

# SANY DRAG CONVEYER 三一刮板输送机

Product Brochure  
产品图册

SANY





## Company Profile

Founded in 2004, SANY Heavy Equipment Co., Ltd. is a large construction equipment manufacturer and one of the core business enterprise of SANY Group – a global market pioneer of equipment manufacturing. SANY Heavy Equipment specializes in the research and development, manufacturing and marketing of mining machinery, set of equipment for coal excavation, mining, and transportation. It has more than 50 categories of leading products in the world, such as the off-highway mining truck, dump truck, mining and tunneling machine, hydraulic support, roadheader, drag conveyor, coal cutter, etc.

### Products' Footprints

With 18 years of constantly innovation and moving forward, SANY Heavy Equipment has delivered its products to more than 20 countries and regions such as Russia, India, Indonesia, Brazil, Argentina, Ukraine, Turkey, Mongolia, Poland, South Africa, West Africa, Vietnam, Thailand, the Philippines, etc. It has established 13 domestic subsidiary companies and its 24h sales and services cover 4 continents. SANY Heavy Equipment keeps exploring more possibilities to expand its reach and innovate its way of doing business as well as to raise the standard and answer the call for new market needs.

### Innovation and Research

Consisting of the Research and Development Departments of Excavation, Intelligent Technology, Wide-Body Dump Truck, Purified Water Support, and Coal Cutter, the Research Institute of SANY Heavy Equipment has been recognized as Chinese National Technical Center and High-Tech Enterprise. It has a National Postdoctoral Research Workstation, a first Academician Workstation in industry, a Continental Engineering Center and a Continental Engineer Laboratory. It also has passed the information security certification of CNAS (China National Accreditation Service for Conformity Assessment) and American standard ANAB (ANSI-ASQ National Accreditation Board).

### Working on the Future

SANY Heavy Equipment is a forward-looking company that was born in a time of change and now looks for any opportunity in those changes that will lead the way to the future. It is unleashing the power of data in the connectivity of machines, realizing smart manufacturing and autonomous operation with some models. The efforts to add a new electric product portfolio makes SANY Heavy Equipment stand out in today's digital world and is also part of its sustainable solutions.






# SANY Drag Conveyor

Adhering to the high-quality characteristics of SANY products, SANY drag conveyor features full spectrum, easy matching, super wear-resistance, high reliability, soft start and self-diagnosis, with the coal throughput far exceeding the industry level. Now, we have a full range of drag conveyors and gateway equipment to meet the matching needs of conveying equipment in fully mechanized working faces and fully mechanized top coal caving faces with an annual output of 0.3 to 10 million tons under different geological conditions. SANY Heavy Equipment is the only enterprise in the industry that can provide coal cutters, supports and drag conveyors at the same time. Its highly integrated, modular and automatic products can realize production with fewer workers, unmanned and intelligent production in fully mechanized working faces.


## High-performance Coal Drag Master

### Six Key Features


#### High reliability

 The gateway sides, scrapers and dumbbells have undergone destructive tests, the central gateway has undergone 10,000 push-pull tests, and the complete machine has undergone no-load and three-machine matching inspection before delivery. Thus, the complete test system and the advanced drag conveyor test bench can ensure the reliability of the complete machine.


#### Soft start

 The split and integrated variable frequency soft start technology is adopted to realize heavy-duty impact-free start and variable speed drive of drag conveyor.


#### Full spectrum

 SANY drag conveyor can meet the matching requirements of conveyors under any mining conditions, and a full range of drag conveyors and matching gateway loaders, crushers, self-advancing devices at the tail of belt conveyor, and loader self-advancing devices are available.


#### Super wear-resistance

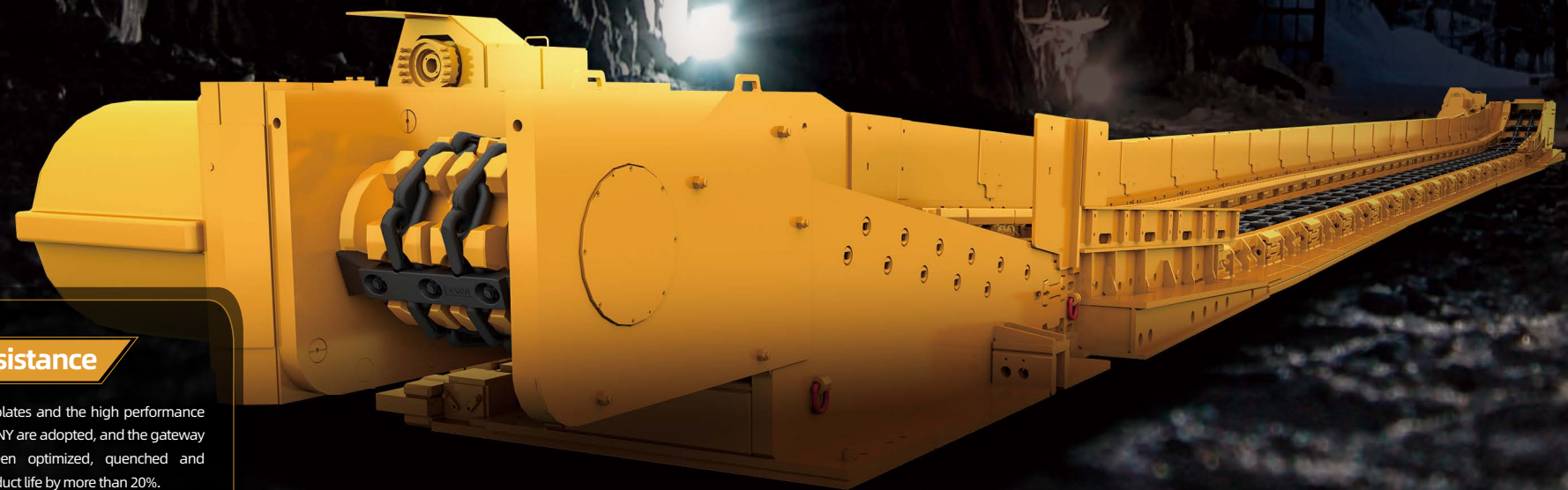
 The surfacing high-Cr wear plates and the high performance wear plates developed by SANY are adopted, and the gateway side components have been optimized, quenched and tempered, increasing the product life by more than 20%.

#### Self-diagnosis

 It has the functions of motor & reducer health model and fault prediction, and telescopic tail on-line monitoring, realizing the fault early warning, maintenance prompt and chain breaking protection of drag conveyor.

#### Easy matching

 SANY drag conveyor adopts the design of single shaft extension sprocket assembly and telescopic cylinder installed at the telescopic tail on the goaf side to avoid interference with the coal cutter so that the coal cutter can cut the triangular coal thoroughly, meeting the matching requirements of coal cutters and supports of 05 mainstream manufacturers.





SGZ630 series drag conveyors



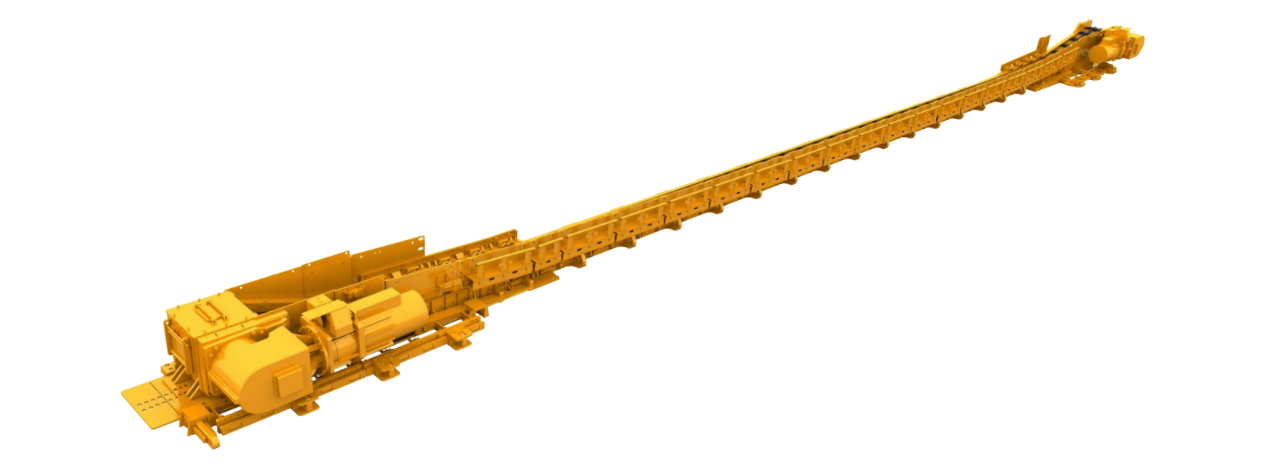
Product features

- Applicable to working faces with an annual output below 0.6 million tons.
- Matching gateway side type and shovel board type thin seam coal cutters for fully mechanized working faces and high-grade conventional mining working faces.
- High-strength wear plates such as NM400 equipped in the middle.
- Single shaft extension sprocket assembly, with specially optimized tooth shape and material, the hardness of the tooth surface above 55 HRC, and the depth of the wear layer above 10 mm.

Technical parameters

Item Name	Parameter
Product Model	SGZ630/400
Delivery Capacity	400t/h
Rated Length	315m
Installed Power	2x200kW
Working Voltage	1140V
Traction Mode	Gear-Eicotrack Chainless Traction
Specification of Middle Trough (L*Inner Width*H)	1500x590x220
Round-Link Chain	Flat Chain 26x92-C
Chain Speed	1.0m/s
Chain Tight Mode	Brake Disc

SGZ730 series drag conveyors



Product features

- Applicable to working faces with an annual output of 0.6-1.0 million tons.
- Matching thin seam coal cutters for fully mechanized working faces and high-grade conventional mining working faces.
- High-strength wear plates such as JFE and NM400 equipped in the middle.
- Single shaft extension sprocket assembly, with specially optimized tooth shape and material, the hardness of the tooth surface above 55 HRC, and the depth of the wear layer above 10 mm.

Technical parameters

Item Name	Technical Index	
Product Model	SGZ730/320	SGZ730/200
Delivery Capacity	700t/h	400t/h
Rated Length	180m	160m
Installed Power	2x160kW	200kW
Working Voltage	1140V	1140V
Traction Mode	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction
Specification of Middle Trough (L*Inner Width*H)	1500x690x220	1500x690x255
Round-Link Chain	Flat Chain 26x92-C	Chain 26x92-C
Chain Speed	1.0m/s	1.0m/s
Chain Tight Mode	Brake Disc	Hydraulic Motor

SGZ764 series drag conveyors



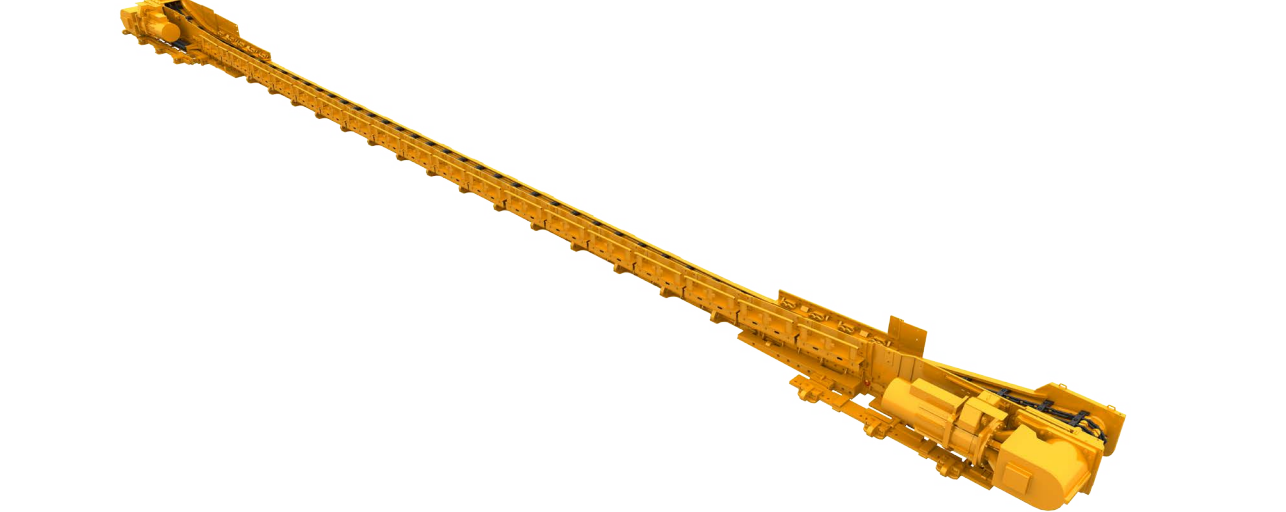
Product features

- Applicable to working faces with an annual output of 1.0-2.0 million tons.
- Matching thin seam and medium-thick seam coal cutters.
- High-strength wear plates such as composite plate, JFE and NM400 equipped in the middle.
- Single shaft extension sprocket assembly, with specially optimized tooth shape and material, the hardness of the tooth surface above 55 HRC, and the depth of the wear layer above 10 mm.
- High-quality alloy steel cast gateway side.

Technical parameters

Item	Parameter				
Product Model	SGZ764/800	SGZ764/500	SGZ764/400	SGZ764/264	SGZ764/250
Delivery Capacity	1000t/h	1000t/h	800t/h	800t/h	800t/h
Rated Length	250m	200m	180m	130m	80m
Installed Power	2x400kW	2x250kW	2x200kW	2x132kW	2x125kW
Working Voltage	1140V	1140V	1140V	1140V	1140V
Traction Mode	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction
Specification of Middle Trough (L*Inner Width*H)	1500x724x303	1500x724x255	1500x724x290	1500x724x300	1513x724x290
Round-Link Chain	Chain 34x126-C	Chain 26x92-C	Chain 26x92-C	Chain 26x92-C	Chain 26x92-C
Chain Speed	1.1m/s	1.0m/s	1.0m/s	1.0m/s	1.0m/s
Chain Tight Mode	Brake Disc/ Retractable tail	Brake Disc	Brake Disc	Brake Disc	Brake Disc

SGZ800 series drag conveyors



Product features

- Applicable to working faces with an annual output of 2.0-3.0 million tons.
- High-strength wear plates such as double-layer composite plate, JFE and NM400 equipped in the middle.
- Single shaft extension sprocket assembly, with specially optimized tooth shape and material, the hardness of the tooth surface above 55 HRC, and the depth of the wear layer above 10 mm.
- Quenched and tempered high-quality alloy steel cast gateway side.

Technical parameters

Item	Parameter	
Product Model	SGZ800/1050	SGZ800/630
Delivery Capacity	1500t/h	1500t/h
Rated Length	250m	180m
Installed Power	2x525kW	2x315kW
Working Voltage	1140V	1140V
Traction Mode	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction
Specification of Middle Trough (L*Inner Width*H)	1500x800x303	1500x800x303
Round-Link Chain	Chain 34x126-C	Chain 34x126-C
Chain Speed	1.14m/s	1.1m/s
Chain Tight Mode	Hydraulic Motor/Retractable tail	Hydraulic Motor /Retractable tail

SGZ900 series drag conveyors



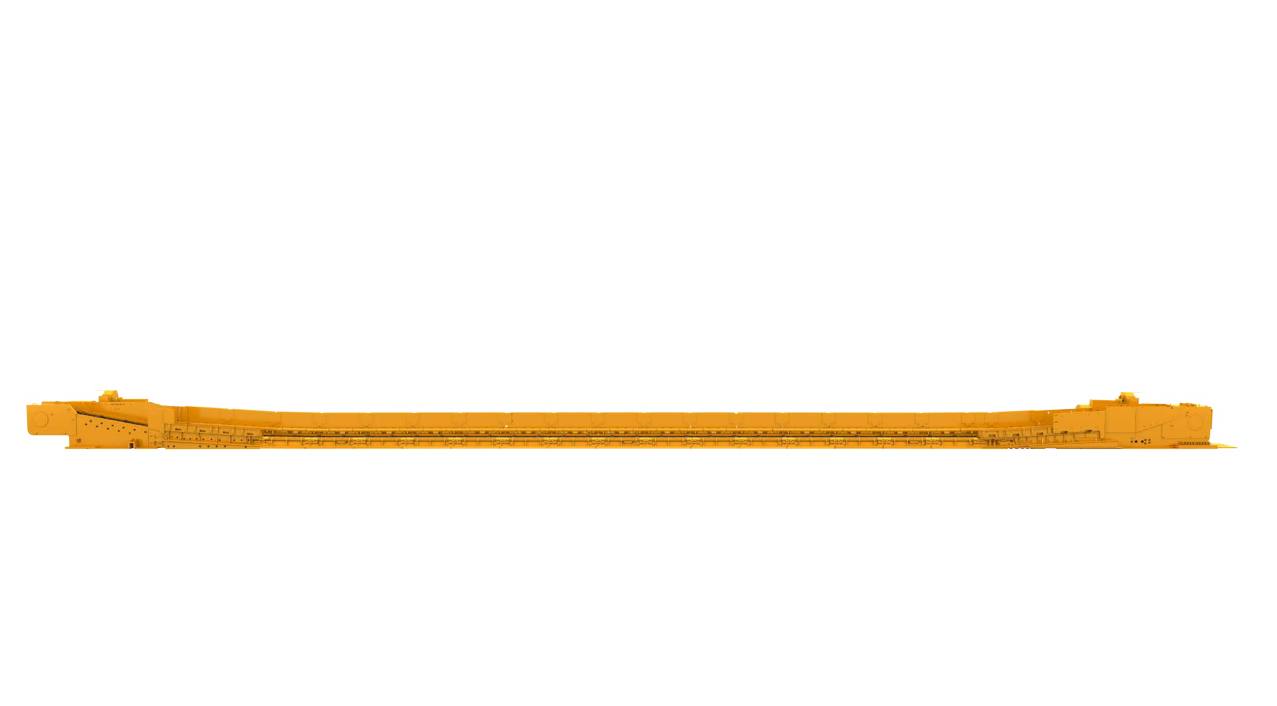
Product features

- Applicable to working faces with an annual output of 3.0-4.0 million tons.
- Optional end unloading or cross side unloading head.
- Matching 38\*137 compact chain, with higher reliability.
- High-strength wear plates such as double-layer composite plate, JFE and hardox equipped in the middle.
- Single shaft extension sprocket assembly, with specially optimized tooth shape and material, the hardness of the tooth surface above 55 HRC, and the depth of the wear layer above 10 mm
- Automatic telescopic tail equipped.
- Matching variable frequency soft start and intelligent monitoring system.

Technical parameters

Item	Parameter			
Product Model	SGZ900/1050	SGZ900/800	SGZ900/400	SGZ900/315
Delivery Capacity	1800t/h	1800t/h	2000t/h	2000t/h
Rated Length	220m	190m	50m	50m
Installed Power	2x525kW	2x400kW	400kW	315kW
Working Voltage	3300V	3300V	3300V	3300V
Traction Mode	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	-	-
Specification of Middle Trough (L*Inner Width*H)	1750X900X320	1750X900X320	1500X900	1500X900
Round-Link Chain	Chain 38x137-C	Chain 38x137-C	Chain 38x137-C	Chain 38x137-C
Chain Speed	1.2m/s	1.1m/s	1.7m/s	1.4m/s
Chain Tight Mode	Hydraulic Motor/ Retractable tail	Hydraulic Motor / Retractable tail	Hydraulic Motor/ Retractable tail	Hydraulic Motor / Retractable tail

SGZ1000 series drag conveyors



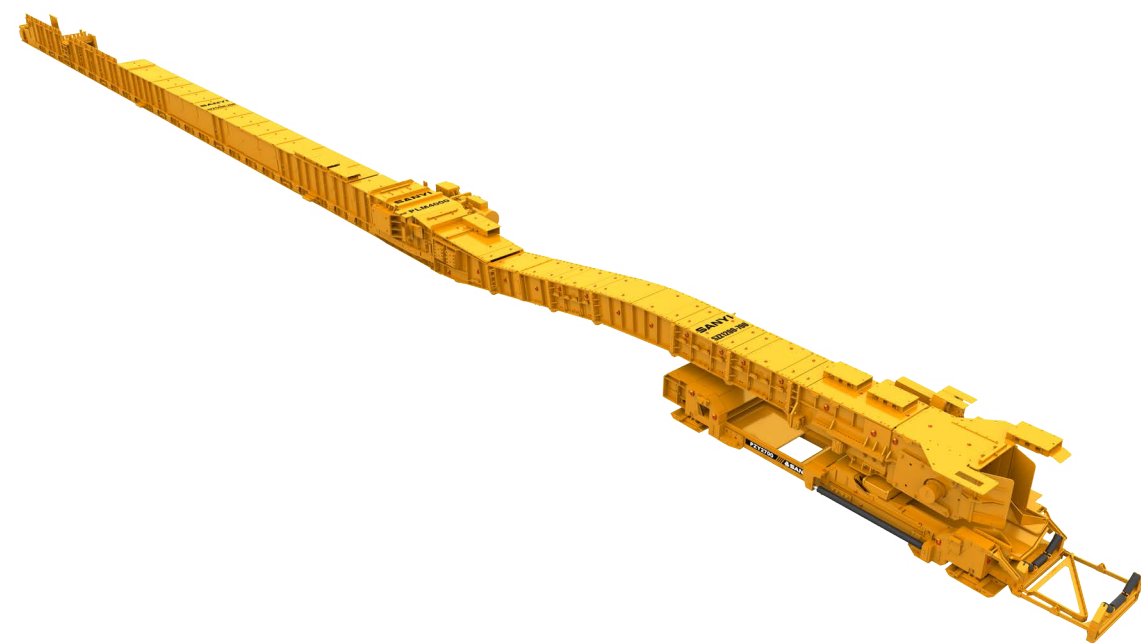
Product features

- Applicable to working faces with an annual output of 4.0-5.0 million tons.
- Specially optimized tooth shape and material, with the depth of the wear layer above 12 mm.
- High-strength wear plates such as double-layer composite plate, JFE and hardox equipped in the middle.
- Quenched and tempered high-quality alloy steel cast gateway side with Cr, Mo, Ti and other elements, whose performance is much higher than that of the conventional ZG30MnSi.
- Automatic telescopic tail equipped.
- Matching variable frequency soft start and intelligent monitoring system.

Technical parameters

Item	Parameter				
Product Model	SGZ1000/2*1000	SGZ1000/2*855	SGZ1000/1050	SGZ1000/525	SGZ1000/400
Delivery Capacity	2000t/h	2200t/h	2000t/h	2500t/h	2500t/h
Rated Length	300m	300m	250m	65m	50m
Installed Power	2x1000kW	2x855kW	2x525kW	525kW	400kW
Working Voltage	3300V	3300V	3300V	3300V	3300V
Traction Mode	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	Gear-Eicotrack Chainless Traction	-	-
Specification of Middle Trough (L*Inner Width*H)	1750X1000X370	1750X1000X350	1750X1000X352	1500x1000	1500x1000
Round-Link Chain	Flat Chain 48x152-C	Flat Chain 48x152-C	Flat Chain 42x146-C	Chain 34x126-C	Chain 34x126-C
Chain Speed	1.36m/s	1.42m/s	1.36m/s	1.17m/s	1.5m/s
Chain Tight Mode	Hydraulic Motor / Retractable tail	Hydraulic Motor / Retractable tail	Hydraulic Motor / Retractable tail	Hydraulic Motor / Retractable tail	Hydraulic Motor / Retractable tail

SZZ series drag conveyors



Product features

- The gateway stage loader can be used together with the working face drag conveyor, crusher and self-advancing device, so that the coal is transferred from the drag conveyor to the belt conveyor through the loader.

Technical parameters

Item	Parameter				
Product Model	SZZ630/132	SZZ764/200	SZZ764/160	SZZ800/400	SZZ800/315
Delivery Capacity	600t/h	1000t/h	1000t/h	1800t/h	1800t/h
Rated Length	45m	45m	50m	50m	50m
Installed Power	132kW	200kW	160kW	400kW	315kW
Working Voltage	1140V	1140V	1140V	3300V	1140/3300V
Traction Mode	-	-	-	-	-
Specification of Middle Trough (L*Inner Width*H)	1500x590x280	1500x724	1500x724	1500x800	1500x800
Round-Link Chain	Chain 26x92-C	Chain 30x108-C	Chain 26x92-C	Chain 34x126-C	Chain 34x126-C
Chain Speed	1.2m/s	1.25m/s	1.3m/s	1.4m/s	1.4m/s
Chain Tight Mode	Brake Disc	Brake Disc	Brake Disc	Brake Disc	Brake Disc/ Hydraulic Motor

PZY series drag conveyors



Product features

- It is used together with the gateway belt conveyor to support the gateway loader, which can shorten the belt conveyor under the condition of non-shutdown for gateway loader.

Technical parameters

Item	Parameter
Product Model	PZY2301
Strap Width	1400mm
Working Medium	Emulsion
Working Pressure	31.4Mpa
Cylinder Stroke	2700mm
Increase Oil Stroke	250mm
Max. Tension of Push Cylinder	480kN/210kN (Push/Pull) Single Cylinder
Increase Max. Tension of Cylinder	631kN/384kN (Push/Pull) Single Cylinder
Max. Tension of Horizontal Cylinder	118kN/118kN (Push/Pull) Single Cylinder
Quantity of Push Cylinder	2
Quantity of Increase Cylinder	4
Quantity of Horizontal Cylinder	2

# SANY



## **SANY HEAVY EQUIPMENT CO., LTD.**

Address: 16 Kaifa Road, Economic & Technological Development Zone, Shenyang Liaoning Province, P.R.China. Postal code: 110027

Official Website: [www.sanyglobal.com](http://www.sanyglobal.com)

Sales Hotline | Tel: 0086-24-8931-8368 Customer Service Hotline | Tel: 0086-400-8808-318

