DARKO BUILDING
MATERIALS MACHINERY

HIGH STARTING POINT, HIGH POSITIONING, PROFESSIONAL R & D, DESIGN, MANUFACTURING

DARKO

NANTONG DARKO BUILDING MATERIALS MACHINERY CO., LTD

www.darko-tech.com

REACH FIRST, LEAD TECHNOLOGY

Philosophy

High starting point, high positioning，quality forging the future

Objectives

Sustainable Development, harmony and win-win situation

Mission

Science and technology innovation, to provide customers with integrated solutions

CONTENTS

COMPANY PROFILE

Nantong Darko Building Materials Machinery Co. ,Ltd.was founded in 2014 , the company is located in the beautiful and rich north wing of the Yangtze River Delta .Traffic developed, public , iron , water seamless docking , a number of intercity railways in this rendezvous , will soon be opened. From Shanghai, Nanjing , Nantong , Yancheng , Yangzhou and other large and medium-sized cities airport only 1-2 hours by car. The company is a research and development , design ,manufacturing, installation as one of the comprehensive high-tech Enterprises, with a number of domestic universities ,scientific research institutions to develop dozens of high-tech products , is the world's well-known enterprises supporting the production of equipment manufacturers. For many years, the company has been rated as a provincial AAA credit enterprise, and has passed ISO9001 quality system certification and EU CE certification. It is the first company in the same industry to introduce 5s on-site management ,dozens of products by national patents , with foreign trade rights , import and export rights, construction projects and installation qualifications.

The company mainly undertakes: desulphurization and denitrification , dust removal environmental protection projects , slag fine powder, grinding powder production line. Main products : dust catcher , process and material valve, power plant air door, bulk loading machinery, homogenization equipment, belt conveyor, hoist , feeding and unloading equipment, hydraulic crusher, metal and non-metal bellows, expansion joints and more than 100 kinds of series products.

The company has customers all over the world, including Japan, Russia, Turkey, Kazakhstan, Vietnam, Indonesia, Albania, Hungary, Nigeria, Cyprus, Angola, Tanzania and other countries and regions, and large enterprises at home and abroad, including Danish Smith, Japanese Kawasaki, French leicher, Lafarge, Heidelberg, Chinese building materials, sinoma international, Yatai, Tianrui, conch, landscape, huaxin, Jidong, Zoomlion, Ten-zan, Qilian Mountains, southwest, Red Lion, Sun paper and other group supporting equipment.

Darko machinery "Reach first, leading technology" as the business philosophy, "High starting point, high positioning" as the main theme of enterprise development. To market demand-oriented, based on the continuous development and innovation of product technology, to the international advanced level and the direction of intelligent complete sets of equipment, to provide new and old customers with quality and low-cost products and services.

01 Precision

02 science and technology

03 Innovation

04 Environmental friendly

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Step by step, accumulating bit by bit, all these honors and qualifications are a recognition of our efforts, an unparalleled praise from the market and customers. In our future development, we will continue to adhere to our excellent experience and philosophy, and provide our customers with better and more outstanding products.

COMPANY QUALIFICATION

WORKSHOP FACTORIES

CREATE VALUE, SHARE WEALTH, PUBLIC WELFARE, HARMONY, AND SUSTAINABLE DEVELOPMENT

Nantong Dako's challenging innovation is mainly reflected in the following aspects:

1. Technological innovation: Continuously invest in research and development, introduce new technologies, and improve product quality and efficiency. This can not only enhance the market competitiveness of enterprises, but also be an effective means to respond to green production, reduce energy consumption and reduce pollution emissions.

2. Management innovation: Through reasonable human resources management, attract a large number of capable and thoughtful talents to promote the effective advancement of the company's various tasks.

3. Marketing innovation: Nantong Dako insists on being customer-centric and maximizes customer satisfaction by continuously improving the company's products and services.

4. Win-win cooperation: Strengthen cooperative relationships with suppliers, customers and partners to achieve resource sharing and complementary advantages. Through the coordinated development of the industrial chain, we jointly promote the green transformation and sustainable development of the industry.

Under the conditions of market economy, if a company wants to survive and develop, it must strengthen quality management to make products or services satisfy customers, and enhance the company's core competitiveness and occupy the market through high-quality products and services.

SUSTAINABLE DEVELOPMENT

The company's factory scale continues to expand and develop day by day

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PRODUCT FOCUS

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Homogenization and discharge equipment

- CP raw material homogenization library
- IBAU homogenization library
- Continuous homogenization library
- DQF series electric ball valve
- Electric flow control valve
- Pneumatic flow control valve
- Pneumatic switch control valve
- XS-N unloading device
- Manual (electric) single and two-way flat gate valve
- Pneumatic push rod gate valve

Bulk Loading Equipment

- Train bulk machine
- Cement dry ash bulk machine
- Aggregate bulk machine
- Clinker bulk machine
- SHIP LOADING

Conveying and lifting equipment

- NE series plate chain bucket elevator
- Belt conveyors
- DJ type corrugated side belt conveyor
- air conveyor chute
- LS type screw conveyor

Dust Removal Equipment

- HMC type pulse single machine bag dust collector
- HD type bag dust collector
- Large pulse bag dust collector

Material Valves

- Vertical Mill Feeding Valve
- Preheater high temperature flap valve
- Double-layer electric air-locking flap valve
- Star type dust discharge valve
- Cement breaking valve
- Electric distributing valve

Process Valves

- Electric shutter valve (round type)
- Rectangular electric shutter valve
- Tilt shutter valve
- Pneumatic butterfly valve
- Ventilation butterfly valve
- Stainless steel electric butterfly valve
- High temperature electric butterfly valve
- Large tertiary damper
- Pressure relief valve

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HOMOGENIZATION AND UNLOADING EQUIPMENT SERIES

HOMOGENIZATION AND UNLOADING SYSTEMS ARE ESSENTIAL EQUIPMENT IN CEMENT PRODUCTION. THE HOMOGENIZATION SYSTEMS PRODUCED BY OUR COMPANY MAINLY INCLUDE AERATION AND AUTOMATIC CONTROL EQUIPMENT.

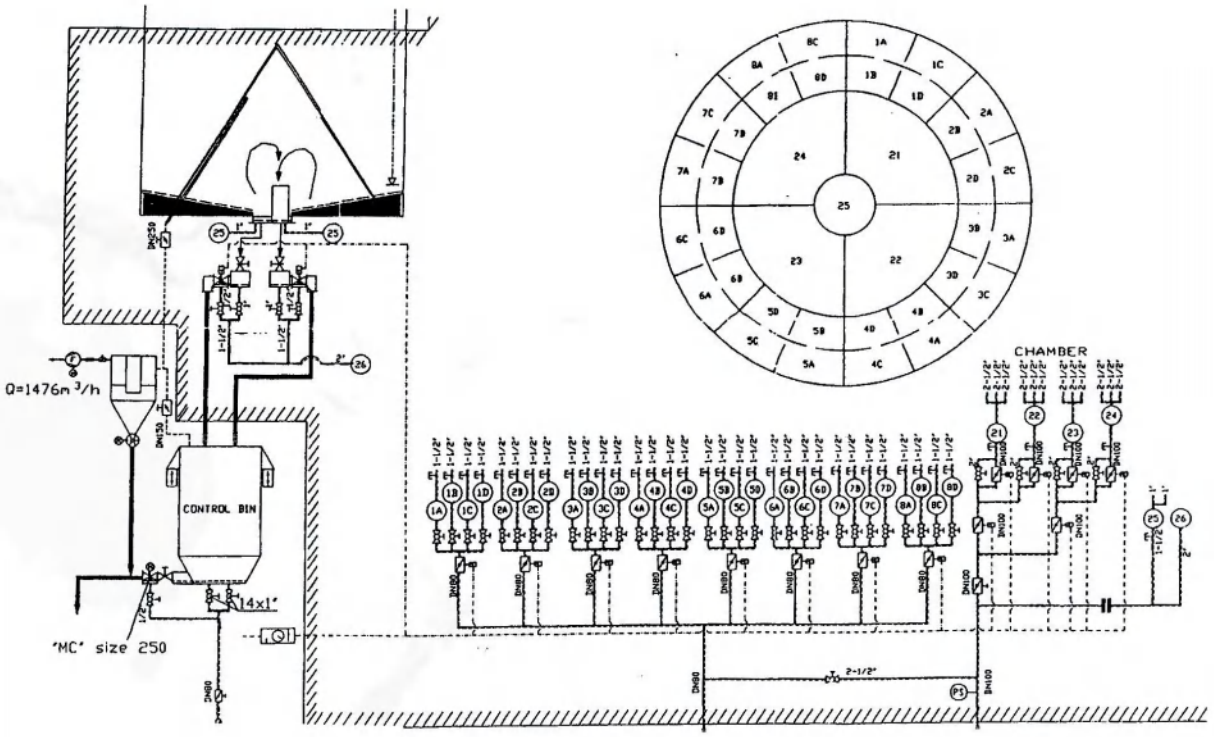
CP RAW MATERIAL HOMOGENIZATION LIBRARY

Product Description

The CP warehouse is a new type of raw material homogenization warehouse introduced by our company from the German BMH Company. It has the characteristics of low power consumption and good homogenization effect.

The homogenization mechanism of the CP warehouse is that the raw materials at the top of the warehouse are evenly distributed through 8 chutes. The raw materials of different periods are distributed horizontally in the warehouse. The design of the aeration system at the bottom of the warehouse is more in line with the fluidity of the raw materials after being inflated, in a radial and oblique manner. Distribution, the annular area is generally divided into 8 areas, which are inflated in turn every 5 minutes. The raw materials in the inflated area are unloaded into the central area due to looseness and the guidance of air flow. The raw materials of different layers in the warehouse are cut vertically to achieve homogenization of the raw materials, after the raw materials at different times enter the central area, the gas is intensively mixed and homogenized, so as to achieve the ideal homogenization effect.

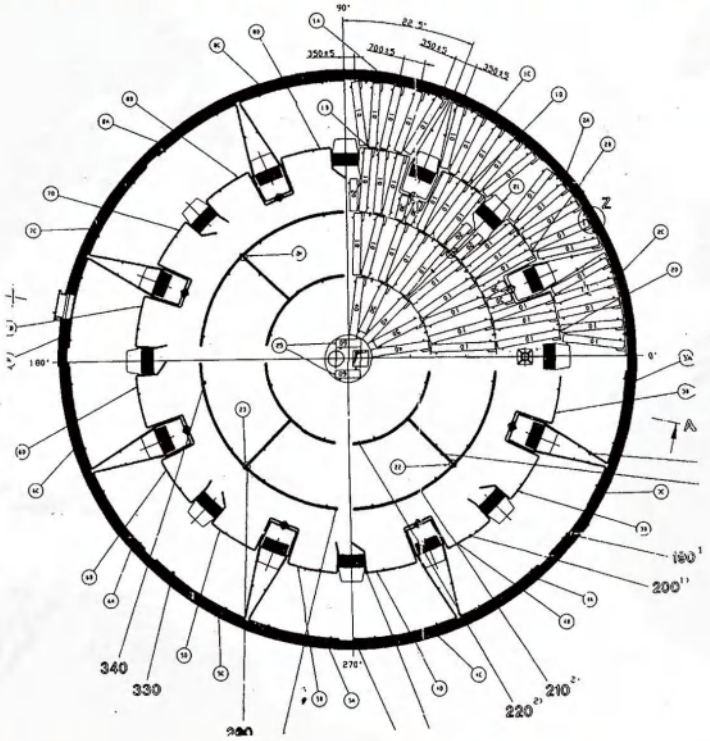
Industrial layout and inflation schematic diagram



Technical Data Sheet

Serial Number	Device name	Specifications and models	Quantity	Remark
1	Multi-point unloader for raw materials on top of warehouse	φ830、250t/h	set	Craftsmanship determined
2	Bottom discharge valve system	200t/h	Two	Craftsmanship determined
3	Homogenization library gas piping system		set	
4	Inflation system control valve	DN100、DN80	six	
5	Open bottom inflatable chute		eight	
6	Measuring warehouse	φ4000×5800mm	220	
7	Weighing bin unloading device	200t/h	one	
8	Inflatable mixing PLC control area		two sets	

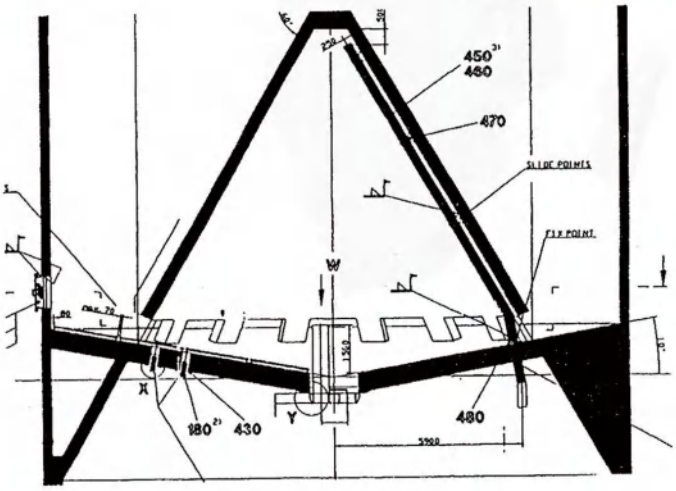
Layout diagram of the inflatable box in the warehouse



Library structure diagram

The raw material homogenization warehouse is one of the important links in cement production. Its function is to homogenize the materials such as fly ash, slag and mixed materials coming out of the mill, so that the particles of each component can reach the required level before entering the clinker burning system. state.

The labyrinth seal box is added with imported wool fabric filler, so it has perfect sealing performance;



IBAU HOMOGENIZATION LIBRARY

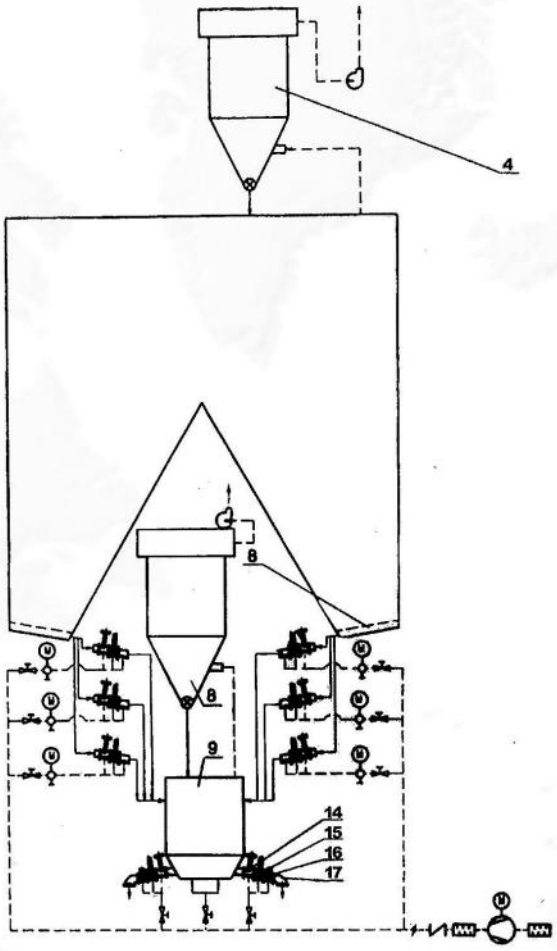
Product Description

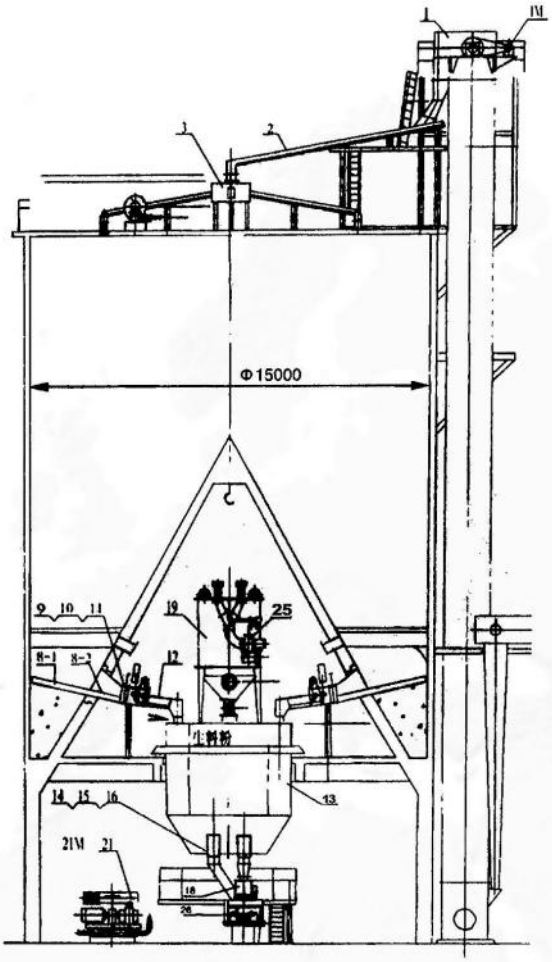
The IBAU library uses the continuous homogenization technology of the German Hamburg company. There is a mixing warehouse on the outside, and a large cone is set in the center of the bottom of the warehouse. The weight of the raw materials in the warehouse is transferred to the wall of the warehouse through the cone. The annular space at the bottom of the warehouse is divided into 6 inflatable zones inclined 10° toward the center. Each zone is filled with various Specifications Inflatable Box. When inflating and discharging, the raw materials are first sent to a radially arranged inflatable box, and then sent to the central mixing bin at the bottom of the warehouse through the air chute through the discharge port at the bottom of the cone. When unloading, the raw material flows from top to bottom and cuts the horizontal material layer to produce gravity mixing. After entering the mixing chamber, it is further homogenized due to continuous aeration and stirring. The homogenization value can reach 6-8, and the power consumption is 0.1-0.2kwh/t raw material.

Library process parameters

Serial number	Device name	Specifications and models	Quantity	Remark
1	Raw material warehouse dust collector			Craftsmanship is determined
2	Bottom inflatable pipe		Set	Craftsmanship is determined
3	Roots blower		one	Craftsmanship is determined
4	Inflatable box in the warehouse		Set	Craftsmanship is determined
5	Inflatable spiral gate	B500	Six sets	
6	Pneumatic switch valve	B500	Six sets	
7	Chute	B500	Six sets	
8	Homogenization bin dust collector		one	Craftsmanship is determined
9	Homogenization warehouse	Φ4000mm	one	
10	Inflatable spiral gate	B300	Two	
11	Pneumatic switch valve	B300	Two	
12	Electric flow valve	B300		
13	Unloading slide			

IBAU library diagram





Technical Data Sheet

Serial number	NameModel	Unit	Quantity
1	NBS bucket elevator	Tower	1
2	XZ400 air conveying chute, inclination angle 6°	Tower	1
3	φ1250mm overflow raw meal distributor, inclination angle 6°	Tower	1
4	FCM32-4 air box pulse bag dust collector	Tower	1
5	Fan: 9-26 No.8D	Tower	1
6	Electric push rod butterfly valve DN=550	Tower	1
7	The dust collector pipeline at the top of the warehouse is equipped with a butterfly valve		
8	Open inflatable chute and pipe fittings in the warehouse	Tower	1
9	Spiral gate valve: B200	Tower	6
10	Pneumatic switch valve: B200	Tower	6
11	Electric flow control valve: B200	Tower	6
12	XZ200×1300mm air conveying chute, inclination angle 6°	Tower	6
13	Sleeve type raw meal metering and feeding bin	Tower	1

Serial number	NameModel	Unit	Quantity
14	Spiral gate valve: B250	Tower	2
15	Pneumatic switch valve: B250	Tower	2
16	Electric flow control valve: B250	Tower	2
17	XZ250×700mm air conveying chute inclination angle 6°	Tower	2
18	DLM solid flow meter	Pieces	1
19	FHW-Single-chamber bag dust collector	Tower	1
20	Manual butterfly valve for dust collector air duct at the bottom of the warehouse:	Tower	2
21	Roots blower: JRD-125 type	Tower	3
22	Pressure reducing valve	Pieces	14
23	The electromagnetic valve	Pieces	14
24	Manual stop valve: φ150	Pieces	14
25	Axial Fan	Tower	1
26	DTSB500mm type universal belt	Tower	1

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CONTINUOUS HOMOGENIZATION LIBRARY

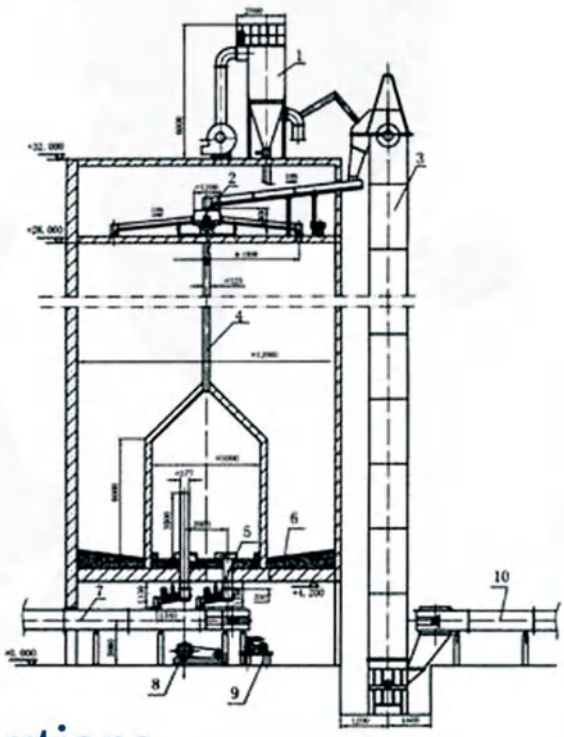
Product Description

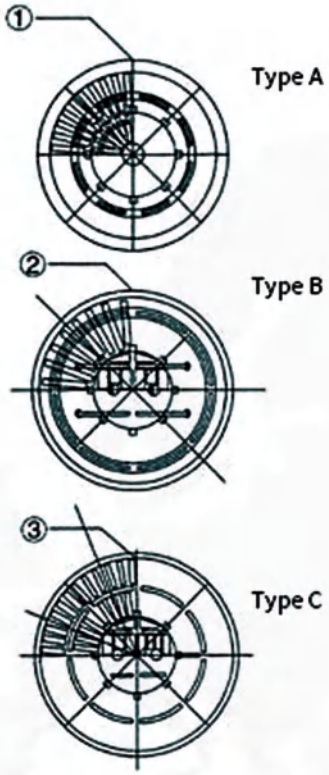
The continuous homogenization silo is where raw materials are continuously fed from the top of the silo, and are continuously discharged while being inflated and stirred . A cylindrical mixing chamber is set up in the center of the silo to reduce the discharge pressure in the silo and eliminate funnel flow. There are 6-12 discharge holes around, and there are 6-12 aeration areas between the mixing chamber and the wall of the warehouse. When discharging, materials are fed to the central chamber in turn. The materials entering the mixing chamber are further mixed due to the continuous aeration of the mixing chamber, so that they are qualified The raw meal is discharged from the high overflow pipe , and the excess gas is discharged from the exhaust pipe to the outer ring area and pumped to the dust collector for purification. However, the raw meal preparation system is required to be continuous, stable and reliable, with low investment and low power consumption. It has the characteristics of flexible process layout, compact structure and simple operation. Its average value is 5-9, and the power consumption is 0.1-0.2kwh/t.

Φ12m continuous homogenization warehouse equipment list

Serial number	Name and specification	Unit	Quantity	Remark
1	Air box pulse dust collector PPCS32-4 Fan: 9-26 No 8D	Set	1	
2	Top feeding system	Set	1	
3	Hoist TGD400*38000 Conveying capacity: 150m3/h Hopper speed: 1.5m/s Reducer ZLY22-20 Motor Y225S-4 37KW	Tower	1	
4	Center chamber exhaust pipe	Pieces	1	
5	Unloading device B400/315	Set	2	
6	Inflatable box and pipeline system in the warehouse	Set	1	
7	FU chain conveyor FU400*L Conveying capacity 110m3/h Speed 30m/min	Pieces	1	L is determined by the process
8	Four or eight mouth air distribution valve Φ500mm Cycloid reducer BWY2715-1505 1.5KW	Set	1	
9	Roots blower (for homogenization) ARD-145 Air volume 18.4m3/h Wind pressure 68.6KPa 37KW Air filter、Enter、Out、Silencer、Pressure gauge、Check valve、Reverse valve、Connector、Base etc.	Tower	1	
10	FU chain conveyor FU400*L Conveying capacity100m^3/h Hopper speed 30m/min	Pieces	1	L is determined by the process

Schematic diagram





Precautions

Each process production line should be equipped with 1 to 2 continuous homogenization warehouses, and their height-to-diameter ratio should be 2 to 2.5.

The moisture content of raw materials entering storage should be controlled below 0.5% and shall not exceed 0.8%. The raw materials entering the warehouse must not be mixed with large particles of raw materials, grinding bodies and other debris. Practice has proved that the raw material homogenization warehouse can maintain long-term, reliable and effective operation, which is closely related to the control of raw material moisture. Raw materials with a moisture content of less than 0.5% have good flow properties. As the moisture increases, the fluidity of the raw meal decreases, and the bottom and walls of the silo are prone to material agglomeration, thereby reducing the effects of gravity mixing and pneumatic homogenization. Grinding bodies and other debris entering the silo can easily block the silo unloading device.

Raw materials should be evenly distributed when entering the warehouse. When raw materials are fed into the warehouse, the raw material distributor on the top of the warehouse is used to feed the raw materials at multiple points to ensure good dispersion of the raw materials. Continuous raw material homogenization silos with larger diameters adopt multi-point warehousing, while small-diameter continuous homogenization silos can also use single-point warehousing.

The design of the inflation system should reduce drag. The layout of the inflatable box should reduce the inflatable dead zone in the warehouse, and select breathable layer materials with good air permeability, uniform air distribution and wear resistance. The inflation tank and piping system must be well sealed.

It is advisable to use a fixed-volume blower to supply air, and the blower should be in reserve. The constant-volume rotary blower does not change the air volume due to changes in system resistance, so it is more suitable as the inflatable air source for the continuous homogenization library. The amount of inflation is determined based on the inflation type at the bottom of the reservoir, and the inflation pressure should be 60 to 90kPa.

The air distribution equipment at the bottom of the continuous homogenization warehouse should use air distributors, solenoid valves, pneumatic or electric butterfly valves.

The continuous homogenization warehouse can be discharged at the bottom or side of the warehouse. Each warehouse should have two or more discharge doors. A discharge device equipped with a manual maintenance gate, a quick opening and closing valve and a flow control valve should be used to ensure the discharge of materials. , it is more beneficial to clear the warehouse.

In severe cold or rainy areas, the continuous homogenizing warehouse should be equipped with a roof room. If possible, a walkway can be set up between the top of the warehouse and the preheater tower.

The continuous homogenizing warehouse should be equipped with a conveying loop for raw materials to be returned to the warehouse. This is so that when the firing system is not put into use or the kiln is shut down, the continuous homogenizer and kiln feeding can be put into trial operation.

DQF ELECTRIC BALL VALVE

Product Description

DQF series electric ball valve consists of O-shaped ball valve assembly and DRQJ series electric actuator. Powered by a 220V power supply and a high-quality reversible servo motor as the power source, the output shaft is driven through the deceleration mechanism, so that the electric actuator outputs forward and reverse rotation torque to realize the opening and closing of the valve.

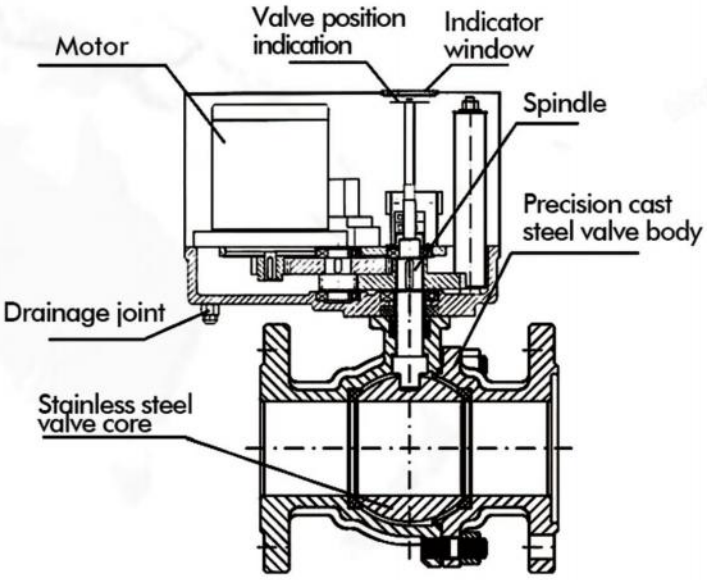
This product is mainly used in the inflatable unloading system at the bottom of the raw material homogenization warehouse in cement plants.

Working principle

When there is no external opening signal (relay signal), the DQF electric ball valve remains fully closed and electrically locked under the action of the working power supply. At this time, the indicating plate is in the fully closed indicating position, and the electric indicating switch signal (relay signal) has no output.

When the opening signal is added, the internal small relay acts, the main motor rotates immediately, and the small gear on its transmission shaft rotates synchronously, driving the large gear, the main shaft and the stainless steel ball to rotate synchronously. After 2 seconds, the valve position is in the fully open position. Under the action of the position switch, the motor stops rotating and remains locked. At the same time, the electrical signal indicates that the switch is touched. The switch signal output causes the indicator light in the control room to have corresponding indications. At this time, the indicator panel is in the fully open indicating position.

On the contrary, when the opening electrical signal disappears, the motor reverses immediately. After 2 seconds, under the action of the reverse limit switch, the motor stops. At this time, the valve position is fully closed and remains fully closed and locked.



Technical Parameters

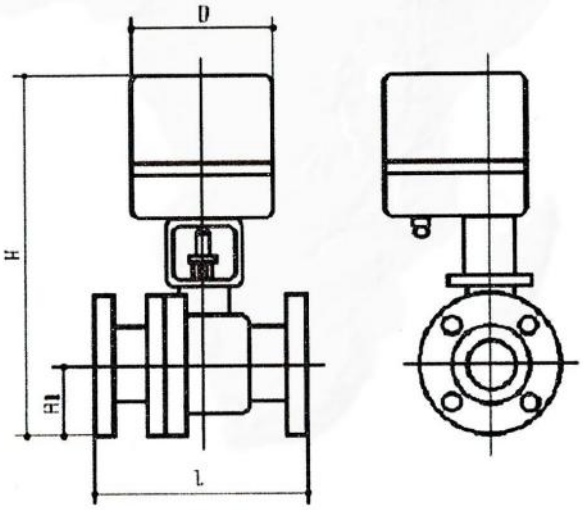
Nominal diameter	25	32	40	50	65	80	100	125	150	200
Pressure Level	PN16									
Operating temperature	-20~120℃									
Valve body material	HT200、ZG25									
Seat material	ZG25 chrome plated、ZG1Cr18Ni9									
journey	90°									
Full travel time	Two seconds									
Leakage level	III (Valve rated capacity 0.1%)									
executive agency	DRQJ-1			DRQJ-2	DRQJ-3	DRQJ-4	DRQJ-5			DRQJ-6
Power consumption	15W			25W	40W	60W	90W			120W
power supply	220V.AC									
Flange standard	JB/T79.1-94(JB78-59)									

Advantages

1. Long service life and low price.
2. Wiring is convenient and intuitive.
3. The operation is flexible, reliable, stable and basically noise-free.
4. The flow channel is smooth (close to a straight pipe when the valve is fully open) and the flow resistance is small.
5. Equipped with position feedback output.
6. Small size, light weight, easy to install.

Appearance diagram

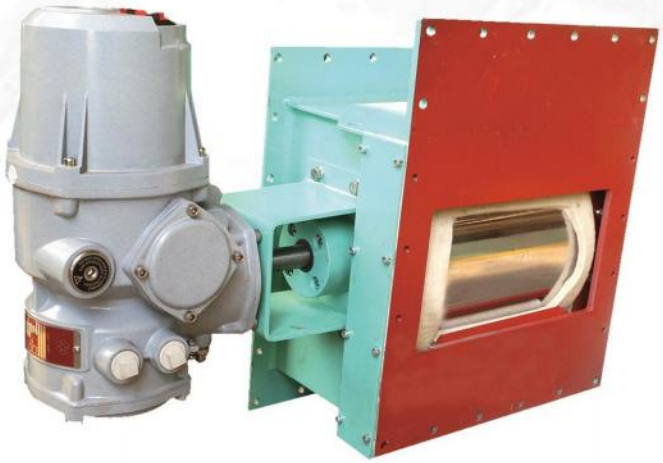
Nominal diameter	L	ΦD	H	H1	Weight(kg)
25	160	173	418	58	12
32	165	173	428	68	16
40	180	173	433	73	18
50	202	173	440	80	20
65	220	203	509	90	24
80	240	203	517	98	30
100	305	203	584	108	38
125	356	203	607	123	69
150	394	235	683	140	91
200	457	235	810	210	112



ELECTRIC FLOW CONTROL VALVE

Product Usage

The electric flow control valve mainly plays the role of on-off flow regulation in the flow transportation control system of powder, grain materials and small particle materials. It adopts foreign advanced technology and is specially used for the unloading production of raw material homogenization warehouse and cement warehouse. Equipment, the driving device of this product is an adjustable electric actuator. The opening is automatically adjusted by inputting a 4~20mA control signal to realize the adjustment function.



Performance characteristics

1. Reasonable and compact structure, sensitive movement, no jamming, easy installation and use; low noise, small vibration, easy maintenance and other characteristics.
2. The driving device is a regulating electric actuator, which can realize the flow adjustment function and has high flow adjustment accuracy.
3. The valve core is made of high-performance wear-resistant materials, and the surface is plated with hard chromium to achieve high smoothness and wear resistance; the opening is arc-shaped to make the material flow smoothly. The valve core seal is made of high-quality high-density felt that closely fits the arc outer surface. The tightness of the valve core and felt can be adjusted to achieve no leakage.

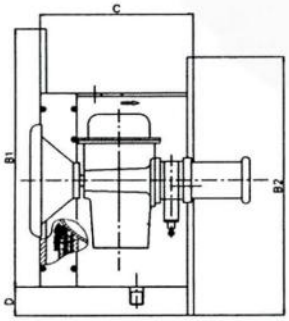
Working principle

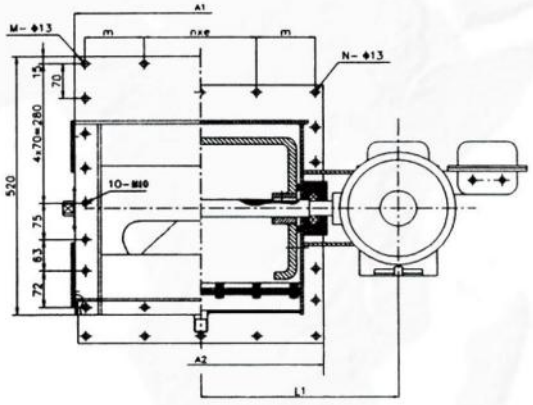
The electric flow control valve can realize opening, closing and adjusting functions in the 4~20mA signal. When a 4mA control signal is input to the electric actuator, the valve is in a fully closed state; when a 20mA control signal is input to the electric actuator, the valve reaches a fully open state. The electric actuator is in the adjustment state under the action of 4~20mA control signal, and can adjust the valve opening with any given signal value, thereby realizing the valve adjustment function.

Structure selection parameters

	unit	B200	B250	B300	B400	B500	3630	B800
Flow range	m³/h	40-260	60-360	70-480	90-650	10-820	140-1450	160-1600
Circulation area	m²	0.012	0.014	0.017	0.026	0.032	0.051	0.073
Power supply	V	AC38050Hz (can be determined according to customer requirements)						
Corner	θ°	0～90						
Input signal	mA	4～20						
Feedback signal	mA	4～20						
Breathable area	m²	0.057		0.064	0.07	0.09		0.13
Air consumption	m³/min	0.4		0.5		0.6	0.7	
Traffic characteristics		Straight line or equal percentage						
Action time		30s						
Operating temperature		≤180℃						

Appearance diagram





Specification	L	La	n*L1	L2	L3	L4	L5	n*L6	n*d	H
B250	340	520	1*100	100	72	63	75	4*70	20*φ12	320
B300	390	520	2*85	90	72	63	75	4*70	22*φ12	320
B400	490	520	2*110	115	72	63	75	4*70	22*φ12	320
B500	580	590	4*90	90	90	75	95	3*95	24*φ14	370
B630	710	620	4*110	115	65	76	110	3*110	24*φ14	410

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PNEUMATIC FLOW CONTROL VALVE

Product Usage

The pneumatic flow control valve mainly plays the role of switching and adjusting the flow in the flow transportation control system of powder, grain materials and small particle materials. It adopts foreign advanced technology and is specially used for the unloading production of raw material homogenization warehouse and cement warehouse. Equipment, the driving device of this product is equipped with a sector cylinder (120-100) and a positioner (6DR5020-0NG0O-OAAO) to realize the flow adjustment function of the valve. It is an ideal equipment for adjusting the flow size. The opening is automatically adjusted by inputting a 4~20mA control signal to realize the adjustment function.

Performance characteristics

1. Reasonable and compact structure, sensitive movement, no jamming, easy installation and use; low noise, small vibration, easy maintenance and other characteristics.
2. The driving device is a fan-shaped cylinder and a positioner, which can realize the flow adjustment function.
3. The valve core is made of high-performance wear-resistant materials, and the surface is plated with hard chromium to achieve high smoothness and wear resistance; the opening is arc-shaped to make the material flow smoothly. The valve core seal is made of high-quality high-density felt that closely fits the arc outer surface. The tightness of the valve core and felt can be adjusted to achieve no leakage.

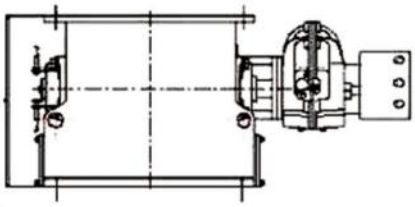
Working principle

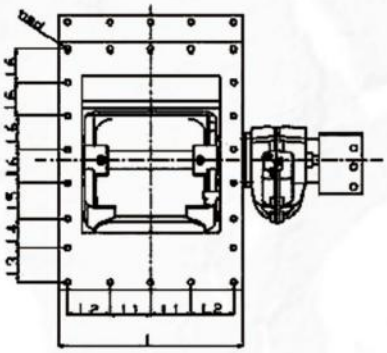
The pneumatic flow control valve can realize opening, closing and adjusting functions in the 4~20mA signal. When a 4mA control signal is input to the electric actuator, the valve is in a fully closed state. When a 20mA control signal is input to the electric actuator, the valve is in a fully open state. Under the action of 4~20mA control signal, the valve is in the adjustment state, and the valve opening can be adjusted with any given signal value, thereby realizing the valve adjustment function.

Structure selection parameters

Specification / project	Unit	B200	B250	B300	B400	B500	B630	B800
Flow range	m³/h	40-260	60-360	70-480	90-650	10-820	140-1450	160-1600
Circulation area	m²	0.012	0.014	0.017	0.026	0.032	0.051	0.073
Power supply	V	AC38050Hz (can be determined according to customer requirements)						
Corner	θ°	0～90						
Input signal	mA	4～20						
Feedback signal	mA	4～20						
Breathable area	m²	0.057		0.064	0.07	0.09		0.13
Air consumption	m³/min	0.4		0.5		0.6	0.7	
Traffic characteristics		Straight line or equal percentage						
Action time		30s						
Operating temperature		≤180℃						

Appearance diagram





Specification	L	La	n*L1	L2	L3	L4	L5	n*L6	n*d	H
B250	340	520	1*100	100	72	63	75	4*70	20*φ12	320
B300	390	520	2*85	90	72	63	75	4*70	22*φ12	320
B400	490	520	2*110	115	72	63	75	4*70	22*φ12	320
B500	580	590	4*90	90	90	75	95	3*95	24*φ14	370
B630	710	620	4*110	115	65	76	110	3*110	24*φ14	410

PNEUMATIC SWITCH CONTROL VALVE

Product Usage

The pneumatic switch control valve mainly plays the role of switching (opening and cutting off the material flow) in the flow conveyance control system of powder, grain materials and small particle materials. It adopts foreign advanced technology and is specially designed for raw material homogenization warehouses and warehouses. Supporting equipment for unloading production.

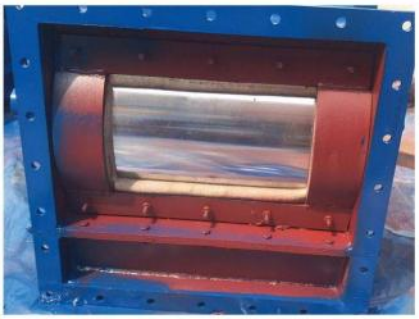
The driving device of this product is a cylinder (single-acting QCB or double-acting cylinder GTE).

Performance characteristics

1. Reasonable and compact structure, sensitive movement, no jamming, easy installation and use; low noise, small vibration, easy maintenance and other characteristics.
2. The driving device is a single-acting or double-acting cylinder, which can quickly cut off the material flow.
3. The valve core is made of high-performance wear-resistant materials, and the surface is plated with hard chromium to achieve high smoothness and wear resistance; the opening is arc-shaped to make the material flow smoothly. The valve core seal is made of high-quality high-density felt and closely fits the arc outer surface. The tightness of the valve core and the felt can be adjusted to achieve no leakage.

Working principle

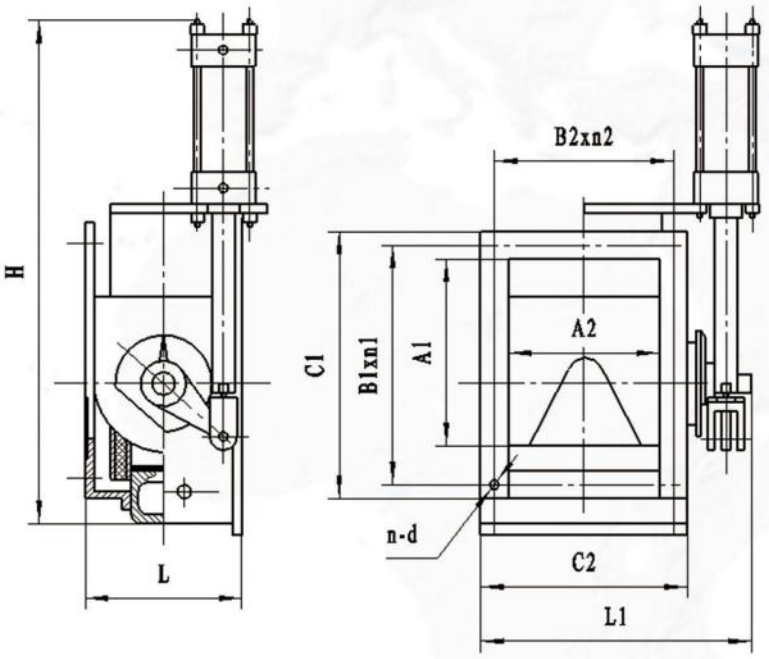
The pneumatic switch control valve uses an on-site air source (pressure: 0.5~0.6MPa) and is controlled by a solenoid valve to achieve rapid opening and shutoff functions of the valve.



Performance parameter

Specification / Project	Unit	B200	B250	B300	B400	B500	B630	B800
Flow range	m³/h	40-260	60-360	70-480	90-650	110-820	140-1450	160-1600
circulation area	m²	0.012	0.014	0.017	0.026	0.032	0.051	0.073
Power supply	V	AC220V/DC24V 50Hz(Can be determined according to customer requirements)						
corner	θ°	0～90						
breathable area	m³	0.057		0.064	0.07	0.09		0.13
Air consumption	m³/min	0.4		0.5		0.6	0.7	
action time		2-3s						
Operating temperature		≤180°C						

Appearance diagram



Specification	L	La	n*L1	L2	L3	L4	L5	n*L6	n*d	H
B250	340	520	1*100	100	72	63	75	4*70	20*φ12	320
B300	390	520	2*85	90	72	63	75	4*70	22*φ12	320
B400	490	520	2*110	115	72	63	75	4*70	22*φ12	320
B500	580	590	4*90	90	90	75	95	3*95	24*φ14	370
B630	710	620	4*110	115	65	76	110	3*110	24*φ14	410

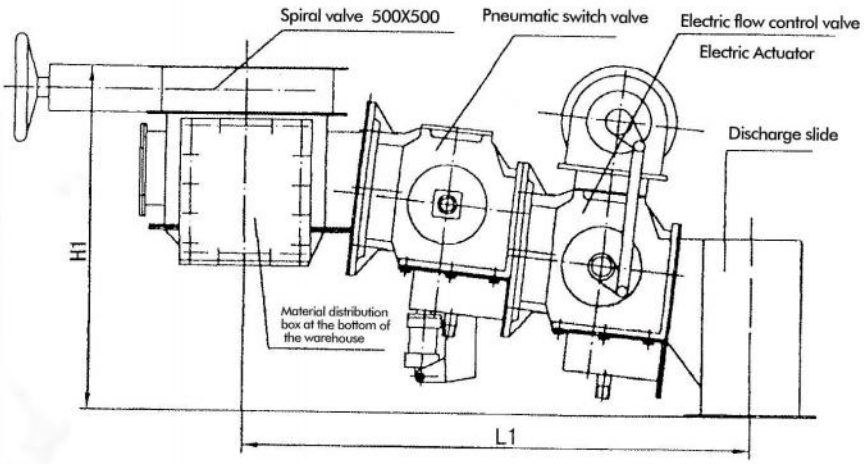
XS-N UNLOADING DEVICE

Product Description

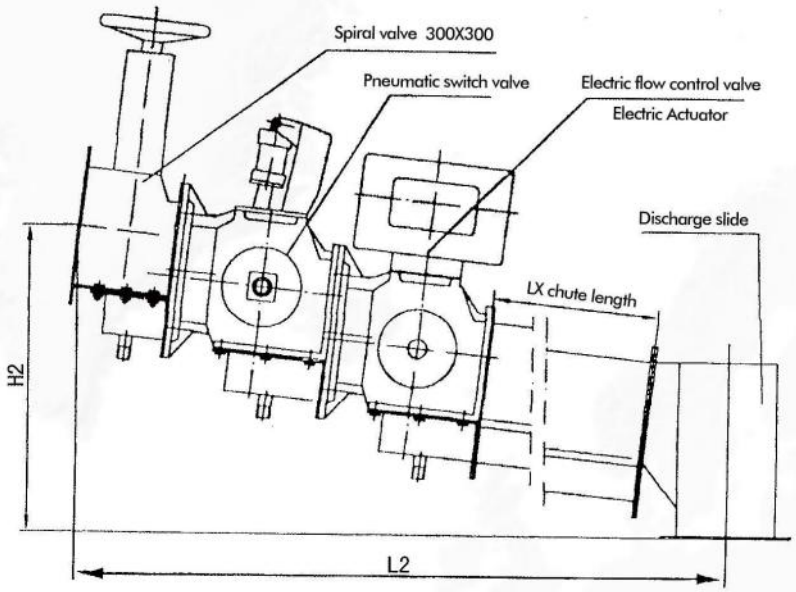
The unloading device at the bottom of the warehouse consists of a spiral gate at the bottom of the warehouse, a material distribution box at the bottom of the warehouse, an electric (pneumatic) switch valve, an electric flow control valve and a discharge slide (see Figure 1). It is used for cement raw meal powder or cement at the bottom of the warehouse. Unload. The unloading device at the bottom of the warehouse can automatically adjust the discharge flow and make it uniform. It has a reasonable structure and is simple and convenient to operate and maintain. It can be equipped with up to three discharge ports. Users can also choose the unloading device on the side of the warehouse (see Figure 2).

The sealing structure of the warehouse bottom unloading device can be divided into two forms: soft sealing and rigid sealing.
The soft sealing structure uses wool felt to seal between the valve core and the valve body.
The rigid sealing structure is connected with a connector at the discharge inlet end. A steel arc-shaped seal is installed between the connector and the valve core, which is tightly sealed with the valve core to achieve a rigid seal. The sealing gap can be adjusted, which is more suitable for occasions with high frequency of action and high temperature. The sealing effect is good and is easy to use. long life.

Schematic diagram



(Picture 1) Unloading device at the bottom of the warehouse



(Picture 2) Storage side unloading device

Technical Data Sheet

Specification \ Name		B250	B315	B400
Soft seal	Flow m3/h	130	160	220
	Operating temperature°C	<100	<100	<100
	Maximum circulation area m	0.0148	0.025	0.0425
	Minimum center distance mm	1180	1230	1410
	Minimum height H(α=6°)mm	830	830	1025
Rigid seal	Flow m3/h	120	160	220
	Operating temperature°C	<150	<150	<150
	Maximum circulation area m2	0.0148	0.025	0.0425
	Minimum center distance mm	1350	1410	1410
	Minimum height H(α=6°)mm	830	830	1025
On/off valve	Cylinder	QGB 100×200-MP2		QGB 100×200-MP2
	The electromagnetic valve	KD25-8, 220V		
	Electric putter	DT100-20		DT300-200
Flow valve	Electric Actuator	DKJ-310/AS-25		DKJ-410/BS-60

Installation dimensions

Code name \ Specification	H1	L1	H2	L2
B250	980	1360	670+Lx Sin6°	1482+Lx Cos6°
B315	1060	1410	718+Lx Sin6°	1372+Lx Cos6°
B400	1060	1410	688+Lx Sin6°	1372+Lx Cos6°

MANUAL (ELECTRIC) SINGLE AND TWO-WAY FLAT GATE VALVE

Use

This gate valve is widely used in pipelines for flow control of dust materials in industries such as building materials, metallurgy, and mining. It is an ideal equipment for controlling the flow of dust materials.

Features

The gate valve has a simple structure, light weight, flexible operation, easy assembly and disassembly, and is made of high-quality carbon steel. It has high strength, good performance, and long service life: the screw rod and nut adopt a soft protective cover structure and are not affected by external dust.

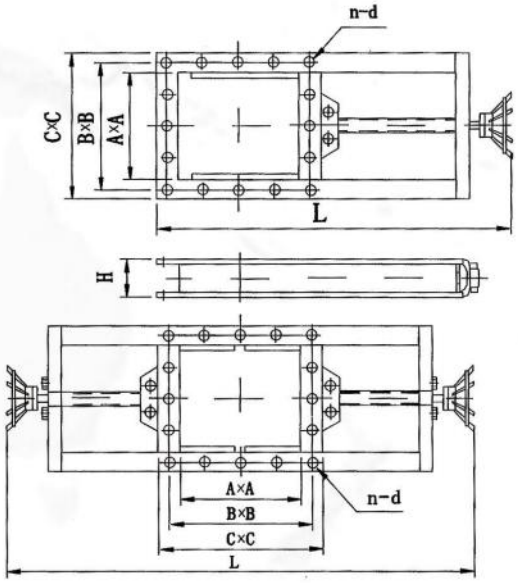
Manual one-way flat gate valve

Electric one-way flat gate valve

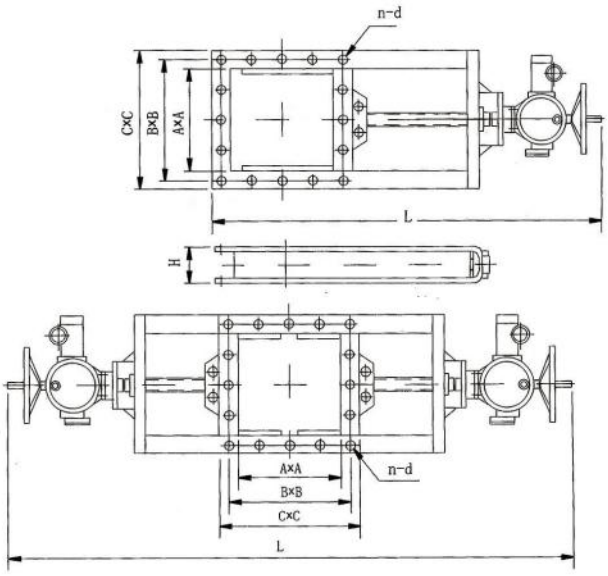
Working principle

The gate is mainly composed of a frame, screw nut, handwheel, sprocket, and gate plate. The handwheel (sprocket) rotates, and the screw rod carries the screw nut and the gate plate to reciprocate in the horizontal direction to open and close the valve purpose.

Main appearance



Manual single and two-way flat gate valve



Electric single and two-way flat gate valve

Performance parameters

Nominal pressure (MPa)	Manual	Electric
	0.1~0.6	0.6
Applicable temperature（℃）	≤150	
Applicable media	Dust material	

Shape and installation dimensions

Category	A×A	BxF	CxC	L	H	nd	Weight(Kg)
Unidirectional	200× 200	256×256	306×306	820	120	8-14	62
	250×250	306×306	346×346	930	120	8-14	70.5
	300×300	356×356	396×396	1050	120	8-14	81
	400×400	456×456	496×496	1400	140	12-14	114
	450×450	510×510	556×556	1450	140	12-18	130
	500×500	560×560	606×606	1610	140	16-18	147
Bidirectional	600×600	660×660	706×706	1830	160	16-18	169
	700×700	770×770	820×820	2130	160	20-18	236
	800×800	870×870	920×920	2440	180	20-18	303
	900×900	974×974	1030×1030	2660	180	24-23	424
	1000×1000	1074×1074	1130×1130	2870	180	24-23	636
Illustrate	LMD-One-way	I-Handwheel	If the height is less than 1.7 meters from the ground, use a hand wheel. If it is more than 1.7 meters, use a sprocket. The number of chain sections is M = 0.105x-113 (x is the height of the screw center from the ground)				
	LMS-Two-Way	III-Sprocket					

Figure one Manual single and two-way flat gate valve

Category	A×A	B×B	C×C	L	H	nd	Weight(Kg)
Unidirectional	200×200	256×256	306×306	920	120	8-14	130
	250×250	306×306	346×346	1050	120	8-14	150
	300×300	356×356	396×396	1260	120	8-14	180
	400×400	456×456	496×496	1560	140	12-14	200
	450×450	510×510	556×556	1670	140	12-18	230
	500×500	560×560	606×606	1890	140	16-Φ18	270
Bidirectional	600×600	660×660	706×706	1830	160	16-18	350
	700×700	770×770	820×820	2520	160	20-18	390
	800×800	870×870	920×920	2750	180	20-18	460
	900×900	974×974	1030×1030	2950	180	24-23	490
	1000×1000	1074×1074	1130×1130	3110	180	24-Φ23	555

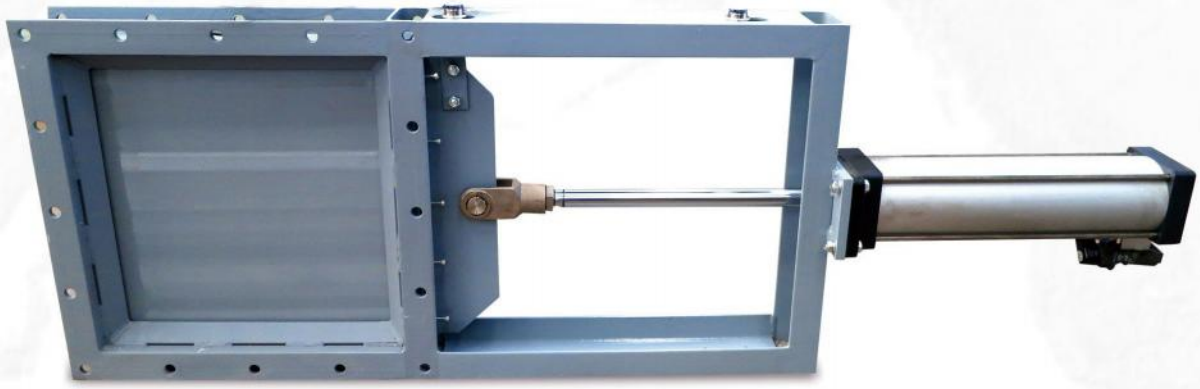
Figure two Electric single and two-way flat gate valve

Note: This valve can be designed and manufactured according to user requirements

PNEUMATIC PUSH ROD FLAT GATE VALVE

Use

This gate valve is a product of our factory that improves the traditional structure. It has advanced technology and reliable quality. It is widely used in pipes for flow control of dust materials in metallurgy, mining, building materials and other industries. It is an ideal equipment for rapid control of opening and closing requirements.



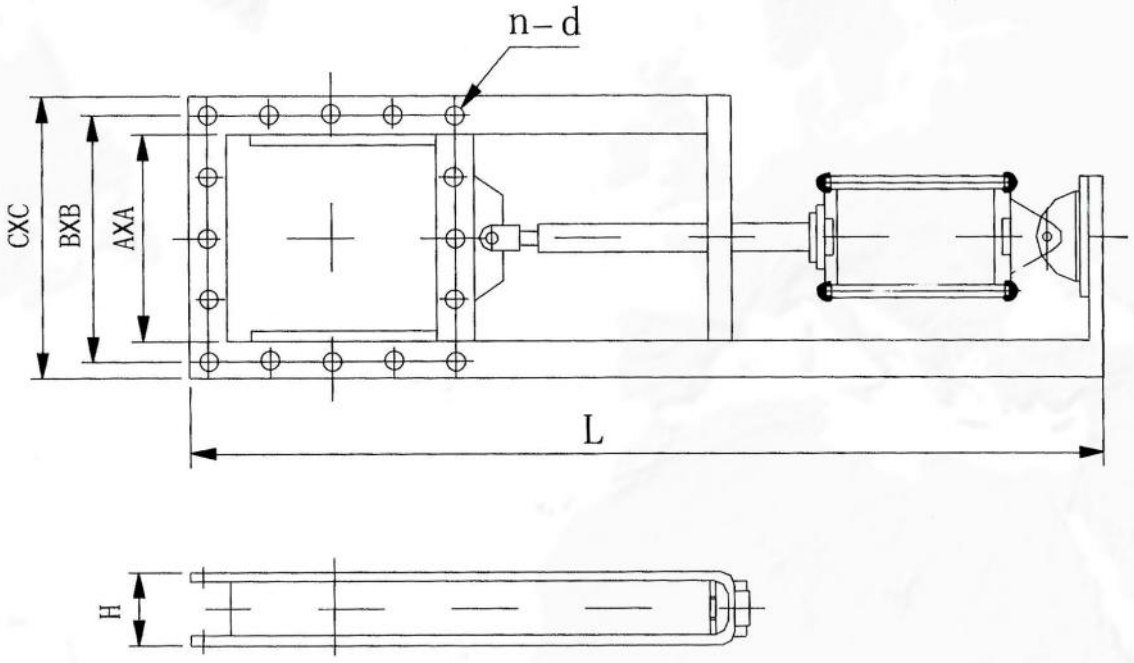
Working principle

The gate valve is mainly composed of frame, gate plate, cylinder and other parts. During operation, due to the pressure change of the gas in the cylinder, the piston rod drives the gate plate to reciprocate in the horizontal direction, thereby achieving the purpose of opening and closing the valve.

Performance parameters

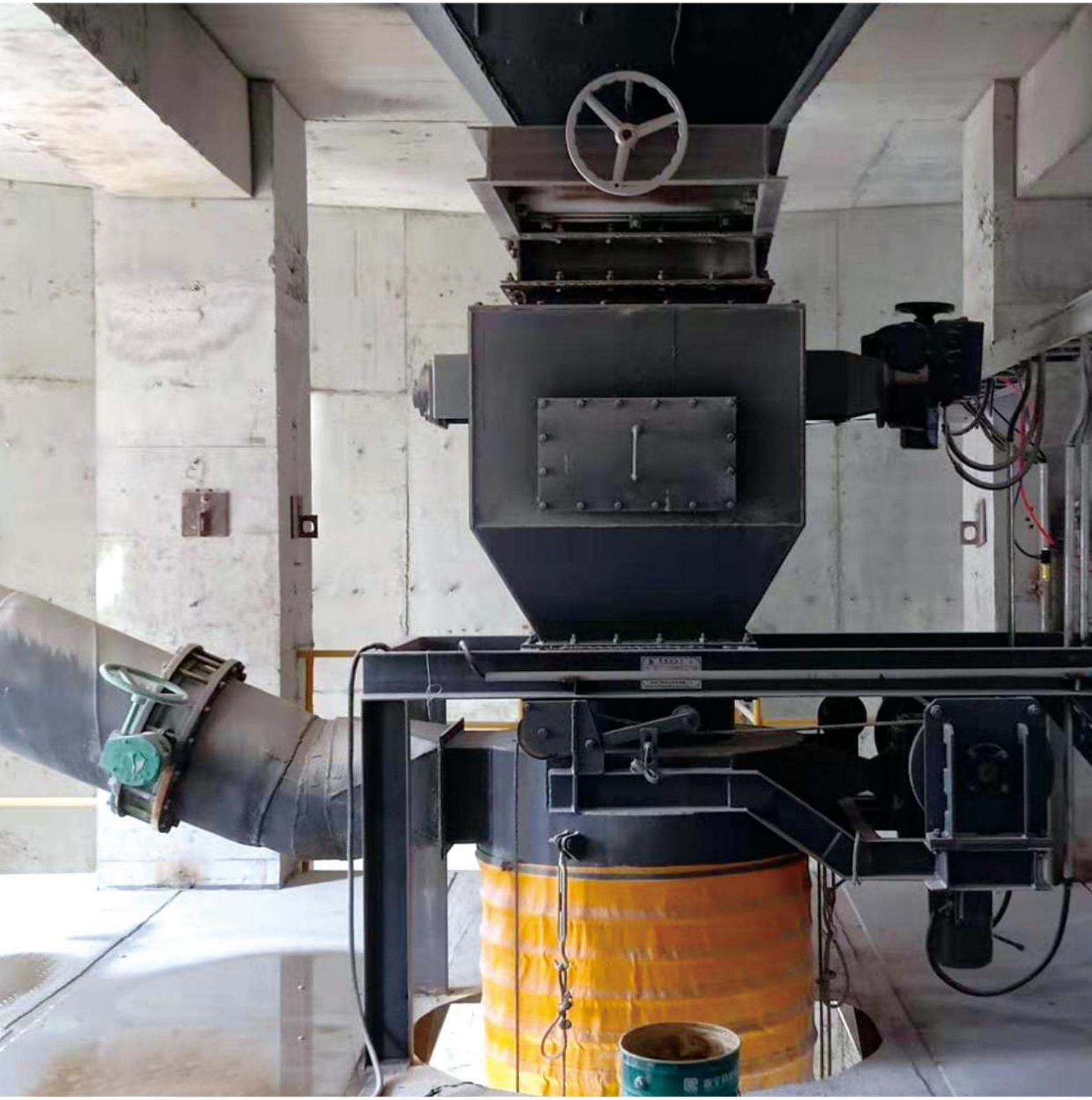
Nominal pressure (MPa)	0.1~0.6
Applicable temperature（℃）	≤150
Applicable media	Dust material

Main appearance



A×A	B×B	C×C	L	H	nd	Weight(Kg)
200×200	256×256	306×306	920	120	8-14	130
250×250	306×306	346×346	1050	120	8-14	150
300×300	356×356	396×396	1260	120	8-14	180
400×400	456×456	496×496	1560	140	12-14	200
450×450	510×510	556×556	1670	140	12-18	230
500×500	560×560	606×606	1890	140	16-18	270
600×600	660×660	706×706	2220	160	16-18	320
700×700	770×770	820×820	2520	160	20-18	350
800×800	870×870	920×920	2750	180	20-18	410
900×900	974×974	1030×1030	2950	180	24-23	450
1000×1000	1074×1074	1130×1130	3110	180	24-23	505

DARKO



BULK LOADING EQUIPMENT SERIES

THE BULK MACHINES PRODUCED BY OUR COMPANY HAVE REASONABLE DESIGN AND HIGH DEGREE OF AUTOMATION. WIDELY USED IN CHEMICAL, ELECTRIC POWER, BUILDING MATERIALS, GRAIN, FOOD, PHARMACEUTICAL AND OTHER INDUSTRIES.

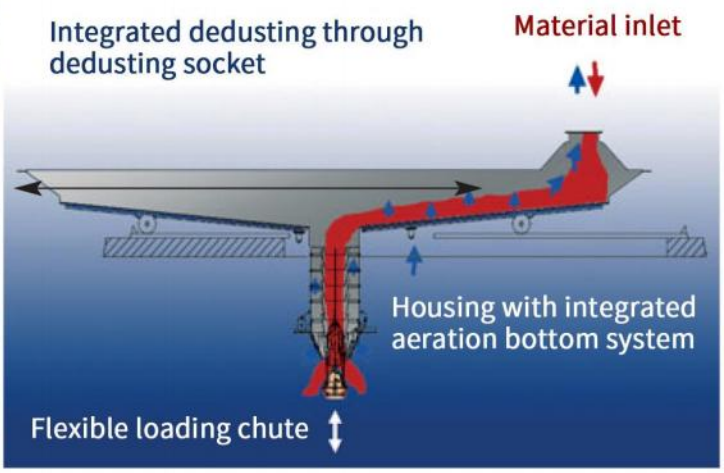
TRAIN BULK MACHINE

Product Description

The train bulk loader is used on the cement warehouse side to automatically transport cement to the cement bulk train. It mainly consists of a warehouse side unloading system, an air conveying chute, a walking positioning mechanism, a telescopic unloading device, a material level controller, a dust collection system and an electric It consists of control cabinet and other parts. The train bulk loader has remarkable features such as accurate travel positioning, sensitive material level control, smooth discharging resistance, and reliable dust collection system. It is widely used in other industries of building materials systems and in metallurgy, coal, and chemical industries for loading powdered materials.

Features

1. The moving distance of the loading hopper is large and the structure size of the trolley is small.
2. The mechanism has small operating resistance, flexible layout, and parallel loading.
3. Maintenance is simple and convenient.
4. The sealing effect is good and the sealing parts have long service life.
5. The dust collection design is reasonable.



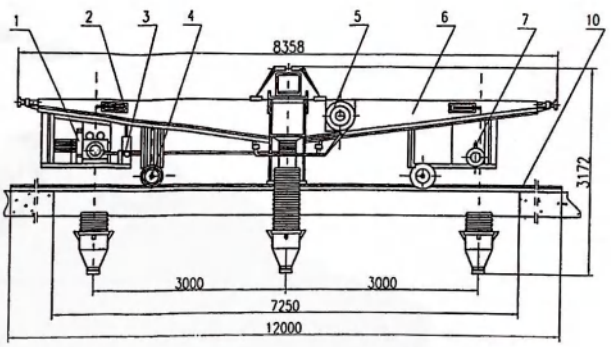
Technical Parameters

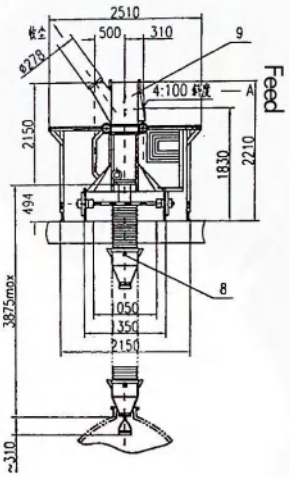
1. Loading and unloading capacity 300t/h;
2. The maximum descending stroke of the bulk head is 2500 and the maximum moving distance is 6000;
3. The power of the winch motor is 2.2kw and the voltage is 380v;
4. The walking motor power is 1.5kw and the voltage is 380v;
5. The power of bulk head vibration electrical appliance is 0.06kw, 220v;
6. Ventilator power is 2.2kw, voltage is 380v;
7. Dust collection equipment must be prepared by the user, and the dust collection air volume is approximately 4200m3/h;
8. The ordering of the electric control box is negotiable and can be designed according to the control requirements and system conditions.

Bulk head		Hoist motor		Walking motor		Bulk head vibrating electrical appliances		Ventilator	
Maximum stroke	maximum distance	Power	Voltage	Power	Voltage	Power	Voltage	Power	Voltage
2500mm	6000mm	2.2KW	380V	1.5KW	385V	0.06KW	220V	2.2KW	380V

Loading head		Hoist			Material surface indicating mechanism locking pressure controller				Fan	
Telescopic distance	Telescopic speed	Lifting speed	Power	Voltage	Action pressure	Rated voltage	Rated current	Applicable media	Voltage	power
1600mm	8m/min	0.5KW	380V	250-5000Pa	220V	220V、380V	3A	Clean gas	220V	350W

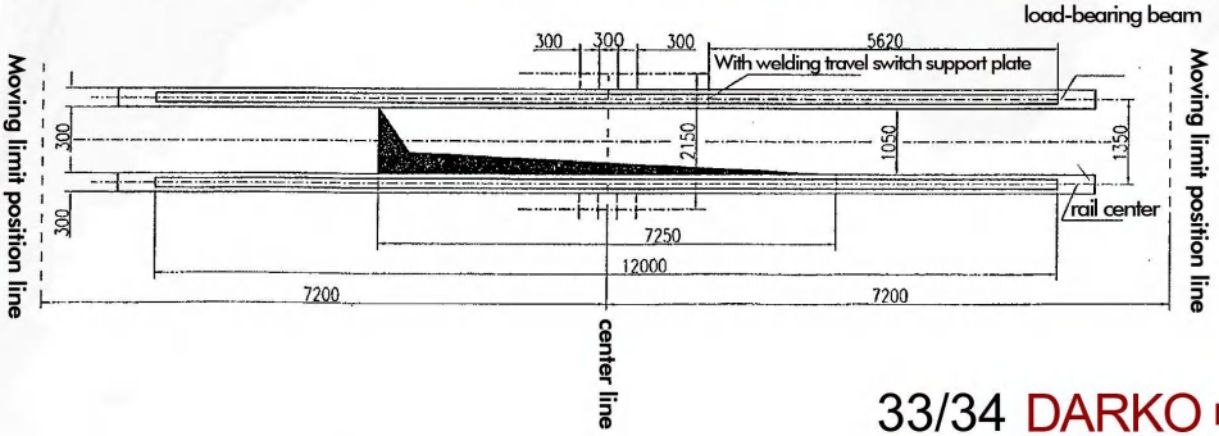
Appearance diagram





1. Hoisting device
2. Observation window
3. Loose rope switch device
4. Wheel device
5. Ventilator
6. Double chute
7. Travel reducer
8. Bulk head
9. Feeding device
10. Rail 18Kg/m
(fixing method customized)

300t/h train cement bulk machine foundation and movement limit



CEMENT DRY ASH BULK MACHINE

Product Description

Cement dry ash bulk machine is suitable for electric power, building materials, chemical industry, food and other industries to load dry powdery materials into bulk tank trucks. In thermal power plants, it is mainly used for loading and shipping under dry ash collectors, ash hoppers or ash storage bins. This machine can interlock with the feeding equipment under the silo. After the tanker is full, it will automatically stop loading to realize the automation of the loading and unloading process. It has high loading efficiency and less dust pollution. It is an ideal equipment for loading bulk powder materials.

Structural features

1. Retractable bulk head

The telescopic bulk loader consists of a transmission bracket, a winch mechanism, a transmission device, a slack rope mechanism, a channel steel seat, a material level gauge, a vacuum fan, a feeding pipe, a vacuum pipe, a bulk loading head, etc. The material flows into the material tank through the unloading pipe by its own weight. The dust between the unloading pipe and the dust suction pipe is discharged into the dust collection bag or ash bin through the dust suction fan. The unloading pipe and the dust suction pipe are telescopic tubes that can be used to lower and rise. , the lifting and lowering of the bulk head is realized through the winch transmission system, its safety control device, and the loose rope mechanism.

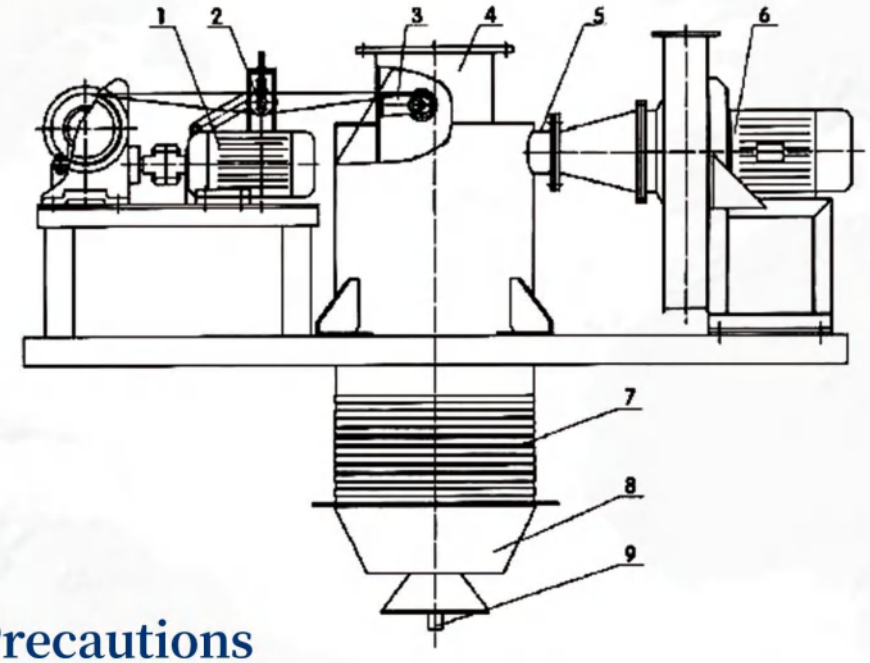
2. The lowering head of the dry ash bulk machine is lined with a rubber layer and is tightly sealed with the tanker.
3. The lowering head has a double-cone structure, and the unloading port will be automatically closed after lifting.
4. The material level meter uses an imported solid tuning fork limit switch, which is of good quality, sensitive, accurate and reliable.

Technical Data Sheet

	(Bottom)
Loading capacity (t/h)	60~300
Blanking height (m)	1.5~5m
Bulk head lifting speed (m/s)	0.2
Material level meter working air pressure (Pa)	2500~4500
Material level working air volume (m^3/min) (max)	0.2
Roots blower	D14 Q=2.53m^3/h Boost: 29.4KPa, Power 3kw
Total installed capacity	~5KW

	Automobile bulk machine
Loading capacity (t/h)	120~150
Double chute moving speed (m/s)	0.15~0.2
Blanking height (m)	1.5~5m
Bulk head lifting speed (m/s)	0.2
Reducer used for lifting	WPDKA100-50
Material level meter	SLY-40
Dust collection ventilation volume (m^3/h)	1500~2000
Double chute specifications	B400
Chute slope	14%
High pressure blower for chute	XQI5.4A 3KW
Chute working air pressure (Pa)	5000-6000
Chute working air volume (m^3/min)	Depends on moving distance

Appearance diagram



1. Hoisting device
2. Rope slack device
3. Pulley assembly
4. Unloading pipe
5. Vacuum suction pipe
6. Vacuum blower
7. Dust shield
8 Bulk head
9 Material level meter

Precautions

1. During operation, be sure to align the bulk head discharge pipe with the tank mouth, otherwise an overflow accident may occur;
2. When loading, a huge amount of dust suddenly occurs, indicating that the discharge is not smooth. You should stop discharging immediately and do not lift the bulk head immediately;
3. When the bulk head has dropped and the steel rope is loose, the hoist must be stopped to prevent the steel rope from being too loose and causing an accident. Therefore, attention should be paid during operation. If it is confirmed that the bulk head has dropped to the specified position and the indicator light is still off, it means The slack rope switch has failed. Feeding should be stopped immediately, the bulk head should be lifted, and maintenance should be carried out;
4. When loading, if the material level meter still does not send a signal when the filling time is reached, the material should be stopped immediately and the bulk head should be raised. If the material is full, it means that the material level meter control has failed and it should be repaired immediately;
5. During the loading process, if material overflow occurs, unloading should be stopped immediately. Do not lift the bulk head when the bulk head is full of materials. Remove the dust cover of the vacuum pipe and drain the accumulated materials before lifting the bulk head;
6. If the following material tube is not flexible in expansion and contraction, it can be made flexible by adjusting the length of the wire rope.

DARKO

AGGREGATE BULK MACHINE

Product Usage

The warehouse bottom aggregate truck bulk machine is a special equipment for loading granular materials such as clinker,aggregate , limestone , etc. It is designed and manufactured based on the surveying and mapping of equipment imported from Germany and localized improvements. It has been successfully used in domestic cement clinker , aggregate Materials , building materials , metallurgy , coal , mining , chemicals , grain and other industries , it has a similar structure and the same technical performance as imported equipment, and has been used by many users and is actually used. Many performance indicators can reach the same level as imported equipment. level.

The equipment consists of rod gate, electric (pneumatic) fan gate, connecting pipe, telescopic discharge device, hoisting device, material level meter, dust collection hose, frame and control system. The telescopic discharge pipe is made of wear-resistant plates. Rolled and processed from high-quality steel plates, it has a long service life and can be expanded and retracted freely.

This equipment has the characteristics of reasonable structural design, simple and convenient operation and maintenance. The discharge telescopic tube is made of high-quality steel plates. The parts in direct contact with the material flow are treated with appropriate anti-wear technology. It is wear-resistant and durable, has a long service life , and has There is no dust pollution during the unloading process, making it an ideal equipment for loading bulk materials.

Working principle

The rod valve of this equipment is connected to the discharge interface on the side of the warehouse or at the bottom of the warehouse. The other end of the rod valve is connected to the electric sector valve . The electric sector gate is connected to the discharge connecting pipe. The connecting pipe passes through the frame and the telescopic discharge device. connection , the up and down operation of the telescopic unloading device is driven by the winch, and the capacitive material level switch controls the movement of the telescopic unloading device during the unloading process, so that the dust collection cover remains close to the material layer to ensure the dust collection effect; the material layer reaches After the highest position, close the sector gate, stop unloading , and move the carriage to a new position to continue unloading.

The dust collection pipe is made of two flexible hoses that can be freely retracted. They are installed on both sides of the unloading telescopic pipe. The lower end is connected to the unloading dust collection cover, and the upper end is connected to the air inlet of the dust collector. During the unloading process, The generated dust is pumped into a dust collector for purification and collection.

After the loaded truck is parked, the loading personnel press the telescopic tube lowering button on site, and the telescopic tube will drop to the position or stop where it needs to be lowered. The personnel in the central control room or on-site personnel are given the command to open the gate , and the personnel in the central control room pre-set the opening of the gate (4~20mA).

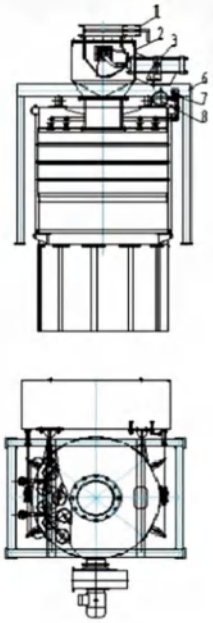
After the gate is opened in place, the material discharging starts, and at the same time, the material level switch installed on the telescopic tube works. When the material level switch senses the material level for the first time, the telescopic tube lifts upward for 2 seconds (time is adjustable) and stops. During the continued unloading process, when the material level switch senses the material level for the second time, the telescopic tube continues to rise for 2 seconds (time is adjustable) and stops. In this case, the unloading can play a role in dust suppression during the unloading process.

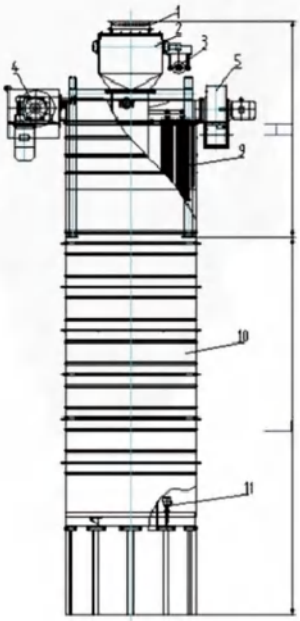
When the scene or the central control room sees through video surveillance that the material is full, the gate will be closed immediately and the driver on site will be ordered to move another wagon unloading position. Then press the lower button in place and continue to open the gate to unload. Repeat the above unloading process until the preset tonnage is reached. At this time, the truck scale will give a stop signal to the central control room, and the central control room will immediately give the gate closing signal and the telescopic tube in sequence. After the gate is closed in place, the telescopic tube rises and stops in place, completing the unloading process.

Structure selection parameters

Technical requirements for clinker (aggregate) bulk machines	Material density	1.45T/m³			
	Model	SZH400-L	SZH500-L	SZH600-L	SZH800-L
	Telescopic distance (mm)	L process customization	L process customization	L process customization	L process customization
	Loading capacity (T/h)	300~350	450~500	550~600	700~800
	Dust collection air volume		2*3000m³/h		2*3500m³/h
Rod valve	Specification	410*410*120	500*500*120	600*600*120	300*800*140
Electro-hydraulic sector valve	Specification	410*410	500*500	600*600	800*800
Electro-hydraulic push rod	Specifications and models	DYTZ1000/300	DYTZ1500/400	DYTZ1750/400	DYTF3000/400 double cylinder
	power	1.1KW	1.5KW	2.2KW	2.2KW
Cylinder	Specification	160*400	160*500	125*500/pair	160*500/pair
Telescopic drop tube	Specification	φ410*L	φ500*L	φ600*L	φ800*L
Dustcollection hose	parameter	Specifications: φ250*L			
Dust cover	Specification	900*1836	1000*1960	1100*2060	1300*2260
Hoist	Specification	JE33-250/3T	JE33-250 /3T	JE33-250/3T	JE33-250/57
	boost speed	8m/min			
	Lifting capacity	2T	3T	3T	5T
	Voltage	380V			
	Power K W	3KW	4.5KW	4.5KW	7.5KW
	journey	L process customization			
Material level meter	Specification	E+H			

Appearance diagram





CLINKER BULK MACHINE

Product Description

The clinker bulk machine is a device that automatically transports clinker from the warehouse to clinker bulk trucks and ships. The clinker bulk equipment at the bottom of the warehouse is mainly composed of manual rod valves, electric (electro-hydraulic or pneumatic) fan valves, winches, telescopic unloading devices, dust collection hoses, capacitive limit switches, electronic control systems, etc.



Technical Data Sheet

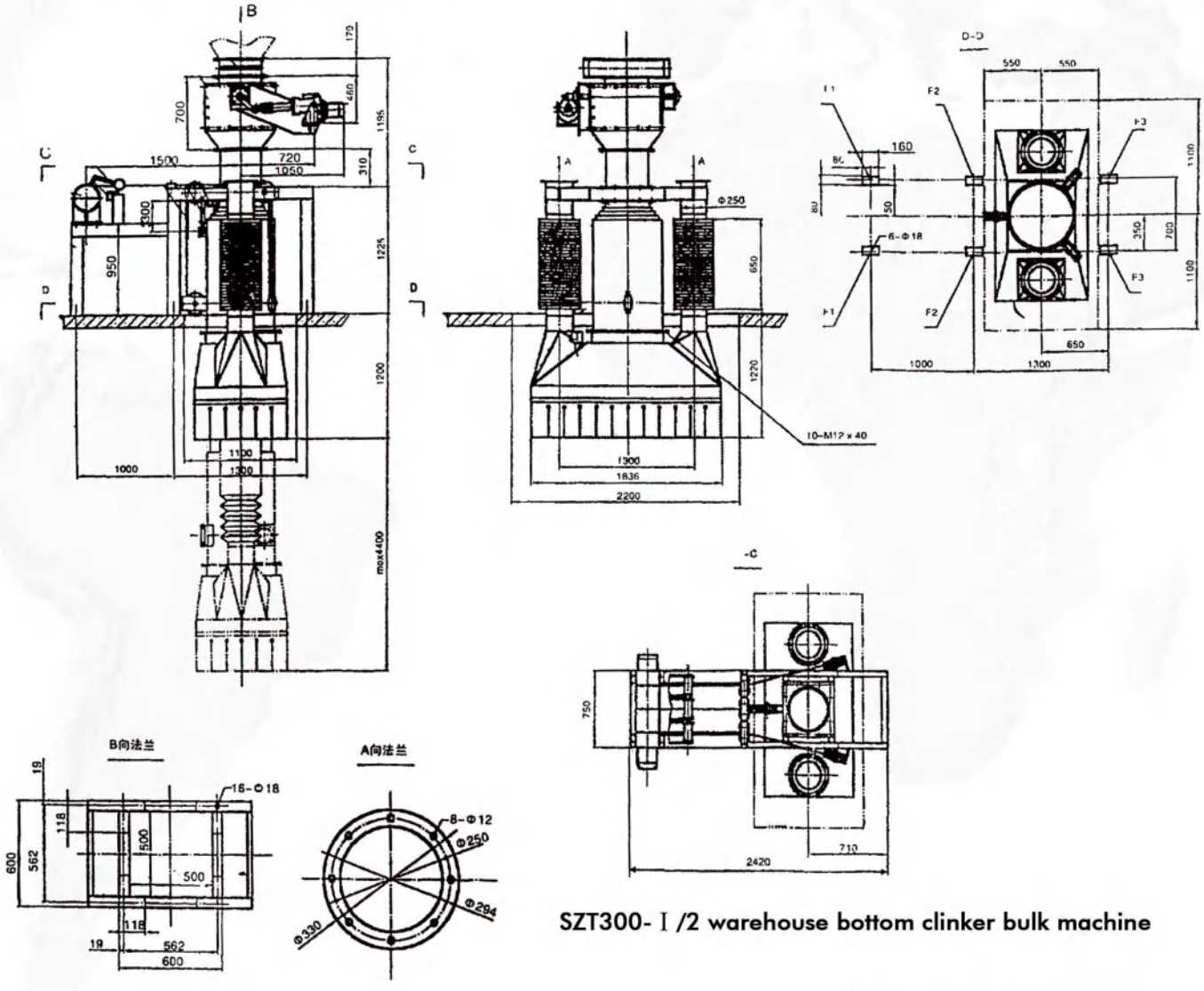
Technical performance	Technical Parameters		
Conveying materials	Cement clinker or similar bulk materials		
Material capacity	Clinker 1.45t/m³		
Material temperature	≤150℃		
Material particle size	≤50mm		
Loading capacity	≤300t/h		
Discharge head telescopic distance	Customized according to user requirements		
Manual stick valve	790mm×790mm	410mm×410mm	
Electric (pneumatic) sector valve	DZG1103 2×1.1KW	Electro-hydraulic push rod: DTY700-400/100 1.5KW (cylinder: QGB125×400-MP4)	
Hoist	CD1-18D Power: 3KW Lifting speed: 8M/S		
Capacitive (tuning fork) limit switch	FTC131 probe specifications: φ25×400 Working pressure: 10bar Working temperature: -20℃~80℃ FTM31 probe specifications: φ20×230 lengthened 170mm Working pressure: 10bar		
Installed power	~5.2KW	~4.5KW (~3KW)	
Reference drawing	SZT300-I/1	SZT300- II/2	SSQ300-III
Model	Kudi	Kudi	Side of warehouse

Note: This machine can meet the user's material temperature and material particle size requirements by changing the material.

Working principle

When the transport vehicle enters the loading position, open the rod valve corresponding to the number of rods. Press and hold the "lowering button" of the control cabinet. After the unloading head is in place, the power of the elevator will be automatically disconnected. Press the "loading button" to enter the unloading state. The auxiliary equipment will start working accordingly. The dust generated by unloading will pass through the unloading hopper. The telescopic dust collection hose enters the dust collector for purification. When the material in the lower head is full, the lower head will rise while alarming. The rising distance must be set before loading. If the rising distance is 1 meter, the time of the time relay will be set. Adjust to T=1/V. During the rising process, charging is always in progress. When the material is full, repeat the above work. After reaching the full position, press the stop button to reversely brake the electric vibrator, or close the sector valve to stop discharging. After parking, you can press the up button to keep the lower hopper away from the material at a certain distance to ensure the displacement of the transportation tool, and then align it with the second unloading station. until the entire silo is filled.

Schematic diagram



SZT300- Ⅰ /2 warehouse bottom clinker bulk machine

SHIP LOADING

Product Description

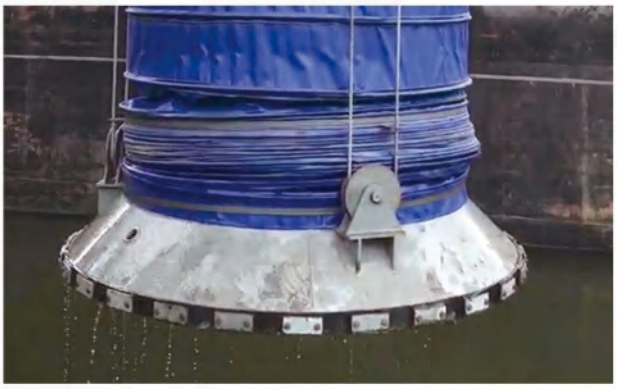
The bulk ship system is a device that automatically transports powdery materials from the warehouse side to the bulk ship. This machine has the advantages of sensitive material level control, smooth material discharging and low resistance. This product can also be used in building materials systems, other industries, and the loading of powder materials in metallurgy, coal and chemical industries.

Bulk cement ship unloading process

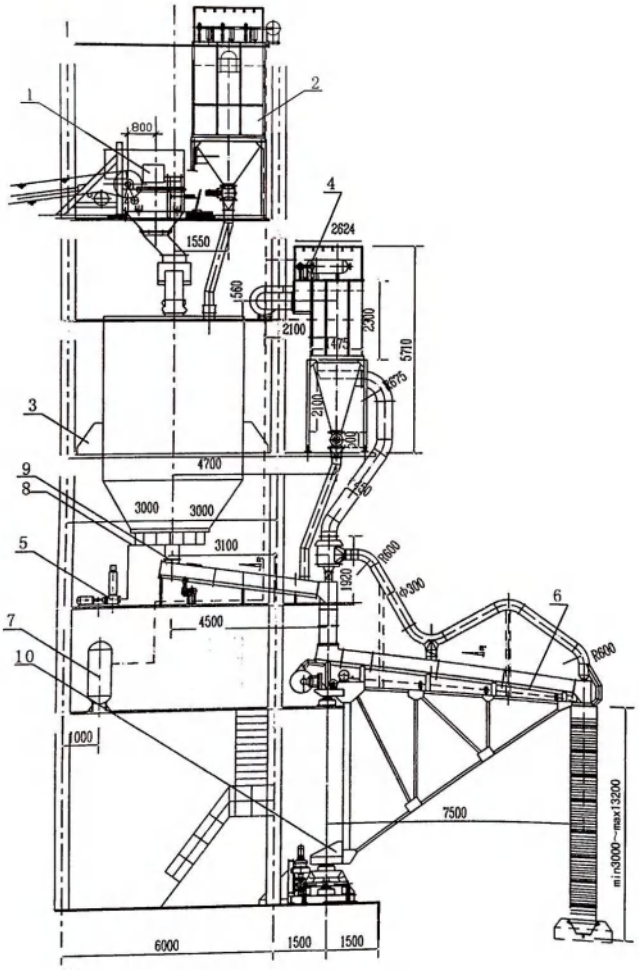
The unloading process of bulk cement mainly consists of two parts: unloading the ship into the steel plate silo and moving out of the steel plate silo to the cement tanker. After the bulk cement ship docks at the dock, it is unloaded by the ship unloader, passes through a series of turnovers such as air chute, elevator zipper, etc., and finally falls into the steel plate silo.
Specific process: Ship → Screw ship unloader → Air chute → Spiral elevator → Air chute → Spiral elevator → Large steel plate → Air chute → Zipper machine → Air chute → Spiral elevator → Air chute → Small steel plate Warehouse→bulk cement tanker→ destination. The special dock for loading and unloading cement mainly consists of four parts, namely the dock unloading operation area, the transfer building, the silo and the loading and unloading area.

Ship Loading Spouts

Ship Loading Spouts are designed to load dry bulk materials from conveyors and other discharge points into ships.
These rugged heavy duty spouts are available in retracted lengths as low as 10 feet [3 m] and travels up to 100 feet [30.5 m]. Loading rates can vary up to 2700 cubic feet per minute [76.5 m^3/min] depending on product being loaded.
A choice of construction materials allows you to effectively handle all types of products – fine, granular, lumpy, abrasive, and corrosive – and difficult dusty or sanitary applications.



Appearance diagram



10 CSZ-10 transfer
9CSZ-09 unloading system
8CSZ—08 Roots blower to warehouse pipeline
7CSZ—07 compressed air pipeline system
6CSZ—06 Marine Bulk Machine
5CSZ—05 Roots blower
4CSZ—04 marine dust collector system
3CSZ—03 Measurement System
2CSZ—02 warehouse top dust collection system
1CSZ—01 warehouse top feeding system

DARKO

www.darko-tech.com

CONVEYING AND LIFTING EQUIPMENT SERIES

THE MAIN PRODUCTS INCLUDE FIGHTER ELEVATORS, BELT CONVEYORS, CHUTES, ETC. CHUTE IS A PNEUMATIC CONVEYING EQUIPMENT USED TO TRANSPORT DRY POWDERY MATERIALS.

DARKO

BOARD-CHAIN ELEVATING MACHINE

Product Description

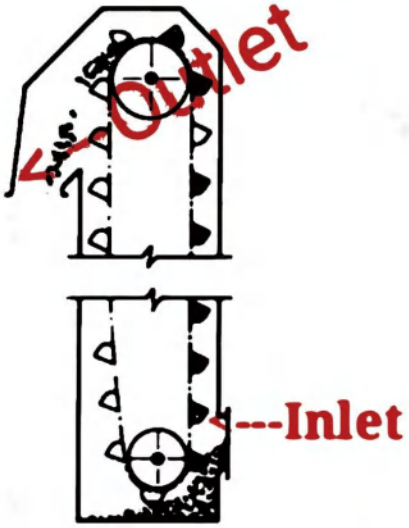
The NE type bucket elevator is a plate chain type, gravity-induced discharge lifting equipment. It is suitable for vertical conveying of powdery, granular, small pieces, grindable or non-grindable materials, such as raw meal, cement, coal, limestone, dry clay, clinker, etc.

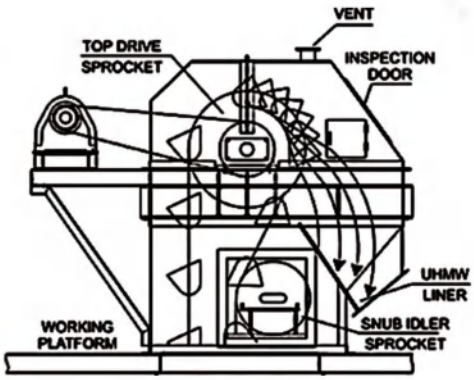
This series of elevators adopt inflow feeding and induced discharge.

The chain is an alloy steel high-strength plate chain, which is wear-resistant and reliable.The driving part adopts a hard tooth surface reducer. When the material flows into the hopper, it is lifted to the top by the plate chain, and is discharged automatically under the action of the material's gravity.

Working principle

The NE elevator consists of moving parts that are wound around the upper driving sprocket and the lower redirecting sprocket. Under the action of the driving device, the driving sprocket drives the traction member and the hopper to perform rotary circular motion. Materials will be fed into each hopper from the lower feed port. When the material is lifted to the upper sprocket, it will be discharged from the discharge port under the action of gravity and centrifugal force.





Features

1. The plate chain used has high shear strength, fatigue strength and wear resistance, low operation failure rate and long service life;
2. Use a lower chain speed (0.5 meters/second);
3. Using a large-capacity hopper and a small bucket distance, the driving power is low and the conveying capacity is large. Especially suitable for lifting crushed limestone and cement clinker (≥NE50).

The main structure

1. NE hoist consists of running parts, hoist head, hoist base and shell.
2. The running components are composed of hopper and sleeve roller chain. NE15 and NE30 adopt single row chain, and NE50-NE800 adopt double row chain.
3. The head of the elevator is composed of an upper shell, a driving sprocket, a driving device, a discharging device and a backstop. The driving device consists of motor, reducer, coupling, transmission chain, etc. The driving platform is equipped with inspection frames and railings. The drive device is divided into two types: left-hand and right-hand. Left-hand installation: Facing the feeding port, the driving device is arranged on the left side of the casing. Right installation: Facing the feeding port, the driving device is arranged on the right side of the casing.
4. The elevator base is composed of the lower part of the shell, the tensioning device, the redirection sprocket and the feed port. Tensioning devices are divided into spiral type, spring type and weight type. The tensioning device is installed on the bearing of the sprocket, and the stroke is generally 0.2-0.5m.

gear

drive sprocket

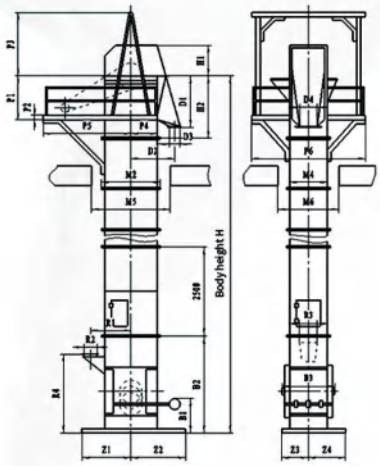
hopper

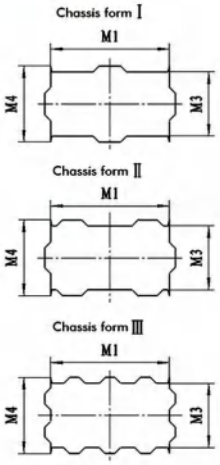
Technical Parameters

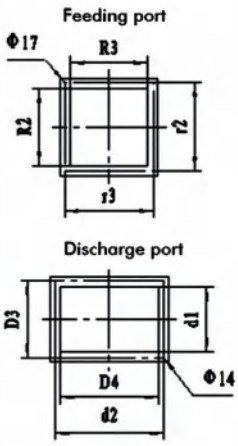
Model Numbers	Capacity (L)	Distance (mm)	Speed (m/s)	Conveying capacity (m^3/h)	The max particle size percentage of the material				
					10%	25%	50%	75%	100%
					The max particle size of the material (mm)				
NE15	2.5	203.2	0.5	16	65	50	40	30	25
NE30	7.8	304.8		32	90	75	58	47	40
NE50	15.7			65	90	75	58	47	40
NE100	35	400		110	130	105	80	65	55
NE150	52.2			164	130	105	80	65	55
NE200	84.6	500		213	170	135	100	85	70
NE300	127.5			321	170	135	100	85	70
NE400	182.5	600		383	205	165	125	105	90
NE500	260.9	700		470	240	190	145	120	100
NE600	330.2			594	240	190	145	120	100
NE800	501.8	800		790	270	220	165	135	110

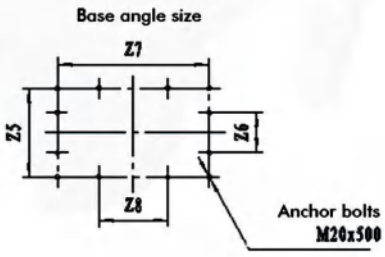
Note: The theoretical value of the conveying capacity at a filling factor of 70%.

Appearance diagram









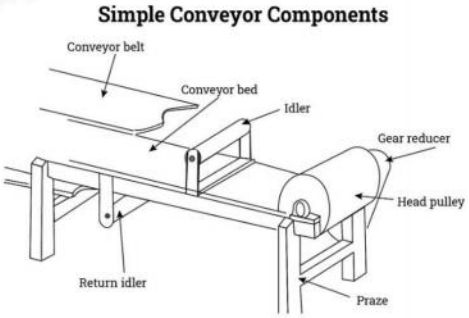
BELT CONVEYORS

Product Description

The belt conveyor has strong conveying capacity, long conveying distance, simple structure and easy maintenance, and can conveniently implement programmed control and automated operation. The continuous or intermittent motion of the conveyor belt is used to transport items below 100KG or powdery and granular items. It runs at high speed, smoothly, has low noise, and can be transported up and down slopes.

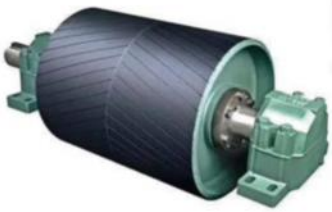
Construction

A belt conveyor is a friction-driven machine that transports materials in a continuous manner.
The components of the belt conveyor are: head (including motor, transmission device, roller, etc.), fuselage (including frame, rollers), tail, belt, ancillary devices (including tensioning device, cleaning device) , braking device, etc.), etc.



Simple conveyor components

Troughing roller



Pulley lagging

Principle

The conveyor belts (or wire ropes) are connected into a closed ring, and they are tightened with a tensioning device. Driven by the motor, the friction between the conveyor belts (or wire ropes) and the driving rollers (or driving wheels) makes the conveyor belt move. The belt (or wire rope) runs continuously to achieve the purpose of transporting the cargo from the loading end to the unloading end.

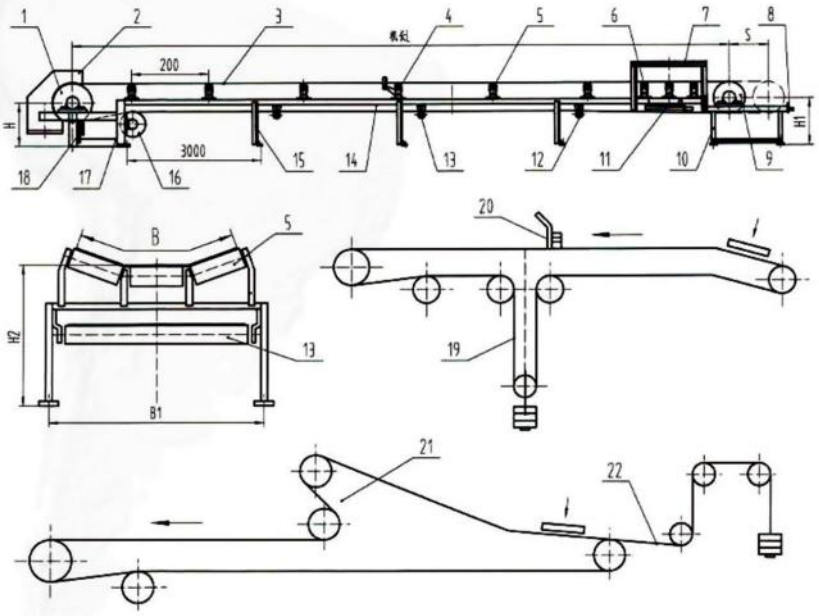
Structure selection parameters

Belt Width(mm)	Belt Speed（m/s）									
	0.80	1.00	1.25	1.60	2.00	2.50	3.15	4.00	5.00	6.50
	Conveying Capacity（t/h）									
500	69	87	108	139	174	217				
650	127	159	198	254	318	397				
800	198	248	310	397	496	620	781			
1000	324	405	507	649	811	1014	1278	1622		
1200		593	742	951	1188	1486	1872	2377	2971	
1400		825	1032	1321	1652	2065	2602	3304	4130	
1600					2188	2733	3440	4373	5466	
1800					2795	3494	4403	5591	6989	9083
2000					3470	4338	5466	6941	8676	11277

Advantages

- Large transmission flow rate,
- Very low energy requirement,
- Low investment and low service costs,
- Stable and trouble free transportation of products,
- It is easy to use,
- Less manpower and higher productivity
- Continuity

Appearance diagram



1. Transmission roller 2.head unit
3.conveyor belt
4.trough-shaped aligning roller
5.trough-shaped roller 6.buffer roller
7. guide chute 8.spiral tensioning device
9. Redirection roller 10. Tailstock
11. Empty section cleaner
12. Lower leveling centering roller
13. Lower roller 14. Middle frame
15. Middle leg 16. Redirecting roller
17. Head frame 18. Spring cleaner
19. Vertical tensioning device
20. Plow type unloader
21. Unloading truck
22. Car type tensioning device

DJ TYPE CORRUGATED SIDE BELT CONVEYOR

Product description

The DJ type side belt conveyor has the advantages of simple structure, reliable operation and convenient maintenance of the general belt conveyor. It can also be transported at large inclinations, has a compact structure and takes up less space. It is developed in terms of super large lifting height and large conveying capacity. , making its application more widespread.
The rib is composed of a base belt, ribs and partitions. The appearance of the base belt is the same as that of an ordinary conveyor belt, but its transverse rigidity is greater. The ribs are corrugated. The partitions can be divided into T-type, C-type , and TC according to their different cross-sections. type.

The main purpose

1. The sidewall belt conveyor is a general-purpose continuous conveying equipment for bulk materials. It uses a conveyor belt with corrugated sidewalls and transverse partitions.Therefore, it is especially suitable for conveying at large inclination angles.
2. This machine can be used in coal, chemical industry, building materials, metallurgy, electric power, light industry, grain, port, shipbuilding and other industries to transport various bulk materials with an accumulation specific gravity of , within a working environment temperature range of .
3. For conveying materials with special requirements, such as high temperature, materials containing acid, alkali, oily substances or organic solvents, special conveyor belts are required.
4. The conveying inclination angle of the side belt conveyor is within the range of 0-90°C.

Features

1. Large conveying inclination angle
2. Simple structure, smooth operation and low noise;
3. Large conveying capacity and higher lifting height. The vertical lifting height of a single machine can reach 500m.
4. Smooth transition from horizontal to tilt (or vertical).
5. Low energy consumption, simple structure and easy maintenance.
6. The tape has high strength and long service life.

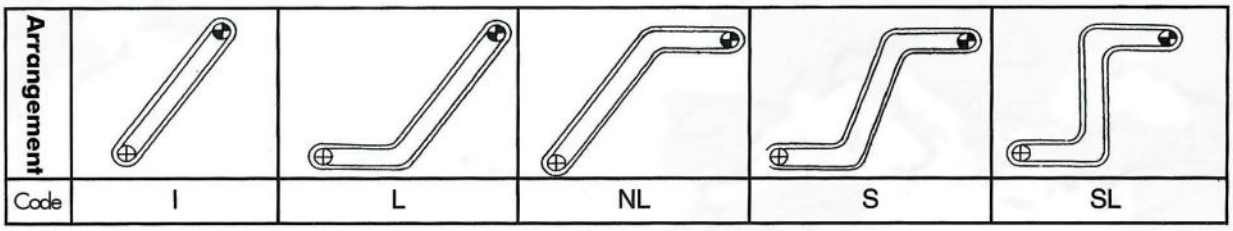
Performance parameters

BandwidthB(mm)	300			400			500			650			800		
High sidewallH(mm)	40	60	80	60	80	100	80	100	120	100	120	160	120	160	200
Belt speedV(m/s)	0.8-2.0												0.8-2.5		
Inclinationβ（°）	30-90														
Conveying CapacityQ(m^3/h)	18	24	40	34	60	80	84	112	98	156	140	186	186	318	360
PowerN(KW)	1.5-18.5									1.5-22			2.2-45		

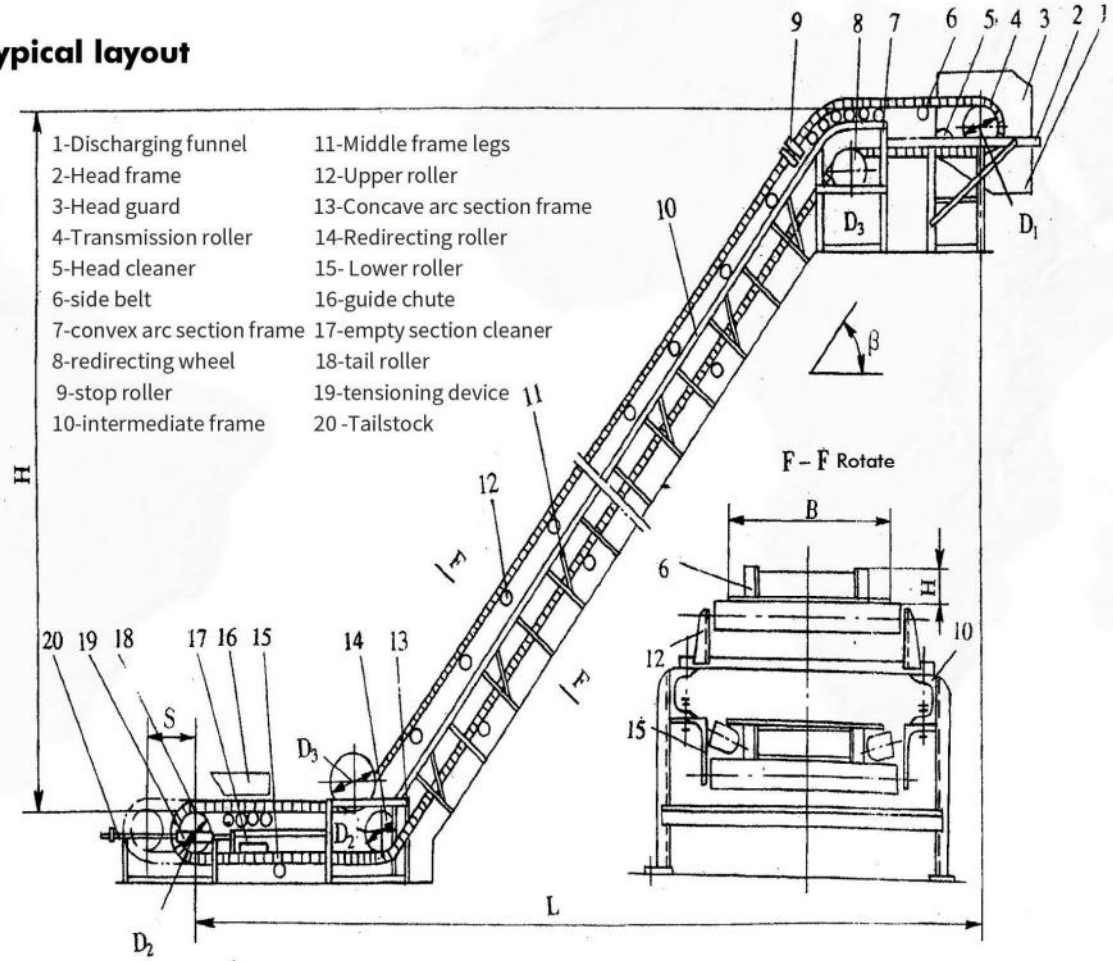
BandwidthB(mm)	1000			1200				1400				1600				1800			
High sidewallH(mm)	160	200	240	160	200	240	300	200	240	300	400	200	400	300	400	240	300	400	500
Belt speedV(m/s)	1.0-2.5			1.0-3.15								1.25-3.15				1.25-4.0			
Inclinationβ（°）	30-90																		
Conveying CapacityQ(m^3/h)	18	24	40	535	765	1077	1358	920	1298	1657	2381	1074	1515	1953	2807	2200	2724	4106	5036
PowerN(KW)	4.0-75			5.5-110				5.5-160								7.5-185			

Structure diagram

Basic layout



Typical layout



DARKO

AIR GRAVITY CONVEYOR

Product Description

The air conveying chute is a pneumatic conveying equipment widely used to convey dry powdery materials. It is commonly used in the cement industry to transport cement and raw meal powder. Since the chute has no rotating parts in conveying materials, it is easy to maintain, has good sealing, no noise, safe and reliable operation, consumes less power, is convenient to change the conveying direction, and can be used for multi-point feeding and multi-point discharge surfaces. It is widely used. The main components of the chute are the tank body and the breathable layer. This series of products uses PETS-6 (polyester) type synthetic fiber fabric as the breathable layer. It is a new type of breathable type. It has high temperature resistance (can exceed 150°C) and corrosion resistance, wear resistance, low hygroscopicity, light weight, smooth surface, long service life and other advantages.

Technical Data Sheet

Specification				XZ200	XZ250	XZ315	XZ400	XZ500	XZ630	XZ800
Conveying capacity	Tank width		mm	200	250	315	400	500	630	800
	α=4°	Cement	t/h	22	40	70	130	220	320	400
		Raw material		16	30	55	100	165	245	310
	α=6°	Cement		40	65	120	250	400	610	765
		Raw material		30	55	90	185	300	455	565
	α=8°	Cement		50	80	140	300	470	720	900
		Raw material		35	65	110	225	355	540	670
	α=10°	Cement		60	100	170	380	570	900	1080
		Raw material		45	80	140	285	425	670	800
	α=12°	Cement		70	120	205	455	685	1080	1295
		Raw material		50	95	165	340	510	805	960
Tank section length		Standards section	mm	2000						
		Non-standard section	mm	n×250						
Need wind pressure			kPa	4-5.5						
Breathable layer	Air volume required		m3/m2·min	1.5-2						
	Material			synthetic fiber						
	Thickness		mm	4-6						
	Temperature resistant		°C	150						
	Radial breaking strength		N/cm width	4700						
	Resistance		Pa	800-1200(Under the condition of 2m3/m2·min)						

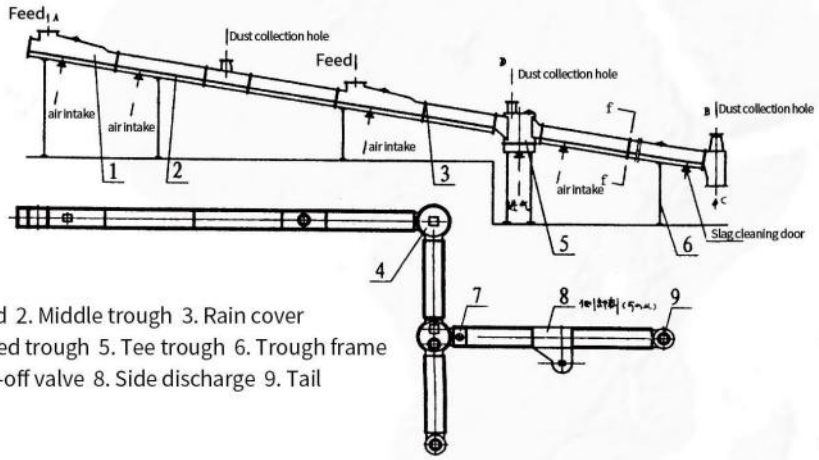
Technical performance

1. Conveyed materials: dry powdery materials with moisture content ⩽1% and temperature 150°C
2. Conveying capacity: The conveying capacity when conveying cement and raw meal finished products is listed in the following table

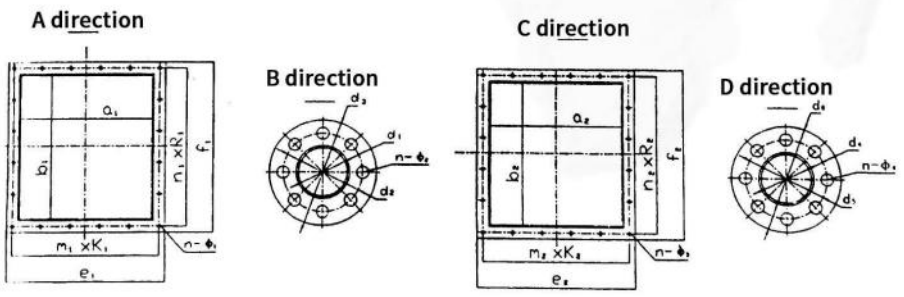
Advantages

1. Overall laser cutting
2. Fully porous plate, no burrs
3. Each chute has strong interchangeability and large conveying capacity.

Appearance diagram



1. Head 2. Middle trough 3. Rain cover
4.Curved trough 5. Tee trough 6. Trough frame
7.Shut-off valve 8. Side discharge 9. Tail



LS TYPE SCREW CONVEYOR

Features

The LS screw conveyor (hereinafter referred to as the screw conveyor) has a novel structure and advanced technical indicators. The head and tail bearings are moved outside the shell, and the middle hanging bearing adopts two interchangeable structures of rolling and moving. Both are equipped with dust-proof sealing devices. The discharge end is equipped with a cleaning device. The whole machine has low noise, strong adaptability, convenient operation and maintenance, and flexible layout of the inlet and outlet.

Technical Parameters

Specifications and models	200	250	315	400	500
Pitch	200	250	315	355	400
n	100	90	80	71	63
Q	13	22	31	62	98
n	80	71	63	56	50
Q	10	18	24	49	78
n	63	56	50	45	40
Q	8	14	19	39	62
n	50	45	40	36	32
Q	6.2	11	15.4	31	50

Note: 1. n—speed r/min (deviation allowed within 10% range)
2. Q—Conveying volume m3/h

Application scope

Screw conveyors are widely used in various industrial sectors, such as building materials, electric power, chemical industry, metallurgy , aluminum and magnesium, coal, machinery, light industry, grain and food industries; they are used horizontally or at an angle of less than 20° to transport powder, granular and Small fast-shaped materials, such as cement, coal powder, grain, fertilizer, ash, sand, etc., the material temperature is below 200°C.

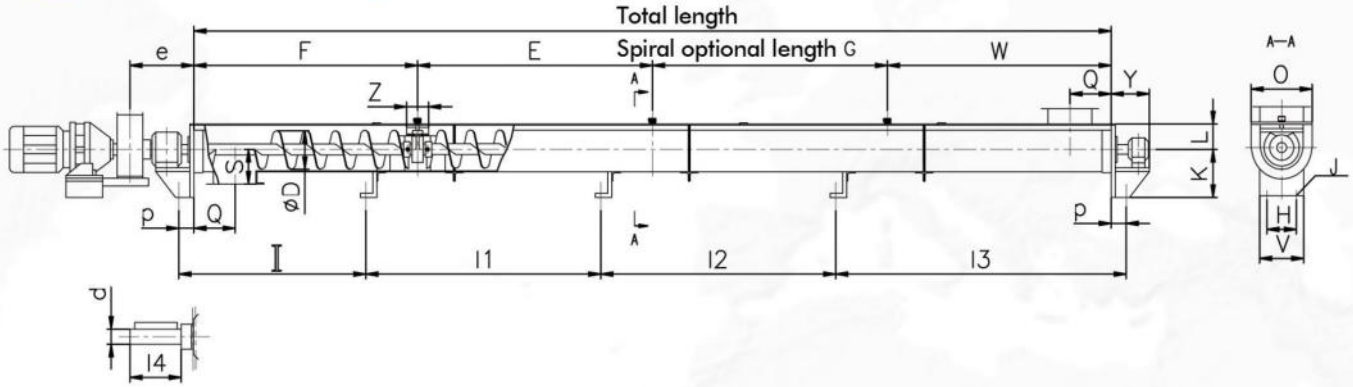
The screw machine is not suitable for conveying materials that are perishable, sticky, or easy to agglomerate, because these materials will stick to the screw during transportation and rotate without moving forward or form a blockage of materials at the hanging bearing , causing the screw machine to not work properly.

The spiral diameter of LS screw machine ranges from 100 mm to 800 mm. There are nine rules in total. The length ranges from 4 meters to 70 meters. There are steps every 0.5 meters. The selection should comply with the standard nominal length. Special needs can be found in the optional section. proposed separately.

There are two types of rotary machine drive methods:
C1 production method - when the length of the screw machine is less than 35m, single-end drive.
C2 production method - when the screw machine is larger than 35m, double-end drive.

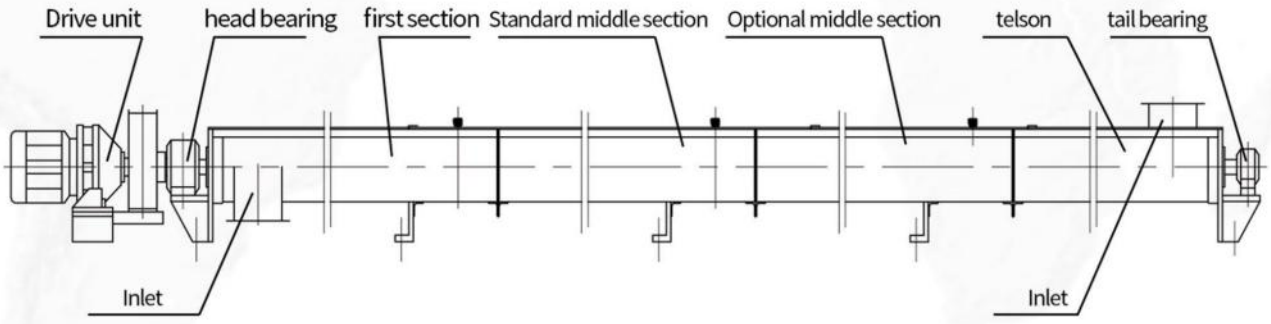
According to the types of screw machine intermediate bearings, they are divided into:
M1 - is a rolling hanging bearing, which adopts 80000 type sealed bearing. There is a dustproof sealing structure on the shaft cover. It is often used in places where it is difficult to refuel, not refueled or the oil contaminates the material. The sealing effect is good, the hanging bearing has a long life, and the output material Temperature ⩽80°C (no need to specify when ordering)
M2—is a sliding hanging bearing with a dust-proof sealing device. It is commonly used to transport materials with relatively high temperatures (>80°C) or liquid materials.

Appearance diagram



ΦD	F	E	W	1	11	13	Spiral optional length G			Corresponding foot size I2			Q	Y	L	K	R	S	Z	O	H	V	J	e	p	T	d	1	Key b×H
LS200	2500	2500	2500	2480	2500	2540	1500	2000	2500	1500	2000	2500	225	180	112	180	225	180	84	333	160	240	14	250	60	212	40	82	12×8
LS250	3000	3000	3000	2980	3000	3140	1500	2000	2500	1500	2000	2500	250	200	140	224	250	224	70	370	280	360	18	285	60	240	50	82	14×9
LS315	3000	3000	3000	2980	3000	3140	1500	2000	2500	1500	2000	2500	330	220	180	280	390	250	80	443	300	300	20	320	60	340	60	105	18×11
LS400	3000	3000	3000	2980	3000	3140	1500	2000	2500	1500	2000	2500	340	227	224	355	390	280	90	352	320	400	24	390	60	384	80	130	22×14
LS500	3000	3000	3000	3000	3000	3160	2000	2200	3500	2000	2000	3500	400	250	280	400	400	340	105	653	400	500	24	397.5	80	440	90	130	25×14

General layout



DARKO

www.darko-tech.com

DUST COLLECTOR SERIES

DUST COLLECTORS MAINLY INCLUDE PPCS AIR BOX PULSE DUST COLLECTORS, HMC SINGLE-MACHINE PULSE DUST COLLECTORS AND OTHER PRODUCTS. THE DUST COLLECTOR PANELS PRODUCED BY OUR COMPANY ALL ADOPT LASER CUTTING TECHNOLOGY TO ENSURE THE SMOOTHNESS OF THE PANELS AND THE PROCESSING ACCURACY OF THE PANEL HOLES.

HMC TYPE PULSE SINGLE MACHINE BAG DUST COLLECTOR

Product Description

The HMC type pulse single-machine dust collector is a small bag dust collector designed by our company after digesting and improving similar products at home and abroad.

The dust collector adopts pulse injection dust cleaning method, which has the advantages of good dust cleaning effect, high purification efficiency, large air volume, long life of the filter bag, small maintenance workload, and safe and reliable operation.

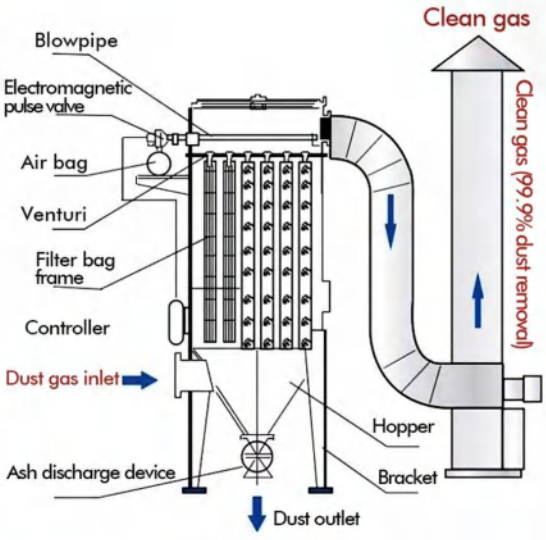
It is widely used in dust removal, purification and material recovery of non-fibrous industrial dust in various industrial and mining enterprises such as metallurgy, building materials, machinery, chemicals, and mining.

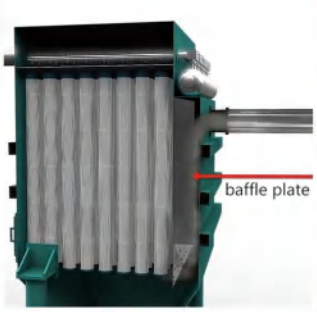
This series of dust collectors has six specifications, and each specification can be divided into two types: standard type A with ash hopper and type B with open flange (without ash hopper). Its structure is mainly composed of filter chamber, filter bag, purification room, ash hopper, flap valve, pulse injection ash cleaning device, electric control cabinet, etc. The box body is all welded structure. The access door is sealed with foam tape to ensure that the dust collector is airtight.

Working Principle

The air inlet of the HMC dust collector is located on the ash hopper. When the dust-containing gas enters the ash hopper from the air inlet, it first hits the baffle at the end of the air inlet pipe. Due to the inertia, the coarse dust in the gas directly enters the ash hopper. Play the role of pre-dust collection. The airflow entering the ash hopper then turns upward and passes through the filter bag with a metal skeleton inside. The dust is collected on the outer surface of the filter bag. The purified gas enters the clean room at the upper part of the filter bag chamber and is collected into the air outlet pipe for discharge. The indoor dust collection bags are divided into several rows, and each row of dust collection bags is cleaned at a given time interval. When the pulse valve is opened, high-pressure air is sprayed into the filter bag to remove dust on the surface of the filter bag. The pulse injection width and dust cleaning cycle of each row of filter bags are automatically and continuously controlled by a dedicated dust cleaning program controller.

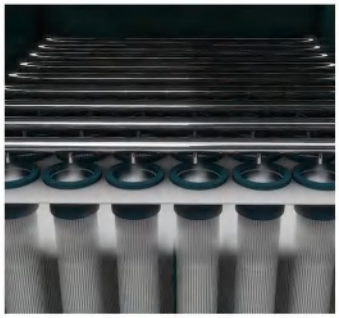
The dusty gas enters the filter chamber through the ash hopper (or the lower open flange), and the coarser particles fall directly into the ash hopper or silo.





Baffle plate

Compressed air bag



Filter bag

Hopper

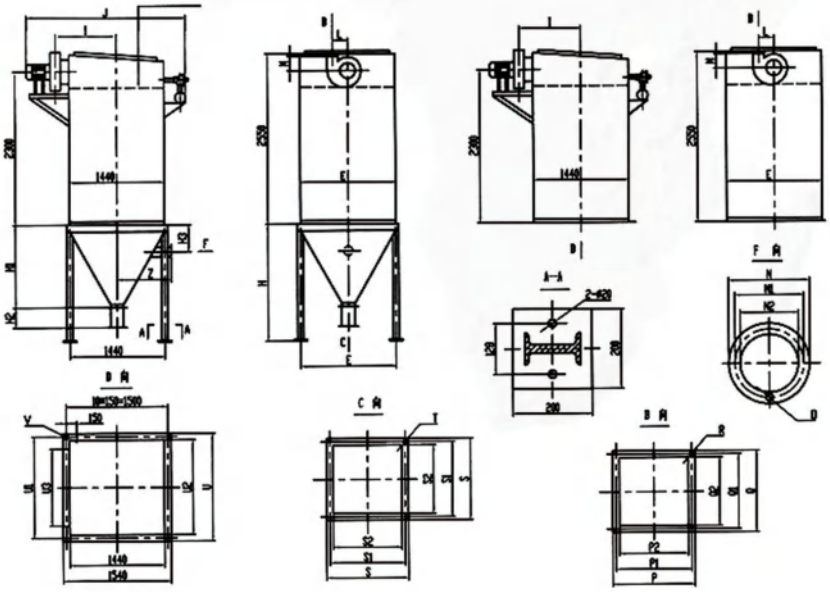
Structural Features

The dust collector body consists of four parts: shell, filter bag assembly, injection dust cleaning device, and ash discharge device.
The shell part consists of an upper box, a middle box, a ash hopper, and an air inlet and outlet.
The filter bag assembly consists of a filter bag, a filter bag frame, etc.
The injection soot cleaning device consists of an air bag, an injection pipe, a pulse valve, an electromagnetic control valve, an electric control instrument, etc.
The ash discharge device consists of a motor, reducer, screw conveyor, and star discharge valve.
Pulse valve type I adopts a right-angle pulse valve, and type I adopts a straight-through pulse valve, which reduces the resistance of the pulse valve itself and is an ideal pulse injection form.

Technical performance parameters

Performance \ Model		HMC-32	HMC-48	HMC-64	HMC-80	HMC-96	HMC-112
Processing air volume(m3/h)		1500-2100	2100-3200	2900-4300	4000-6000	5200-7000	6000-9000
Total filter area(m2)		24	36	48	60	72	84
Filter wind speed(m/min)		1.00-1.50	1.00-1.50	1.00-1.50	1.10-1.70	1.20-1.70	1.20-1.80
Number of filter bags (bars)		32	48	64	80	96	112
Inlet gas temperature (°C)		≤120°C					
Dust collector resistance (Pa)		≤1200					
Import dust concentration (g/m3)		<200					
Import emission concentration (mg/m3)		≤100					
Compressed air for cleaning	Pressure(Pa)	5~7×10⁵					
	Air consumption (m3/min)	0.10	0.14	0.20	0.24	0.29	0.34
Withstand negative pressure (Pa)		5000					
Pulse valve quantity (pieces)		4	6	8	10	12	14
Fan motor power (KW)		1.5	3.0	3.0	5.5	5.5	7.5
Weight(kg)	Type A (with ash hopper)	1350	1620	1850	2360	2800	3200
	Type B (without ash hopper)	1220	1470	1670	2150	2540	2880

Appearance diagram



HD TYPE BAG DUST COLLECTOR

Product Description

The HD series single-machine bag dust collector has the remarkable characteristics of compact structure, small size, and high efficiency. It is a replacement product of the original HD89 series single-machine dust collector. It has the advantages of reasonable process parameters and low energy consumption.

This series of units has six specifications: divided into three types: A, B, and C. Type A is equipped with a gray door, type B is equipped with a drawer, and type C has neither a gray door nor a drawer. The lower flange is directly connected according to user requirements. Dust is directly recovered on-site from dust-emitting equipment such as warehouse roofs, silos, and belt transport transfer points.

Structural Features

1. The fan parts adopt universal standard fans, which are easy to repair and replace. They also adopt shock isolation facilities and have low noise.
2. The filter material is 729 cylindrical filter bag, which has good filtration effect and long service life.
3. The dust cleaning mechanism uses a motor to drive a linkage mechanism to shake the filter bag and clean the inner surface of the filter bag. Its control device can be divided into two types: manual control or automatic control. The length of cleaning time is left to the user to adjust the time relay. (Please order the electric control box together with the dust collector).
4. The dust door adopts two structures: drawer type and dust bucket type, which is very convenient for dust removal.

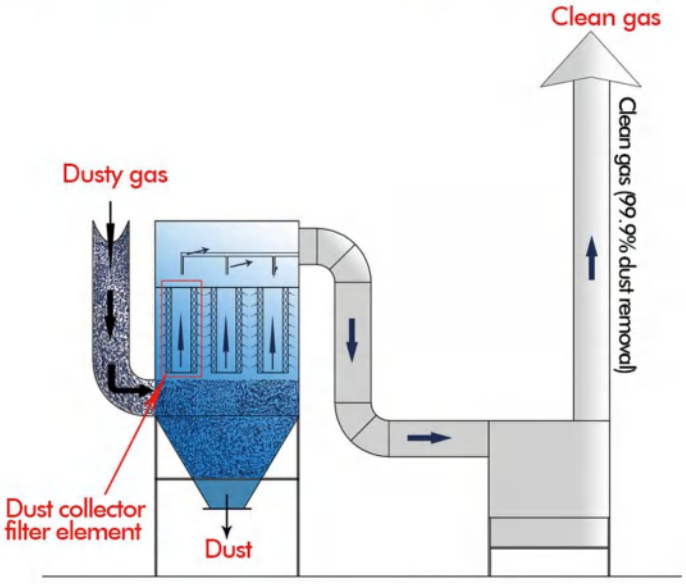
Dust removal fan

Dust outlet

Dust removal skeleton

Working Principle

With the filtration time, the dust adhering to the inner surface of the filter bag continues to increase, and the resistance of the filter bag increases accordingly, thus affecting the dust removal effect. An automatic dust cleaning mechanism is used for regular shaking cleaning or a manual dust cleaning mechanism automatically shakes after shutdown. After tens of seconds, the dust stuck to the inner surface of the filter bag is shaken off, and the dust falls on the dust door, drawer or directly on the conveyor belt.



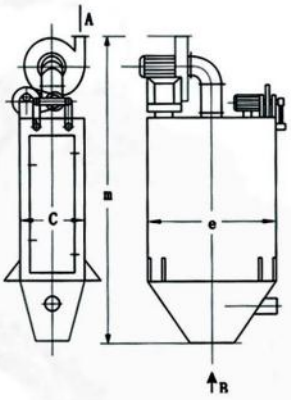
Technical performance parameters

Technical performance \ Model		HD24(A.B.C)	HD32(A.B.C)	HD48(A.B.C)	HD56(A.B.C)	HD64(A.B.C)	HD64L (A.B.C)	HD80(A.B.C)
Filter area	m2	10	15	20	25	29	35	40
Number of filter belts	indivual	24	32	48	56	64	64	80
Filter belt specifications	φ×L	φ115×1270	φ115×1270	φ115×1270	φ115×1270	φ115×1270	φ115×1535	φ115×1535
Processing air volume	m3/h	824-1209	1401-1978	1978-2198	2198-3297	3572-3847	3912-5477	3912-5477
Equipment resistance	Pa	<1200	<1200	<1200	<1200	<1200	<1200	<1200
Dust removal efficiency	%	>99.5	>99.5	>99.5	>99.5	>99.5	>99.5	>99.5
Filter air volume	m/min	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Fan power	Kw	2.2	3	5.5	5.5	7.5	11	11
Cleaning motor power	Kw	0.25	0.25	0.25	0.37	0.37	0.37	0.55
Fan motor model		Y-90L-2	Y-100L-2	Y-132S1-2	Y-132S1-2	Y-160S2-2	Y-160M1-2	Y-160M2-2
Cleaning motor model		AO2-7114	AO2-7114	AO2-7114	AO2-7124	AO2-7124	AO2-7124	AO2-8014
Type a weight	≈kg	360	400	500	580	620	650	870

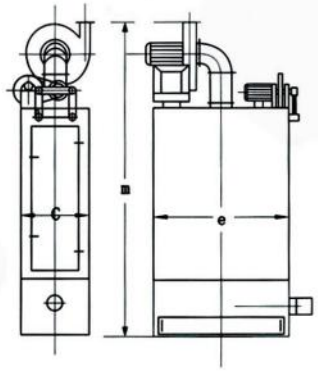
Advantages

1. Use a motor to drive the linkage mechanism for regular shaking cleaning or manual cleaning;
2. Small size, flexible use and high dust removal efficiency;
3. Design a variety of dust collecting structures to make dust cleaning more convenient.

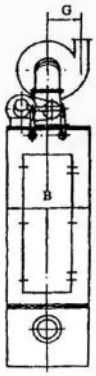
Appearance diagram



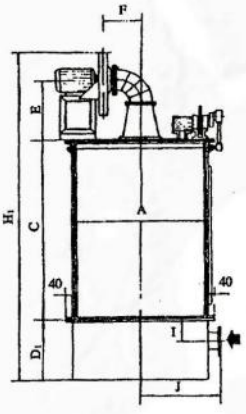
Type A support dimensions



C type base size

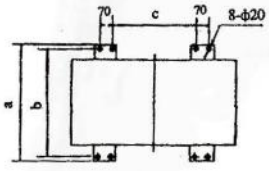


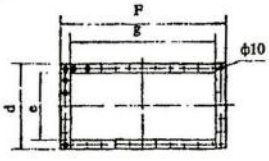
Type A gray door ash outlet flange dimensions

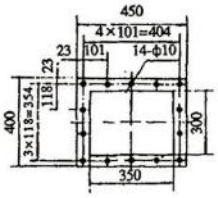


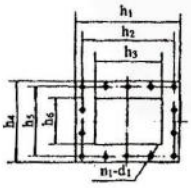
Air outlet flange size

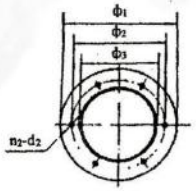
A and B type air inlet flange dimensions











BIG BAG DUST COLLECTOR

Product Description

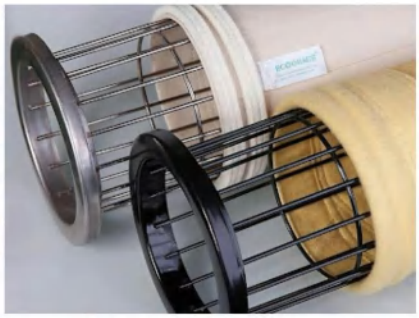
A bag filter also known as a bag house filter or fabricfilter is an air pollution control device and dust collectorthat removes particulates or gas released fromcommercial processes out of the air.

Power plants, steel mills, pharmaceutical producers, foodmanufacturers, chemical producers and other industrialcompanies often use baghouse to control emission of airpollutants.

Construction

(1) Bag filter consists of several cotton or wool bags suspended ina sheet metal casing.
(2) A shaking device is placed at the top of the vessel.
(3) A hopper present at the bottom of the filter receives the feed
(4) An exhaust outlet is present at the top of the metal container.
(5) Adjacentaly, a bell crank lever is present for maintainingnormal atmospheric conditions for the filters.
(6) A vacuum fan is also installed in this apparatus.

Dust collector filter bag

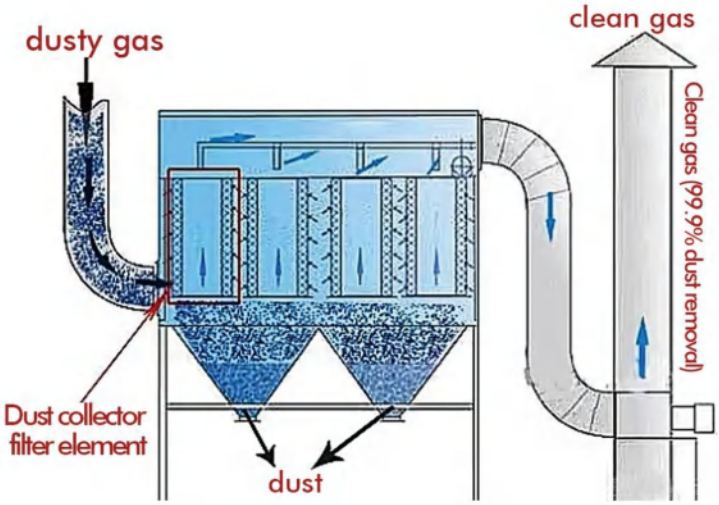


Dust collector filter bag

Dust collector filter bag

Principle

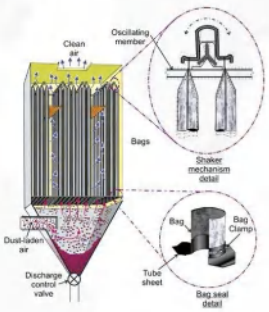
Bag filter separates the fines (or dust) from the milledpowder in two steps:
(1) Filtering period: In this period, the milled powder isfed into a cloth bag by applying suction on the oppositeside of the feed entry to facilitate separation.
(2) Shaking period: In this period, the bags are shakenby applying pressure so that the adhered powder falls offand is collected from the conical base.

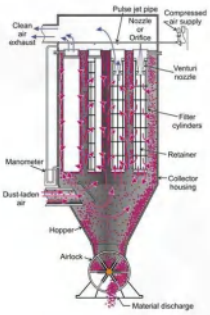


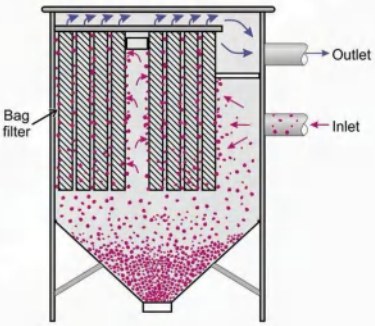
Working

Filtering period: During this period the gascontaining dust enters through the hopper. Then it ispassed inside the bags and at the top of the apparatus.The vacuum fan produces a pressure below theatmospheric pressure inside the apparatus. As a result,the particles get trapped within the bags.

Shaking period: During this period, the bell cranklever rotates and changes the position of damper. Theoutside air enters through the top in the metal casing andtherefore the vacuum is broken. At the same time, itcauses violent shaking or jerking action to the bags. Dustor fine particles are displaced from the bags. Themaximum portion of dust falls into the hopper which iswithdrawn further from the conical base.







Structure selection parameters

Parameter table of bag dust collector										
Model number	Filter bag size	Number of filter bags (article)	Treated air volume			Filter area (m^3)	Sheet thickness (mm)	Overall dimension (mm)		
			Wind speed0.8	Wind speed1.0	Wind speed1.2			L (Long)	W (Wide)	H (High)
DH-BD-48	133×2000	48	2400	3600	4800	40	2.5	1200	1700	4000
DH-BD-64	133×2000	64	3200	4800	6400	53	2.5	1400	1700	4000
DH-BD-96	133×2000	96	4800	7200	9720	80	2.5	2200	1700	4000
DH-BD-120	133×2000	120	6000	9000	12960	100	2.5	2200	2100	4500
DH-BD-160	133×2000	160	8000	12000	1600	133	2.5	2800	2100	4500
DH-BD-200	133×2000	200	10000	15000	20000	166	2.5	3400	2100	4500
DH-BD-300	133×2000	300	15000	22500	30000	249	2.5	5200	2100	4500
DH-BD-400	133×2000	400	20000	30000	40000	332	2.5	6000	2100	4500
Device support customization Configuration: including ladder, guardrail										

Uses

(1) Bag filters are also commonly referred to as fabric dustcollectors that are used in large industrial units to separatedust particles from dusty gases.

(2) Bag filters are the most efficient and cost effective type ofindustrial dust collectors.

(3) Bag filters are considered the most efficient among all dustcollectors 'cause they can reach an efficiency level of upto 99%.

(4) Bag filters are also used along with a cyclone separator.

(5) They are used to clean the air of a room.

Advantages

(1) Simple to operate.

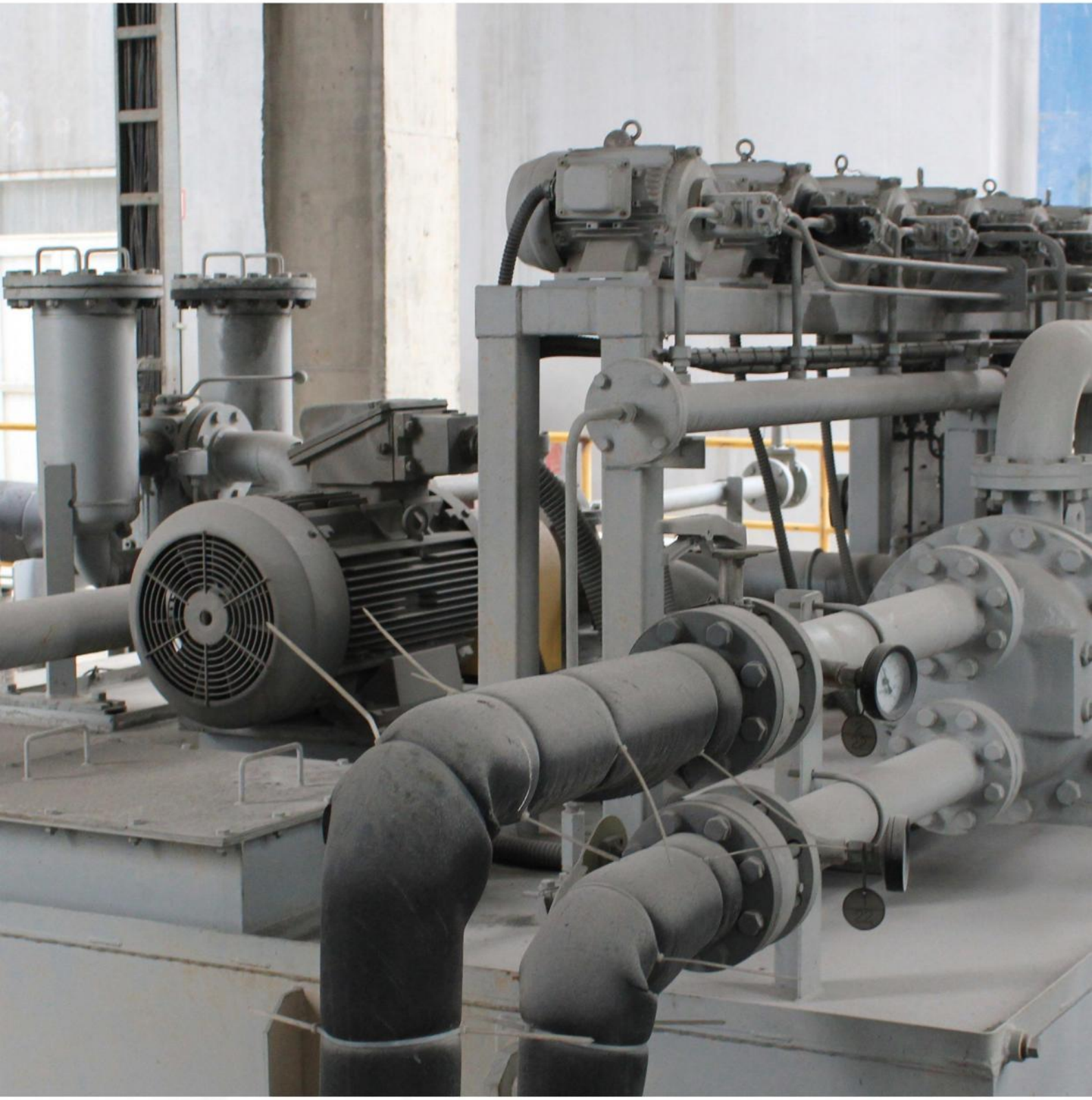
(2) Reduced sensitivity to particle size distribution.

(3) No high voltage requirement.

(4) Flammable dust may be collected.

(5) Very high collection efficiencies possible

DARKO

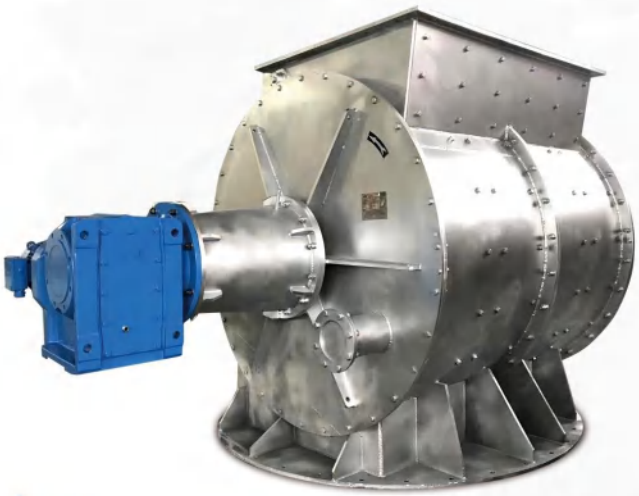


VALVE SERIES

THE VALVE DIAMETER RANGES FROM DN100-DN6000, AND IS MAINLY DIVIDED INTO: PROCESS AIR VALVES AND MATERIAL VALVES. THE PROCESS AIR VALVES INCLUDE BUTTERFLY VALVES, SHUTTER VALVES, EXPLOSION - PROOF VALVES, ELECTRIC ADJUSTABLE HIGH-TEMPERATURE GATE VALVES, ETC. THE MATERIAL VALVES ARE DIVIDED INTO HIGH-TEMPERATURE FLAP VALVES, STAR VALVES, ETC. TYPE ASH DISCHARGE VALVE, WEAR-RESISTANT THREE-WAY VALVE, ETC.

VERTICAL MILL AIR LOCK FEEDING VALVE

Product Description



The vertical mill air-locking feeding valve is a large-scale rotary air-locking feeding valve specially designed for vertical mill feeding. It is improved on the basis of similar foreign products. It is used for feeding raw materials, cement vertical mills and coal vertical mills.

The valve has the characteristics of good air locking effect, no blocking, no material sticking, wear resistance, and the rotor gap can be flexibly adjusted.

The wear-resistant scraper plate and lining cylinder can be replaced after wear, and the entire valve body can be repaired and used multiple times, with a long service life.

Performance characteristics

1. It has simple structure, reliable performance and good sealing performance.
2. There are replaceable anti-wear linings and inspection doors, and their structural features are designed to solve the problem of grinding materials not getting stuck due to their particle size. The long-term use at home and abroad highlights the characteristics of this equipment - small size and easy promotion and use.
3. The structure of the valve is a rotary impeller, shell, driving device, etc. The rotary impeller is welded with wear-resistant plates to increase the service life of the impeller; the center distance of the inlet of the rotary unloader and the center line of the shell are A certain deviation is intended to be suitable for the entry of materials with larger particles.
4. Most of the casing linings of rotary unloaders are equipped with an anti-wear layer; the impeller is supported by bearings at both ends, which can ensure a uniform gap between the impeller and the casing; due to the high feed temperature, the gap between the impeller and the casing is Leave appropriate gaps between them.
5. Both ends are sealed with asbestos packing, which is simple, has good sealing performance and is easy to operate and replace.

Working principle

It is mainly composed of a shell, a rotary impeller, an end cover, a sealing pair, a bearing, a transmission device and other components. It is a device that uses volume to quantify powder materials and uses gravity to flow and feed materials. It uses an electric drive device to drive the impeller to rotate, and feeds the material from the top of the casing. When the impeller rotates, the material falling from the top is transferred to the bottom, and the material falls by gravity. The discharge port provided on the discharge side can The discharged material caused by the rotation of the impeller is directed into the discharge port.

Performance parameter

Nominal Pressure	Proper Temperature	Applicable Media
0.05MPa	≤400℃	Dry dust, particles, crystals, etc.

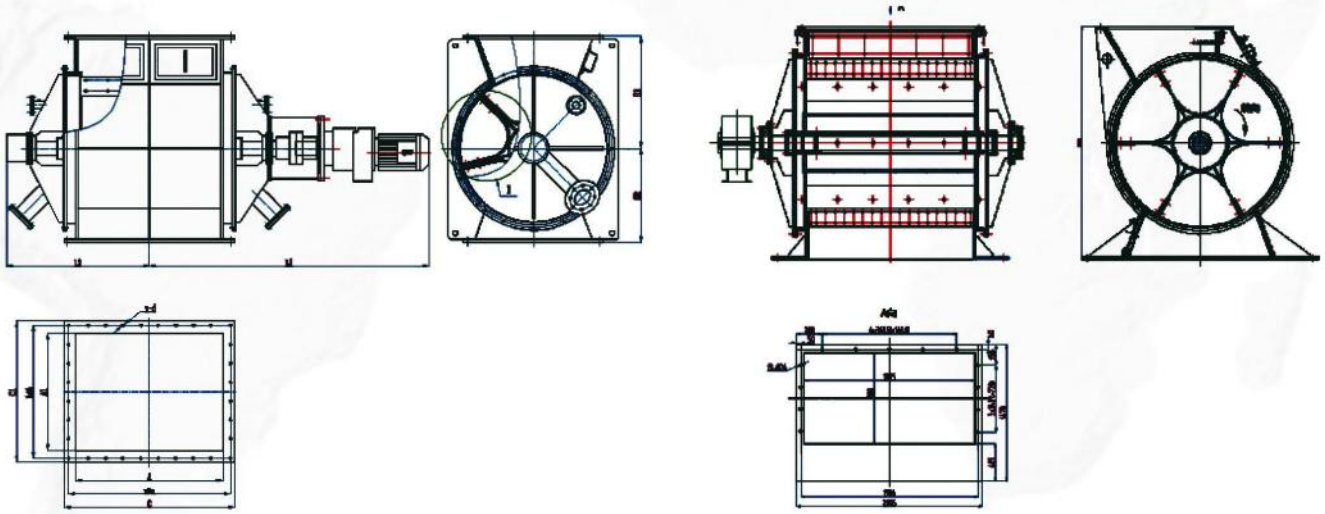
Specification

Models and specifications	Ability (t/h)	Power (kw)	D	H	A	B	C	Weight (t)
EMV1200	220	9.2	1200	1600	1200	1400	1500	7.6
EMV1600	320	11	1600	2200	1600	1800	3100	10.5
EMV1800	550	15	1800	2500	1800	2000	3800	13
EMV2000	600	18.5	2000	2800	2000	2200	4300	15.6

Advantages

1. Effectively prevent materials from sticking, jamming, and blocking the equipment, improve the system operation rate, and reduce the impact of insufficient material supply on the firing system.
2. Significantly reduce the number of process shutdowns, increase the operating time of the raw material system, and reduce the increased power consumption due to system startup and shutdown.
3. Effectively reduce failure damage and operating wear, and reduce maintenance work and repair costs.
4. Good air locking can improve the external force and separation effect of fine powder inside the mill, thereby improving the mill system time.

Appearance diagram



PREHEATER HIGH TEMPERATURE FLAP VALVE

Product Usage

The high-temperature flap valve of the cyclone preheater of the cement kiln preheating and predecomposition system is a heat-resistant component that can rotate around its axis. It uses the self-weight of the material flow to realize automatic opening and closing. The flap valve not only needs to ensure the smooth discharge of the preheater, but also plays a role in locking the air.

Because of its simple structure and no need for power, it is currently a widely used discharge air locking device in cyclone preheater systems. Different temperature - resistant materials are selected according to the different temperatures at each level.

Valve characteristics

1. The valve body is equipped with reinforcing ribs, and the inner wall of the valve body is lined with a high-temperature refractory casting layer to increase the strength of the valve body;
2. The valve plate and valve shaft are fixed with bolts, which facilitates the disassembly, assembly and replacement of the valve plate;
3. The valve plate is welded or cast by heat-resistant steel plate. The valve plate has a short moving distance, a small swing angle of the valve stem, and a high frequency, which makes the cutting even and less likely to cause internal leakage. The inlet and outlet are eccentrically arranged to keep the inlet and outlet consistent with the discharge center of the valve plate;
4. This valve is equipped with a counterweight regulator to facilitate the adjustment of the torque of the valve stem and weight, and the counterweight is accurate;
5. This valve is equipped with an inspection door. During inspection, the valve plate can be rotated out of the shell to check and remove the crust in the valve body;
6. The valve shaft is supported by rolling bearings, the valve shaft rotates flexibly, and the sealing form is graphite packing to avoid air leakage on the valve side, effectively reducing the temperature of the support active point and reducing valve shaft wear;




Performance parameter

Working pressure	Suitable temperature	Suitable medium
0.05MPa	≤1000°C	Powder, powder dust and grain material etc

Working principle

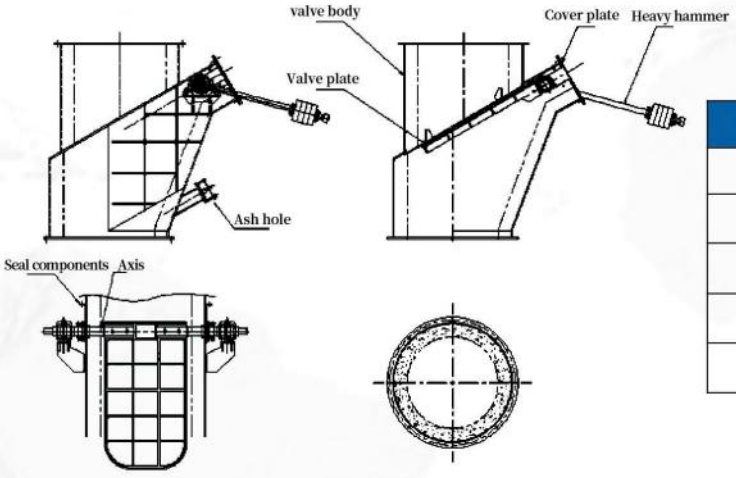
Bulk or strand-like materials cannot be picked up by the airflow and fall directly into the cyclone, causing a short circuit. The function of the preheater flap valve is to disperse the lump-like or strand-like materials so that the materials can evenly disperse into the airflow of the inlet pipe of the next-level cyclone.
The sealed cavity container of the preheated high-temperature flap ash discharge valve is equipped with a flap that can automatically open and close, rotate flexibly and reliably, and is impact-resistant, vibration-resistant, and wear-resistant. The operation of the flap is realized by a connecting rod with a heavy hammer. The connecting rod and the heavy hammer are located on both sides of the valve body.

The principle of torque balance is used to achieve the work. Even when the torque generated by the material on the flap is greater than the torque generated by the rocker of the heavy hammer, the flap opens automatically and the material slides down naturally, evenly and smoothly along the opening of the flap. Once the accumulated material is removed, the weight and the The torque generated by the rocker causes the flap to close quickly.

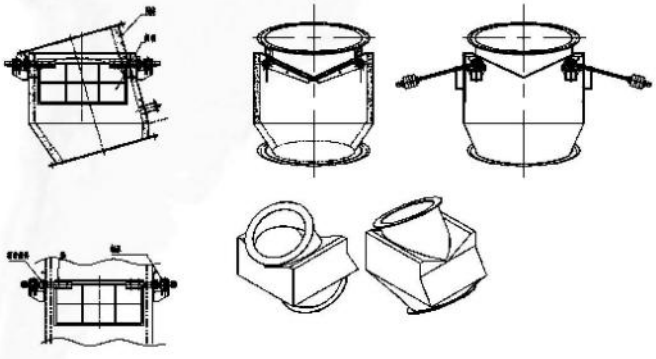
Lining material parameter

Refractoriness	Volume density			Anti-pressure intensity			Anti-fold intensity		
1700	110℃	540℃	815℃	110℃	540℃	815℃	110℃	540℃	815℃
	>2.5	>2.5	>2.5	>70	>80	>80	>10	>10	>10

Outline drawing and specification size table



Single Door		
Specification	Effective path	H
φ650	DN450	1050
φ750	DN550	1200
φ700	DN500	1300
φ900	DN700	1500



Double Door		
Specification	Effective path	H
φ900	DN700	900
φ1100	DN900	1700
φ1300	DN1100	1700

DARKO

AIR LOCK FLAP DUST DISCHARGE VALVE

Product Usage

The air-locked flap ash discharge valve is widely used in industries such as building materials, metallurgy, petrochemicals, electric power, mining, and light industry. It is used as an air-locked ash discharge device for various types of dust removal equipment, and various mills, dryers, materials, etc. Air locking and ash discharge devices for warehouses, silos and closed conveying systems.

Structure characteristic

The air-locked flap ash discharge valve opens and closes alternately up and down, and has an automatic reset mechanism.
It is divided into: Z is the automatic reset mechanism of the weight, which has the functions of smooth operation, energy saving, adjustable large and small ash unloading capacity, reliable ash unloading and air locking.
C is the automatic reset mechanism of the hanging hammer, which has the functions of saving space and energy, convenient ash unloading and adjustment, and reliable ash unloading and air locking.
B is cam and connecting rod transmission, automatic weight reset mechanism;
D is cam and connecting rod transmission, spring automatic reset mechanism, with compact structure, reasonable design, smooth operation, reliable ash unloading and air locking. It is an ideal equipment for feeding and unloading various non-viscosity solid powder materials, granular materials less than Φ10mm, crystal materials, and lump materials.
Type I is for single-plate unloading, and Type II is for double-plate unloading.

Working principle

The electric air-locking flap ash discharge valve is mainly composed of valve body, valve plate, valve shaft, rocker, connecting rod, cam, spring and other parts. The continuous action of the cam, connecting rod and spring is used to realize air locking and ash discharge. The cam system is composed of It is electrically controlled, so the opening angle and time of the valve plate can be controlled within a certain range by the deceleration device.
When the deceleration device drives the cam to rotate to the upper half circle, the linkage mechanism of the upper valve interacts, and the valve plate gradually opens to discharge dust. As the cam rotates, the spring mechanism gradually closes and resets the valve plate; when the cam rotates to the second half circle, the lower valve The linkage mechanism interacts, the valve plate gradually opens to discharge ash, and with the rotation of the cam, the valve plate gradually closes. In this way, one of the valve plates on the pipeline is always closed. Therefore, the ash discharge and air locking can be achieved achieve the goal at the same time.

Performance parameter

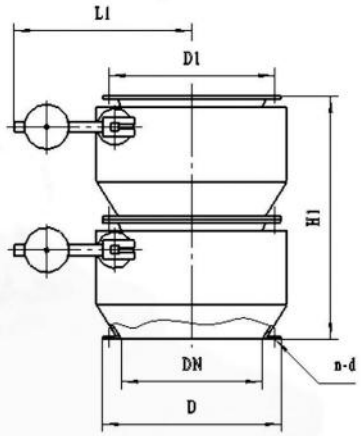
Suitable Medium	Suitable Temperature	Discharge Amount
Dry powder dust, grain, crystalloid etc	150°C	3～168m³/h

Appearance joint dimension

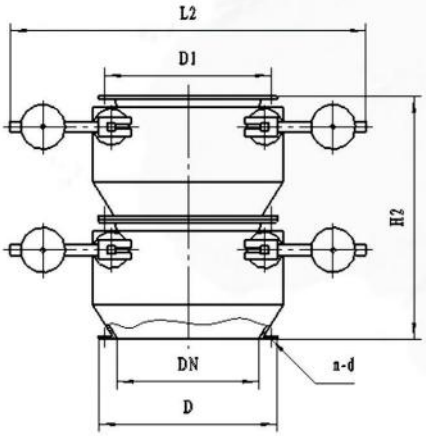
DN	D	D1	H1	H2	L1	L2	L3	n-d	Driving device	KW
150	230	195	500		460		1400	8-Φ10	BWY-15-59	0.6
200	280	245	600		500		1500	8-Φ10	BWY-15-59	0.6
220	300	265	620		520		1540	8-Φ10	BWY-15-59	0.6
250	350	305	650		560		1610	12-Φ10	BWY-18-71	0.8
300	400	355	750	540	600	1220	1840	12-Φ10	BWY-22-71	1.1
320	420	375	780	560	620	1260	1980	12-Φ12	BWY-22-71	1.1
400	500	455	950	700	815	1500	2060	16-Φ12	BWY-2215-121	1.66
450	550	505	1050	800	840	1550	2180	16-Φ12	BWY-2215-121	1.66
500	600	555	1150	850	870	1600	2210	20-Φ14	BWY-2215-121	1.66
600	700	655	1350	980	960	1920	2310	20-Φ14	BWY-2215-121	1.66
720	820	775		1120		2220	2380	20-Φ14	BWY-2715-121	3.18
800	900	855		1260		2520	2420	24-Φ14	BWY-2715-121	3.18
1000	1130	1070		1500		2940	2640	28-Φ18	BWY-3322-187	4.3

Appearance diagram

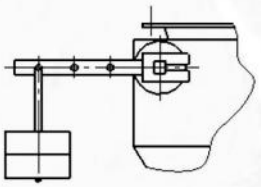
Z Ⅰ Outline drawing:



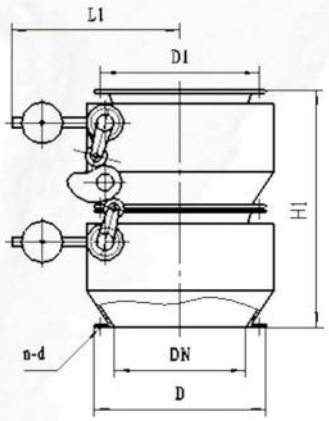
Z Ⅱ Outline drawing:

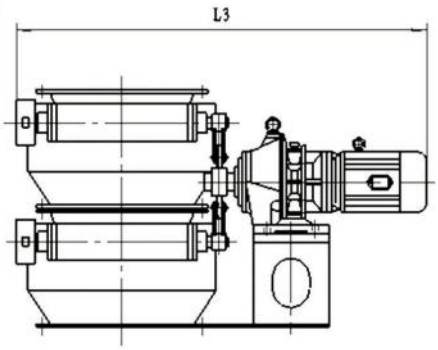


C Ⅰ、Ⅱ Outline drawing:

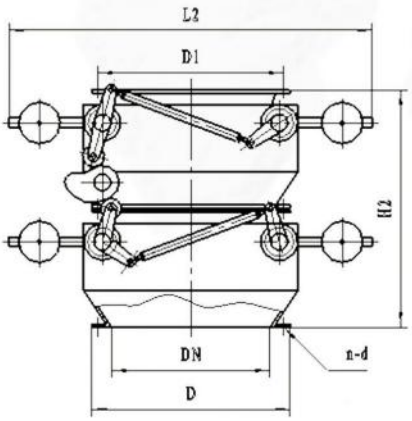


B Ⅰ Outline drawing:





B Ⅱ Outline drawing:



DARKO

STAR TYPE ASH DISCHARGE VALVE

Product Usage

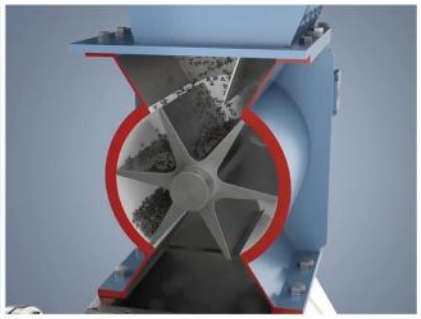
Star-shaped dust discharge valve, also known as impeller feeder, rotary discharger, etc., is widely used in the building materials, metallurgy, chemical industry, and electric power sectors as the discharge device of various dust removal equipment and various mills, dryers, Feeding and unloading devices for silos and other equipment.

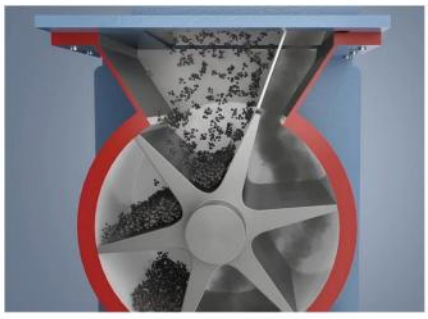
Performance characteristics

The valve adopts a steel plate welded structure, the blades have good wear resistance, the blades and the transmission shaft are rigidly connected, the structure is compact, the workpiece is reliable, lightweight and energy-saving.

Working principle

The valve is composed of a valve body, a transmission shaft, a blade and a reducer. When the electric reducer is running, it drives the impeller through a one-way coupling. The feed impeller is equipped with a high-temperature resistant elastic hard-sealing steel plate. When the transmission mechanism drives the rotor to rotate, The feeding impeller and the elastic hard sealing steel plate are fixed with pressure plates and bolts. The rotor drives the elastic hard sealing steel plate to rotate in the valve body. The feeding impeller brings the material from the feeder inlet (upper port) to the feeder outlet (lower port). To achieve the purpose of unloading.





Performance parameter

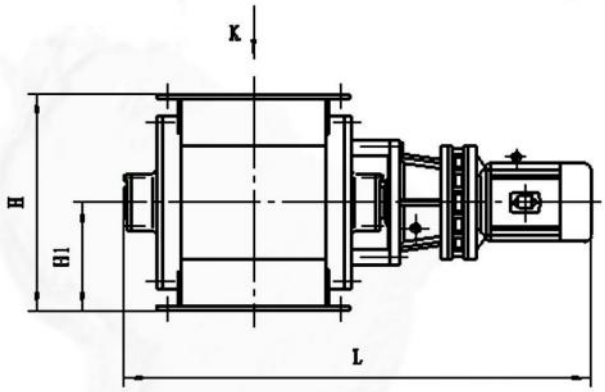
Nominal pressure	Medium velocity	Suitable temperature		Suitable medium
0.05MPa	≤30m/s	≤120℃	≤500℃	Dry powder, grain, crystal etc

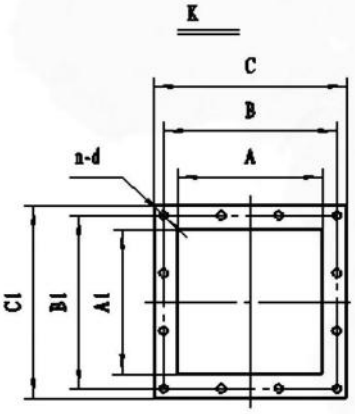
Advantages

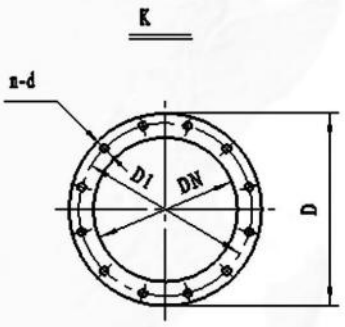
Adopting elastic sealing lip and special packing sealing structure, the sealing performance is reliable;
Use high-precision bearings to ensure high-precision operation;
Long service life, small gaps and low leakage;
The quantification of conveyed materials is accurate and rapid.



Appearance diagram



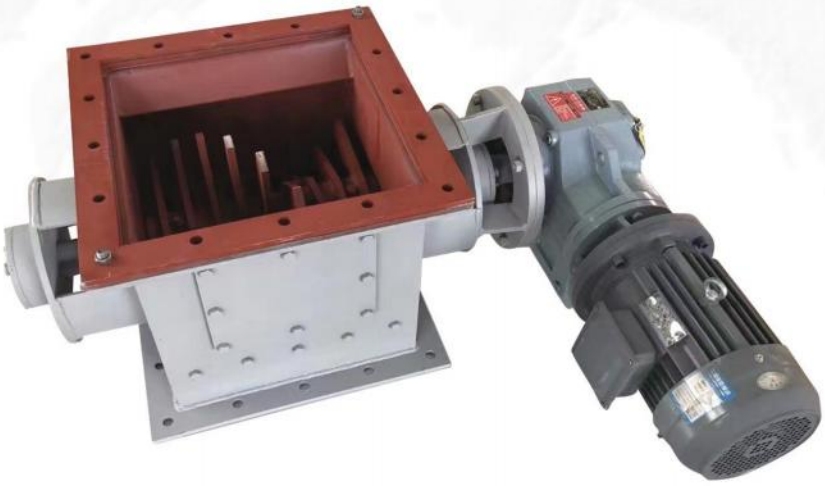




LUMP BREAKER

Product Usage

The main function of the cement crushing valve is to crush lumpy cement materials. It can be installed horizontally or vertically at the outlet of the silo or at the front end of the flow control valve or pneumatic cut-off valve. When larger lumps of material appear in the material, they can be crushed immediately. To prevent blocking the channel of the discharge valve and ensure smooth discharge.

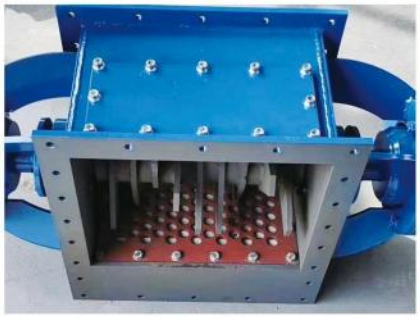


Performance characteristics

1. Reasonable and compact structure, easy to install, maintain and use.
2. The driving device is a reducer.
3. The crushing blade and knife seat are made of highly wear-resistant materials.
4. The crushing particle size is generally below 20mm, and the proportion of 20~30mm is ⩽20%.

Working principle

The reducer drives the blade shaft, and the rotating blade shaft squeezes between the blades and between the blades and the knife holder to achieve the effect of crushing block materials. Block materials larger than 30mm are repeatedly broken until they pass through the grid.

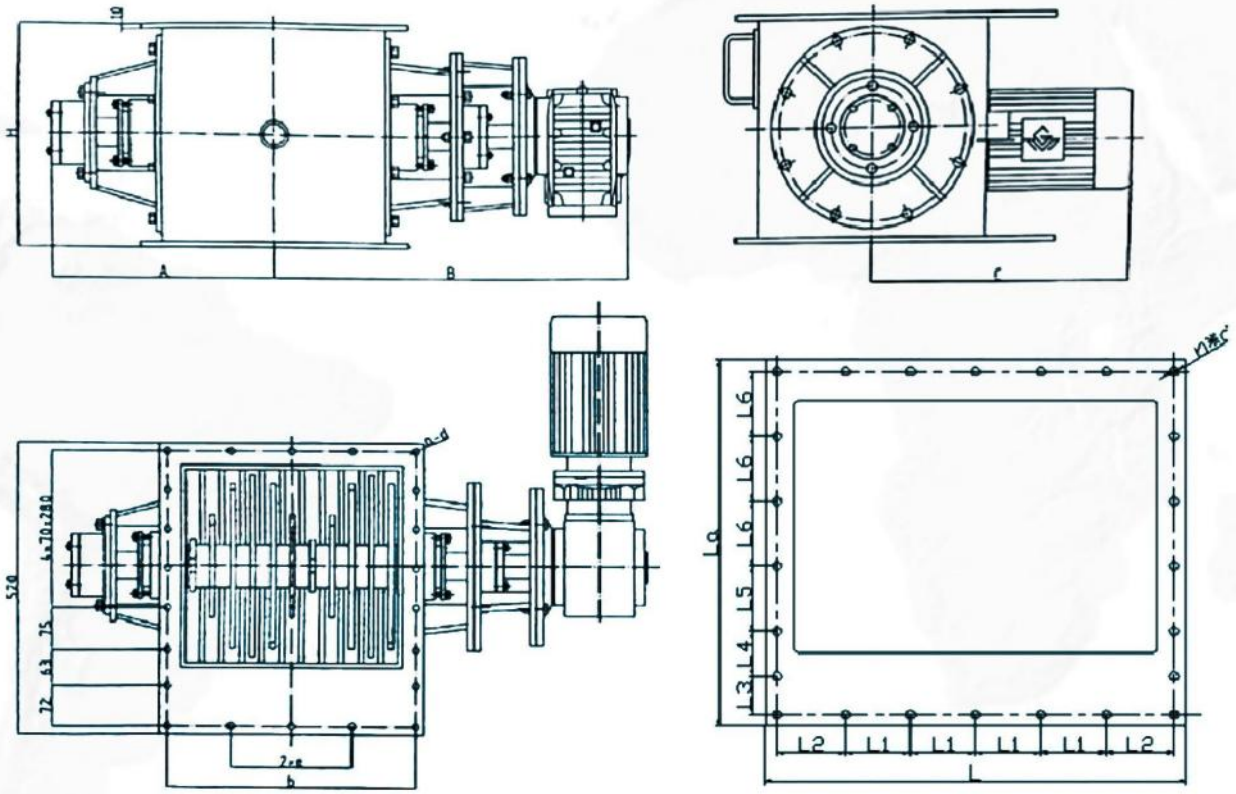


Structure selection parameters

Model	Effective size(mm)	Capacity(m^3/h)	Maximum block material (mm)	Fluidization pressure (Kpa)	Air consumption (m3/min)
PSF300	B300	300	<150	≥30	0.23
PSF400	B400	450	<200	≥30	0.30
PSF500	B500	600	<200	≥30	0.38



Appearance diagram



ELECTRIC DISTRIBUTING VALVE

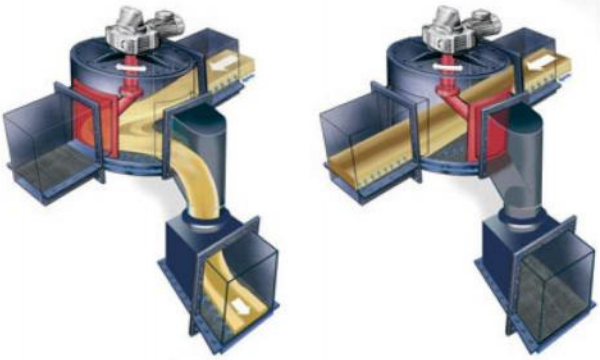
Product description

The electric distribution valve is used to transport powdery materials and control the direction of material flow. The flow direction can be changed by adjusting the position of the valve core in the cylinder. Widely used in building materials, metallurgy, mining, light industry, food and other industries. It is an ideal equipment for changing the flow direction of materials in solid grain and powder material conveying systems.

The electric distribution valve is mainly controlled by an electric actuator, which is operated by inputting a 4-20mA electrical signal.

Performance characteristics

The distribution valve adopts high-quality steel plate welded structure, which has small size, light weight and low resistance. Driven by Bernard electric actuator, the material flow can be controlled remotely.



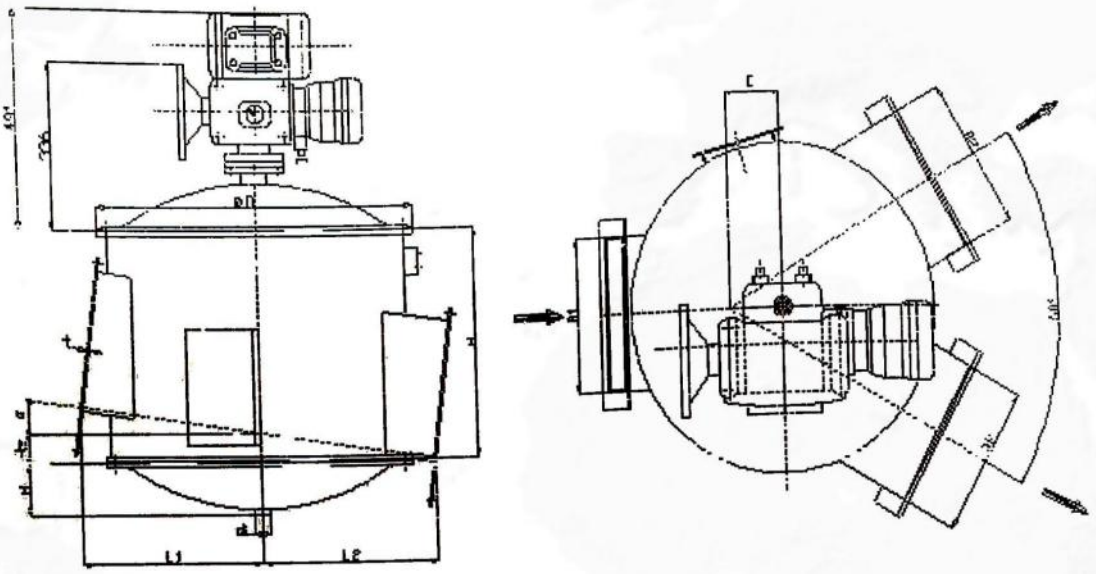
Working principle

The electric distribution valve consists of four parts: electric actuator, shell, arc-shaped valve plate and lower inflation device. When working, the electric actuator drives the arc-shaped valve plate to swing at a certain angle through the central axis to adjust the set position. The lower inflation device fluidizes the material on the breathable layer and transports it out along the discharge direction. This achieves the purpose of controlling material flow and distributing materials.

Technical Parameters

Electric distributing valve	Specification	Φ530mm	Φ 830mm	Φ1050mm
	Maximum circulation flow	300t/h	500t/h	630t/h
	Installation slope	8°	8°	8°
Actuator model		AS-100	AS-200	AS-200
Motor power(KW)		0.03	0.10	0.10
Maximum torque (Nm)		1000	2000	2000
Input and output signal (mA)		4~20		

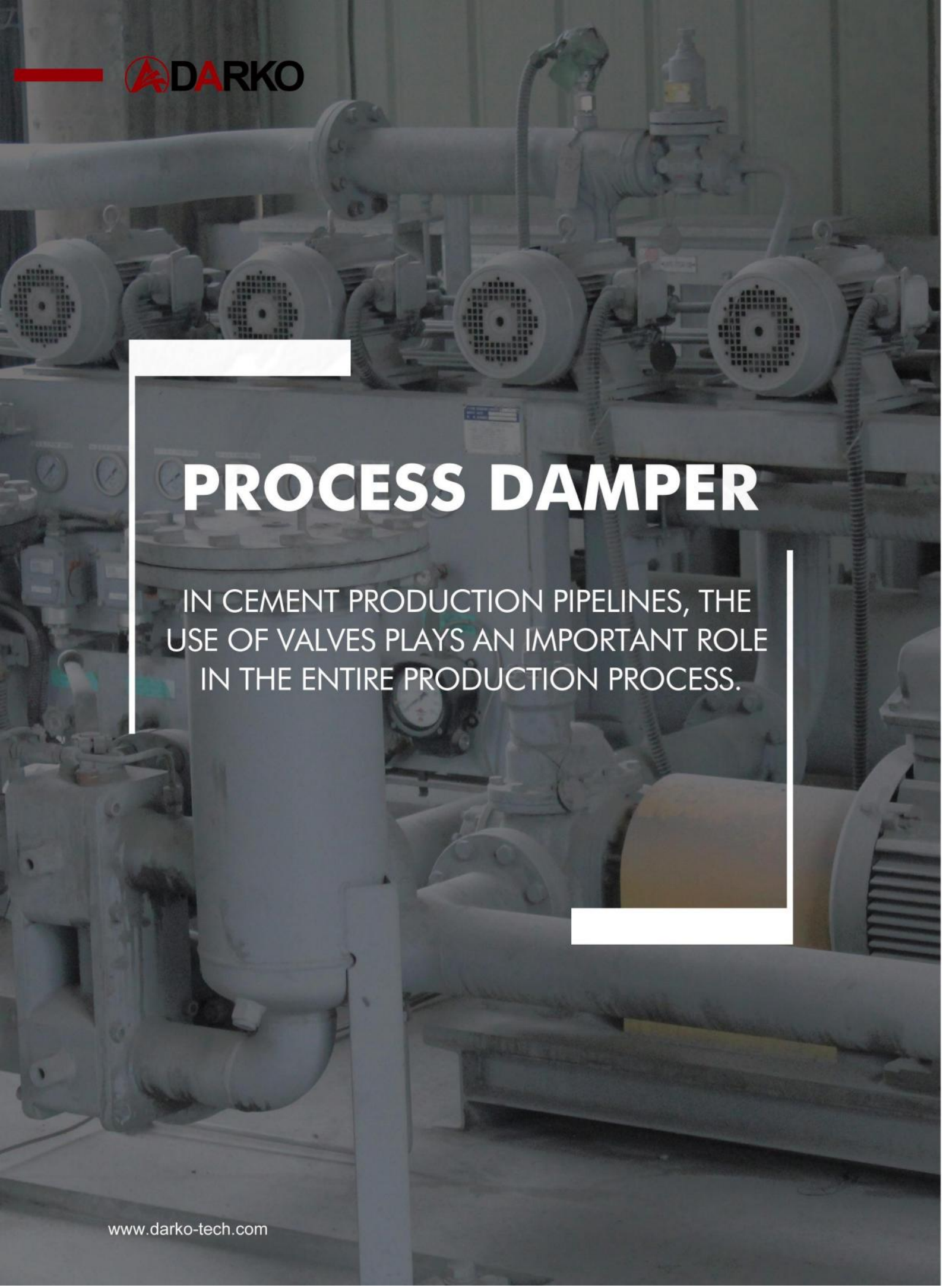
Appearance diagram



Specification ΦD(mm)	B1(mm)	B2(mm)	E(mm)	H(mm)	di(mm)	h(mm)	Hz(mm)	α°
Φ500	300	300	100	550	RP11/2	136	51	8
Φ830	400	400	150	660	RP11/2	115	71	8
Φ1050	500	500	200	715	RP2	160	107	8

Operation precautions

1. Install a regulating valve on the gas path before the gas enters the inflation device at the bottom of the electric distribution valve to control the amount of air intake, and drain the gas tank regularly according to actual operating conditions.
2. Before operation, let low-pressure air (the low-pressure air should be filtered by the dryer) enter the breathable layer before allowing material to be fed; when parking, the material should be stopped first, and then the air source should be turned off; when parking for a long time, the Clean the material on the breathable layer.
3. The air source entering the breathable layer should be a Roots blower.
4. Materials and debris that are agglomerated, agglomerated and have a humidity >1% are not allowed to enter to prevent the arc-shaped valve core from getting stuck.



DARKO

PROCESS DAMPER

IN CEMENT PRODUCTION PIPELINES, THE USE OF VALVES PLAYS AN IMPORTANT ROLE IN THE ENTIRE PRODUCTION PROCESS.

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PROCESS DAMPER

Our company has developed 350 series and more than 800 specifications of products. The valve products have more than 20 national utility model and invention patents. The valve diameters range from DN100-DN6000, which are mainly divided into: process air valves and material valves. Among them, process valves Air valves include butterfly valves, shutter valves, explosion-proof valves, electric adjustable high-temperature gate valves, etc. Material valves include high-temperature flap valves, star-shaped ash discharge valves, wear-resistant three-way valves, etc.

In addition, our company can develop ultra-high temperature, wear-resistant, and special-process valves according to user needs. Our company's valve products have been exported to more than 20 countries and regions including Algeria, Nigeria, Indonesia, Philippines, and Hungary.

Stainless steel butterfly valve

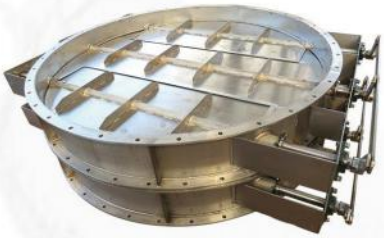
Flue gas ventilation gate valve

Air-blower regulating valve

High temperature butterfly valve

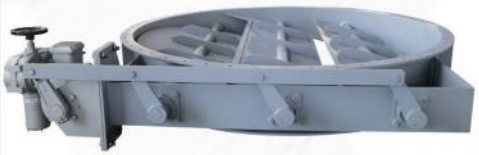
Tilting electric shutter valve

Electric ventilation butterfly valve



Electric high-temperature louver valve

Rectangular shutter valve

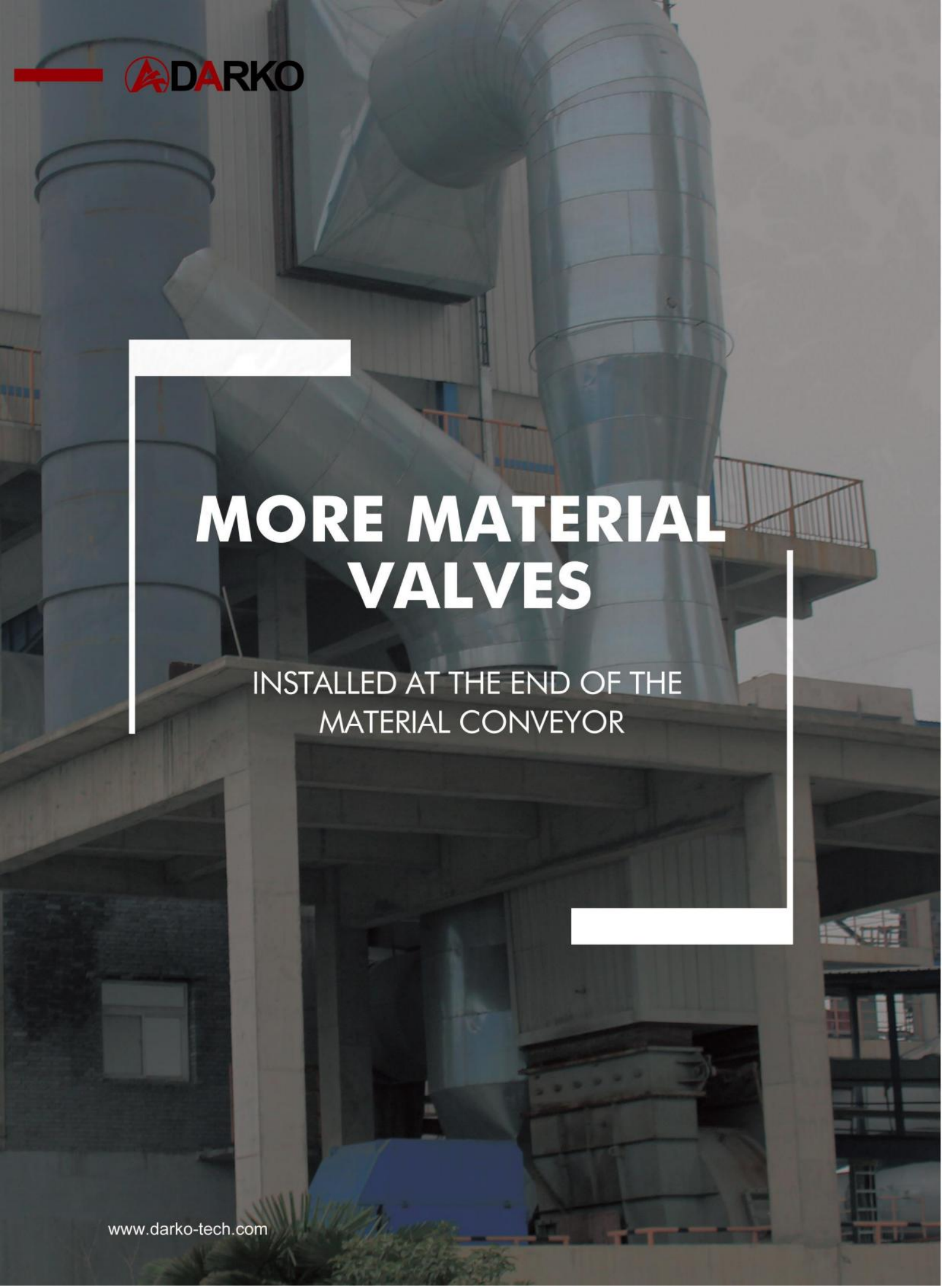


Electric shutter valve

Manual louver valve

Pneumatic powder butterfly valve

Manual butterfly valve



DARKO

MORE MATERIAL VALVES

INSTALLED AT THE END OF THE MATERIAL CONVEYOR

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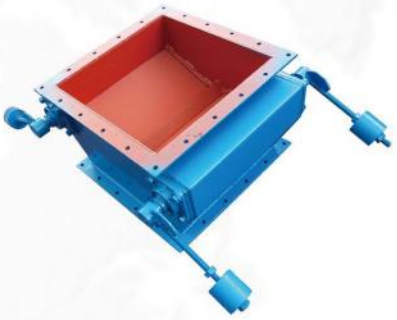
MORE MATERIAL VALVES

The material conveying valve is the feeding equipment in the negative pressure pneumatic ash removal system and is installed at the end of the material conveying valve;
Material valves include high-temperature flap valves, star-shaped dust discharge valves, wear-resistant three-way valves, etc.



Single layer double door lock

Heavy hammer single plate flap valve

Electric hammer air locking flap valve

Pneumatic flap valve

Electro-hydraulic sector valve

Electric arc valve

Rotary feeder

Double impeller feeder

Star type ash discharge valve

Electric two-way delivery valve

Three-way distribution valve

Metal expansion joint

DARKO

DOMESTIC PERFORMANCE TABLE

Number	Industry	Name
1	Cement	China Building Materials, Sinoma, China Resources, Jidong, Conch, Shanshui, BBMG, Tianrui, Huaxin, Lafarge, etc.
2	Mine	Shanghai Xizhi Mining Engineering Machinery Co., Ltd.
3	Steel Plant	Weifang Special Steel Group Co., Ltd.
4	Aluminum industry	Tianshan Aluminum Alumina Project
5	Lithium industry	Qinghai Taifeng Xianxing Lithium Energy Technology Co., Ltd.
6	Power plant	Xinjiang Tianye Self-Provided Thermal Power Plant Phase III 2×330MW Unit Project
7	Plaster	Taishan Gypsum Co., Ltd.
8	Chemical industry	Guang'an Jiuyuan Phosphorus Chemical Technology Co., Ltd.
9	Environmental friendly	Smith Blue Sky (Xuzhou) Environmental Protection Engineering Co., Ltd.
10	Mineral powder	CNBM Northern Cement, Shandong Binzhou, Jiangsu Huaian Renzhou
11	Biological Technology	Yingkou Magnesite Chemical Group Co., Ltd.
12	Food	Damin Food (Zhangzhou) Co., Ltd.
13	Grain and oil	Yihai (Taizhou) Grain and Oil Industry Co., Ltd.
14	New energy	Nanjing Kaisheng Kaineng Environmental Protection Energy Co., Ltd.
15	Fertilizer	Shandong Liaocheng Luxi Chemical Fifth Fertilizer Co., Ltd.
16	Glass	Asahi Glass Special Glass (Suzhou) Co., Ltd.
17	Glassfiber	Shandong Taishan Fiberglass Zoucheng Co., Ltd.
18	Mortar	Nanjing Tianyin Group Company
19	Calcium carbonate	Jiangxi Chenyu Powder Products Co., Ltd.
20	Plastic	Anhui Huasu Co., Ltd.
21	High clay	Jiangxi Shanggao County Xuefeng Powder Co., Ltd.

EXPORT PERFORMANCE TABLE

Number	Nation	Name	Product	Remark
1	Russia	Russian FER project 5000t/d cement production line	Bag dust collector, cement bulk machine, clinker truck bulk machine, air conveying chute	LAFARGE
2	Hungary	Hungary NOSTRA Cement Daily Production 2,500 Ton EP Project	Limestone powder warehouse truck bulk machine, cement bulk machine, clinker truck bulk machine, train bulk machine, valve equipment	Sinoma Construction Co., Ltd.
3	Brazil	Brazilian VC-EDB project	Expansion joint, air chute, air supply chute, inflatable box	Shanghai Dijiyi Environmental Protection Technology Co., Ltd.
4	Syria	Syria UACC Project	Train bulk machines, bagged cement loaders, chutes, valve equipment	Sinoma Construction Co., Ltd.
5	Vietnam	Vietnam Formosa Ha Tinh Steel Industry Co., Ltd. Blast furnace project	Bulk loaders, manual gate valves, shutter valves, homogenizing equipment, air conveying chutes	Changchun Kaixi Environmental Protection Co., Ltd.
6	Nigeria	Nigeria SOKOTO 5000TPD cement production line	Clinker truck bulk machine, cement truck bulk machine, shutter valve, butterfly valve, arc valve, flap valve, three-way valve, dust collector	Sinoma Construction Co., Ltd.
7	Angola	Angola SECIL LOBITO1500T/D production line	Fixed kiln ash bulk machine, mobile cement bulk machine, cement truck bulk machine,Fixed clinker bulk machine, pulse dust collector	LAFARGE
8	Vietnam	Vietnam Fuxin Co., Ltd. 1300t/d project	Bottom homogenization, bottom clinker bulk machine, air conveying chute	Jiangsu International Economic and Technical Cooperation Corporation
9	Belarus	Belarus 5000t/d cement production line-BL/KV project	Pulse dust collector, clinker truck bulk machine, cement bulk machine, cement homogenization system, raw meal homogenization system	CITIC Group
10	Bulgaria	Bulgaria project daily output 4000t clinker cement line	Kiln ash bulk machine, clinker bulk machine, valves, air conveying chute, dust collector	Sinoma Construction Co., Ltd.
11	Russia	Russian FER2 project cement production line	Pulse dust collector, mobile cement bulk machine, gate valve, rod valve	LAFARGE
12	The Philippines	Philippine CEBU Homogenization Library Project	Pulse dust collector, 16-meter homogenizing warehouse, electric butterfly valve, horizontal bagged cement loading machine	China Jiangsu International Economic and Technical Cooperation Corporation
13	Türkiye	Türkiye Bilecik daily output 3300 tons cement production line	Clinker truck bulk machine, stationary cement bulk machine, bagged cement bulk machine,Intermediate bag unloading mechanism, pulse dust collector, air conveying chute	China National Machinery Import and Export (Group) Co., Ltd.
14	Algeria	Algeria Biskra Project	Pulse dust collector, bulk machine, shutter valve, electric butterfly valve, rod valve, tee Valve, rotary valve, hammer lock air flap valve	Sinoma Construction Co., Ltd.
15	Taiwan, China	Taipei Port Second Bulk Cargo Center Back Line Project	Valves, expansion joints, damper valves, bulk loaders, air conveying chutes, dust collectors	Zili Heavy Steel Structure Construction (Shanghai) Co., Ltd.
16	Nigeria	Nigeria UNCIEM Project	Clinker bulk machine, shutter valve, electric butterfly valve, flap valve, three-way valve	LAFARGE
17	Tanzania	Tanzania MBE Program	Rod valve, electric arc valve, gate valve, rotary valve, shutter valve, electric butterfly valve,	LAFARGE
18	Indonesia	Indonesia's BATURAJA 5,000-ton clinker production line per day	Dry ash bulk machine, bottom unloader, gate valve, shutter valve, dust collector	Nanjing Airconway Material Conveying System Co., Ltd.
19	Algeria	Algeria SCIZ raw material mill 425T/H project	Three-way and four-way valves, stick valves, gate valves, flap valves, rotary valves, flow valves, regulating valves,	Sinoma Construction Co., Ltd.
20	Vietnam	Vietnam Lam Dong Bauxite 650,000 tons/year project	Bottom bulk machine, gate valve, material valve, air valve, pulse dust collector	Chinalco

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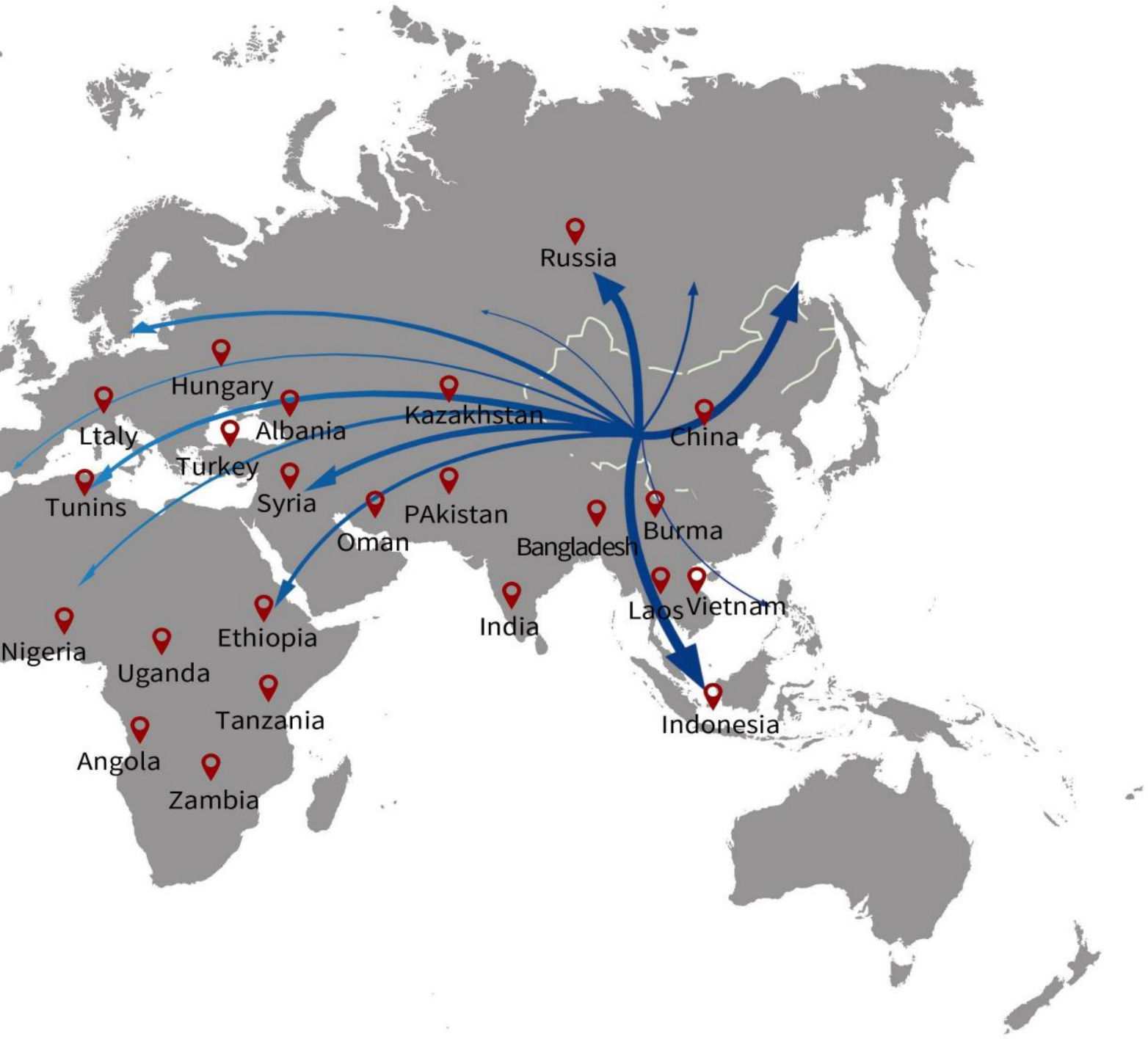

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