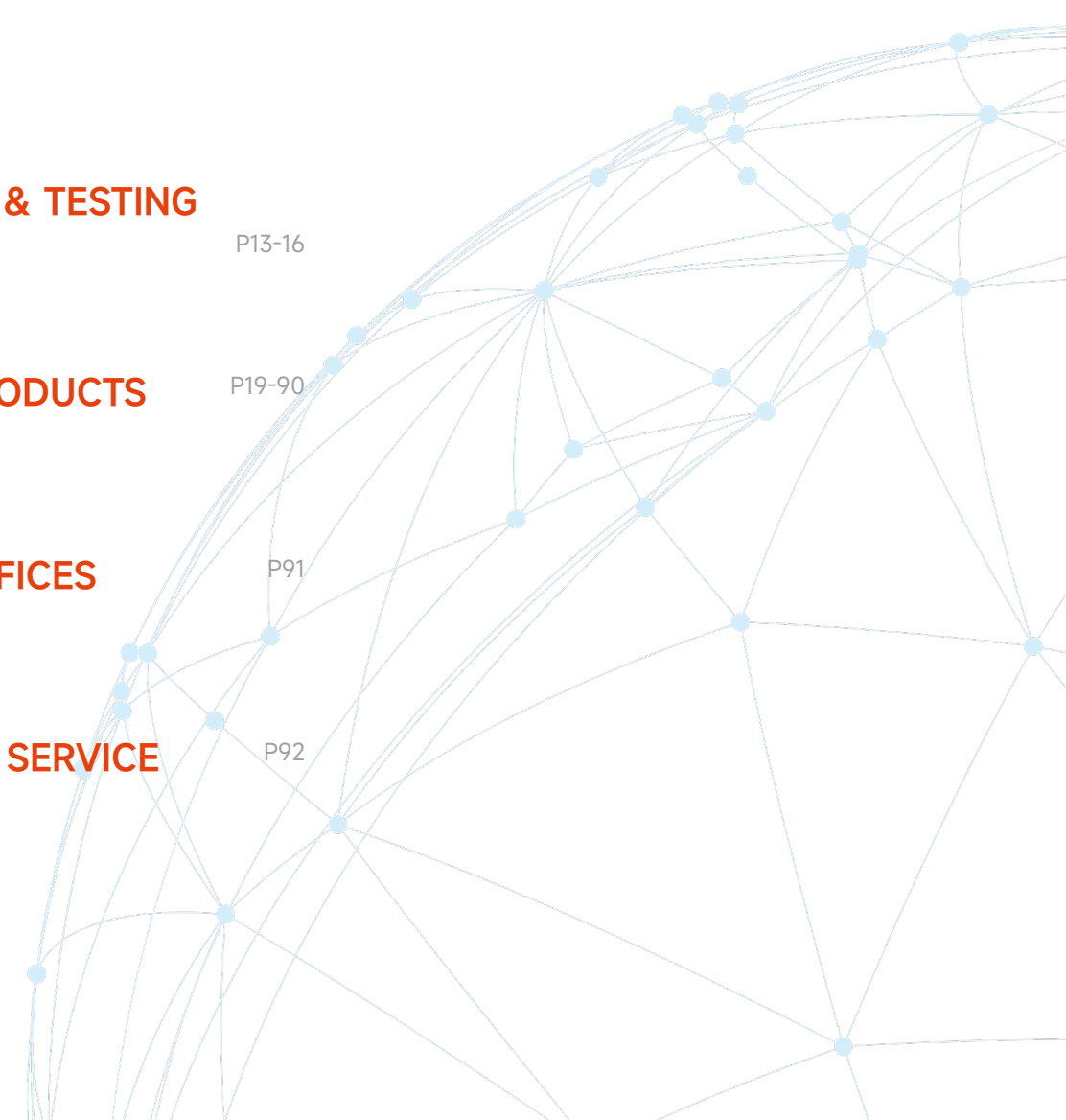




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ABOUT COMPANY

Founded in

2007



Standard factory building

35000 m²

Employees

200 +

Advanced production equipment

200 +

Company Scale and Hardware Strength

- Factory Area and Team:** The company covers an area of 155 mu (approximately 10 hectares) and has 35,000 square meters of standard factory buildings; it currently has over 200 employees, including 30 professional technicians and 11 senior managers.
- Production Equipment:** Equipped with over 200 sets of advanced production equipment, including over 50 sets of core equipment such as automated CNC production lines and vacuum heat treatment equipment.
- Business Performance:** Annual operating revenue reaches over 300 million RMB, with products covering more than 30 mining areas and over 200 coal mines nationwide.

Core Product System

The company's products focus on the mining field, mainly including:

- Conveyor series products:** Long-distance curved belt conveyors, pipe belt conveyors, TD75 belt conveyors, DT II belt conveyors, DT II (A) belt conveyors, DJ steeply inclined corrugated sidewall belt conveyors, DJ II steeply inclined corrugated sidewall belt conveyors, mobile conveyors, extendable belt conveyors, fixed belt conveyors, mine shaft steeply inclined conveyors and other belt conveyor products. Conveyor accessories: idlers, idler sets, side rollers, pulleys, scrapers, cleaning boxes, protection switches, impact beds, automatic belt tracking devices, etc.

**Quality First Integrity Foremost,
Technological Innovation Pursuit of Excellence**

Shanxi Guangkai Machinery Technology Co., Ltd.

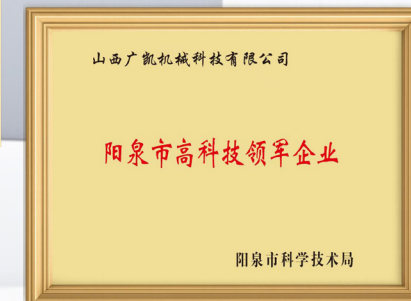
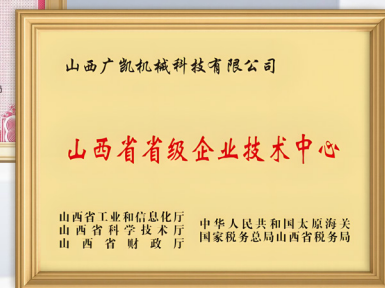
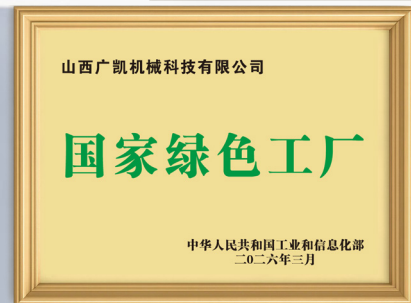
Shanxi Guangkai Machinery Technology Co., Ltd., founded in 2007, is located in Baiquan Industrial Park, Yangquan City, Shanxi Province, the largest anthracite coal production base in China. We are a professional manufacturer of mining support equipment, drilling tools, and conveyor systems.



COMPANY HONORS

Enterprise Certification

- High-tech Enterprise
- Specialized and innovative enterprises
- Shanxi Provincial Enterprise Technology Center
- National Green Factory
- Shanxi Provincial Postdoctoral Innovation Station
- Yangquan City's leading high-tech enterprises
- Yangquan City Science and Technology Achievement Transformation Demonstration Enterprise
- Member of the Belt Conveyor Branch of China Heavy Machinery Industry Association
- Internship and Training Base





Enterprise Credit Rating Certificate

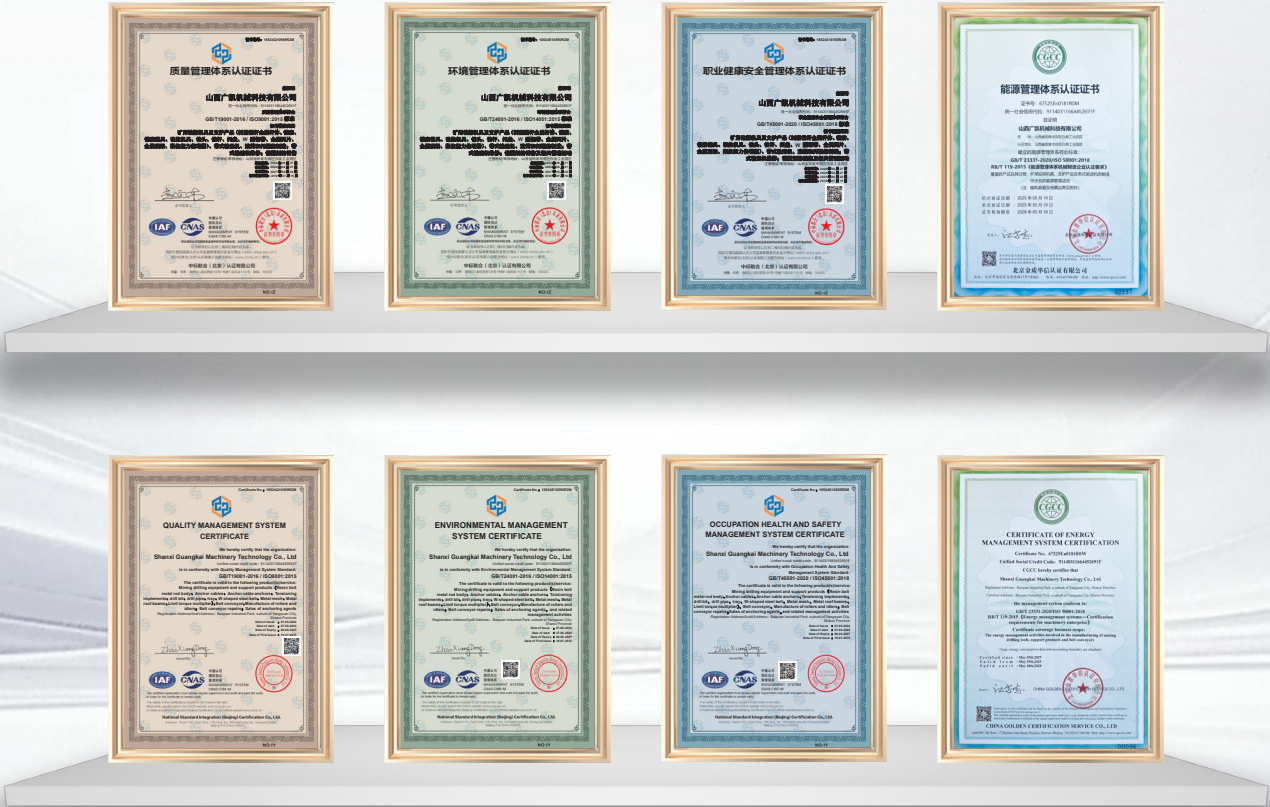
3A Integrity Supplier	3A Integrity Management Demonstration Enterprise	3A Service-Focused and Trustworthy Enterprise
3A Quality-Focused and Trustworthy Enterprise	Enterprise Credit Rating Certificate	Enterprise Credit Rating Certificate
After-Sales Service Integrity Demonstration Enterprise	Quality and Service Integrity Enterprise	Contract-Abiding and Trustworthy Enterprise



CERTIFICATION

Management System Certification

- Certified with ISO 9001 Quality Management System, Environmental Management System, Occupational Health and Safety Management System, and Energy Management System.



MINING PRODUCT SAFETY MARK CERTIFICATE -- CONVEYOR DSJ

Safety Label Number	Product Name	Product Model
MCA243244	Belt conveyor	DSJ80/40/55
MCA243263	Belt conveyor	DSJ80/40/55(A)
MCA243239	Belt conveyor	DSJ80/40/75
MCA243250	Belt conveyor	DSJ80/40/75(A)
MCA231960	Belt conveyor	DSJ80/40/2X40
MCA231950	Belt conveyor	DSJ80/40/2X55
MCA243245	Belt conveyor	DSJ80/40/2X75
MCA243268	Belt conveyor	DSJ80/40/2X90
MCA243259	Belt conveyor	DSJ80/40/2X90(A)
MCA243252	Belt conveyor	DSJ80/40/110
MCA243237	Belt conveyor	DSJ100/80/2X90
MCA243249	Belt conveyor	DSJ100/80/2X200
MCA243241	Belt conveyor	DSJ100/80/2X250
MCA243261	Belt conveyor	DSJ100/80/2X250(A)
MCA243247	Belt conveyor	DSJ120/150/2X200

Safety Label Number	Product Name	Product Model
MCA243258	Belt conveyor	DSJ120/150/2X250
MCA243254	Belt conveyor	DSJ120/150/2X250(A)
MCA243236	Belt conveyor	DSJ120/180/2X315
MCA243251	Belt conveyor	DSJ120/180/2X315(A)
MCA243256	Belt conveyor	DSJ120/180/3X250
MCA243246	Belt conveyor	DSJ120/180/3X250(A)
MCA243242	Belt conveyor	DSJ120/180/3X315
MCA243253	Belt conveyor	DSJ120/180/3X315(A)
MCA243262	Belt conveyor	DSJ120/200/2X400
MCA243260	Belt conveyor	DSJ120/200/2X450
MCA243235	Belt conveyor	DSJ120/200/2X500
MCA243265	Belt conveyor	DSJ120/200/2X560
MCA231953	Belt conveyor	DSJ120/200/3X400
MCA243257	Belt conveyor	DSJ120/200/3X450
MCA243266	Belt conveyor	DSJ120/200/3X500
MCA243238	Belt conveyor	DSJ120/220/2X630
MCA243264	Belt conveyor	DSJ120/220/3X630
MCA250706	Belt conveyor	DSJ120/4X500(A)
MCA243270	Belt conveyor	DSJ140/150/2X355

(Continued from previous table)

Safety Label Number	Product Name	Product Model
MCA243278	Belt conveyor	DSJ140/200/2X400
MCA243273	Belt conveyor	DSJ140/200/2X450
MCA243286	Belt conveyor	DSJ140/200/2X500
MCA243310	Belt conveyor	DSJ140/250/2X560
MCA243292	Belt conveyor	DSJ140/250/2X630
MCA243280	Belt conveyor	DSJ140/250/3X400
MCA243301	Belt conveyor	DSJ140/250/3X450
MCA243299	Belt conveyor	DSJ140/250/3X450(A)
MCA243282	Belt conveyor	DSJ140/300/2X800
MCA231959	Belt conveyor	DSJ140/330/3X500S
MCA243305	Belt conveyor	DSJ140/350/3X500(A)
MCA243302	Belt conveyor	DSJ140/350/3X560
MCA243274	Belt conveyor	DSJ140/350/3X630
MCA243289	Belt conveyor	DSJ140/350/3X710
MCA243290	Belt conveyor	DSJ140/350/3X800
MCA243275	Belt conveyor	DSJ140/350/4X500
MCA231949	Belt conveyor	DSJ160/400/3X500
MCA231962	Belt conveyor	DSJ180/450/3X1000

MINING PRODUCT SAFETY MARK CERTIFICATE -- CONVEYOR DTL

Safety Label Number	Product Name	Product Model
MCA231954	Belt conveyor	DTL65/20/30S(A)
MCA231956	Belt conveyor	DTL80/30/2X110S
MCA243291	Belt conveyor	DTL80/40/2X132
MCA243285	Belt conveyor	DTL80/40/2X160S
MCA243297	Belt conveyor	DTL80/40/2X90
MCA242315	Belt conveyor	DTL100/30/75(A)
MCA243288	Belt conveyor	DTL100/80/2X110
MCA231955	Belt conveyor	DTL100/80/2X160
MCA243306	Belt conveyor	DTL100/100/2X200
MCA243272	Belt conveyor	DTL100/100/2X250
MCA243296	Belt conveyor	DTL100/100/2X315
MCA243276	Belt conveyor	DTL120/120/2X160
MCA243303	Belt conveyor	DTL120/150/2X200
MCA243308	Belt conveyor	DTL120/150/2X250
MCA243294	Belt conveyor	DTL120/180/2X400
MCA243277	Belt conveyor	DTL120/180/3X450
MCA243309	Belt conveyor	DTL120/180/3X500

(Continued from previous table)

Safety Label Number	Product Name	Product Model
MCA231952	Belt conveyor	DTL120/200/3X315
MCA243271	Belt conveyor	DTL120/220/3X630
MCA243298	Belt conveyor	DTL120/220/3X710S
MCA243295	Belt conveyor	DTL140/200/2X315
MCA243284	Belt conveyor	DTL140/250/2X400
MCA243304	Belt conveyor	DTL140/250/2X500
MCA243279	Belt conveyor	DTL140/250/3X560
MCA231964	Belt conveyor	DTL140/250/3X630S
MCA243283	Belt conveyor	DTL140/300/3X710
MCA243293	Belt conveyor	DTL160/300/3X500
MCA243281	Belt conveyor	DTL160/300/3X630
MCA243287	Belt conveyor	DTL160/350/3X800
MCA243300	Belt conveyor	DTL160/400/3X1000
MCA243307	Belt conveyor	DTL160/400/4X1600
MCA231965	Belt conveyor	DTL160/450/3X900S
MCA231951	Belt conveyor	DTL180/450/3X1000
MCA231957	Belt conveyor	DTL200/550/3X1600S
MCA231961	Belt conveyor	DTL220/700/3X1600S
MCA231963	Belt conveyor	DTL240/350/90

MINING PRODUCT SAFETY MARK CERTIFICATE -- BUFFER ROLLERS

Safety Label Number	Product Name	Product Model
MCA212098	Buffer Rollers	φ89
MCA212093	Buffer Rollers	φ108
MCA212102	Buffer Rollers	φ133
MCA212094	Buffer Rollers	φ159
MCA212100	Buffer Rollers	φ194
MCA212095	Buffer Rollers	φ219

-- IDLER ROLLERS

Safety Label Number	Product Name	Product Model
MCA212099	Idler Rollers	φ89
MCA212097	Idler Rollers	φ108
MCA212101	Idler Rollers	φ133
MCA212091	Idler Rollers	φ159
MCA212096	Idler Rollers	φ194
MCA212092	Idler Rollers	φ219

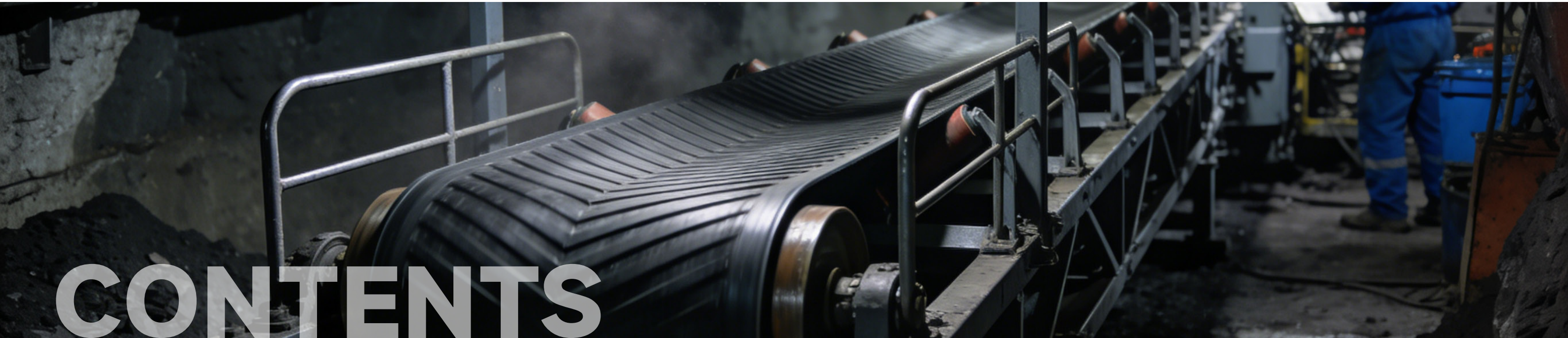
PRODUCTION EQUIPMENT

No.	Asset Name	Specification Model	Quantity
1	High-speed Fiber Laser Cutting Machine	G6025S30	1
2	High-speed Metal Circular Sawing Machine	CXGF-70, 2-axis	1
3	Pipe Cutting Machine	CQ160D-Z	1
4	Pipe Shearing Machine	SD-160 Φ159	1
5	Hydraulic Plate Shearing Machine	QC11Y-20X2500	1
6	Built-in Air Pump Plasma Cutting Machine	LGK-120	1
7	Band Sawing Machine	QU230	1
8	CNC Metal Band Sawing Machine	GZ4240	1
9	Plate Shearing Machine	300*20	1
10	CNC Plasma Cutting Machine	KM-1830	1
11	Plasma Arc Cutting Machine	LGK-200	1
12	Magnetic Pipe Cutting Machine	Plasma & Flame Dual-purpose CG2-11	1
13	Punching & Shearing Machine	Q35Y-25	1
14	Gantry Plasma Cutting Machine	KM-3*14	1
15	Automatic Cutting Machine Tool	M1-22	1
16	Automatic Welding Machine	-	1
17	Electric Welding Machine	BXI-500A-380V	5
18	Inverter-type CO2 Gas Shielded Welding Machine	NBC-500	1
19	Special Cylinder Welding Center Machine	CZ10-3*3	1
20	Welding Robot	AR1440	1
21	High-frequency Welding Machine	25KW	2
22	CNC Lathe	CK6136S/750	17
23	CNC Punching Machine	QBY-RO1602-1802/11KW/380V, Plunger Pump	1
24	Vertical Drilling Machine	Z5150A	3
25	Punch Press	J23-16T	1
26	Automatic Hydraulic Drilling Machine	φ50	1

No.	Asset Name	Specification Model	Quantity
27	Radial Drilling Machine	Z3063*20A	2
28	Boring Machine	T6113	1
29	Vertical Lathe	5225	1
30	Milling Machine	Beijing No.1 Machine Tool Plant, B1-400K-400*1600	2
31	Industrial Bench Drill	ZX7025	2
32	Automatic Double-column External Cylindrical Polishing Machine	HF-6	1
33	Round Pipe Polishing Machine	YQ- Fully Enclosed Custom Double-roller Type	1
34	Idler Pipe CNC Boring Machine	SGT-159 1	2
35	Automatic Double-milling Machine for Idlers	-	1
36	Idler Press-fitting CNC Machine	SGY-II	2
37	CNC Stirrup Bending Machine	25	1
38	Bearing Heater	Inner Diameter 40~400	1
39	Universal Milling Machine	X62	1
40	CNC Turn-milling Machine	GK5045	1
41	CNC Whirling Milling Machine	GK5045	2
42	Adjustable Speed Magnetic Drill Press	MQ32E/380V 50HZ	1
43	Adjustable Speed Magnetic Drill Press	J1C-49/380V 50HZ	1
44	CNC Bearing Press-fitting Machine	SGYZ-1	1
45	Idler Welding CNC Machine	SGSH-159 1	1
46	Special Machine for Idler Shaft Flat Milling & Slot Milling	SGB-1	1
47	CNC Machine for Idler Shaft Chamfering & Grooving	SZDT-1	1
48	Idler Shaft Double-head Drilling Machine	SGZ-1	1
49	Automatic Deburring Machine for Idler Shaft	SGQZ-1	1
50	Single-head Pneumatic Chamfering Machine	BC-180	1
51	Horizontal Press	100T	1
52	High-temperature Car-bottom Furnace	400020001200	1
53	Controlled Atmosphere Sealed Box-type Multi-purpose Furnace	RM-1200-JS	1
54	Mesh-belt Tempering Furnace	PCWA6-10-1000	1
55	Through-heating Furnace (Split Type)	KGPS-600/1.0	1
56	All-fiber Pusher-type Resistance Furnace	60005000200	1
57	All-fiber Car-bottom Tempering Furnace	1500100650	1
58	Through-type Shot Blasting Machine	2500*2500	1
59	Powder Coating Equipment	410114	1
60	Crawler-type Edge Polishing & Cleaning Machine	Q326	1
61	Packing Machine	-	1
62	Laser Marking Machine	-	1

QUALITY TESTING EQUIPMENT

No.	Measuring Instrument Name	Specification Model	Place of Origin
1	Idler Radial Run-out Test Bench	ZT-518	Qingdao Zhongbang Instruments Co., Ltd.
2	Idler Axial Displacement Measuring Instrument	ZT-516	Qingdao Zhongbang Instruments Co., Ltd.
3	Idler Axial Load Test Bench	ZT-513	Qingdao Zhongbang Instruments Co., Ltd.
4	Idler Rotation Resistance Test Bench	ZT-511	Qingdao Zhongbang Instruments Co., Ltd.
5	Idler Water Immersion Sealing Test Bench	ZT-512	Qingdao Zhongbang Instruments Co., Ltd.
6	Idler Service Life Test Bench	ZT-527	Qingdao Zhongbang Instruments Co., Ltd.
7	Idler Dustproof Performance Test Bench	ZT-515	Qingdao Zhongbang Instruments Co., Ltd.
8	Alcohol Blast Lamp Combustion Tester	JL-JC-A	Nanjing Jionglei Instruments & Equipment Co., Ltd.
9	Coating Thickness Gauge	VINACT260	Shandong Weinano Testing Technology Co., Ltd.
10	High-precision Ultrasonic Thickness Gauge	TM210PLUS	Beijing Liminte Precision Instruments Co., Ltd.
11	Digital Sound Level Meter	VICTOR 824	Shenzhen Yisheng Shengli Technology Co., Ltd.
12	Digital Ultrasonic Flaw Detector	KYUT-500+	Shandong Shancai Testing Instruments Co., Ltd.
13	Three-phase Digital Electrical Parameter Tester	8904F2	Qingdao Qingzhi Instruments Co., Ltd.
14	High Insulation Resistance Tester	PC40B	Shanghai Anbiao Electronics Co., Ltd.
15	Full Spectrum Direct Reading Spectrometer	DSF-900	DSAF Measurement Technology (Jiangsu) Co., Ltd.



COMPANY PRODUCTS

01.CONVEYOR SERIES	P19-38	02.CONVEYOR ACCESSORIES	P39-90
Open-pit Mine Semi-continuous/Continuous Mining Conveying System and Complete Equipment	P19	Idler	
Long-distance Cross-country Curved Belt Conveyor	P20	Ordinary Idler	P39
Pipe Belt Conveyor	P21-22	Buffer Idler	P40
TD75 Type Belt Conveyor Series	P23-24	Friction Idler	P41
DT II Type Fixed Belt Conveyor	P25-26	Tapered Idler	P42
DT II (A) Type Belt Conveyor Series	P27	Comb Cleaning Idler	P43
DJ Type Large Inclination Corrugated Sidewall Belt Conveyor	P28	Steel Spiral Cleaning Idler	P44
DJ II Type Large Inclination Corrugated Sidewall Belt Conveyor	P29-30	Non-magnetic Stainless Steel Idler	P45
Mobile Belt Conveyor	P31-32	Polymer Idler	P46
Retractable Belt Conveyor	P33-34	Idler Group Series	
General Fixed Belt Conveyor	P35-36	Comb Cleaning Idler Group	P47
Mine Main Shaft Large Inclination Conveyor Series	P37-38	Hanging Idler Group	P48
		Trough Idler Group	P49
		V-type Idler Group	P50
		Friction Upper Centering Idler Group	P51
		Friction Lower Centering Idler Group	P52

Flat Upper Idler Group	
Flat Lower Idler Group	
Tapered Upper Centering Idler Group	
Tapered Lower Centering Idler Group	

Triple Idler Hook	
Triple idler roller climbing hook	
Triple Idler Connecting Plate	

Guard Roller	
Buffer Guard Roller	
Side Guard Roller	

Roller	
Drive Roller	
Direction-changing Roller	

Cleaner Series	
Polyurethane Cleaner	
Alloy Cleaner	
Hammer Cleaner	
Ceramic Cleaner	
Roller Brush Cleaner	

P53	Protection Switch Series	
P54	Two-stage Deviation Switch	P73
P55	Bidirectional Pull Rope Switch	P74
P56	Speed Detector/Slip Switch	P75-76
	Longitudinal Tear Detector	P77
	Material Flow Detector	P78
P57	Chute Blockage Detector	P79
P58	Rotational Level Gauge	P80

	Buffer Bed Series	
P59	Heavy-duty Buffer Bed	P81
P60	Flame-retardant Buffer Bed	P82
	Adjustable Buffer Bed	P83
	Spring Buffer Bed	P84

P61		
P62	Belt Automatic Alignment Device Series	
	Hydraulic Automatic Alignment	P85
	Mechanical Four-bar Linkage Alignment	P86
P63-66	Tapered Roller Alignment	P87
P67-68	Electric Alignment	P88
P69		

P70	Cleaning Box Series	
P71-72	Automatic Air-water Cleaning Box	P89-90

Conveyor Series

OPEN-PIT MINE SEMI-CONTINUOUS/ CONTINUOUS MINING CONVEYING SYSTEM AND COMPLETE EQUIPMENT

The open-pit semi-continuous/continuous mining conveyor system is designed for deep excavation in medium and large mines. It offers long transport distances, high capacity, steep gradients, flexible layout, low costs, minimal maintenance, and reliable performance. The system includes crushing stations (fixed, semi-mobile, or mobile), belt conveyors, and stackers (semi-mobile or mobile).

Our company has been a leader in developing and researching these systems in China and has successfully implemented them.



Conveyor Series

LONG-DISTANCE CROSS-COUNTRY CURVED BELT CONVEYOR

The curved belt conveyor is used when the start and end points cannot be connected in a straight line. It follows a curved path to bypass obstacles or difficult areas, eliminates intermediate transfer stations, reduces equipment, centralizes power and control, prevents spillage and blockages, minimizes dust and noise, and contributes to environmental protection.



Conveyor Series

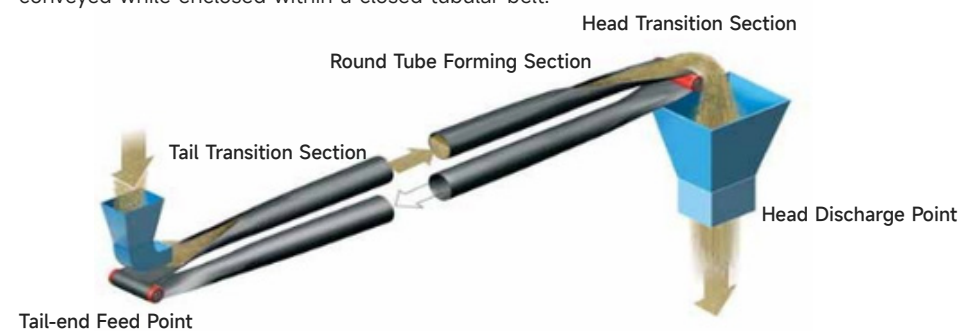
PIPE BELT CONVEYOR

The circular tube belt conveyor series is an environmentally friendly continuous material handling equipment suitable for various complex terrains. It features energy efficiency, environmental friendliness, no terrain limitations, broad material applicability, and high conveying efficiency. It has been widely applied in industries such as mining, ports, metallurgy, power, cement, and coal chemicals. Comprehensive technical services and support are available based on customer-specific requirements, including terrain and geological surveys, system design, manufacturing, installation, commissioning, training, and operation.

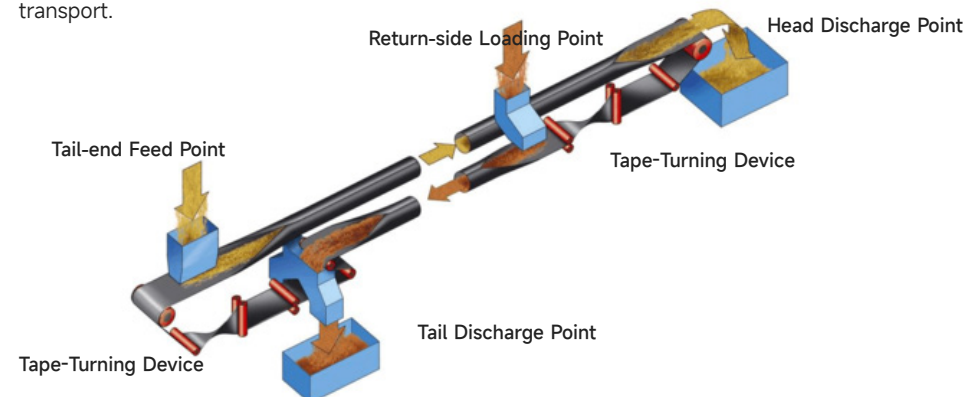


STRUCTURAL FEATURES

The basic structure of a tubular belt conveyor consists of three parts: the tail transition section, the tube-forming section, and the head transition section. Materials are conveyed while enclosed within a closed tubular belt.



The primary characteristics of a tubular belt conveyor are: enclosed material transport, which is energy-efficient and environmentally friendly; and the capability to simultaneously utilize both the upper and lower strands for bidirectional material transport.

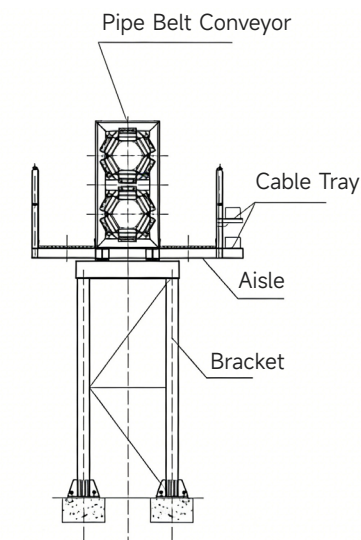


PRODUCT SPECIFICATION

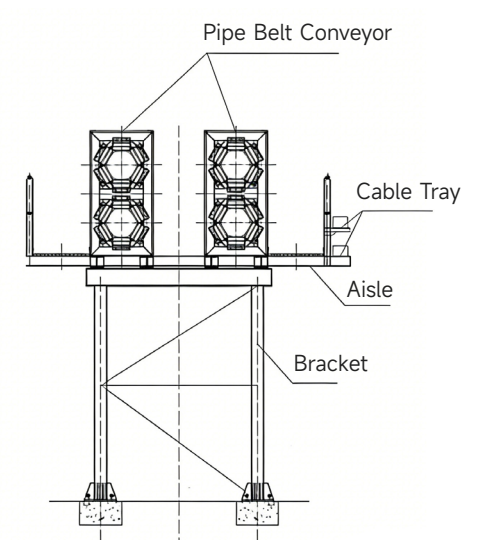
Nominal Pipe Diameter dg and Nominal Belt Width B of Pipe Belt Conveyor								
Nominal Pipe Diameter dg (mm)	100	150	200	250	300	350	400	450
Nominal Belt Width B (mm)	360	550	730	910	1100	1280	1460	1640
Nominal Pipe Diameter dg (mm)	500	560	600	630	700	800	850	
Nominal Belt Width B (mm)	1820	2050	2190	2300	2550	2900	3100	

LAYOUT

The layout configuration of a tubular belt conveyor can be flexibly selected based on customer requirements; common configurations include single-line and double-line arrangements.



Single-Route Layout



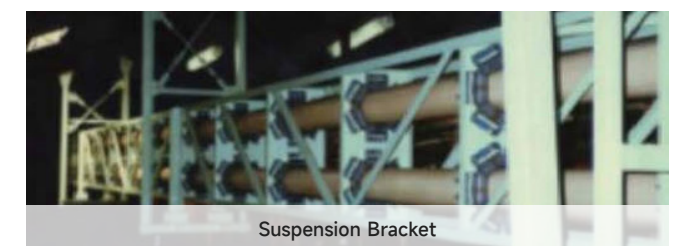
Dual-Route Layout

LAYOUT

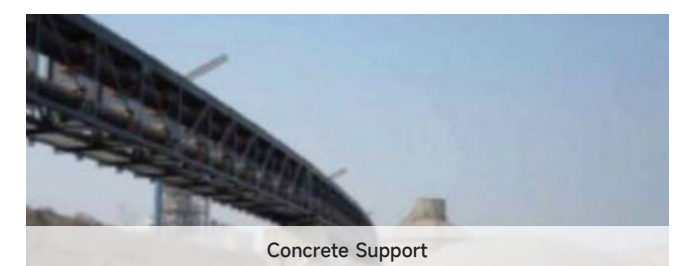
The layout configuration of a tubular belt conveyor can be flexibly selected based on customer requirements; common configurations include single-line and double-line arrangements.



Steel Structure Support



Suspension Bracket

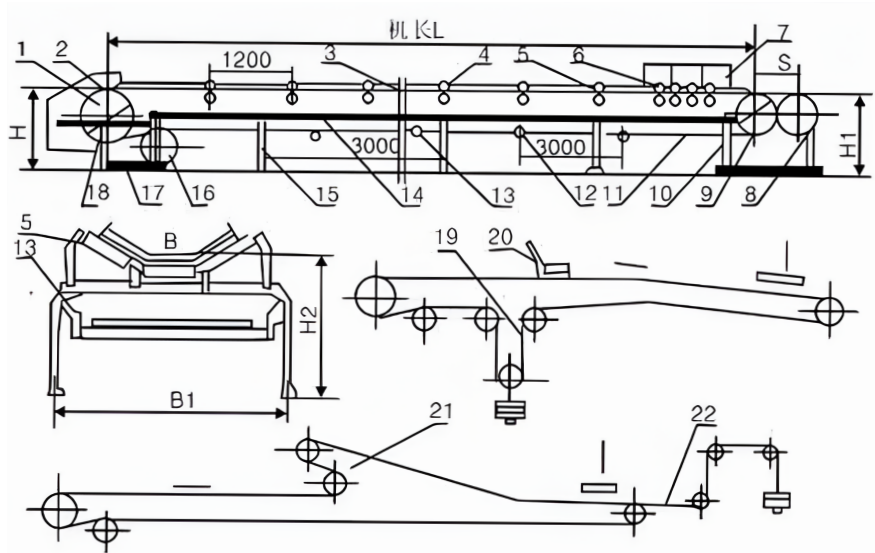


Concrete Support

Conveyor Series

TD75 TYPE BELT CONVEYOR
SERIES

The TD75 conveyor, with its simple structure, low cost, high parts interchangeability, easy maintenance, and sufficient conveying capacity for general applications, has become a widely used conveyor. Depending on needs, it can be used as a single unit, multiple units, or combined with other conveying equipment to form a horizontal or inclined conveying system.



1. Drive pulley

2. Head hood

3. Belt

4. Troughing self-aligning idler

5. Troughing idler

6. Impact idler

7. Chute

8. Screw take-up device
9. Tail pulley

10. Tail frame

11. Return belt cleaner

12. Flat self-aligning idler (bottom)

13. Bottom idler

14. Middle frame

15. Middle support leg

16. Snub pulley
17. Head frame

18. Spring belt cleaner

19. Vertical take-up device

20. Plough tripper

21. Discharge car

22. Car-type take-up device

TECHNICAL FEATURE

Belt widths available: 500, 650, 800, 1000, 1200, 1400, 1600, 2000 mm (eight options)
Drive power: 1.5–1600 kW
Belt speeds: 0.8, 1.0, 1.25, 1.6, 2.0, 2.4, 3.15, 4.0 m/s (eight options)
Conveying capacity: Refer to Table 1 (material density $\rho = 1.0 \text{ ton/m}^3$, conveyor inclination angle $B < 60^\circ$, material angle of repose = 30°)
Maximum incline: See Table 2 (for downward transport, the maximum allowable angle is 80% of the value shown in the table)

TECHNICAL PARAMETER

Table 1

Cross-section Type	Belt Speed (m/s)	Belt Width B (mm)					
		500	650	800	1000	1200	1400
		Conveying Capacity Q (t/h)					
Trough-type	0.8	78	131	-	-	-	-
	1.0	97	164	278	435	655	891
	1.25	122	206	348	544	819	1115
	1.6	156	264	455	696	1048	1427
	2.0	191	323	546	853	1284	1748
	2.5	232	391	661	1033	1556	2118
	3.15	-	-	824	1233	1858	2528
Flat-type	4	-	-	-	-	2022	2996
	0.8	41	67	118	-	-	-
	1.0	52	88	147	230	345	469
	1.25	66	110	184	288	432	588
	1.6	84	142	230	368	533	753
	2.0	103	174	289	451	677	922
	2.5	125	211	350	546	821	1117

Table 2

Material Name	β	Material Name	β	Material Name	β
Lump Coal	18°	20-40mm Oil Shale	20°	Wet Sand	23°
Raw Coal	20°	0-1200mm Oil Shale	22°	Salt	20°
Pulverized Coal & Washed Product	21°	Dry Loam Soil	20°	Molding Sand	24°
Coke after Weathering & Screening	17°	Wet Soil	20-23°	Waste Sand	20°
0-25mm Coke	18°	Wet Concentrate (12% Moisture)	20°	Unscreened Stone	18°
0-3mm Coke	20°	Dry Concentrate	18°	Cement	20°
0-350mm Ore	16°	Screened Limestone	12°	Blocky Clay	15-18°
0-120mm Ore	18°	Dry Sand	15°	Powdered Dry Clay	22°
0-60mm Ore	20°	Sand Mixed with Gravel	18-20°		
40-80mm Ore	18°	Quarry Sand	20°		

Conveyor Series

DT II TYPE FIXED BELT CONVEYOR

The DT II Fixed Belt Conveyor is a general-purpose series widely used in metallurgy, mining, coal, ports, power plants, building materials, chemical, light industry, petroleum, and other industries. It can operate as a single unit or multiple units combined into a conveyor system, transporting bulk materials with a loose density of 500–2500 kg/m³ as well as packaged goods.

The overall structure of the stationary DTII-type belt conveyor is shown in Figure 1. Its main components include: the conveyor belt, drive unit (or motorized pulley), drive pulley, tail pulley, idlers, tensioning device, belt cleaner, discharge device, frame, hopper, chute, safety protection devices, and others.

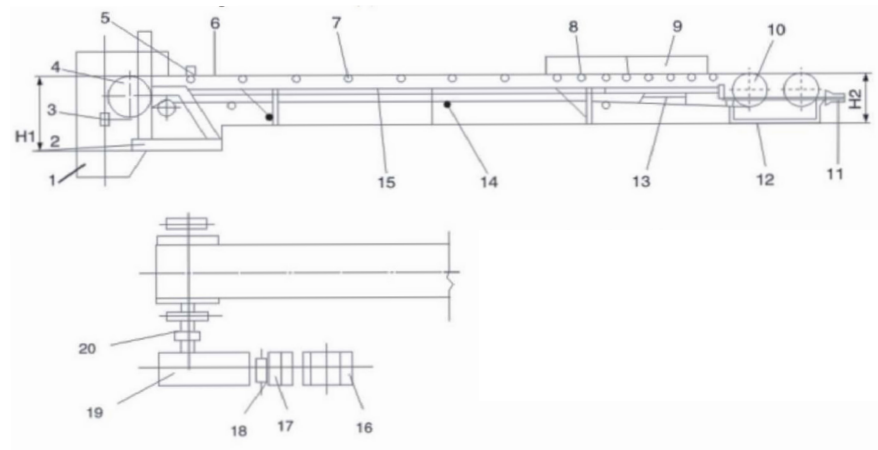


Figure 1: Overall Structure Diagram of the Belt Conveyor

1. Head Chute

2. Frame

3. Head Cleaner

4. Drive Pulley

5. Safety Protection Device

6. Conveyor Belt

7. Carrying Idler

8. Impact Idler
9. Loading Skirt

10. Tail Pulley

11. Screw Take-up Device

12. Tail Frame

13. Return Cleaner

14. Return Idler

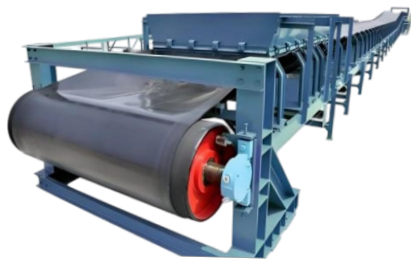
15. Intermediate Frame

16. Electric Motor
17. Fluid Coupling

18. Brake

19. Reducer

20. Coupling



TECHNICAL PARAMETER

The DT II Fixed Belt Conveyor is generally suitable for operating temperatures of −25° C to 40° C. For conveyors used in special environments, such as those requiring heat or cold resistance, waterproofing, corrosion resistance, explosion protection, or flame retardancy, appropriate protective measures can be applied.

The DT II conveyors are designed as modular components. Designers can select and configure the conveyor according to the material handling process, terrain, and working conditions. The components support both horizontal and inclined transport and can also be configured with combinations of convex, concave, and straight belt sections.

The maximum allowable material size depends on belt width, belt speed, trough angle, inclination, and the frequency of large material pieces. Maximum sizes for different belt widths are provided in Table 1.

Table 1

Bandwidth Throughput Belt Speed	500	650	800	1000	1200	1400	1600	1800	2000	2200	2400
0.8	69	127	198	324							
1.0	87	159	248	405	593	825					
1. 25	108	198	310	507	742	1032					
1.60	139	254	397	649	951	1321					
2. 00	174	318	496	811	1188	1652	2186	2795	3470		
2. 50	217	397	620	1014	1486	2065	2733	3494	4338		
3. 15			781	1278	1872	2602	3444	4403	5466	6843	8289
4.00				1622	2377	3304	4373	5591	6941	8690	10526
4. 50					2674	3718	4920	6291	7808	9776	11842
5. 00					2971	4130	5466	6989	8676	10863	13158
5.60							6122	7829	9717	12166	14737
6.50								9083	11277	14120	17104

Conveyor Series

DT II (A) TYPE BELT CONVEYOR SERIES

This product is an improved version of the DT II series, suitable for coal mines, ports, power plants, construction materials, metallurgy, and other industries. It can transport bulk materials or items with a loose density of 0.5–2.5 t/m³, operates in temperatures from –25° C to 40° C, and is suitable for both inclined and horizontal conveying. It can also be configured with a combination of concave, convex, and straight belt sections.



PRODUCT PARAMETERS

Model	Belt Width (mm)	Drive Drum Diameter (mm)	Reducing Drum Diameter (mm)	Idler Diameter (mm)	Main Motor							
					Main Motor Power Range (kW)	Main Motor Voltage Range	Main Motor Drive Connection Type					
DT II (A)	500	500	250-500	89	2.2-315	380V (for Power < 200KW) 3KV/6KV (for Power > 220KW)	2.2-37KW: Elastic Coupling 45-315KW: Hydraulic Coupler					
	650	500-630	250-630	89-108								
	800	500-1000	250-1000	89-159								
	1000	630-1600	250-1600	108-159								
	1200	630-1600	250-1600	108-159								
	1400	630-1600	315-1600	108-159								
	1600	630-1600	400-1600	108-159								
	1800	630-1600	400-1600	133-194								
	2000	800-1600	500-1600	133-194								
	2200	1000-1600	630-1600	15-219								
	2400	1000-1600	800-1600	159-219								
Belt Speed (m ³ /h)	0.8	1.0	1.25	1.60	2.00	2.50	3.15	4.0	(4.5)	5.0	(5.6)	6.5
Conveying Capacity (m ³ /h)	69	69	108	139	174	217						
	127	159	198	254	318	397						
	108	248	310	397	496	620	781					
	139	405	507	649	811	1014	1278	1622				
	174	593	742	951	1188	1486	1872	2377	2674	2971		
	217	825	1032	1321	1652	2065	2602	3304	3718	4130		
					2186	2733	3444	4373	4920	5466	6122	
					2795	3494	4403	5591	6291	6989	7829	9083
					3470	4338	5466	6941	7808	8676	9717	11277
							6843	8690	9776	10863	12166	14120
							8289	10526	11842	13158	14737	17104

Conveyor Series

DJ TYPE LARGE INCLINATION CORRUGATED SIDEWALL BELT CONVEYOR

The DJ-type large-inclination corrugated sidewall belt conveyor is a new type of belt conveyor with advantages such as easy angle adjustment, small footprint, low energy consumption, low noise, high conveying capacity, smooth belt operation, long service life, multiple optional models, and low overall cost.



TECHNICAL PARAMETER

This series can transport bulk materials with a density of 0.5–2.5 t/m³ in temperatures ranging from –25° C to +40° C, at a maximum inclination of 90° and a maximum particle size of 550 mm. It is widely used for handling lump or bulk materials in ports, docks, mines, metallurgy, chemical, power, coal, and construction material industries.

Belt Width (mm)			500						650						650					
Sidewall Height (mm)			80		100		125		100		125		160		125		160		200	
Cleat Spacing (mm)			126	252	126	252	252	378	65	252	252	378	252	378	252	378	252	378	252	378
Conveying Capacity (m³/h)	Inclination Angle	30°	35	19	52	31	46	3	59	44	66	44	86	60	86	57	117	82	172	134
		35°	2	16	49	27	40	27	54	38	57	38	78	52	75	50	106	71	160	118
		40°	28	14	55	24	35	23	65	34	50	34	69	46	66	44	94	63	149	104
		45°	95	13	41	21	31	21	59	30	45	30	6.	41	59	39	84	56	137	92
		50°	23	11	38	19	28	19	54	27	40	27	56	37	53	35	75	50	125	83
Inclination Angle (m/s)			0.8、1.0、1.25、1.6、2.0						0.8、1.0、1.25、1.6、2.0						0.8、1.0、1.25、1.6、2.0、2.5					
Power (KW)			1.5、2.2、3.0 4.0、5.5、7.5						1.5、2.2、3.0、4.0 5.5、7.5、11、15						2.2、3.0、4.0、5.5、7.5 11、15、18.5、22					

Conveyor Series

DJ II TYPE LARGE INCLINATION
CORRUGATED SIDEWALL BELT
CONVEYOR

This product series consists of general-purpose continuous conveying equipment for bulk materials, utilizing conveyor belts equipped with corrugated sidewalls and transverse cleats. Consequently, it is particularly well-suited for conveying at steep angles.



PRODUCT PARAMETERS

Belt Width (mm)	400			500			650			800			1000		
Sidewall Height(mm)	60	80	120	80	120	160	80	120	160	120	160	200	160	200	240
Belt Speed (m/s)	0.8-2.0									0.8-2.5			1.0-2.5		
Inclination Angle β (°)	30-90														
Max. Conveying Capacity Q (m³/h)	28	54	94	78	104	130	118	156	210	248	340	370	465	518	708
Power N (Kw)	1.5-18.5						1.5-2.2			2.2-45			4.0-75		

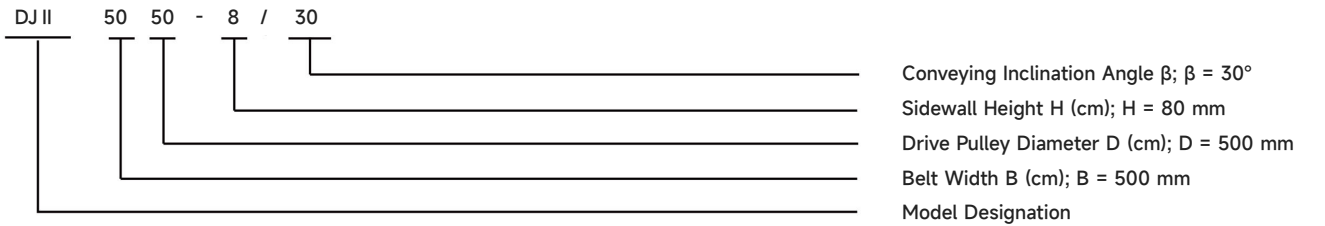
MODEL AND SPECIFICATIONS

Model: The model designation for this product series is DJ II, wherein "DJ" denotes a corrugated sidewall belt conveyor, and "II" indicates an improved version.
Specifications: Based on various combinations of belt width (B), sidewall height (H), and drive pulley diameter (D), this product series comprises 57 distinct specifications, as detailed in the table below.

B·D (cm)	4040	5040	5050	6550	6563	8050	8063	8080	10063	10080	100100
H (mm)	60	80	80	80	80	120	120	120	160	160	160
	80	120	120	120	120	160	160	160	200	200	200
	120		160	160	160		200	200		240	240

B·D(cm)	12063	12080	120100	14080	140100	140125	16080	160100	160125
H (mm)	160	160	160	200	200	200	200	200	200
	200	200	200	240	240	240	240	240	240
		240	240		300	300		300	300
			300			400			400

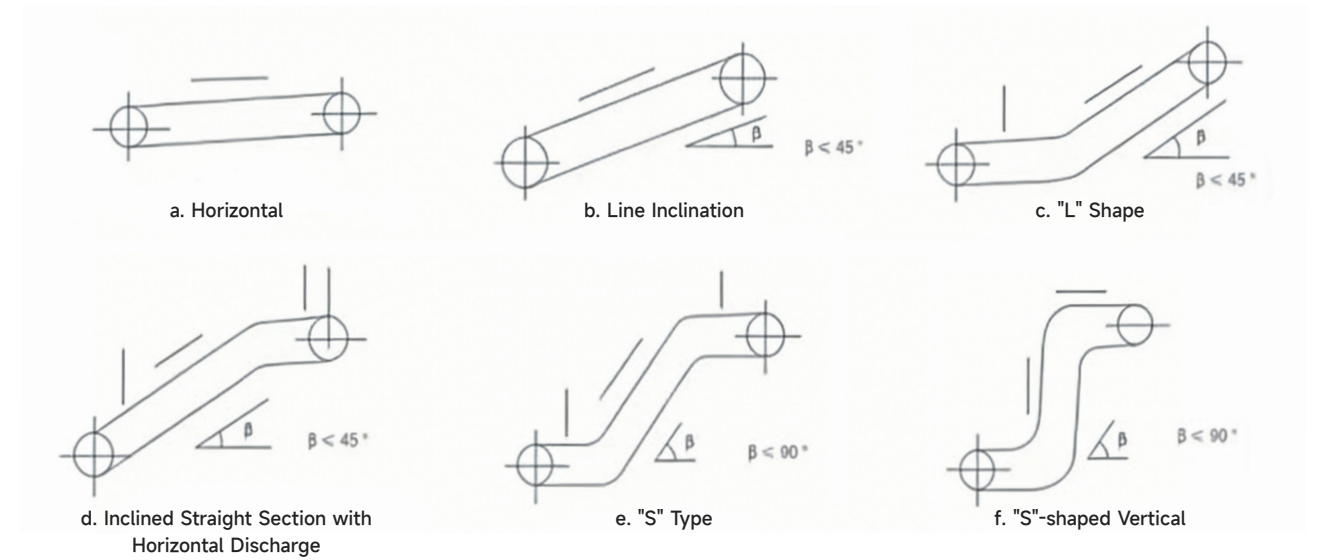
Examples of Product Specification Markings



LAYOUT FORM

1. Basic Configurations

The corrugated sidewall belt conveyor can adopt the six basic layout configurations shown in the figure below.



These are the six basic layout types. With the use of corrugated sidewall belts and transition devices like pressure rollers, the corrugated sidewall belt conveyor can bend multiple times within the same vertical plane, enabling more complex layouts.

Conveyor Series

MOBILE BELT CONVEYOR



MODEL ZP60 MOBILE CONVEYOR

The Model ZP60 mobile conveyor is suitable for use in mines, factories, construction sites, stations, docks, and similar sectors, and is designed for the conveyance of loose bulk materials or packaged goods.

Body Length	10m	12m	15m
Conveyor Belt Width (mm)	500	500	500
Conveyor Belt Speed (m/s)	1.5	1.5	1.5
Lifting Height (mm)	4200	5300	6900
Max. Inclination Angle of Frame	19°	19°	19°
Conveying Capacity (t/h)	70-120	70-120	70-120
Tensioning Stroke (mm)	300	300	300
Motor Power (KW)	3.0	4.0	4.0
Body Width (mm)	690	690	690

TDSL1 / TDSO SERIES — MOBILE TYPE

This equipment is ideal for short-distance transport and variable-route handling, including palletizing and warehousing, of bulk materials and packaged goods at docks, warehouses, coal yards, construction sites, and grain depots. Its pneumatic tires reduce rolling resistance for easy mobility, ensuring reliable operation with low noise. The lifting mechanism, available in electric and manual options, features a worm gear structure, offering an attractive design, lightweight build, and low maintenance needs.

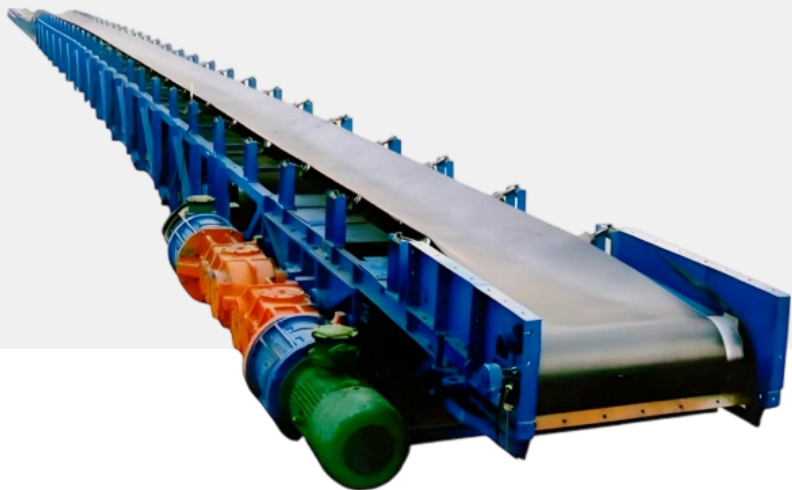
Body Length	6m	8m	10m	12m	15m
Conveyor Belt Width (mm)	500-650	500-650	500-650	500-650	500-650
Conveyor Belt Speed (m/s)	1.6	1.6	1.6	1.6	1.6
Lifting Height (mm)	3700	3700	4500	5600	7000
Max. Inclination Angle of Frame	19°	19°	19°	19°	19°
Tensioning Stroke (mm)	300	300	300	300	300
Motor Power (KW)	3.0	3.0	4.0	4.0	6-pole 4.0
Lifting Motor Power (KW)	-	-	0.75	1.0	1.5
Body Width (mm)	690-840	690-840	690-840	690-840	690-840
Conveying Capacity (t/h)	60-100	60-100	60-100	60-100	60-100

Technical Parameters for Horizontal, Inclined, Declining, Bi-directional, and Curved Belt Conveyors with High Capacity and Long-Distance Capabilities

Product Code	Product Model	Conveying Capacity (t/h)	Conveying Distance (m)	Belt Width (mm)	Belt Speed (m/s)	Inclination Angle (°)	Motor Power (kW)	Drive Drum Diameter (mm)	Idler Diameter (mm)	Head Dimension (Width × Height) (mm)	Total Weight (t)
Vertically Retractable Conveyor											
LX817	DSJ80/40/55	300	300	800	2	1-2	55	450	108	2083×1670	24.37
LX029	DSJ80/40/2×55	400	300	800	2		2×55	630	108	1891×1465	73.26
LX125	DSJ100/63/2×125	500	1000	1000	2		2×125	630	108	2540×1665	95
LX820	DSJ100/63/75	630	1000	1000	2		75	630	108	2539×1641	91.5
LX024	DSJ100/63/2×125	630	1200	1000	2		2×125	630	108	2540×1665	125.93
LX312	DSJ100/63/2×125	630	1800	1000	2		2×125	630	108	2758×1641	119.63
LX113	DSJ100/63/2×125	630	1000	1000	2		2×125	630	108	2580×1665	133.17
LX919	DSJ1080/80/160	800	1000	1000	3.15		160	630	108	3273×1695	86.4
LX014	DSJ1080/80/2×160	800	1000	1000	2.5		2×160	630	108	2589×1665	150.04
LX139	DSJ1000/80/2×160	900	860	1000	2.5	±4	2×210	630	133	3150×2265	88.52
LX033	DSJ1000/80/2×210	900	1000	1000	2.5		2×250	630	108	3300×1600	75.49
LX024	DSJ1200/90/2×200	900	1000	1200	2.5		2×200	830	133	3030×2150	132.77
Vertically Retractable Conveyor											
LX919	DSJ1080/80/160	800	1000	1000	3.15		160	630	108	3273×1695	86.4
LX014	DSJ1080/80/2×160	800	1000	1000	2.5		2×160	630	108	2589×1665	150.04
LX139	DSJ1000/80/2×160	900	860	1000	2.5	±4	2×210	630	133	3150×2265	88.52
LX033	DSJ1000/80/2×210	900	1000	1000	2.5		2×250	630	108	3300×1600	75.49
LX024	DSJ1200/90/2×200	900	1000	1200	2.5		2×200	830	133	3030×2150	132.77
LX111	DSJ165/10/55	100	1000	650	1.6		55		108	1919x1460	60.47
LX201	DSJ100/80/2x160H	800	1500	1000	2.5		2x160	630	108	2700x1665	135.44
LX110	DSJ100/63/125W	630	1000	1000	2	≤ 10	125	630	108	2539 x1641	123.84
LX114	DSJ100/100/200	1000	1000	1000	3.15		200	800	133		45.44
LX212	DSJ100/100/200	1000	1000	1000	3.15		200	800	133	3368x1900	101.45
LX917	DSJ120/100/3x200	1000	1500	1200	3.3		3x200	800	133	3456 x2000	21.32
LX244	DSJ120/120/2 x200	1200	1300	1200	3.15		2x200	830	133		176.34
LX237	DSJ120/140/2 x250	1400	600	1200	3.15		2x250	830	133	3436x2150	116.21
LX802	DSJ120/150/G3/200	1500	1500	1200	3.15		3x200	830	133	3640x2150	219.33
LX241	DSJ120/150/2 x315	1500	1500	1200	3.15		2 x 315	1000	133	3380x2567	74.88
LX242	DSJ120/150/2x315	1500	1500	1200	3.15		2x315	1000	133	3380 x2567	80.93
LX314	DSJ120/150/2x200	1500	1020	1200	3.15	3	2x200	830	133	3435x2150	174.71
LX804	DSJ120/180/2 x200	1800	1000	1200	3.15		2x200	800	133	3110x1950	124.29

Conveyor Series

RETRACTABLE BELT CONVEYOR



PRODUCT PARAMETERS

1.Telescopic Belt Conveyor Series

Suitable for dry coal mining underground in comprehensive mining faces, high-grade general mining, and tunneling transportation.

The tail is equipped with a scraper conveyor to connect with the working face conveyor; for tunneling, it connects to the tunneling machine.

2. Upward/Downward Telescopic Belt Conveyor

Suitable for underground coal mining faces with an inclination of ≤ ±18° , high-grade general mining, and general mechanized mining for roadway transportation.

3.Bi-directional (Coal Up / Materials Down) Retractable Belt Conveyor

Can transport coal on the upper belt and materials on the lower belt, suitable for post-tunneling transportation in coal mines.

4.Curvable (Turning Angle ≤ 10°) Retractable Belt Conveyor

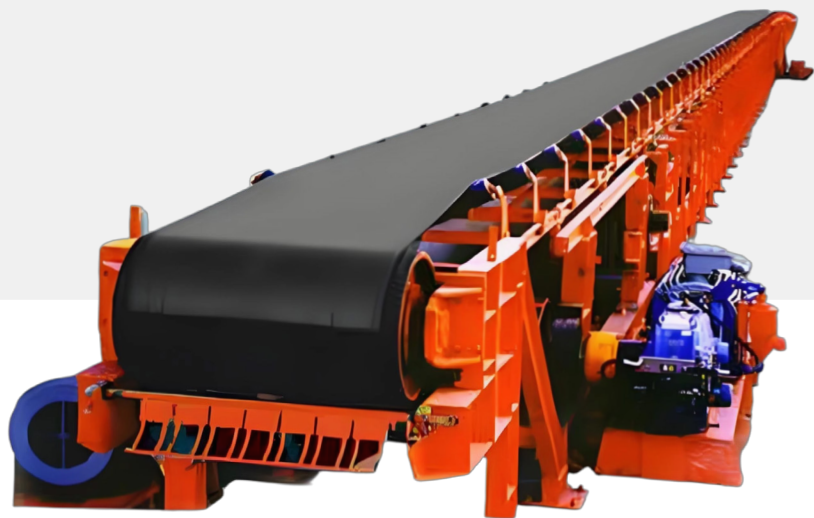
Designed for underground curved tunnels with angles between 1° and 10° , reducing equipment investment and accident points. It's suitable for longwall mining face transportation and can be used for straight-line transport by removing the curved sections.

5.High Capacity Multi-point Driven Telescopic Belt Conveyor

Suitable for long-distance, high-capacity transportation in underground coal mines, especially in high-output and high-efficiency comprehensive mining faces.

Conveyor Series

GENERAL FIXED BELT CONVEYOR



PRODUCT PARAMETERS

1. Fixed Horizontal, Inclined, and Declining Belt Conveyors

Suitable for horizontal and inclined transport (with an angle of inclination $\leq \pm 18^\circ$) within fixed roadways in underground coal mines. Applicable to horizontal or inclined conveying operations across various industries—including metallurgy, mining, coal, ports, power generation, building materials, chemicals, light industry, and petroleum—and designed for use within an ambient temperature range of $+40^\circ\text{C}$ to -10°C . For conveying materials with temperatures exceeding 50°C or falling below -10°C , or for applications requiring specific features such as explosion-proofing, waterproofing, corrosion resistance, heat resistance, or cold resistance, additional specialized measures must be implemented.

2. Belt Transfer Conveyors

Suitable for transfer operations during underground coal mine tunneling, facilitating the transfer of excavated material from a tunneling machine to a belt conveyor system (applicable to full-coal seams and mixed coal-rock seams).

Product Code	Product Model	Conveying Capacity (t/h)	Conveying Distance (m)	Belt Width (mm)	Belt Speed (m/s)	Inclination Angle (°)	Motor Power (kW)	Drive Drum Diameter (mm)	Idler Diameter (mm)	Head Dimension (Width × Height) (mm)	Total Weight (t)
LX119	DTL80/20/250S	200	900	800	2		250	1000	89		83.19
LX325	DTL80/30/2x250S	300	1000	800	2.5		2 x 250	1250	108		113.87
LX030	DTL100/30/2x160S	300	1000	1000	2		2x160	800	108		
LX210	DTL100/32/2 x220	320	1030	1000	2	1-2	2x220	1000	133		200.91
LX311	DTL100/40/2x200S	400	1260	1000	2		2x200	1000	133		139.35
LX011	DTL100/45/280	450	468	1000	2		280	1250	108		103.14
LX819	DTL100/50/2x355S	500	1100	1000	2.5		2 x 355	1400	108		250.99
LX318	DTL100/60/200	600	1600	1000	2		200	630	108	3273×1695	95.91
LX129	DTL100/63/2x200	630	1000	1000	2		2x220	1000	133		124.32
LX122	DTL100/70/2x160S	700	300	1000	2.5		2x160	800	108		57.99
LX323	DTL120/70/2x220S	700	490	1200	2		2 x 220	1000	108		
LX838	DTL100/100/3x250S	1000	1500	1000	3.15	0-12	3x250	1030	133		277.50
LX112	DTL120/50/2x160	500	400	1200	2.5	16	160	500	108	2875x1470	49.97
LX202	DTL120/100/2x250	1000	1498	1200	2.5	14	2x250	1250	133		227.18
LX124	DTL120/120/3x315	1200	1650	1200	2.5	15	3x315	1250	159	3456x2000	148.97
LX204	DTL120/150/3x200	1500	1500	1200	3.15	14	3x200	800	133		184.55
LX317	DTL120/180/2x250	1800	955	1200	3.5	6	2x250	1250	133		164.01
LX824	DTL140/120/90	1200	85.54	1400	3.15	0-3	90	800	159		37.67
LX840	DTL140/204/400S	2040	182	1400	3.8	17.8	400	1250	159		74.94
LX821	DTL160/250/280	2500	77.28	1600	3.15	15.5	280	1000	159		38.00
LX101	DTL180/300/2x450	3000	348.3	1800	3.15	0-11	2x450	1036	159		131.5
LX131	DTL100/45/90	A50	640	1000	2	-8	90	630	108		73.77
LX236	DTL100/63/200	630	850	1000	2	-16	200	1000	108		141.59
LX04	DTL280/1200S	800	200	1200	2	-10	75	630	108	3030x1700	32.19
LX913	DTL80/50/22	500	120.33	800	2		22	630	89		13.23
LX127	DTL100/30/125	300	480	1000	2		125	630	108		38.63
LX135	DTL100/50/2x250	500	1000	1000	2.5		2x250	630	108	2540x1665	58.49
LX033	DT100/63/2x90	630	1500	1000	2.5		2x90	630	108	2589x1665	75.09
LX108	DTL100/100/2x160	1000	750	1000	3.15		2x160	800	133	2655x1950	66.47
LX245	DTL120/80/2x160	800	1000	1200	1.6		2x160	630	108	3307x2150	101.76
LX320	DTL120/90/2x220	900	650	1200	2.5		2x200	830	133		79.62
LX121	DTL120/100/75	1000	200	1200	2.5		75	800	108	2750x1950	32.41
LX306	DTL120/120/2x500	1200	1900	1200	3.15		2x500				
LX027	DTL120/135/3x160	1350	2300	1200	2.5		3x160	1000	133	9688x2720	165.61
LX225	DTL120/180/200	1800	500	1200	3.5		x200	800	133	3110x1950	124.30
LX843	DTL120/200/G4x250	2000	2810	1200	3.5		4x250	830	159		494.11
LX920	DTL140/110/132	1100	148.78	1400	3.5		132	800	159		38.51
LX841	DTL140/120/280	1200	60.2	1400	2		280	800	108		17.36
LX823	DTL160/250/55	2500	35.6	1600	3.15		55	1000	159		27.85

Conveyor Series

MINE MAIN SHAFT LARGE INCLINATION CONVEYOR SERIES



PRODUCT PARAMETERS

Suitable for upward transport in underground coal mines, main shafts, and blind inclined shafts with an inclination angle of $18^{\circ} < \alpha < 26.5^{\circ}$.

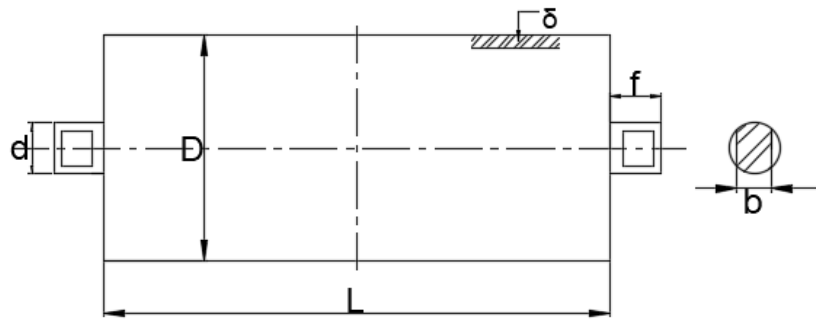
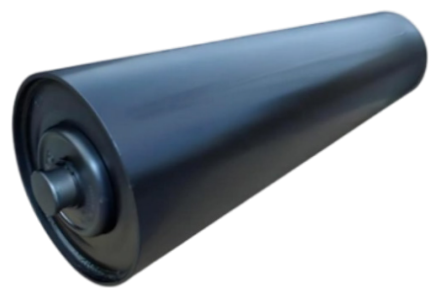
Product Code	Product Model	Conveying Capacity (t/h)	Conveying Distance (m)	Belt Width (mm)	Belt Speed (m/s)	Inclination Angle (°)	Motor Power (kW)	Drive Drum Diameter (mm)	Idler Diameter (mm)	Total Weight (t)
LX107	DTC80/6/40	60	210	800	1.25	18-23	37	630	89	26.32
LX107A	DTC80/6/40	60	210	800	1.25	18-23	37	630	89	28.12
LX334	DTC80/7.5/75	75	360	800	1.5	22	75	800	89	55.33
LX010	DTC80/13/200	130	571	800	1.6	16-26.5	200	1000	89	89.95
LX206	DTC80/13/110	130	830	800	1.6	25	110	800	89	67.55
LX43	SCD-155	150	360	800	2	25	155	1000	89	75.6
LX58	SCD-220	150	400	800	2	25	220	1000	89	86.67
LX918	DTC80/15/250	150	780	800	2	25-8	250	1000	89	140.66
LX226	DTC80/15/132	150	400	800	1.6	25-18	132	800	89	66.722
LX58	SCD-220	180	530	800	2	25	220	1000	89	104.13

Product Code	Product Model	Conveying Capacity (t/h)	Conveying Distance (m)	Belt Width (mm)	Belt Speed (m/s)	Inclination Angle (°)	Motor Power (kW)	Drive Drum Diameter (mm)	Idler Diameter (mm)	Total Weight (t)
LX134	DTC80/18/160	180	425	800	2	22	160	1000	89	64.70
LX327	DTC80/18/160	180	580	800	2	22	160	1000	89	77.78
LX47	SKB	200	230	800	2.19	25	250	1000	108	88.79
LX63	SQD-315	200	768	800	2	25	315	1250	89	151.93
LX67	SQD-280	200	630	800	2	23	280	1000	89	129.25
LX827	SQD-160	200	340	800	2	25	160	800	89	61.70
LX837	DTC80/20/400	200	968	800	1.6	25	400	1250	89	172.55
LX839	DTC80/20/250	200	550	800	2	23	250	1000	89	110.97
LX222	DTC80/22.5/30	225	54.725	800	2	20	30	630	89	11.62
LX143	DTC80/20/200	250	493	800	2	25	200	1000	89	94.62
LX301	DTC80/26/315	260	866	800	2	25	315	1250	108	113.08
LX23	SCD-440	300	670	800	2.5	25	2x220	1000	89	145.65
LX31	SCD-220	300	270	800	2	25	220	1000	89	
LX95	SCD-440	300	240	800	2	15-23	2x220	1000	89	82.68
LX836	DTC80/30/160	300	301	800	2	24	160	1000	89	71.04
LX911	DTC80/30/2x160s	300	410	800	2	23	2x160	1000	89	91.26
LX213	DTC80/30/250	300	524	800	2	20-23	250	1000	89	81.91
LX227	DTC80/30/250	300	483	800	2	25	250	1000	89	101.04
LX329	DTC80/30/2x250	300	350	800	2.5	22	2x250			
LX015	DTC100/30/2x280	300	978	1000	2	23	2x280	1400	108	254.17
LX806	DTC100/40/250	400	380	1000	2	25	250	1000	108	92.22
LX016	DTC100/40/280	400	350	1000	2	25	280	1400	108	83.67
LX022	DTC100/40/335	400	870	1000	2	25	355	1000	108	149.60
LX013	DTC100/42.6/2x250	426	500	1000	2	24.5	2x250	1000	108	165.151
LX012	DTC100/42.8/2x200	428	594	1000	2	24.5	2x200	1000	108	161.30
LX91	SCD-400	450	491	1000	2	20	2x200	1000	108	138.31
LX53	SCD-500	500	465	1000	2	22.5	2x250	1000	108	146.88
LX73	SCD-2x500	500	500	1200	2.5	21.5	2x500	1430	133	313.46
LX018	DTC120/70/2x355	700	900	1400	2.5	22.7	2x355	1250	133	140.04
LX028	DTC120/70/2x355	800D	655	1400	2.5/3	22.7		1000	133	69.49

Conveyor parts · Idler

ORDINARY IDLER

Standard rollers are used in belt conveyors to support the belt and materials, reducing operational resistance. With diameters ranging from 50 to 219mm and lengths from 240 to 3000mm, they feature rust-resistant surface treatment and bearings suited for various operating conditions. Properly arranged carrying and return rollers ensure smooth belt operation, reduce wear, and extend equipment lifespan.



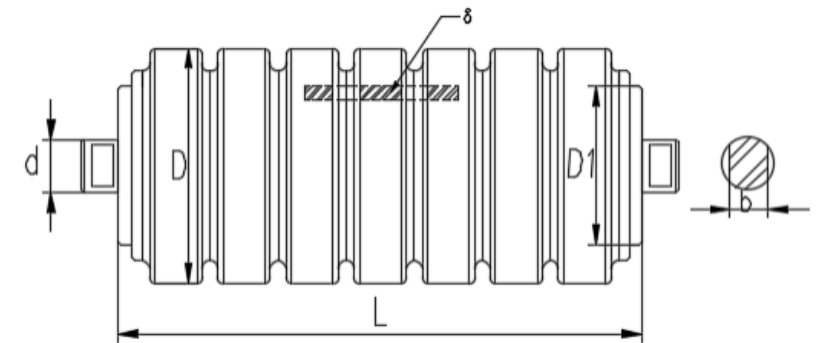
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth/ Fluted Surface)
89*190	500	89	20	204	190	200	220	15	10	TD1C1.1/ TD1C9.1
89*240	650 (600)	89	20	204	240	250	270	15	10	TD2C1.1/ TD2C9.1
89*305	800	89	20	204	305	315	335	15	10	TD3C1.1/ TD3C9.1
108*375	1000	108	25	305	375	385	408	18	11.5	TD4C1.1/ TD4C9.1
108*455	1200	108	25	305	455	465	488	18	11.5	TD5C1.1/ TD5C9.1
108*525	1400	108	25	305	525	535	558	18	11.5	TD6C1.1/ TD6C9.1
133*600	1600	133	30	306	600	610	635	20	12	TD7C1.1/ TD7C9.1
159*700	1800	159	30	306	700	710	735	20	12	TD8C1.1/ TD8C9.1

Conveyor parts · Idler

BUFFER IDLER

Buffer rollers are used in belt conveyors at the receiving end to reduce the impact of materials on the belt. They are coated with a rubber or polyurethane buffer layer, which absorbs shock through its elastic structure, minimizing material impact damage and extending the belt's service life. They ensure stable conveyor system operation and are suitable for high-impact environments such as mining and ports.



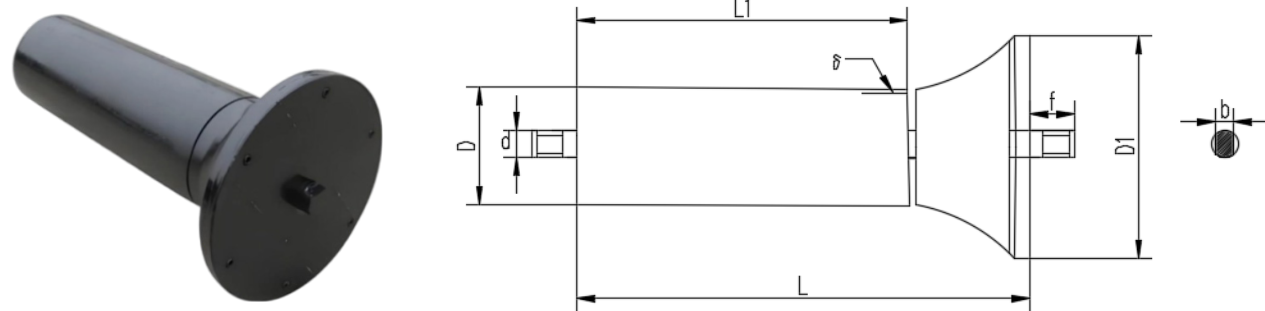
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth/ Fluted Surface)	Buffer Ring Material	Application Scenario
Φ89×190	500	89	20	204	190	200	220	15	10	TD1H1.1/ TD1H9.1	Rubber / Polyurethane	Light-duty Drop Point
Φ89×240	650 (600)	89	20	204	240	250	270	15	10	TD2H1.1/ TD2H9.1	Rubber / Polyurethane	Light-duty Drop Point
Φ89×305	800	89	20	204	305	315	335	15	10	TD3H1.1/ TD3H9.1	Rubber / Polyurethane	General Drop Point
Φ108×375	1000	108	25	305	375	385	408	18	11.5	TD4H1.1/ TD4H9.1	Rubber / Polyurethane	Medium-duty Drop Point
Φ108×455	1200	108	25	305	455	465	488	18	11.5	TD5H1.1/ TD5H9.1	Rubber / Polyurethane	Heavy-duty Drop Point
Φ108×525	1400	108	25	305	525	535	558	18	11.5	TD6H1.1/ TD6H9.1	Rubber / Polyurethane	Heavy-load Drop Point
Φ133×600	1600	133	30	306	600	610	635	20	12	TD7H1.1/ TD7H9.1	Rubber / Polyurethane	Extra Heavy-duty Drop Point
Φ159×700	1800	159	30	306	700	710	735	20	12	TD8H1.1/ TD8H9.1	Rubber / Polyurethane	Extra Heavy-duty Drop Point

Conveyor parts · Idler

FRICTION IDLER

The friction upper self-aligning roller is used in belt conveyors to correct belt misalignment. Featuring a conical roller or friction plate design, it generates lateral friction to realign the belt when deviation occurs. Made mainly of carbon steel with rust-resistant surface treatment, it enhances conveyor stability and reduces belt wear.



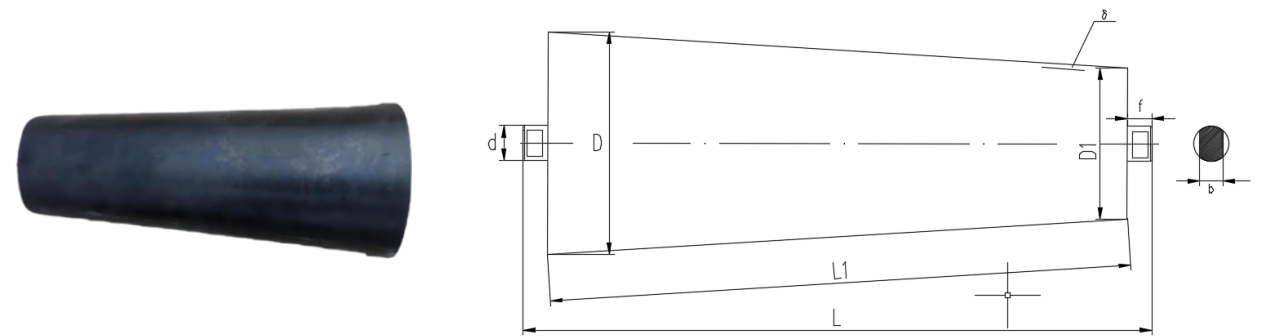
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth/ Helical Grooved Surface)
89×190	500	89	20	204	190	200	220	15	10	TD1C1.1 / TD1C9.1
89×240	650(600)	89	20	204	240	250	270	15	10	TD2C1.1 / TD2C9.1
89×305	800	89	20	204	305	315	335	15	10	TD3C1.1 / TD3C9.1
108×375	1000	108	25	305	375	385	408	18	11.5	TD4C1.1 / TD4C9.1
108×455	1200	108	25	305	455	465	488	18	11.5	TD5C1.1 / TD5C9.1
108×525	1400	108	25	305	525	535	558	18	11.5	TD6C1.1 / TD6C9.1

Conveyor parts · Idler

TAPERED IDLER

The conical upper self-aligning roller is used in belt conveyors to correct belt misalignment, with a typical cone angle of 10–15°. When the belt shifts, the difference in roller surface speed generates a lateral force to realign it. Made mainly of carbon steel with rust-resistant surface treatment, it effectively keeps the belt centered and enhances conveyor stability.



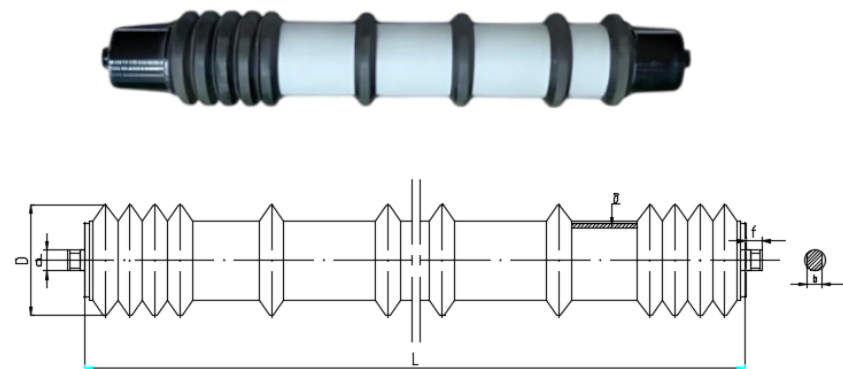
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth / Grooved)
Φ89×190	500	89	20	204	190	200	220	15	10	TD1H1.1/ TD1H9.1
Φ89×240	650 (600)	89	20	204	240	250	270	15	10	TD2H1.1/ TD2H9.1
Φ89×305	800	89	20	204	305	315	335	15	10	TD3H1.1/ TD3H9.1
Φ108×375	1000	108	25	305	375	385	408	18	11.5	TD4H1.1/ TD4H9.1
Φ108×455	1200	108	25	305	455	465	488	18	11.5	TD5H1.1/ TD5H9.1
Φ108×525	1400	108	25	305	525	535	558	18	11.5	TD6H1.1/ TD6H9.1
Φ133×600	1600	133	30	306	600	610	635	20	12	TD7H1.1/ TD7H9.1
Φ159×700	1800	159	30	306	700	710	735	20	12	TD8H1.1/ TD8H9.1

Conveyor parts · Idler

COMB CLEANING IDLER

The comb-type cleaning roller is used in belt conveyors to remove residual material from the belt surface. Its comb teeth, made of wear-resistant rubber or polyurethane, are evenly spaced to effectively scrape off adhering material. As the roller rotates, the teeth continuously clean the belt, preventing spillage and buildup, keeping the belt clean, and reducing equipment wear and maintenance costs.



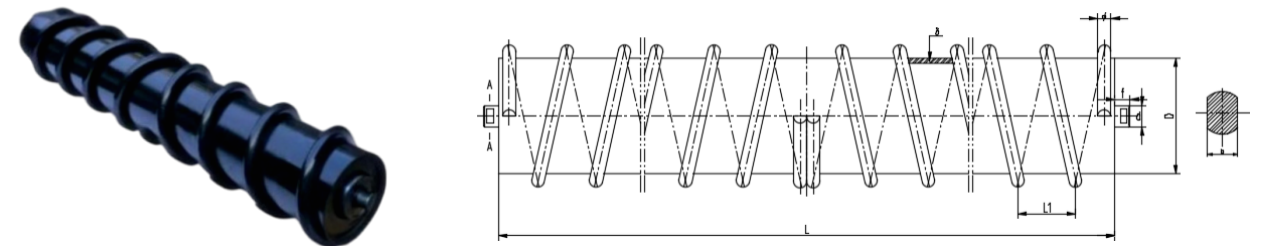
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth/ Helical Grooved Surface)
89×190	500	89	20	204	190	200	220	15	10	TD1C1.1 / TD1C9.1
89×240	650(600)	89	20	204	240	250	270	15	10	TD2C1.1 / TD2C9.1
89×305	800	89	20	204	305	315	335	15	10	TD3C1.1 / TD3C9.1
108×375	1000	108	25	305	375	385	408	18	11.5	TD4C1.1 / TD4C9.1
108×455	1200	108	25	305	455	465	488	18	11.5	TD5C1.1 / TD5C9.1
108×525	1400	108	25	305	525	535	558	18	11.5	TD6C1.1 / TD6C9.1

Conveyor parts · Idler

STEEL SPIRAL CLEANING IDLER

The steel spiral cleaning roller is used in belt conveyors to remove material from the belt surface and prevent residue buildup. Made mainly of carbon steel, its spiral blades scrape off material as the roller rotates, providing high cleaning efficiency. Widely used in mining, ports, and power plants, it reduces material loss and lowers equipment maintenance.



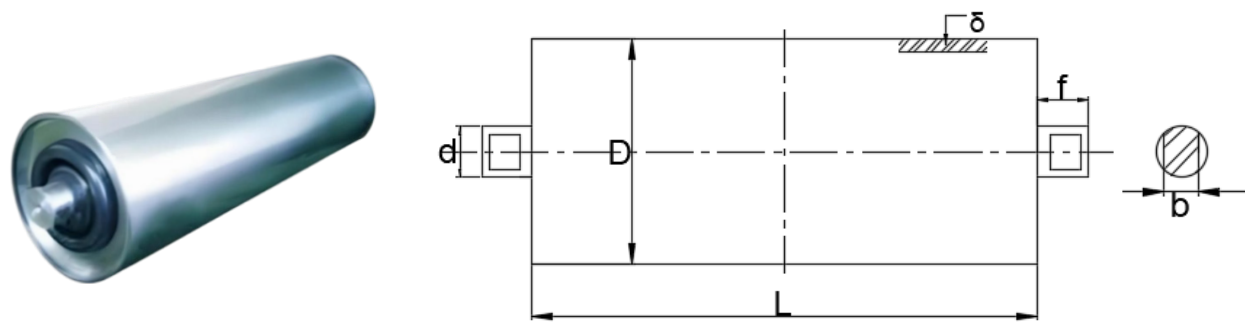
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth / Grooved)
Φ89×190	500	89	20	204	190	200	220	15	10	TD1H1.1/ TD1H9.1
Φ89×240	650 (600)	89	20	204	240	250	270	15	10	TD2H1.1/ TD2H9.1
Φ89×305	800	89	20	204	305	315	335	15	10	TD3H1.1/ TD3H9.1
Φ108×375	1000	108	25	305	375	385	408	18	11.5	TD4H1.1/ TD4H9.1
Φ108×455	1200	108	25	305	455	465	488	18	11.5	TD5H1.1/ TD5H9.1
Φ108×525	1400	108	25	305	525	535	558	18	11.5	TD6H1.1/ TD6H9.1
Φ133×600	1600	133	30	306	600	610	635	20	12	TD7H1.1/ TD7H9.1
Φ159×700	1800	159	30	306	700	710	735	20	12	TD8H1.1/ TD8H9.1

Conveyor parts · Idler

NON-MAGNETIC STAINLESS STEEL IDLER

The anti-magnetic stainless steel roller is used in belt conveyor systems in environments with strong magnetic fields, such as below magnetic separators in power plants and mines. Made primarily of 304 stainless steel with a polished surface, it features sealed bearings for corrosion resistance and wear durability, preventing magnetic interference and ensuring stable conveyor belt operation.



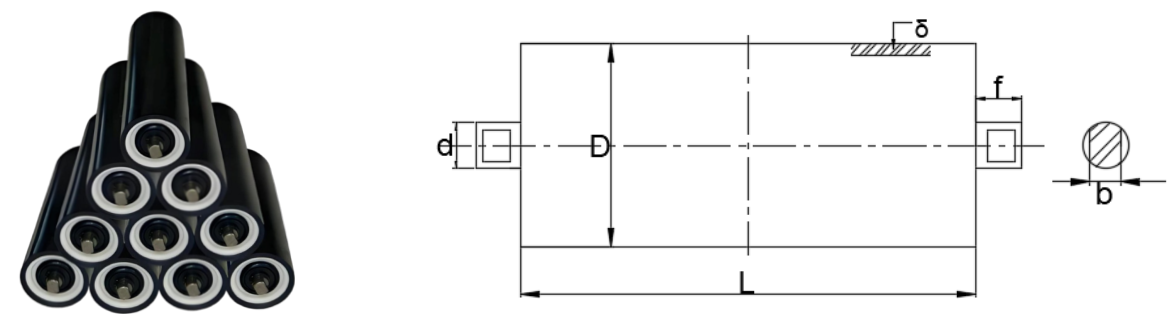
PRODUCT PARAMETERS

Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth/ Helical Grooved Surface)	Material (Stainless Steel)
Φ89×190	500	89	20	204	190	200	220	15	10	TD1F1.1 / TD1F9.1	304/316L
Φ89×240	650(600)	89	20	204	240	250	270	15	10	TD2F1.1 / TD2F9.1	304/316L
Φ89×305	800	89	20	204	305	315	335	15	10	TD3F1.1 / TD3F9.1	304/316L
Φ108×375	1000	108	25	305	375	385	408	18	11.5	TD4F1.1 / TD4F9.1	304/316L
Φ108×455	1200	108	25	305	455	465	488	18	11.5	TD5F1.1 / TD5F9.1	304/316L
Φ108×525	1400	108	25	305	525	535	558	18	11.5	TD6F1.1 / TD6F9.1	304/316L
Φ133×600	1600	133	30	306	600	610	635	20	12	TD7F1.1 / TD7F9.1	304/316L
Φ159×700	1800	159	30	306	700	710	735	20	12	TD8F1.1 / TD8F9.1	304/316L

Conveyor parts · Idler

POLYMER IDLER

The polymer roller is used in belt conveyors, featuring a roller body made of polymer material that is corrosion- and wear-resistant. Being rust-free and anti-static, it is ideal for wet and highly corrosive environments in mining and chemical industries, reducing operational resistance, minimizing belt wear, and extending equipment life.



PRODUCT PARAMETERS

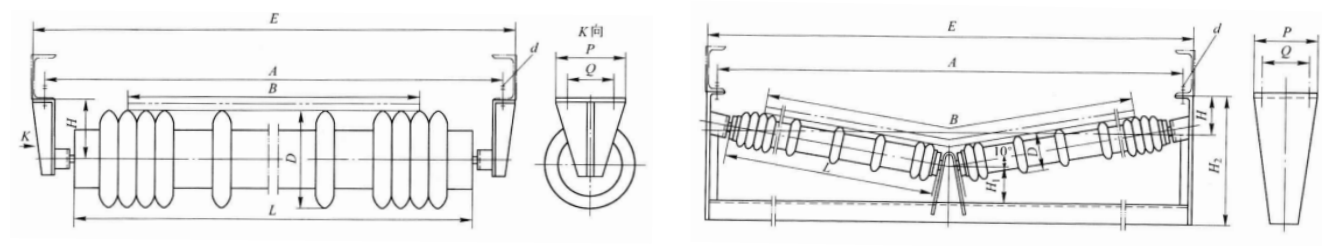
Model	Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	L1 (Effective Length)	L2 (Roller Body Length)	L3 (Total Length)	Shaft Head Thickness b	Shaft Head Extension a	Drawing No. (Smooth / Grooved)	Material
Φ89×190	500	89	20	204	190	200	220	15	10	TD1G1.1 / TD1G9.1	(UHMW-PE)
Φ89×240	650(600)	89	20	204	240	250	270	15	10	TD2G1.1 / TD2G9.1	(UHMW-PE)
Φ89×305	800	89	20	204	305	315	335	15	10	TD3G1.1 / TD3G9.1	(UHMW-PE)
Φ108×375	1000	108	25	305	375	385	408	18	11.5	TD4G1.1 / TD4G9.1	(UHMW-PE)
Φ108×455	1200	108	25	305	455	465	488	18	11.5	TD5G1.1 / TD5G9.1	(UHMW-PE)
Φ108×525	1400	108	25	305	525	535	558	18	11.5	TD6G1.1 / TD6G9.1	(UHMW-PE)
Φ133×600	1600	133	30	306	600	610	635	20	12	TD7G1.1 / TD7G9.1	(UHMW-PE)
Φ159×700	1800	159	30	306	700	710	735	20	12	TD8G1.1 / TD8G9.1	(UHMW-PE)

Conveyor parts · Idler Group Series

COMB CLEANING IDLER GROUP



The anti-magnetic stainless steel idler is used in conveyor systems with strong magnetic fields, such as beneath iron removers in power plants and mines. Made from 304 stainless steel with a polished surface and sealed bearings, it resists corrosion, wear, and prevents magnetic interference, ensuring stable belt operation.



PRODUCT PARAMETERS

Applicable Belt Width (mm)	Idler Outer Diameter	Shaft Diameter (mm)	Bearing Model	Roller Body Length (mm)	Total Length (mm)	Idler Set Type	Comb Ring Material / Hardness
500	Φ89	20	204	200	220	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A
800	Φ89	20	204	315	335	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A
1000	Φ108	25	305	385	408	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A
1200	Φ108	25	305	465	488	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A
1400	Φ108	25	305	535	558	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A
1600	Φ133	30	306	610	635	Parallel / V-type	NBR (Nitrile Butadiene Rubber), 70-80 Shore A

Conveyor parts · Idler Group Series

HANGING IDLER GROUP

The suspended idler set is used on belt conveyors in confined or tunnel environments. Mounted via a hanging system, it allows flexible height and angle adjustment, supports the belt and material, and offers easy installation while saving space. Commonly used in underground mines and tunnels.



PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Effective Length L1	Total Length L3	Trough Angle	Suspension Type	Material	Drawing No. Reference
500	Φ89	20	204	190	220	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD1DG1.1
650(600)	Φ89	20	204	240	270	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD2DG1.1
800	Φ89	20	204	305	335	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD3DG1.1
1000	Φ108	25	305	375	408	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD4DG1.1
1200	Φ108	25	305	455	488	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD5DG1.1
1400	Φ108	25	305	525	558	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD6DG1.1
1600	Φ133	30	306	600	635	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD7DG1.1
1800	Φ159	30	306	700	735	35°	Lifting Lug / Chain	Q235 / Stainless Steel	TD8DG1.1

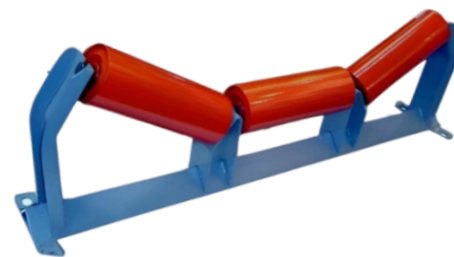
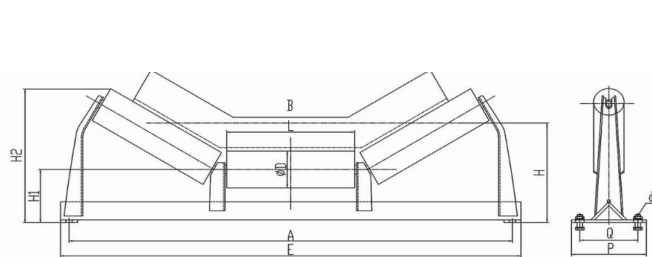
Conveyor parts · Idler Group Series

TROUGH IDLER GROUP



TD75

The trough idler set supports conveyor belts in a U-shape, increasing material capacity. Its multiple rollers prevent spillage and improve transport efficiency, widely used in mining, ports, and power plants.



DTII

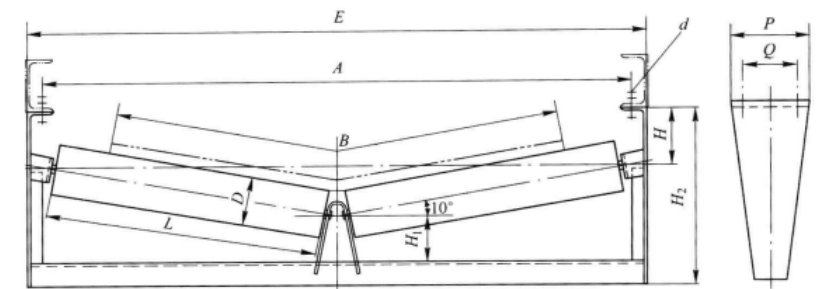
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Middle Idler Length Lz	Side Idler Length Lc	Total Length L3	Trough Angle	Frame Type	Drawing No. Reference
500	Φ89	20	204	200	190	220	30° / 35°	Welded / Stamped	TD1C1.1
650(600)	Φ89	20	204	250	240	270	30° / 35°	Welded / Stamped	TD2C1.1
800	Φ89	20	204	315	305	335	30° / 35°	Welded / Stamped	TD3C1.1
1000	Φ108	25	305	385	375	408	30° / 35°	Welded / Stamped	TD4C1.1
1200	Φ108	25	305	465	455	488	30° / 35°	Welded / Stamped	TD5C1.1
1400	Φ108	25	305	535	525	558	30° / 35°	Welded / Stamped	TD6C1.1
1600	Φ133	30	306	610	600	635	30° / 35°	Welded / Stamped	TD7C1.1
1800	Φ159	30	306	710	700	735	30° / 35°	Welded / Stamped	TD8C1.1

Conveyor parts · Idler Group Series

V-TYPE IDLER GROUP

The V-type idler set supports conveyor belts and gathers material to prevent spillage. With two roller sets arranged in a V-shape (30° -60° angle), it has a load capacity of 100-800kg. It increases transport efficiency by widening the material loading section, ideal for short-distance, low-angle bulk material transport in mines and ports.



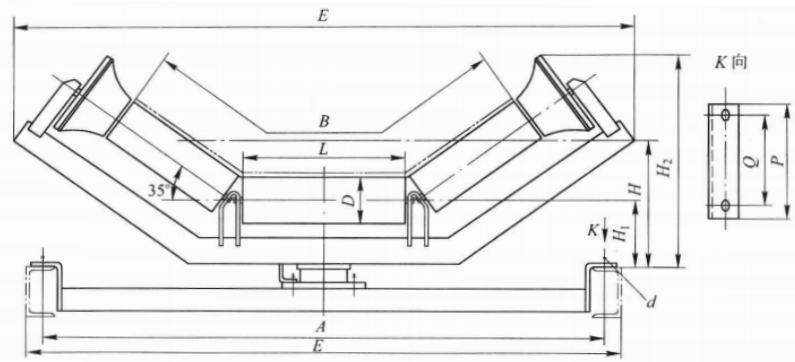
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Single Idler Length L	Total Length L3	V-type Included Angle	Frame Type	Drawing No. Reference
500	Φ89	20	204	250	520	90° / 100°	Welded / Stamped	TD1V1.1
650(600)	Φ89	20	204	325	670	90° / 100°	Welded / Stamped	TD2V1.1
800	Φ89	20	204	400	820	90° / 100°	Welded / Stamped	TD3V1.1
1000	Φ108	25	305	500	1020	90° / 100°	Welded / Stamped	TD4V1.1
1200	Φ108	25	305	600	1220	90° / 100°	Welded / Stamped	TD5V1.1
1400	Φ108	25	305	700	1420	90° / 100°	Welded / Stamped	TD6V1.1
1600	Φ133	30	306	800	1620	90° / 100°	Welded / Stamped	TD7V1.1
1800	Φ159	30	306	900	1820	90° / 100°	Welded / Stamped	TD8V1.1

Conveyor parts · Idler Group Series

FRICTION UPPER CENTERING IDLER GROUP

The friction-adjustable trough roller set features a friction-adjustable structure with multiple rollers, allowing flexible adjustment of the conveyor belt's running direction. It has excellent wear resistance, effectively preventing belt deviation and reducing wear. It is suitable for belt conveyor systems in industries like mining, metallurgy, and chemical engineering, ensuring stable material transport, reducing downtime, and improving overall efficiency.



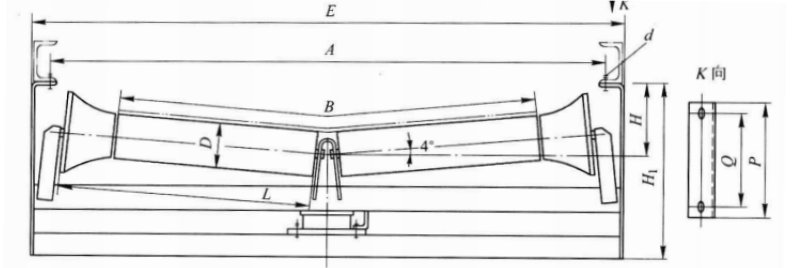
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Effective Length L1	Total Length L3	Friction Wheel Diameter	Self-aligning Angle	Trough Angle	Frame Type	Drawing No. Reference
500	Φ89	20	204	190	220	Φ108	±3° ~±5°	35°	Trough-type	TD1SC1.1
650 (600)	Φ89	20	204	240	270	Φ108	±3° ~±5°	35°	Trough-type	TD2SC1.1
800	Φ89	20	204	305	335	Φ108	±3° ~±5°	35°	Trough-type	TD3SC1.1
1000	Φ108	25	305	375	408	Φ133	±3° ~±5°	35°	Trough-type	TD4SC1.1
1200	Φ108	25	305	455	488	Φ133	±3° ~±5°	35°	Trough-type	TD5SC1.1
1400	Φ108	25	305	525	558	Φ133	±3° ~±5°	35°	Trough-type	TD6SC1.1
1600	Φ133	30	306	600	635	Φ159	±3° ~±5°	35°	Trough-type	TD7SC1.1
1800	Φ159	30	306	700	735	Φ159	±3° ~±5°	35°	Trough-type	TD8SC1.1

Conveyor parts · Idler Group Series

FRICTION LOWER CENTERING IDLER GROUP

The friction-lowering self-aligning roller set uses a bottom friction plate to contact the conveyor belt, automatically correcting misalignment. Comprising multiple rollers and an alignment mechanism, it is wear-resistant, impact-resistant, and operates with low resistance. Suitable for belt conveyors in mining, power plants, and ports, it effectively corrects return belt deviations, reduces wear, ensures smooth operation, and lowers maintenance costs.



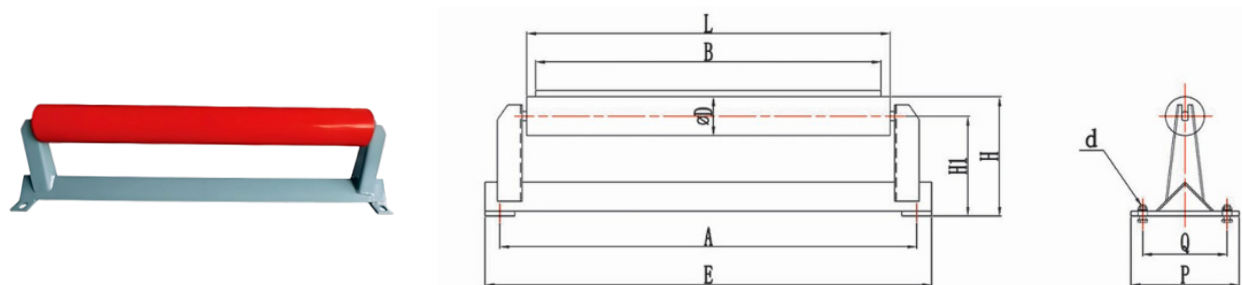
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Effective Length L1	Total Length L3	Friction Wheel Diameter	Self-aligning Angle	Frame Type	Drawing No. Reference
500	Φ89	20	204	190	220	Φ108	±3° ~±5°	Slot Type / Parallel	TD1XC1.1
650(600)	Φ89	20	204	240	270	Φ108	±3° ~±5°	Slot Type / Parallel	TD2XC1.1
800	Φ89	20	204	305	335	Φ108	±3° ~±5°	Slot Type / Parallel	TD3XC1.1
1000	Φ108	25	305	375	408	Φ133	±3° ~±5°	Slot Type / Parallel	TD4XC1.1
1200	Φ108	25	305	455	488	Φ133	±3° ~±5°	Slot Type / Parallel	TD5XC1.1
1400	Φ108	25	305	525	558	Φ133	±3° ~±5°	Slot Type / Parallel	TD6XC1.1
1600	Φ133	30	306	600	635	Φ159	±3° ~±5°	Slot Type / Parallel	TD7XC1.1
1800	Φ159	30	306	700	735	Φ159	±3° ~±5°	Slot Type / Parallel	TD8XC1.1

Conveyor parts · Idler Group Series

FLAT UPPER IDLER GROUP

The flat idler group consists of multiple parallel rollers, featuring a simple and sturdy structure with a smooth and wear-resistant surface. It is mainly used in the carrying section of belt conveyors to provide horizontal support for materials on the conveyor belt, ensuring smooth material transport. It is suitable for industries such as coal, mining, and ports, and can continuously transport bulk, granular, and packaged items, effectively improving transportation efficiency.



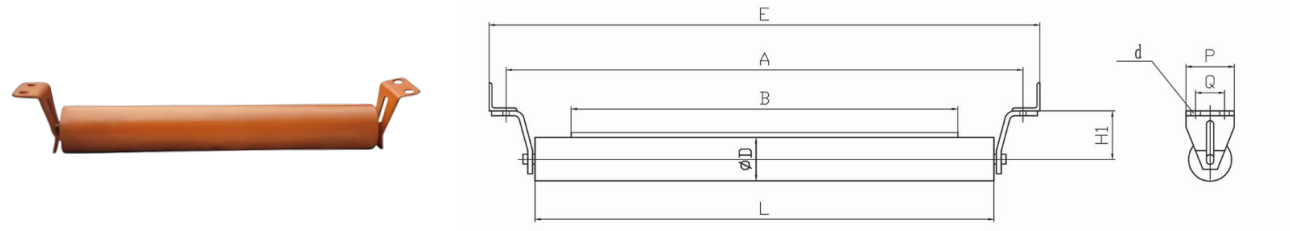
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Idler Length L	Total Length L3	Number of Idlers	Trough Angle	Frame Type	Drawing No. Reference
500	Φ89	20	204	500	520	1	0° (Flat Type)	Stamped / Welded	TD1P1.1
650(600)	Φ89	20	204	650	670	1	0° (Flat Type)	Stamped / Welded	TD2P1.1
800	Φ89	20	204	800	820	1	0° (Flat Type)	Stamped / Welded	TD3P1.1
1000	Φ108	25	305	1000	1020	1	0° (Flat Type)	Stamped / Welded	TD4P1.1
1200	Φ108	25	305	1200	1220	1/2	0° (Flat Type)	Stamped / Welded	TD5P1.1
1400	Φ108	25	305	1400	1420	1/2	0° (Flat Type)	Stamped / Welded	TD6P1.1
1600	Φ133	30	306	1600	1620	2	0° (Flat Type)	Stamped / Welded	TD7P1.1
1800	Φ159	30	306	1800	1820	2	0° (Flat Type)	Stamped / Welded	TD8P1.1

Conveyor parts · Idler Group Series

FLAT LOWER IDLER GROUP

The flat return idler group consists of parallel rollers with a specially treated surface, offering strong wear resistance and smooth rotation. It is mainly used to support the return conveyor belt of belt conveyors, reducing operating resistance and preventing sagging and wear. It is widely applied in industries such as mining, building materials, and chemicals, ensuring stable operation of the conveying system and extending the service life of the conveyor belt.



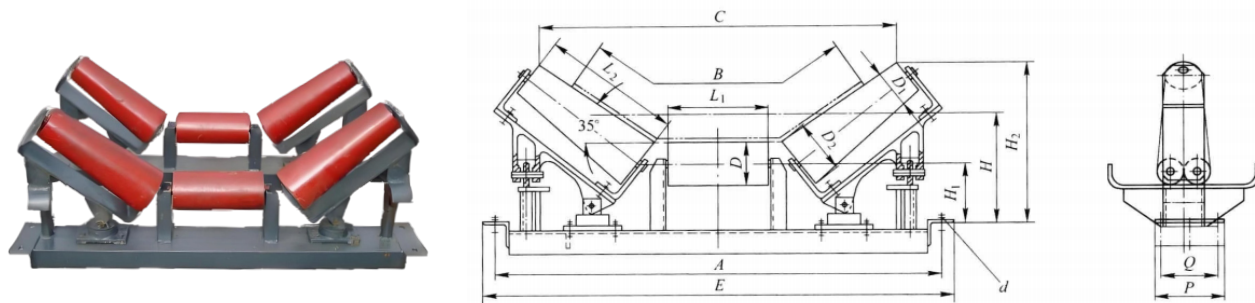
PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Idler Length L	Total Length L3	Number of Idlers	Frame Type	Drawing No. Reference 1	Drawing No. Reference 2
500	Φ89	20	204	500	520	1	Stamped / Welded	TD1X1.1	TD1DG1.1
650(600)	Φ89	20	204	650	670	1	Stamped / Welded	TD2X1.1	TD2DG1.1
800	Φ89	20	204	800	820	1	Stamped / Welded	TD3X1.1	TD3DG1.1
1000	Φ108	25	305	1000	1020	1	Stamped / Welded	TD4X1.1	TD4DG1.1
1200	Φ108	25	305	1200	1220	1	Stamped / Welded	TD5X1.1	TD5DG1.1
1400	Φ108	25	305	1400	1420	1	Stamped / Welded	TD6X1.1	TD6DG1.1
1600	Φ133	30	306	1600	1620	1	Stamped / Welded	TD7X1.1	TD7DG1.1
1800	Φ159	30	306	1800	1820	1	Stamped / Welded	TD8X1.1	TD8DG1.1

Conveyor parts · Idler Group Series

TAPERED UPPER CENTERING IDLER GROUP

The conical self-aligning roller set is used in belt conveyors to correct belt misalignment. With a conical roller design, it generates a lateral force through the difference in roller surface speed when the belt shifts, bringing it back into position. Made primarily of carbon steel with a rust-resistant surface treatment, it effectively ensures the stable operation of the conveyor system.



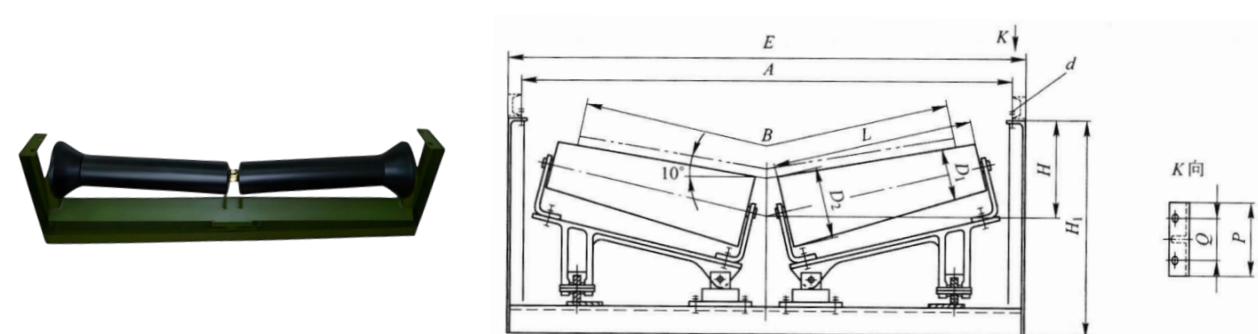
PRODUCT PARAMETERS

Applicable Belt Width B	Tapered Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Middle Idler Length Lz	Side Idler Length Lc	Total Length L3	Trough Angle	Self-aligning Angle	Frame Type	Drawing No. Reference
500	Φ89/Φ76	20	204	200	190	220	35°	±3° ~±5°	Welded / Stamped	TD1ZC1.1
650(600)	Φ89/Φ76	20	204	250	240	270	35°	±3° ~±5°	Welded / Stamped	TD2ZC1.1
800	Φ89/Φ76	20	204	315	305	335	35°	±3° ~±5°	Welded / Stamped	TD3ZC1.1
1000	Φ108/Φ89	25	305	385	375	408	35°	±3° ~±5°	Welded / Stamped	TD4ZC1.1
1200	Φ108/Φ89	25	305	465	455	488	35°	±3° ~±5°	Welded / Stamped	TD5ZC1.1
1400	Φ108/Φ89	25	305	535	525	558	35°	±3° ~±5°	Welded / Stamped	TD6ZC1.1
1600	Φ133/Φ108	30	306	610	600	635	35°	±3° ~±5°	Welded / Stamped	TD7ZC1.1
1800	Φ159/Φ108	30	306	710	700	735	35°	±3° ~±5°	Welded / Stamped	TD8ZC1.1

Conveyor parts · Idler Group Series

TAPERED LOWER CENTERING IDLER GROUP

The conical lowering self-aligning roller set is used in belt conveyors to correct return belt misalignment. Its length suits various belt widths, with a typical cone angle of 10°-15°. The inverted conical design generates a counteracting alignment force through the speed difference between the return belt and rollers. Made mainly of carbon steel with corrosion-resistant treatment, it effectively maintains belt tracking, reduces wear, and enhances conveyor system stability.



PRODUCT PARAMETERS

Applicable Belt Width B	Tapered Idler Outer Diameter (Outer/Inner)	Shaft Diameter d	Bearing Model	Idler Length L	Total Length L3	Trough Angle	Self-aligning Angle	Frame Type	Drawing No. Reference
500	Φ89/Φ76	20	204	500	520	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD1ZX1.1
650(600)	Φ89/Φ76	20	204	650	670	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD2ZX1.1
800	Φ89/Φ76	20	204	800	820	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD3ZX1.1
1000	Φ108/Φ89	25	305	1000	1020	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD4ZX1.1
1200	Φ108/Φ89	25	305	1200	1220	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD5ZX1.1
1400	Φ108/Φ89	25	305	1400	1420	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD6ZX1.1
1600	Φ133/Φ108	30	306	1600	1620	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD7ZX1.1
1800	Φ159/Φ108	30	306	1800	1820	0° (Flat Type)	±3° ~±5°	Welded / Stamped	TD8ZX1.1

Conveyor parts · Triple Idler Hook

TRIPLE IDLER ROLLER CLIMBING HOOK

The triple-idler climbing hook is a key component of belt conveyors, often used with the triple-idler set. It securely attaches the idlers to the conveyor frame, ensuring easy installation and reliable connection. Suitable for mining, docks, and factories, it effectively supports the belt, ensuring smooth and efficient material transport.



PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Shaft Diameter d	Bearing Model	Idler Length L (Middle/Side)	Trough Angle	Climbing Hook Opening Size	Total Weight (kg)	Drawing No. Reference 1	Drawing No. Reference 2
650(600)	Φ89	20	204	325/280	30°	50×60	12~14	TD2PH1.1	TD1LB1.1
800	Φ89	20	204	400/350	30°	50×60	14~16	TD3PH1.1	TD2LB1.1
1000	Φ108	25	305	500/450	30° / 35°	60×70	18~20	TD4PH1.1	TD3LB1.1
1200	Φ108	25	305	600/550	30° / 35°	60×70	20~22	TD5PH1.1	TD4LB1.1
1400	Φ108	25	305	700/650	35°	70×80	22~24	TD6PH1.1	TD5LB1.1
1600	Φ133	30	306	800/750	35°	70×80	26~28	TD7PH1.1	TD6LB1.1

Conveyor parts · Triple Idler Hook

TRIPLE IDLER CONNECTING PLATE

The triple-idler connecting plate links three idlers to form a stable support structure. It improves idler coordination, keeps the belt running smoothly, and prevents misalignment. Widely used in mining, ports, and power plants, it ensures efficient and stable conveyor operation.



PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Trough Angle	Connecting Plate Length L	Width W	Thickness T	Connecting Hole Diameter	Material	Surface Treatment	Drawing No. Reference
500	Φ89	30° / 35°	220~240	60~80	6~8	Φ12~Φ14	Q235B	Spray Coating / Hot-dip Galvanizing	TD1LB1.1
650(600)	Φ89	30° / 35°	270~290	60~80	6~8	Φ12~Φ14	Q235B	Spray Coating / Hot-dip Galvanizing	TD2LB1.1
800	Φ89	30° / 35°	340~360	80~100	8~10	Φ14~Φ16	Q235B	Spray Coating / Hot-dip Galvanizing	TD3LB1.1
1000	Φ108	30° / 35°	420~440	80~100	8~10	Φ14~Φ16	Q235B	Spray Coating / Hot-dip Galvanizing	TD4LB1.1
1200	Φ108	30° / 35°	500~520	100~120	10~12	Φ16~Φ18	Q235B	Spray Coating / Hot-dip Galvanizing	TD5LB1.1
1400	Φ108	35°	580~600	100~120	10~12	Φ16~Φ18	Q235B	Spray Coating / Hot-dip Galvanizing	TD6LB1.1
1600	Φ133	35°	660~680	120~140	12~14	Φ18~Φ20	Q235B	Spray Coating / Hot-dip Galvanizing	TD7LB1.1
1800	Φ159	35°	740~760	120~140	12~14	Φ18~Φ20	Q235B	Spray Coating / Hot-dip Galvanizing	TD8LB1.1

Conveyor parts · Guard Roller

BUFFER GUARD ROLLER

The buffer idler is a key conveyor component, installed under the loading section. It absorbs impact from falling material, reduces belt wear, and extends belt life. Widely used in mining, metallurgy, and ports, it ensures efficient and stable conveyor operation.



PRODUCT PARAMETERS

Applicable Belt Width B	Idler Outer Diameter D	Buffer Layer Thickness	Shaft Diameter d	Bearing Model	Idler Length L	Side Roller Height H	Trough Angle	Material	Surface Treatment	Drawing No. Reference
500	Φ89	10~15	20	204	200/190	80~100	30° /35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD1HC1.1
650(600)	Φ89	10~15	20	204	250/240	80~100	30° /35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD2HC1.1
800	Φ89	12~18	20	204	315/305	100~120	30° /35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD3HC1.1
1000	Φ108	15~20	25	305	385/375	120~150	30° /35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD4HC1.1
1200	Φ108	15~20	25	305	465/455	120~150	30° /35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD5HC1.1
1400	Φ108	18~25	25	305	535/525	150~180	35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD6HC1.1
1600	Φ133	20~30	30	306	610/600	180~200	35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD7HC1.1
1800	Φ159	20~30	30	306	710/700	180~200	35°	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD8HC1.1

Conveyor parts · Guard Roller

SIDE GUARD ROLLER

The side guide roller prevents conveyor belt misalignment. It corrects belt deviation in real time, ensuring stable operation, smooth material transport, and preventing spillage. Widely used in mining, power plants, and ports, it is a key component for conveyor system stability.



PRODUCT PARAMETERS

Applicable Belt Width B	Vertical Idler Outer Diameter D	Vertical Idler Height H	Shaft Diameter d	Bearing Model	Installation Method	Material	Surface Treatment	Drawing No. Reference
500	Φ89	150~200	20	204	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD1LR1.1
650(600)	Φ89	200~250	20	204	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD2LR1.1
800	Φ89/Φ108	250~300	20/25	204/305	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD3LR1.1
1000	Φ108	300~350	25	305	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD4LR1.1
1200	Φ108	350~400	25	305	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD5LR1.1
1400	Φ108/Φ133	400~450	25/30	305/306	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD6LR1.1
1600	Φ133	450~500	30	306	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD7LR1.1
1800	Φ159	500~550	30	306	Bolt Fixed / Welded	Rubber/ Polyurethane + Steel Pipe	Spray Coating / Hot-dip Galvanizing	TD8LR1.1

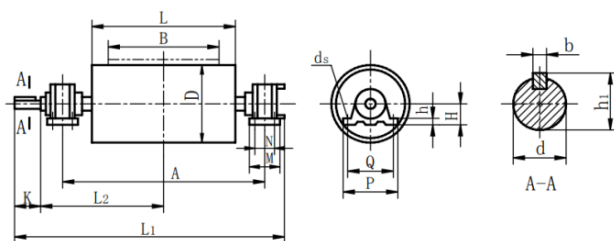
Conveyor parts · Roller

DRIVE ROLLER

The conical self-aligning idler set corrects belt misalignment on the return side of conveyors. With lengths suited to different belt widths and cone angles of 10°–15°, its inverted-cone design generates a corrective force via speed differences between the belt and rollers. Made of corrosion-treated carbon steel, it maintains belt tracking, reduces wear, and improves system stability.



Drive Roller
B500~1400



PRODUCT PARAMETERS

Applicable Belt Width B	Pulley Diameter D	Pulley Length L	Shaft Diameter d	Bearing Model	Rubber Cover Thickness	Rubber Cover Material	Surface Treatment	Transmission Mode	Drawing No. Reference
500	Φ320/Φ400	550~600	50~60	6312/6314	10~15	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD1CD1.1
650(600)	Φ400/Φ500	700~750	60~70	6314/6316	12~18	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD2CD1.1
800	Φ500/Φ630	850~900	70~80	6316/6318	15~20	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD3CD1.1
1000	Φ630/Φ800	1050~1100	80~90	6318/6320	18~25	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD4CD1.1
1200	Φ800/ Φ1000	1250~1300	90~100	6320/6322	20~30	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD5CD1.1
1400	Φ1000/ Φ1250	1450~1500	100~110	6322/6324	25~35	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD6CD1.1
1600	Φ1250/ Φ1400	1650~1700	110~120	6324/6326	30~40	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD7CD1.1
1800	Φ1400/ Φ1600	1850~1900	120~130	6326/6328	35~45	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Gear / Coupling	TD8CD1.1

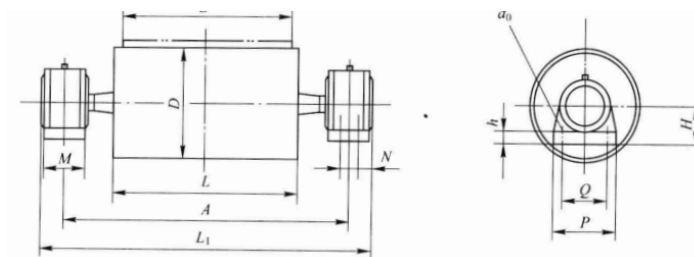
Conveyor parts · Roller

DIRECTION-CHANGING ROLLER

The redirecting roller changes the direction of conveyor belts or tensions them. Available in smooth or rubber surfaces, it adjusts belt angle and position to ensure stable operation, commonly used in mining, warehousing, and material handling.



External redirecting roller



Internal redirecting roller

PRODUCT PARAMETERS

Applicable Belt Width B	Pulley Diameter D	Pulley Length L	Shaft Diameter d	Bearing Model	Rubber Cover Thickness	Rubber Cover Material	Surface Treatment	Installation Method	Drawing No. Reference
500	Φ200/Φ250	550~600	40~50	6310/6312	8~12	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD1GD1.1
650(600)	Φ250/Φ320	700~750	50~60	6312/6314	10~15	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD2GD1.1
800	Φ320/Φ400	850~900	60~70	6314/6316	12~18	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD3GD1.1
1000	Φ400/Φ500	1050~1100	70~80	6316/6318	15~20	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD4GD1.1
1200	Φ500/Φ630	1250~1300	80~90	6318/6320	18~25	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD5GD1.1
1400	Φ630/Φ800	1450~1500	90~100	6320/6322	20~30	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD6GD1.1
1600	Φ800/ Φ1000	1650~1700	100~110	6322/6324	25~35	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD7GD1.1
1800	Φ1000/ Φ1250	1850~1900	110~120	6324/6326	30~40	Rubber/ Polyurethane	Sand Blasting + Rubber Covering	Bearing Seat Fixed	TD8GD1.1

Conveyor parts

Cleaner Series

POLYURETHANE CLEANER

PRODUCT PARAMETERS

Applicable Belt Width B	Scraper Width W	Scraper Thickness T	Scraper Height H	Polyurethane Hardness	Installation Position	Structure Type	Drawing No. Reference
500	550~600	15~20	80~100	85~95 Shore A	Head / Tail / Return	Single / Double Blade	TD1PU1.1
650(600)	700~750	18~25	100~120	85~95 Shore A	Head / Tail / Return	Single / Double Blade	TD2PU1.1
800	850~900	20~30	120~150	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD3PU1.1
1000	1050~1100	25~35	150~180	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD4PU1.1
1200	1250~1300	30~40	180~200	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD5PU1.1
1400	1450~1500	35~45	200~220	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD6PU1.1
1600	1650~1700	40~50	220~250	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD7PU1.1
1800	1850~1900	45~55	250~280	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD8PU1.1



Polyurethane sweeper (GK-P type)

- The P-type polyurethane sweeper scraper is made of polyurethane composite material, integrally vulcanized using a mold. The scraper surface is flat, with good straightness, low friction, high wear resistance, and high strength, providing stable scraping performance and effectively removing fine particles and wet, sticky materials from conveyor belts.
- The P-type polyurethane sweeper scraper is bolted to the mounting base and has a tightening device to eliminate any gaps.
- The P-type polyurethane sweeper scraper holder is easy and quick to replace.
- The P-type polyurethane sweeper scraper is made of polyurethane, providing excellent cleaning results without damaging the conveyor belt.



Stainless steel polyurethane cleaner (GK-H type)



Aluminum-base polyurethane sweeper (GK-H type)



Polyurethane sweeper (GK-H type)

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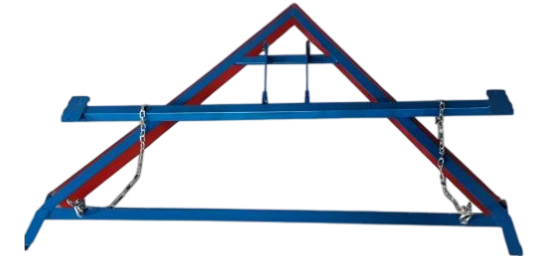
Conveyor parts · Cleaner Series

ALLOY CLEANER

● Empty section cleaners are used on belt conveyors to clean residual material from the bottom of the return conveyor belt. The scrapers are mostly made of polyurethane or rubber, with moderate hardness, wear resistance, and scratch resistance, and the installation height is adjustable. They effectively prevent material accumulation, wear on the belt and idlers, reduce equipment failures, and ensure the cleanliness of the conveyor bottom. They are suitable for various bulk material conveying scenarios such as mines, power plants, and ports.



Reversible/Straight-line polyurethane sweeper for empty sections (GK-I type)



GK-V type polyurethane sweeper for empty sections

PRODUCT PARAMETERS

Applicable Belt Width B	Scraper Width W	Scraper Thickness T	Scraper Height H	Polyurethane Hardness	Installation Position	Structure Type	Drawing No. Reference
500	550~600	15~20	80~100	85~95 Shore A	Head / Tail / Return	Single / Double Blade	TD1PU1.1
650(600)	700~750	18~25	100~120	85~95 Shore A	Head / Tail / Return	Single / Double Blade	TD2PU1.1
800	850~900	20~30	120~150	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD3PU1.1
1000	1050~1100	25~35	150~180	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD4PU1.1
1200	1250~1300	30~40	180~200	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD5PU1.1
1400	1450~1500	35~45	200~220	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD6PU1.1
1600	1650~1700	40~50	220~250	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD7PU1.1
1800	1850~1900	45~55	250~280	85~95 Shore A	Head / Tail / Return	Single / Double / Three-stage	TD8PU1.1

Conveyor parts · Cleaner Series

ALLOY CLEANER

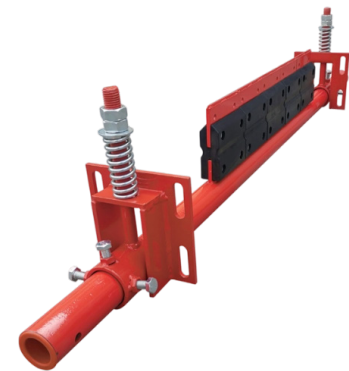
The alloy scraper removes residual material from conveyor belts to ensure smooth operation. Its tungsten carbide blade is heat-, wear-, and corrosion-resistant, while the natural rubber mount adjusts pressure automatically for thorough cleaning. Suitable for mines, power plants, and similar environments.

PRODUCT PARAMETERS

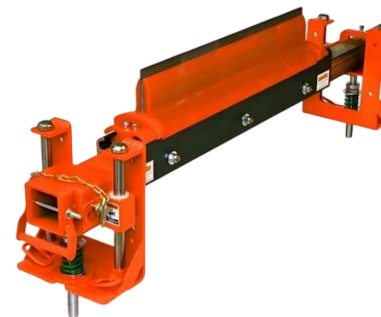
Width B	Blade Width W	Blade Thickness T	Blade Height H	Alloy Hardness	Installation Position	Structure Type	Drawing No. Reference
500	550~600	3~5	20~30	HRA 88-92	Head / Tail / Return	Single / Double Blade	TD1HC1.1
650(600)	700~750	3~5	20~30	HRA 88-92	Head / Tail / Return	Single / Double Blade	TD2HC1.1
800	850~900	4~6	25~35	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD3HC1.1
1000	1050~1100	4~6	25~35	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD4HC1.1
1200	1250~1300	5~8	30~40	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD5HC1.1
1400	1450~1500	5~8	30~40	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD6HC1.1
1600	1650~1700	6~10	35~45	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD7HC1.1
1800	1850~1900	6~10	35~45	HRA 88-92	Head / Tail / Return	Single / Double / Three-stage	TD8HC1.1



Alloy Sweeper (GK-H type)



Alloy Sweeper (GK-P type)



Reversible alloy cleaner



Empty section alloy cleaner

Conveyor parts · Cleaner Series

HAMMER CLEANER

The heavy hammer scraper cleans conveyor belts by applying adjustable hammer pressure, using wear-resistant rubber or polyurethane blades. Fits 500–2400 mm belts, prevents spillage, reduces wear, and is ideal for mines and ports.



PRODUCT PARAMETERS

Applicable Belt Width B	Blade Width W	Blade Thickness T	Counterweight Weight (kg)	Blade Material	Installation Position	Structure Type	Drawing No. Reference
500	550~600	3~5/15~20	10~20	Alloy / Polyurethane	Head / Tail	Single / Double Blade	TD1ZC1.1
650(600)	700~750	3~5/18~25	15~25	Alloy / Polyurethane	Head / Tail	Single / Double Blade	TD2ZC1.1
800	850~900	4~6/20~30	20~30	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD3ZC1.1
1000	1050~1100	4~6/25~35	25~35	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD4ZC1.1
1200	1250~1300	5~8/30~40	30~40	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD5ZC1.1
1400	1450~1500	5~8/35~45	35~45	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD6ZC1.1
1600	1650~1700	6~10/40~50	40~50	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD7ZC1.1
1800	1850~1900	6~10/45~55	50~60	Alloy / Polyurethane	Head / Tail	Single / Double / Three-stage	TD8ZC1.1

Conveyor parts · Cleaner Series

CERAMIC CLEANER

The ceramic scraper cleans conveyor belts efficiently. Made of alumina ceramic, it is highly wear-, heat-, and acid/alkali-resistant. Fits 650–2400 mm belts, extends equipment life, and is ideal for mines and ports.



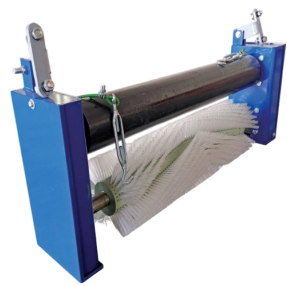
PRODUCT PARAMETERS

Applicable Belt Width B	Blade Width W	Ceramic Plate Specification (L×W×T)	Ceramic Hardness	Installation Position	Structure Type	Drawing No. Reference
500	550~600	50×20×5 / 60×25×6	HRA 90-95	Head / Tail / Return	Single / Double Blade	TD1CC1.1
650(600)	700~750	50×20×5 / 60×25×6	HRA 90-95	Head / Tail / Return	Single / Double Blade	TD2CC1.1
800	850~900	60×25×6 / 80×30×8	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD3CC1.1
1000	1050~1100	60×25×6 / 80×30×8	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD4CC1.1
1200	1250~1300	80×30×8 / 100×35×10	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD5CC1.1
1400	1450~1500	80×30×8 / 100×35×10	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD6CC1.1
1600	1650~1700	100×35×10 / 120×40×12	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD7CC1.1
1800	1850~1900	100×35×10 / 120×40×12	HRA 90-95	Head / Tail / Return	Single / Double / Three-stage	TD8CC1.1

Conveyor parts ·Cleaner Series

ROLLER BRUSH CLEANER

The roller brush scraper cleans conveyor belts by rotating nylon or steel wire bristles, effectively removing adhered material. Driven by a motor, it prevents spillage, reduces belt wear, and is suitable for mining and port applications.



Non-powered roller brush sweeper



Electric roller brush sweeper

PRODUCT PARAMETERS

Applicable Belt Width B	Roller Brush Diameter D	Roller Brush Length L	Bristle Material	Bristle Hardness	Drive Mode	Installation Position	Structure Type	Drawing No. Reference
500	Φ150/Φ200	550~600	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD1GS1.1
650(600)	Φ200/Φ250	700~750	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD2GS1.1
800	Φ250/Φ300	850~900	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD3GS1.1
1000	Φ300/Φ350	1050~1100	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD4GS1.1
1200	Φ350/Φ400	1250~1300	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD5GS1.1
1400	Φ400/Φ450	1450~1500	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD6GS1.1
1600	Φ450/Φ500	1650~1700	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD7GS1.1
1800	Φ500/Φ550	1850~1900	Nylon / Steel Wire / Hybrid	Medium Soft / Medium Hard	Motor / Pulley	Tail / Return	Single Roller Brush / Double Roller Brush	TD8GS1.1



Imported nylon brush roller



International Nylon Bristle Brush Roller



Nylon and steel wire mixed brush roller



Wire brush roller

Conveyor parts · Protection Switch Series

TWO-STAGE DEVIATION SWITCH

- Made with high-strength aluminum alloy die-cast housing, offering strong impact resistance.
- Features two action modes: light misalignment and heavy misalignment.
- High protection level with good sealing, waterproof and dustproof, suitable for harsh environments.
- Large contact capacity, sensitive operation, and reliable performance.



Two-stage misalignment switch



Stainless steel two-stage misalignment switch



Hoist misalignment switch

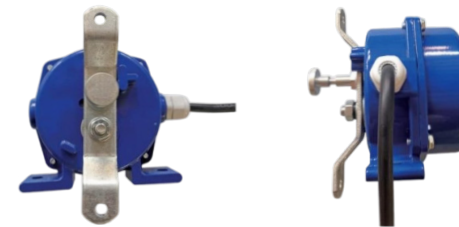
PRODUCT PARAMETERS

Model	Trip Angle	Contact Capacity	Protection Class	Operating Voltage	Installation Spacing	Applicable Belt Width	Drawing No. Reference
KPT1-12-30	1st stage 12°, 2nd stage 30°	AC220V/380V 5A	IP65	AC220V/380V/DC24V	25~30m	500~1800mm	TD1PP1.1
KPT1-20-35	1st stage 20°, 2nd stage 35°	AC220V/380V 5A	IP65	AC220V/380V/DC24V	25~30m	500~1800mm	TD2PP1.1
HFKPT1-12-30	1st stage 12°, 2nd stage 30°	AC220V/380V 5A	IP65	AC220V/380V/DC24V	25~30m	500~1800mm	TD3PP1.1
JPJ-S	1st stage 15°, 2nd stage 30°	AC220V/380V 5A	IP67	AC220V/380V/DC24V	25~30m	500~1800mm	TD4PP1.1

Conveyor parts · Protection Switch Series

BIDIRECTIONAL PULL ROPE SWITCH

- High-strength aluminum alloy precision die-cast housing, providing strong impact resistance.
- High housing protection level, excellent sealing, dustproof, waterproof, and condensation-proof.
- Dual switch outputs, large contact capacity, sensitive operation, and reliable performance.
- Plastic-coated steel wire rope is moisture-proof, acid and alkali resistant, and flame-retardant.
- Comes with an extra-large junction box, supporting customer function upgrades.



Two-way pull cord switch



Indicator light two-way pull cord switch



Stainless steel pull cord switch



Balanced bidirectional pull cord switch

PRODUCT PARAMETERS

Model	Actuating Force	Contact Capacity	Protection Class	Operating Voltage	Installation Spacing	Reset Mode	Applicable Belt Width	Drawing No. Reference
KLT2- II	30~50N	AC220V/380V 5A	IP65	AC220V/380V/DC24V	20~30m	Manual / Automatic	500~1800mm	TD1LS1.1
HFKLT2- II	30~50N	AC220V/380V 5A	IP65	AC220V/380V/DC24V	20~30m	Manual / Automatic	500~1800mm	TD2LS1.1
JLK4-S	30~60N	AC220V/380V 5A	IP67	AC220V/380V/DC24V	20~30m	Manual / Automatic	500~1800mm	TD3LS1.1
EXKLT2- II	30~50N	AC220V/380V 5A	IP65	AC220V/380V/DC24V	20~30m	Manual / Automatic	500~1800mm	TD4LS1.1

Conveyor parts · Protection Switch Series

SPEED DETECTOR/SLIP SWITCH

PRODUCT PARAMETERS

Model	Detection Method	Measuring Range	Operating Accuracy	Contact Capacity	Protection Class	Operating Voltage	Installation Position	Applicable Belt Width	Drawing No. Reference
DH-SA	Contact Type (Detection Wheel)	0.5~5.0m/s	±0.05m/s	AC220V/380V 5A	IP65	AC220V/DC24V	Head / Tail Pulley	500~1800mm	TD1SS1.1
DH-SB	Non-contact Type (Magnetic-Electric / Photoelectric)	0.2~6.0m/s	±0.03m/s	AC220V/380V 5A	IP67	AC220V/DC24V	Head / Tail Pulley	500~1800mm	TD2SS1.1
JDK-1	Contact Type (Detection Wheel)	0.5~4.0m/s	±0.05m/s	AC220V/380V 5A	IP65	AC220V/DC24V	Head / Tail Pulley	500~1800mm	TD3SS1.1

The slip detector ensures safe conveyor operation by monitoring belt speed in real time. If slippage occurs, it triggers audible and visual alarms and can link to the control system to stop the conveyor. Widely used in mines, ports, and power plants, it prevents equipment damage, material blockages, and improves system reliability.



GKDH-II type slip detector



GKDH-III type slip detector



Speed detector (slip switch)



GKDH-III type slip detector



Intelligent speed detector

The speed detector monitors the speed of conveyor systems to prevent slippage and overspeed. It detects speeds from 0.1-10m/s with a response time $\leq 0.5s$ and outputs 4-20mA or switch signals. With an IP65 protection rating, it operates in temperatures from $-25^{\circ}C$ to $70^{\circ}C$. It provides real-time monitoring, alarms, or shutdowns during anomalies, ensuring stable and safe operation. Widely used in industries like mining and power.

Conveyor parts · Protection Switch Series

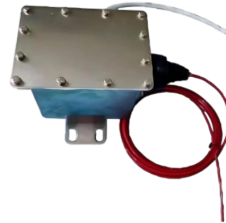
LONGITUDINAL TEAR DETECTOR



ZL-K Longitudinal Tear Detection Switch



ZL-B Longitudinal Tear Detector



Stainless steel longitudinal tear

- A single control box can connect to multiple sensors, suitable for use with long conveyors.
- Features input signal delay and de-jitter function to prevent malfunctions. Includes manual self-test function for high reliability.
- Employs relay output with large contact capacity.
- The sensor has a fully enclosed conductive rubber structure, providing dustproof, waterproof, condensation-proof, vibration-proof, and anti-aging protection.

PRODUCT PARAMETERS

Model	Detection Method	Response Time	Contact Capacity	Protection Class	Operating Voltage	Installation Position	Applicable Belt Width	Drawing No. Reference
SL-A	Contact Type (Tear Switch)	≤ 0.1s	AC220V/380V 5A	IP65	AC220V/DC24V	Below Chute / Guide Chute	500~1800mm	TD1TS1.1
SL-B	Non-contact Type (Ultrasonic / Laser)	≤ 0.05s	AC220V/380V 5A	IP67	AC220V/DC24V	Head / Tail Pulley	500~1800mm	TD2TS1.1
JSL-A	Contact Type (Pull Rope Type)	≤ 0.1s	AC220V/380V 5A	IP65	AC220V/DC24V	Below Chute / Guide Chute	500~1800mm	TD3TS1.1

Conveyor parts · Protection Switch Series

MATERIAL FLOW DETECTOR

- High-strength aluminum alloy precision die-cast housing, providing strong impact resistance.
- High housing protection level, excellent sealing, dustproof, waterproof, and condensation-proof.
- Large contact capacity, sensitive operation, reliable performance, and built-in waterproof wiring cavity for reliable wiring.



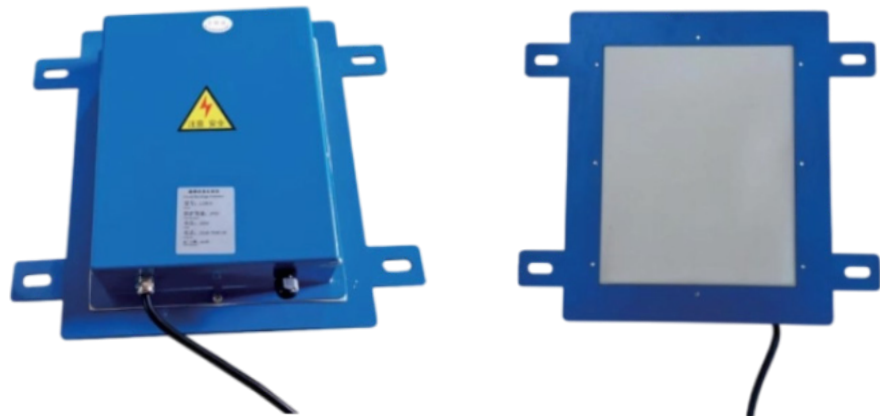
PRODUCT PARAMETERS

Model	Detection Method	Trip Angle / Distance	Contact Capacity	Protection Class	Operating Voltage	Installation Position	Applicable Belt Width	Drawing No. Reference
LL-A	Contact Type (Pendulum Arm)	15° (Material Present) / 30° (Full)	AC220V/380V 5A	IP65	AC220V/DC24V	Head / Middle / Tail	500~1800mm	TD1FS1.1
LL-B	Non-contact Type (Ultrasonic)	50~500mm (Adjustable)	AC220V/380V 5A	IP67	AC220V/DC24V	Head / Middle / Tail	500~1800mm	TD2FS1.1
JLL-A	Contact Type (Pendulum Arm)	12° (Material Present) / 25° (Full)	AC220V/380V 5A	IP65	AC220V/DC24V	Head / Middle / Tail	500~1800mm	TD3FS1.1

Conveyor parts · Protection Switch Series

CHUTE BLOCKAGE DETECTOR

- Easy installation. High enclosure protection level and excellent sealing.
- Powder-coated surface for strong corrosion resistance.
- Independent normally open and normally closed outputs.



PRODUCT PARAMETERS

Model	Detection Method	Trip Angle / Distance	Contact Capacity	Protection Class	Operating Voltage	Installation Position	Applicable Chute Size	Drawing No. Reference
DS-A	Contact Type (Pendulum Arm)	15° (Alarm) / 30° (Shutdown)	AC220V/380V 5A	IP65	AC220V/DC24V	Chute Sidewall / Top	500×500~2000×2000mm	TD1CS1.1
DS-B	Non-contact Type (Ultrasonic)	50~500mm (Adjustable)	AC220V/380V 5A	IP67	AC220V/DC24V	Chute Top	500×500~2000×2000mm	TD2CS1.1
JDS-A	Contact Type (Pendulum Arm)	12° (Alarm) / 25° (Shutdown)	AC220V/380V 5A	IP65	AC220V/DC24V	Chute Sidewall / Top	500×500~2000×2000mm	TD3CS1.1

Conveyor parts · Protection Switch Series

ROTATIONAL LEVEL GAUGE

Rotary paddle level gauges are used to detect the position of materials in silos.



PRODUCT PARAMETERS

Model	Detection Method	Blade Type	Operating Torque	Contact Rating	Protection Grade	Operating Voltage	Mounting Type	Applicable Materials	Drawing No.
UZK-10	Rotary Paddle Type	Three-blade / Paddle / Disc	0.3~1.0 N·m	AC220V/DC24V 5A	IP65	AC220V/DC24V	Flange / Thread	Granular / Powder	TD1RLS1.1
UZK-20	Rotary Paddle Type	Spring Telescopic Blade	0.5~1.5 N·m	AC220V/DC24V 5A	IP65	AC220V/DC24V	Flange / Thread	Large Granular / Block	TD2RLS1.1
EX-UZK-10	Explosion-proof Rotary Paddle Type	Three-blade / Paddle	0.3~1.0 N·m	AC220V/DC24V 5A	IP65	AC220V/DC24V	Flange / Thread	Granular / Powder in Explosion-proof Area	TD3RLS1.1
UZK-30	High-temperature Rotary Paddle Type	Stainless Steel Paddle	0.5~1.5 N·m	AC220V/DC24V 5A	IP65	AC220V/DC24V	Flange	High-temperature Materials (≤ 250°C)	TD4RLS1.1

Conveyor parts · Buffer Bed Series

HEAVY-DUTY BUFFER BED

The heavy-duty buffer bed protects belt conveyors at loading points. It fits belts with widths of 650-2400mm, speeds $\leq 5\text{m/s}$, max particle size $\leq 1000\text{mm}$, and drop height $\leq 5\text{m}$. Featuring double-layer supports, $\geq 75\text{mm}$ thick buffer strips, and high-strength steel frame construction, it absorbs impact, extending belt life. Ideal for high-impact applications like mines and power plants.



Buffer bed



Heavy-duty buffer bed

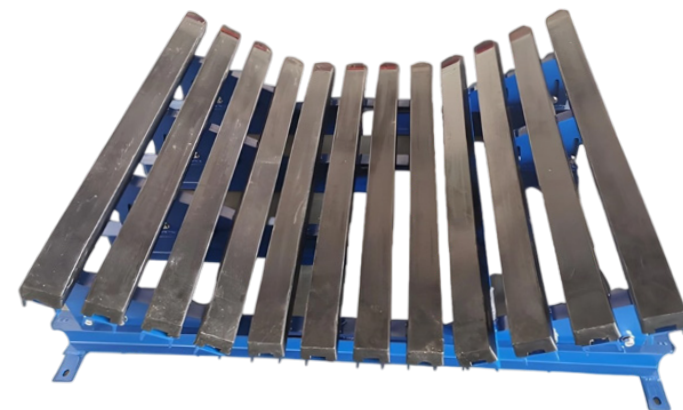
PRODUCT PARAMETERS

Model	Suitable Belt Width	Chute Angle	Suitable Belt Speed	Material Drop Height	Conveying Capacity	Protection Class	Operating Temperature	Buffer Strip Material	Explosion-Proof / Coal Mine Certification
HCC-1000	1000mm	35° (Standard)	$\leq 4.5\text{m/s}$ ($\leq 3.5\text{m/s}$ under load)	$\geq 3\text{m}$	$\geq 6000\text{t/h}$	IP65	-20~90° C	UHMWPE + Flame-Retardant Rubber	Coal Mine MA, Exd I Mb
HCC-1400	1400mm	35° /40°	$\leq 4.5\text{m/s}$	$\geq 3\text{m}$	$\geq 6000\text{t/h}$	IP65	-20~90° C	UHMWPE + Flame-Retardant Rubber	Coal Mine MA, Exd I Mb
DB-HCC-1800	1800mm	35°	$\leq 4.5\text{m/s}$	$\geq 4\text{m}$	$\geq 8000\text{t/h}$	IP67	-25~100° C	UHMWPE + High-Temperature Resistant Rubber	Coal Mine MA, Exd II BT4
HCC-2400	2400mm	35°	$\leq 4.0\text{m/s}$	$\geq 4\text{m}$	$\geq 10000\text{t/h}$	IP67	-20~90° C	UHMWPE + Wear-Resistant Rubber	Coal Mine MA

Conveyor parts · Buffer Bed Series

FLAME-RETARDANT BUFFER BED

The flame-retardant buffer bed protects belt conveyors at loading points in flammable environments like coal mines and chemical plants. Its buffer strips are made of flame-retardant, anti-static polyurethane or rubber, absorbing impact, reducing belt wear, and preventing friction fires to ensure safe conveyor operation.



Flame-retardant spring buffer bed for underground use

PRODUCT PARAMETERS

Model	Suitable Belt Width	Chute Angle	Suitable Belt Speed	Material Drop Height	Conveying Capacity	Flame Retardant Grade	Antistatic Performance	Buffer Strip Structure	Operating Temperature	Protection Class
ZHC-800	800mm	35°	$\leq 3.5\text{m/s}$	$\geq 3\text{m}$	$\geq 4000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (12mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP65
ZHC-1000	1000mm	35°	$\leq 4.0\text{m/s}$	$\geq 3\text{m}$	$\geq 6000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (15mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP65
ZHC-1200	1200mm	35° /40°	$\leq 4.0\text{m/s}$	$\geq 3\text{m}$	$\geq 7000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (15mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP65
ZHC-1400	1400mm	35°	$\leq 4.5\text{m/s}$	$\geq 4\text{m}$	$\geq 8000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (20mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP65
ZHC-1600	1600mm	35°	$\leq 4.5\text{m/s}$	$\geq 4\text{m}$	$\geq 10000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (20mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP65
ZHC-1800	1800mm	35°	$\leq 4.5\text{m/s}$	$\geq 5\text{m}$	$\geq 12000\text{t/h}$	MT113-1995 Class I	Surface Resistance $\leq 1 \times 10^8 \Omega$	Flame-Retardant UHMWPE (25mm) + Flame-Retardant Rubber + Galvanized Steel Back	-20~80° C	IP67

Conveyor parts · Buffer Bed Series

ADJUSTABLE BUFFER BED

The adjustable buffer bed protects belt conveyors at loading points. Its height and angle can be adjusted via screws and pins to suit different conditions. Combined with a high-strength steel frame, it absorbs material impact and reduces belt wear, ideal for mines and power plants.



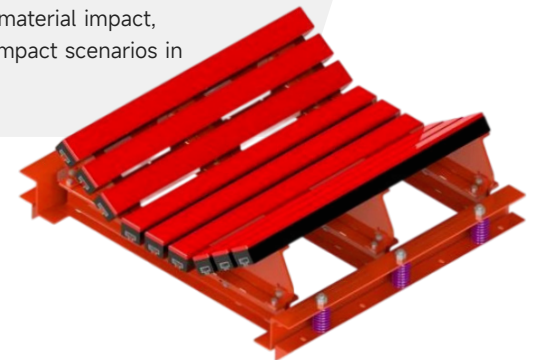
PRODUCT PARAMETERS

Model	Suitable Belt Width	Adjustment Range	Chute Angle Adjustment	Suitable Belt Speed	Material Drop Height	Conveying Capacity	Buffer Strip Material	Adjustment Mechanism	Protection Class	Operating Temperature
KHC-800	800mm	Height ±50mm	30°~40°	≤ 3.5m/s	≥ 3m	≥ 4000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP65	-20~80° C
KHC-1000	1000mm	Height ±60mm	30°~40°	≤ 4.0m/s	≥ 3m	≥ 6000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP65	-20~80° C
KHC-1200	1200mm	Height ±80mm	30°~45°	≤ 4.0m/s	≥ 3m	≥ 7000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP65	-20~80° C
KHC-1400	1400mm	Height ±100mm	30°~45°	≤ 4.5m/s	≥ 4m	≥ 8000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP65	-20~80° C
KHC-1600	1600mm	Height ±100mm	30°~45°	≤ 4.5m/s	≥ 4m	≥ 10000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP67	-20~80° C
KHC-1800	1800mm	Height ±120mm	30°~45°	≤ 4.5m/s	≥ 5m	≥ 12000t/h	UHMWPE + Rubber + Steel Back	Lead Screw + Adjustment Nut	IP67	-20~80° C

Conveyor parts · Buffer Bed Series

SPRING BUFFER BED

The spring buffer bed protects belt conveyors at loading points. Made from high-strength steel and equipped with a spring cushioning system, it can withstand significant material impact, effectively absorbing energy and reducing belt wear. It is suitable for high-impact scenarios in mines and metallurgy.



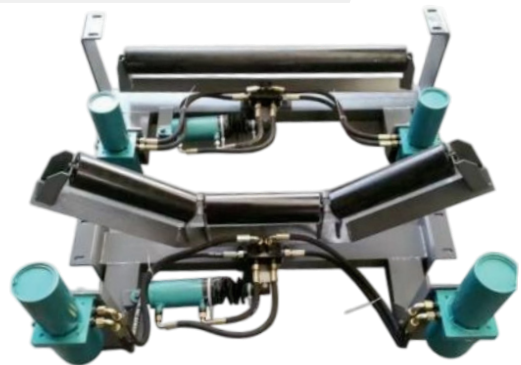
PRODUCT PARAMETERS

Model	Suitable Belt Width (mm)	Chute Angle	Suitable Belt Speed (m/s)	Material Drop Height	Conveying Capacity (t/h)	Buffer Structure	Spring Specification	Buffer Strip Material	Coal Mine / Explosion-Proof (Optional)	Operating Temperature	Protection Class
THC-1000	1000	35°	≤ 3.5	≥ 5m	≥ 6000	Rubber Buffer Strip + Spring Two-stage Buffer	60Si2Mn, wire diameter 12-16mm, compression stroke 30-50mm	UHMWPE(15mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP65
THC-1200	1200	35°/40°	≤ 4.0	≥ 5m	≥ 7000	Rubber Buffer Strip + Spring Two-stage Buffer	60Si2Mn, wire diameter 14-18mm, compression stroke 35-55mm	UHMWPE(15mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP65
THC-1400	1400	35°	≤ 4.5	≥ 6m	≥ 9000	Rubber Buffer Strip + Spring Two-stage Buffer	60Si2Mn, wire diameter 16-20mm, compression stroke 40-60mm	UHMWPE(20mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP65
THC-1600	1600	35°	≤ 4.5m/s	≥ 6m	≥ 11000	Rubber Buffer Strip + Spring Two-stage Buffer	60Si2Mn, wire diameter 18-22mm, compression stroke 45-65mm	UHMWPE(20mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP67
THC-1800	1800	35°	≤ 4.5m/s	≥ 7m	≥ 13000	Rubber Buffer Strip + Spring Two-stage Buffer	60Si2Mn, wire diameter 20-24mm, compression stroke 50-70mm	UHMWPE(25mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP67
THC-1400Z	1400	35°	≤ 4.5m/s	≥ 8m	≥ 10000	Rubber Buffer Strip + Heavy-duty Spring Two-stage Buffer	60Si2Mn, wire diameter 20-22mm, compression stroke 60-80mm	UHMWPE(25mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP65
THC-1600Z	1600	35°	≤ 4.5m/s	≥ 8m	≥ 12000	Rubber Buffer Strip + Heavy-duty Spring Two-stage Buffer	60Si2Mn, wire diameter 22-24mm, compression stroke 65-85mm	UHMWPE(25mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP67
THC-1800Z	1800	35°	≤ 4.5m/s	≥ 10m	≥ 15000	Rubber Buffer Strip + Heavy-duty Spring Two-stage Buffer	60Si2Mn, wire diameter 24-26mm, compression stroke 70-90mm	UHMWPE(25mm) + High Elastic Rubber + Steel Back	MA/Exd I Mb	-20~80° C	IP67

Conveyor parts · Belt Automatic Alignment Device Series

HYDRAULIC AUTOMATIC ALIGNMENT

The Tiptop mechanical alignment device has a simple structure with a core shaft assembly and sealed bearings. Using the differential principle, it adjusts belts without touching edges, preventing damage. Suitable for conveyors in mines and power plants, it ensures stable alignment and extends belt life.



PRODUCT PARAMETERS

Model	Suitable Belt Width	Suitable Belt Speed	Deviation Correction Response Time	Correction Force	Operating Pressure	Hydraulic Fluid	Detection Method	Power Supply Voltage	Explosion-Proof Grade (Optional)	Operating Temperature	Protection Class	Installation Position
YJP-800	800mm	≤ 4.5m/s	≤ 0.5s	≥ 5kN	6~10MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point
YJP-1000	1000mm	≤ 5.0m/s	≤ 0.5s	≥ 8kN	6~12MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point
YJP-1200	1200mm	≤ 5.0m/s	≤ 0.5s	≥ 10kN	8~14MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point
YJP-1400	1400mm	≤ 5.5m/s	≤ 0.5s	≥ 12kN	8~16MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point
YJP-1600	1600mm	≤ 5.5m/s	≤ 0.5s	≥ 15kN	10~18MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point
YJP-1800	1800mm	≤ 6.0m/s	≤ 0.5s	≥ 18kN	10~20MPa	Anti-wear Hydraulic Oil / Flame-Retardant Hydraulic Oil	Photoelectric / Mechanical Idler	AC220V/ AC380V/ DC24V	Exd I Mb/ Exd II BT4	-30~80° C	IP67	Head / Tail / Intermediate Section / Transfer Point

Conveyor parts · Belt Automatic Alignment Device Series

MECHANICAL FOUR-BAR LINKAGE ALIGNMENT

The mechanical four-bar linkage alignment device for belt conveyors uses leverage to extend the detection arm, providing more flexible alignment. It prevents belt misalignment and ensures smooth operation for various conveyor systems.



PRODUCT PARAMETERS

Model	SLQ-800	SLQ-1000	SLQ-1200	SLQ-1400	SLQ-1600	SLQ-1800
Suitable Belt Width	800mm	1000mm	1200mm	1400mm	1600mm	1800mm
Chute Angle	35°	35°	35° /40°	35°	35°	35°
Suitable Belt Speed	≤ 3.5m/s	≤ 4.0m/s	≤ 4.0m/s	≤ 4.5m/s	≤ 4.5m/s	≤ 4.5m/s
Suitable Conveying Capacity	≤ 4000t/h	≤ 6000t/h	≤ 7000t/h	≤ 9000t/h	≤ 11000t/h	≤ 13000t/h
Deviation Correction Response Time	≤ 1s	≤ 1s	≤ 1s	≤ 1s	≤ 1s	≤ 1s
Installation Position	Head / Tail / Intermediate Section / Transfer Point	Head / Tail / Intermediate Section / Transfer Point	Head / Tail / Intermediate Section / Transfer Point	Head / Tail / Intermediate Section / Transfer Point	Head / Tail / Intermediate Section / Transfer Point	Head / Tail / Intermediate Section / Transfer Point
Protection Class	IP65	IP65	IP65	IP65	IP67	IP67
Operating Temperature	-30~80° C	-30~80° C	-30~80° C	-30~80° C	-30~80° C	-30~80° C
Material	Q235 + Nylon / Rubber	Q235 + Nylon / Rubber	Q235 + Nylon / Rubber	Q235 + Nylon / Rubber	Q235 + Nylon / Rubber	Q235 + Nylon / Rubber

Conveyor parts · Belt Automatic Alignment Device Series

TAPERED ROLLER ALIGNMENT

Conical roller alignment devices prevent belt misalignment by automatically adjusting the belt position. They are easy to install, maintenance-free, and extend belt life, commonly used in mines, ports, and power plants.



PRODUCT PARAMETERS

Model	Belt Width	Trough Angle	Conical Roller Spec. (Diameter × Length)	Max Belt Speed	Max Capacity	Mounting Position	Ingress Protection	Operating Temp.	Material
ZG-800	800 mm	35°	φ89 × (150+300+150) mm	≤ 3.0 m/s	≤ 3000 t/h	Intermediate / Tail / Transfer Point	IP65	-30~80 °C	Q235 + Rubber / Nylon
ZG-1000	1000 mm	35°	φ108 × (180+360+180) mm	≤ 3.5 m/s	≤ 4000 t/h	Intermediate / Tail / Transfer Point	IP65	-30~80 °C	Q235 + Rubber / Nylon
ZG-1200	1200 mm	35° / 40°	φ108 × (200+400+200) mm	≤ 3.5 m/s	≤ 5000 t/h	Intermediate / Tail / Transfer Point	IP65	-30~80 °C	Q235 + Rubber / Nylon
ZG-1400	1400 mm	35°	φ127 × (220+440+220) mm	≤ 4.0 m/s	≤ 6000 t/h	Intermediate / Tail / Transfer Point	IP67	-30~80 °C	Q235 + Rubber / Nylon
ZG-1600	1600 mm	35°	φ127 × (240+480+240) mm	≤ 4.0 m/s	≤ 7000 t/h	Intermediate / Tail / Transfer Point	IP67	-30~80 °C	Q235 + Rubber / Nylon
ZG-1800	1800 mm	35°	φ133 × (260+520+260) mm	≤ 4.0 m/s	≤ 8000 t/h	Intermediate / Tail / Transfer Point	IP67	-30~80 °C	Q235 + Rubber / Nylon

Conveyor parts · Belt Automatic Alignment Device Series

ELECTRIC ALIGNMENT

The electric belt alignment device automatically corrects misalignment, features a corrosion-resistant stainless steel control box, modular easy installation, and a high-thrust actuator for stable operation. Suitable for all conveyor systems.



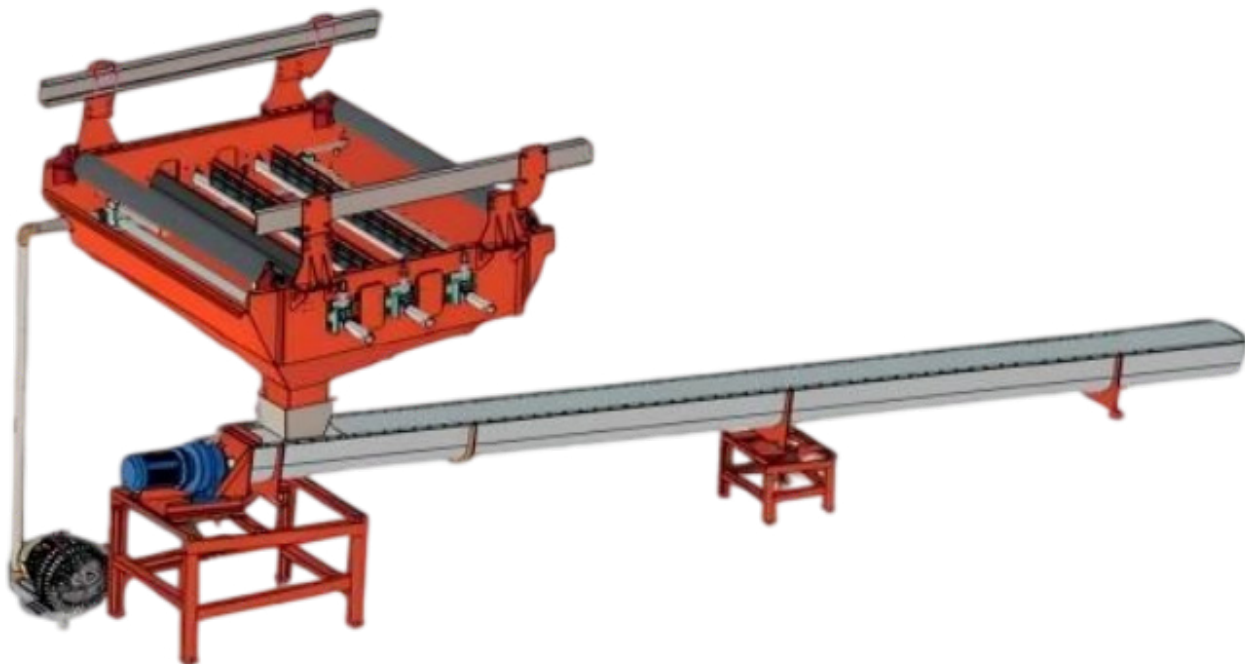
PRODUCT PARAMETERS

Model	DDJP-800	DDJP-1000	DDJP-1200	DDJP-1400	DDJP-1600	DDJP-1800
Belt Width	800 mm	1000 mm	1200 mm	1400 mm	1600 mm	1800 mm
Max Belt Speed	≤ 4.0 m/s	≤ 4.5 m/s	≤ 4.5 m/s	≤ 5.0 m/s	≤ 5.0 m/s	≤ 5.5 m/s
Deviation Correction Response Time	≤ 1 s	≤ 1 s	≤ 1 s	≤ 1 s	≤ 1 s	≤ 1 s
Min Deviation Correction Force	≥ 3 kN	≥ 5 kN	≥ 8 kN	≥ 10 kN	≥ 12 kN	≥ 15 kN
Drive Mode	Electric Push Rod / Screw	Electric Push Rod / Screw	Electric Push Rod / Screw	Electric Push Rod / Screw	Electric Push Rod / Screw	Electric Push Rod / Screw
Detection Mode	Photoelectric / Mechanical Idler Roller	Photoelectric / Mechanical Idler Roller	Photoelectric / Mechanical Idler Roller	Photoelectric / Mechanical Idler Roller	Photoelectric / Mechanical Idler Roller	Photoelectric / Mechanical Idler Roller
Power Supply Voltage	AC220V / AC380V / DC24V	AC220V / AC380V / DC24V	AC220V / AC380V / DC24V	AC220V / AC380V / DC24V	AC220V / AC380V / DC24V	AC220V / AC380V / DC24V
Operating Temperature	-30~70 °C	-30~70 °C	-30~70 °C	-30~70 °C	-30~70 °C	-30~70 °C
Ingress Protection	IP65	IP65	IP65	IP67	IP67	IP67
Mounting Position	Head / Tail / Intermediate / Transfer Point	Head / Tail / Intermediate / Transfer Point	Head / Tail / Intermediate / Transfer Point	Head / Tail / Intermediate / Transfer Point	Head / Tail / Intermediate / Transfer Point	Head / Tail / Intermediate / Transfer Point

Conveyor parts · Cleaning Box Series

AUTOMATIC AIR-WATER CLEANING BOX

The automatic water and air cleaning box uses water jets, polyurethane scrapers, and air knives for efficient conveyor belt cleaning. It operates autonomously with an intelligent control system, synced with conveyor signals, to remove materials and maintain belt cleanliness. It's commonly used in coal mining, ports, and power plants.



PRODUCT PARAMETERS

Model	FSQX-800	FSQX-1000	FSQX-1200	FSQX-1400	FSQX-1600	FSQX-1800
Suitable Belt Width (mm)	800	1000	1200	1400	1600	1800
Water System Pressure (MPa)	0.6~1.2	0.6~1.2	0.8~1.5	0.8~1.5	1.0~1.8	1.0~1.8
Air System Pressure (MPa)	0.4~0.8	0.4~0.8	0.5~0.9	0.5~0.9	0.6~1.0	0.6~1.0
Cleaning Efficiency	≥ 95%	≥ 95%	≥ 96%	≥ 96%	≥ 97%	≥ 97%
Response Time	≤ 0.5s	≤ 0.5s	≤ 0.5s	≤ 0.5s	≤ 0.5s	≤ 0.5s
Power Supply Voltage	AC220V/AC380V/DC24V	AC220V/AC380V/DC24V	AC220V/AC380V/DC24V	AC220V/AC380V/DC24V	AC220V/AC380V/DC24V	AC220V/AC380V/DC24V
Explosion-proof Grade (Optional)	Exd I Mb/Exd II BT4	Exd I Mb/Exd II BT4	Exd I Mb/Exd II BT4	Exd I Mb/Exd II BT4	Exd I Mb/Exd II BT4	Exd I Mb/Exd II BT4
Operating Temperature	-20~80℃	-20~80℃	-20~80℃	-20~80℃	-20~80℃	-20~80℃
Protection Grade	IP65	IP65	IP65	IP67	IP67	IP67
Installation Position	Return section (1~3m after discharge pulley)	Return section (1~3m after discharge pulley)	Return section (1~3m after discharge pulley)	Return section (1~3m after discharge pulley)	Return section (1~3m after discharge pulley)	Return section (1~3m after discharge pulley)
Material Recovery Method	Screw conveyor / Scraper conveyor	Screw conveyor / Scraper conveyor	Screw conveyor / Scraper conveyor	Screw conveyor / Scraper conveyor	Screw conveyor / Scraper conveyor	Screw conveyor / Scraper conveyor

DOMESTIC OFFICES

There are 35 direct offices nationwide (Taiyuan, Yangquan, Changzhi, Jincheng of Shanxi; Xi'an of Shaanxi; Zhengzhou of Henan; Shijiazhuang, Baoding of Hebei; Shanghai; Hangzhou of Zhejiang; Nanjing, Xuzhou of Jiangsu; Foshan of Guangdong; Wuhan of Hubei; Hefei of Anhui; Baotou, Wuhai of Inner Mongolia; Ürümqi of Xinjiang; Yinchuan of Ningxia; Tianshui of Gansu; Harbin of Heilongjiang; Changchun of Jilin; Shenyang of Liaoning; Beijing; Tianjin; Jinan of Shandong; Quanzhou of Fujian; Nanchang of Jiangxi; Changsha of Hunan; Chongqing; Chengdu of Sichuan; Kunming of Yunnan; Nanning of Guangxi; Guiyang of Guizhou; Haikou of Hainan)

Office Distribution



AFTER-SALES SERVICE



We adhere to the quality policy of **Striving for first-class products and ensuring premium services**. We provide customers with convenient, reassuring and satisfactory services systematically and comprehensively throughout pre-sales, sales and after-sales stages.

Our tenet: **All we do today is to meet the needs of users.**



Pre-sales

Provide detailed technical data, professional technical consultation and customized design solutions, assist customers in optimal selection. While meeting customer needs, offer products with the best cost performance.



Sales

Each product is equipped with detailed installation, commissioning and operation manuals. We guide customers in installation, commissioning and maintenance, and provide technical training as required. Quality files are established for lifelong tracking after sales.



After-sales

Provide professional and efficient services including technical consultation, spare parts replacement and on-site problem solving. Conduct regular visits to understand usage and continuously improve products. Communicate with customers through various channels to upgrade service quality.