



唐山双泰科技有限公司
北京双泰气动设备有限公司唐山分公司

THE LEADER IN THE FIELD OF
PNEUMATIC LIFTING AND TRANSPORTATION

Address: Room 704, Building A, Huayuan Haotiandi, Liyuan Town, Tongzhou District, Beijing
Factory Address: Jingtang Smart Port , High-tech Industrial Park, Tangshan City, Hebei Province
Website: www.bjshuangtai.com www.air-hoist.com
Email: xsb@bjshuangtai.com
Tel: +86-10-61569832 Mobile: +86-13601010352

BEIJING SHUANGTAI PNEUMATIC EQUIPMENT CO., LTD.
PRODUCT MANUAL



Beijing Shuangtai Pneumatic Co., Ltd. is committed to creating explosion-proof lifting transport solutions experts.

Build the "heart of China" for equipment upgrading.



*establishment of
the company*

*authoritative
certification*

*patents held by
the company*

*the company's
core technology*

COMPANY PROFILE

Beijing Shuangtai Pneumatic Equipment Co., Ltd. was established in 1998 with a registered capital of 32 million yuan. The company belongs to the pneumatic hoisting machinery manufacturing industry and is a national high-tech enterprise integrating scientific research, production, sales and service. At present, the main products include: pneumatic monorail crane, pneumatic hoist, pneumatic winch, pneumatic crane, explosion-proof special battery monorail crane, pneumatic balancer and hydraulic hoist. Through 25 years of unremitting efforts, Beijing Shuangtai has developed from a single variety to more than 60 varieties of seven series. The company adheres to the concept of science and technology as the guide, and dedicates itself to the field of pneumatic lifting and transportation. In 1998, the first pneumatic hoist produced in China filled the gap in China. It won the National New Product Award at the First National High-tech and New Achievements Exhibition. Since then, the Company has gone all the way forward on the road of new products, and has successively overcome many products such as large-tonnage 100t pneumatic hoist, 60t pneumatic travelling crane, 10t pneumatic jib crane, 20t pneumatic gantry crane and 100kN pneumatic monorail crane, etc., providing more effective anti-explosion guarantee means for such inflammable and explosive places as petroleum, chemical industry, coal mine, ship, military industry and papermaking in China, breaking the monopoly of European, American and Japanese countries in this field. It has made contributions to the modernization construction and development of China. In addition, our pneumatic jib crane has written a thick and colorful painting for the weightlessness training of our national aviation personnel, and with the craftsmanship spirit of dripping stones, a new chapter in the field of pneumatic lifting and transportation in China is opened.

The company has 9 invention patents, 26 utility models and 3 software copyrights, and has successively obtained the following qualifications: National High-tech Enterprise, Zhongguancun High-tech Enterprise, Beijing "Specialization and Special New" Small and Medium Enterprises, Beijing Intellectual Property Pilot Demonstration Unit, and Quality System Certification (Quality, Environment, Occupational Health and Safety), seven Class 3A credit certificates of enterprises, CE Certification, Safety Marks of Mining Products, explosion-proof certificates, etc. In 2008, The company participated in the research and development of China's space weight-loss supporting equipment, and completed the preparation of China's astronaut and precision instrument space weight-loss environment test. For this purpose, the Astronaut Training Center issued a commendation and thank letter. In 2016, the Company won the second prize of China Machinery Industry Science and Technology Award in preparation of national standard for pneumatic hoist. In Feb. 2021, the Company became the council unit of China Heavy Machinery Industry Association Hoisting Hoist Branch; In August 2021, it was approved as the Pneumatic Equipment Technical Center of Petrochemical Technical Equipment Committee of China Petroleum and Petrochemical Engineering Research Association. Our company is a member unit of China National Heavy Machinery Industry Association Lifting Hoist Branch. According to statistics of the Association, in 2019, 2020 and 2021, the main pneumatic hoist products of the company account for 20%, 25% and 25% of the domestic market respectively, ranking the first among the domestic enterprises in the same industry.

In terms of basic field construction, our company has participated in the preparation of relevant standards such as GB/T 31052.10-2016 Rules for Inspection and Maintenance of Hoisting Machinery, JB/T 11963-2014 Pneumatic Hoist, JB/T 14198-2022 Pneumatic Hoist Bridge Crane, JB/T 14197-2022 Pneumatic Balancer, JB/T 14898-2024 Pneumatic Gantry Crane. Now, our company is in charge of the preparation of national standards such as Pneumatic Gantry Crane, General Technical Conditions for Pneumatic and Electric Monorail Cranes, Safety Technical Conditions for Explosion-proof Lithium Battery Monorail Crane Locomotive. At present, our company has passed the preliminary review.

Formulate strategies, define objectives, construct intelligent production lines and workshops, realize lean production, creative manufacturing and fine management, and realize numerical control of key processes, so as to make enterprises achieve qualitative leap in specialization, refinement, characterization and novelty.

	Model	HQ0.5	HQ1	HQ2	HQ3	HQ5	HQ10	HQ12	HQ15	HQ20	HQ25	HQ32	HQ40	HQ50	HQ80	HQ100
	Items															
1	Lifting Capacity (Ton)	0.5	1	2	3	5	10	12	16	20	25	32	40	50	80	100
2	Rated Air Pressure(Mpa)	0.5														
3	Ascending Speed (m/min)	7	5	2.5	2	1	0.6	0.5	0.35	0.6	0.5	0.4	0.3	0.25	0.2	0.2
4	Descending Speed (m/min)	13	8	4	4	1.5	1.25	1.2	1.1	1.2	1.3	0.9	1	1	1	1
5	Air Consumption (m ³ /min)	1.2	1.4	1.4	1.8	2.5	3.4	3.5	3.8	4.7	4.7	4.7	5.5	5.5	8	8
6	Number of Chains	1	1	2	2	2	2	2	2	2/4	2/4	2/4	4	4	6/8	6/8
7	Lifting Range (m)	0-20														



Pneumatic Monorail Crane

Product Introduction

Pneumatic monorail crane is one of the most ideal lifting and transportation equipments in the world. It has incomparable advantages over electric motor, diesel engine and hydraulic engine drive:

- ▲ First,It has no electric spark and solves the explosion-proof problem of lifting equipment. Applicable to: hazardous areas in Zone I, including IIC, T4 and below.
- ▲ Second,It is small and portable, and its weight is 1/3~1/8 of that of other equipment with the same load capacity
- ▲ Third,The pneumatic monorail crane has no tail gas pollution, no high-pressure pipeline, and the required air pressure is 0.4MPa~0.7MPa ordinary industrial air pressure.
- ▲ Fourth,It can work freely in a variety of complex environments such as horizontal, curved and pitching.

Driven by compressed air, the air motor is driven to rotate at high speed, and drives the driving clamping wheel to rotate after the torque is increased. It rolls along the elevation of the lifting rail and can travel with the track level, turning and pitching up and down. It is mainly composed of ①auxiliary brake device component, ②coupling body, ③traction device component, ④air circuit control system, ⑤sliding trolley, ⑥pneumatic hoist, ⑦ remote control device (optional)

Based on the above advantages, the pneumatic monorail crane can be used in pits, roadways, coal mines, chemical industry, ammunition storage and other fields.



Technical Parameter

Model		DQ25	DQ30	DQ40	DQ50	DQ60	DQ80	DQ100
Traction (kN)		≥25	≥30	≥40	≥50	≥60	≥80	≥100
Rated Air Pressure (MPa)		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Traveling Speed (m/min)		24	24	24	24	24	24	24
Rated Lifting Capacity (Ton)		≥10	≥12	≥16	≥16	≥20	≥25	≥25
Maximum Angle (°)		21	21	21	21	21	21	21
Applicable Track Model		I140E OR I140V						
Turning Radius	Horizontal (m)	4	4	4	4	4	4	4
	Vertical (m)	9	9	9	9	9	9	9
Motor Parameter	Model	QDH1.5	QDH1.5	QDH2.0	QDH3.0	QDH5.0	QDH5.0	QDH5.0
	Power (KW)	2*4.2	2*4.2	2*5.5	2*6.5	2*6.5	4*6.5	4*6.5
	Working Air Pressure (MPa)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Air Consumption (m³/min)		5.6	5.6	6	6.5	6.5	13	13
Operating Mode		Manual Control Or Remote Controller Control						
Remote Control Unit		Optional (Remote Control Distance ≥ 30m)						
Weight (kg)		1000	1000	1100	1500	1500	3000	3000
Configuration of Hoist		5t+5t	6t+6t	8t+8t	8t+8t	10t+10t	12.5t+12.5t	12.5t+12.5t

Model	Angle of Climb(°)	0	5	10	15	20
DQ25	Load Capacity (kg)	10000	9000	7500	6000	3500
DQ30		12000	10000	6800	5800	4500
DQ40		16000	15800	11000	8000	7000
DQ50		16000	16000	14000	12000	10000
DQ60		20000	19000	16000	14000	12000
DQ80		24000	23000	18000	16000	14000
DQ100		24000	24000	20000	18000	16000



Pneumatic Balancer

Product Introduction

The pneumatic balancer realizes the gravity-free state of the object by using the principle of aerodynamics and the compressed air as the power source, so as to balance the gravity of the material.

The working principle of the pneumatic balancer mainly involves the following aspects:

1. Power source: the pneumatic balancer uses compressed air as the power source, and the pressure is usually 5~7kg/cm³. This compressed air drives the mechanical parts through the movement of the cylinder piston to realize the lifting of the load.
2. Control system: the pneumatic balancer is equipped with a complex control system, including a pneumatic reversing valve, a precision pressure reducing valve, etc., which is used to control the gas pressure in real time and ensure that the load maintains a balanced state during the lifting process. When the load stays at the preset position, the operator can easily move the load to the required position with less force through the action of the equalizing control valve.
3. Safety mechanism: In order to ensure the safety of the operator, the pneumatic balancer is also provided with a safety mechanism. For example, in case of sudden air failure or insufficient air pressure, the pneumatic reversing valve will be closed in time, and the mechanical arm will slowly drop, so as to ensure the safety of production and operators.
4. Application field: as it can reduce labor intensity, guarantee operation safety and improve production efficiency, pneumatic balancer is widely used in various production lines, such as automobile assembly, new energy battery assembly, mechanical manufacturing and processing, repetitive handling work, product parts assembly and warehouse loading and unloading. To sum up, the complex and exquisite design of the pneumatic balancer realizes the easy manipulation and positioning of the weight, greatly improving the work efficiency and safety.

Technical Parameter

Model	Air Pressure Range	Balance Weight	Lifting Stroke	Overall Dimensions (mm)	
				Cylinder Barrel	L * W * H
PHQ—40-1	0.4—0.7 (Mpa)	0—40Kg	1800mm	Φ160×300	410×270×300
PHQ—60-1		0—60Kg	2000mm	Φ160*300	416×275×300
PHQ—100-1		0—100Kg	3000mm	Φ265*306	416×300×330
PHQ—200-1		0-200	1500mm	Φ265*306	416×300×330



Hydraulic Hoist

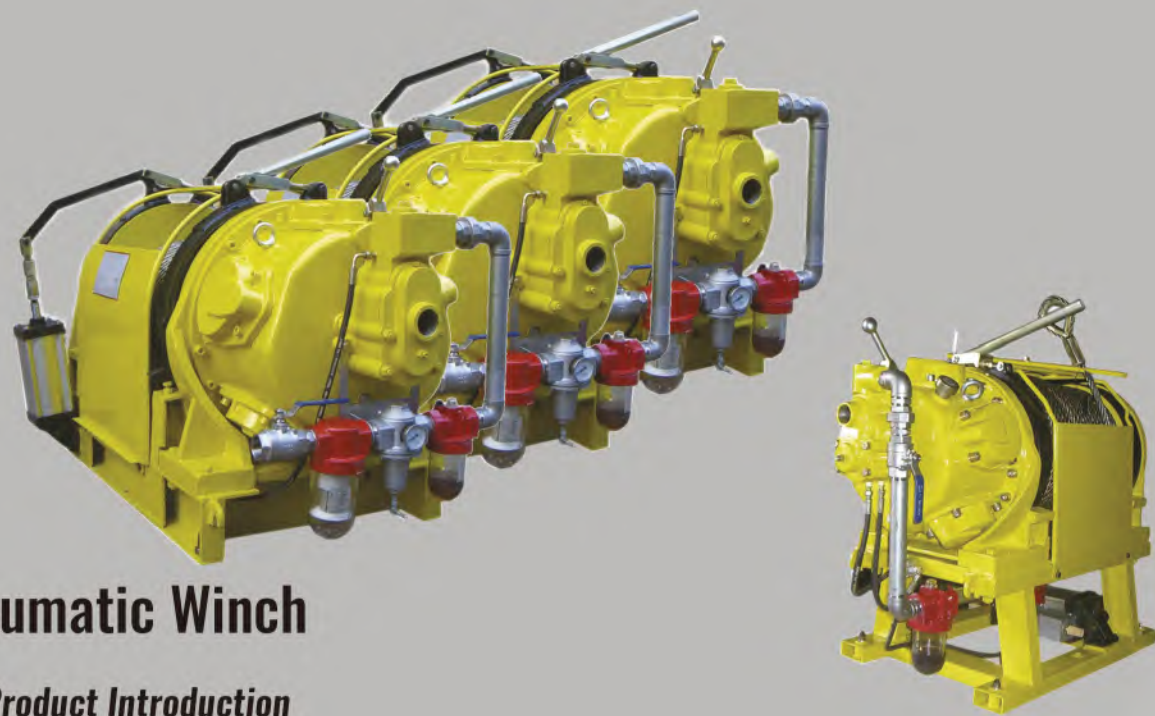
Product Introduction

The hydraulic hoist is applicable to special working places such as marine vessels, oil mining platforms and coal mines. It has stable transmission, strong bearing capacity, automatic lubrication to extend the service life of components, and special requirements for stepless speed change and low noise.

The working principle of the hydraulic hoist is based on the hydraulic transmission system. It uses hydraulic oil as the working medium, pressurizes the hydraulic oil through the hydraulic pump, and then converts the pressure energy into mechanical energy through the hydraulic cylinder and piston, so as to realize the lifting and hoisting functions. Specifically, when the system pressure reaches the opening pressure value of the brake, the normally closed brake opens, the piston moves, the brake is released, and the motor output shaft drives the drum to rotate through the deceleration device to realize the lifting function. When the system pressure drops to zero, the piston in the brake returns to the original position under the action of spring force, and the drum stops rotating to realize the braking function.

Technical Parameter

Items	Model	HYD3	HYD6	HYD10	HYD16	HYD20	HYD25	HYD37	HYD50
Capacity (Ton)		3	6	10	16	20	25	37	50
Ascending Speed (m/min)		4	2	1.7	1.1	0.8	1.1	0.7	0.5
Descending Speed (m/min)		4.5	2.3	2.1	1.5	1	1.2	0.8	0.5
Rated Air Pressure (Mpa)		13	13	13	13	13	15	15	15
Air Consumption (L/min)		48	48	48	48	48	80	80	80
Motor Power (kW)		3.5	3.5	3.5	3.5	3.5	6	6	6



Pneumatic Winch

Product Introduction

Overview

The working principle of the pneumatic winch is to rely on compressed air to drive the motor, which drives the drum to rotate through two-stage gear reduction, thereby achieving the lifting of various heavy objects.

The pneumatic winch is mainly composed of a gas source regulating valve, a pneumatic motor, a gearbox, a drum, a brake system, and a winch frame. Its working principle is based on the prime mover that compresses air as the working medium, and converts the working pressure into mechanical kinetic energy through the expansion effect of air compression. Specifically, the pneumatic motor is connected to a gearbox, which transfers the circumferential kinetic energy of the pneumatic motor to the drum, causing it to rotate and run. When the joystick returns to the neutral position, both the intake and exhaust chambers are closed. If the winch is in a lifting state, the heavy object will not descend, which is for safety use. In addition, pneumatic winches have the advantages of small size, light weight, and compact structure, and are suitable for various occasions that require lifting or towing heavy objects, such as land drilling projects, offshore drilling platforms, mining drilling, ships, and flammable gas sites.

Technical Parameter

Model	QD JC 0.1	QD JC 1	QD JC 3	QDJC 5	QDJC 10	QD JC 12	QD JC 15	QD JC 20
Capacity (Ton)	0.1	1	3	5	10	12	15	20
Speed (m/min)	50	24	16	12	6	6	4	3
Rated Air Pressure (Mpa)	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Power (KW)	2.7	3.2	12	16	30	30	36	40
Wire Rope Diameter (mm)	6	11	16	20	24	24	26	30
Rope Capacity (m)	70	70	70	100	100	100	100	100
Weight (kg)	60	130	450	500	1150	1150	1300	1550
Overall Dimension (cm)	55*26*28	65*36*36	72*40*42	130*60*62	153*72*85	153*72*85	160*80*85	170*80*85



Pneumatic Traveling Crane

Product Introduction

Overview

Pneumatic traveling crane is the lifting equipment matched with pneumatic hoists of various specifications. It has been widely used in industrially developed countries for a long time. It adopts European structure, light weight, small size, beautiful appearance, advanced manufacturing process, small wheel pressure, stable operation, applicable to stepless speed regulation in complex environment and places with explosion hazards, accurate positioning, overload protection, air interruption protection, safe and reliable braking. It has incomparable advantages in electric driving:

- ▲ First, there is no electric spark, which completely solves the explosion-proof problem of lifting equipment.
- ▲ Second, the working system is 100%, which creates necessary conditions for high-efficiency continuous operation.
- ▲ Third, the operating speed can be adjusted according to the needs, and the stepless speed regulation is available.
- ▲ Fourth, the air hoist can resist acid, alkali, steam and high dust.
- ▲ Fifth, it is small, light and weighs only 1/3~1/8 of the electric hoist of the same specification.

Based on the above advantages, the pneumatic traveling crane can be widely used in petroleum, chemical industry, coal mine, textile, mechanical production, ship, ammunition and other fields.

Technical Parameter

Technical Parameters of Single-beam Traveling Crane												
Capacity (t)	0.1	0.2	0.5	1	1.5	2	2.5	3	5	6	8	10
Hook (m/min)	Up	6	3	5.4	4	3.3	2	1.5	1.4	0.75	0.7	0.4
	Down	8	4	10	7	6	3.5	3	3	1.5	1.4	1
Trolley (m/min)	10-13						10-13			8-10		
Crane (m/min)	16-20						14-18			10-14		

Technical Parameters of Double-beam Traveling Crane				
Capacity (t)	6+6 (12t)	10+10 (20t)	25+25 (50t)	30+30 (60t)
Hook (m/min)	Up	1	0.8	0.36
	Down	1.3	1.25	0.41
Trolley (m/min)	8	3	2.8	2.5
Crane (m/min)	10	8	6.5	6



Explosion-proof Special Battery Monorail Crane

Product Introduction

Explosion-proof special intelligent storage battery monorail crane is an underground auxiliary transportation equipment of coal mine driven by electric drive motor with storage battery as power source. Its operation track adopts German industrial standard I140E or I140V track, which is an underground auxiliary transportation equipment system with low investment, convenient maintenance, multifunction and high efficiency.

The basic configuration of locomotive is composed of four parts: driver's cab, driving part, electric-hydraulic control car and battery car.

1. The driver's cab is located at the front and rear ends of the locomotive, with starting control switch, control lever, instrument, etc.
2. The drive part is composed of frame body, reducer, special explosion-proof motor, drive clamping cylinder and brake.
3. Electric-hydraulic control vehicle is the main core component of electric traction monorail crane, which is mainly composed of explosion-proof electric cabinet and hydraulic station. Explosion-proof electric control system is used to complete variable frequency drive of traction motor, variable frequency drive of oil pump motor of hydraulic station, detection of locomotive, processing of control signal and sending of command task. The task of the hydraulic station is to provide hydraulic power source for the driving clamp, brake and lifting beam of the locomotive.
4. The storage battery is lead-acid storage battery, which can drive the locomotive for about 20km after charging once.



Technical Parameter

Parameters of DX Series Explosion-proof Special Smart Battery Monorail Crane				
Model	DX40、DX60、DX80、 DX100、 DX120		Drive Motor Parameters	
Radius of Turning	horizontal turning radius	4m	Motor Power	6kW
	vertical turning radius	10m	Output Torque	46. 7Nm
Maximum Operating Speed		1.6 m/s	Brake Cylinder Pressure	6-15MPa
Ability to Climb		≤±12°	Pressure of Clamping	6-12MPa
Traction Force		40kN-120kN		
Total Power		33kW-81kW		
Offset Angle of Horizontal Track		±1°		
Deviation Angle of Vertical Track from Horizontal Position		±3. 5°		
Running Track		I140E、 I140V		
Operating Temperature Range		-20℃-40℃		
Working Height Range		<1km		
Relative Humidity		≤98%		
Methane Concentration		≤1. 5%		

Comparison Table of Crane Selection Gradient

MODEL \ GRADIENT	≤7°	8°	9°	10°	11°	12°	13°	14°	15°	16°
DX40	14. 5	12	9	8	6. 5	5	4	/	/	-
DL40	14. 5	12	9	8	6. 5	5	4	/	/	-
DX60	27	23	20	17	15	13	11	10	8. 5	7
DL60	27	23	20	17	15	13	11	10	8. 5	7
DX80	30	30	30	26. 5	23. 5	21	18. 5	17	15	13
DX100	30	30	30	29	27. 5	24	24	18	16	14
DX120	30	30	30	30	30	30	29	26	23	21



Pneumatic belt style saw

Product Introduction

Overview

Pneumatic belt style saw is a portable pneumatic tool that uses compressed air as a power source to drive a ring saw blade to run continuously at high speed on two or more drive wheels, so as to cut metal, plastic, wood and other materials, which is used in oil and gas, petrochemical, ship building and maintenance, mining and other related fields.

Safe explosion-proof: The greatest advantage for hazardous environments.

Light weight and Flexible: Easy to move, suitable for on-site maintenance, aerial work, and space-constrained areas.

No risk of overheating: The pneumatic motor relies on airflow cooling, and it is not easy to overheat after working continuously for a long time.

Relatively simple maintenance: Construction is generally simpler than power tools and less expensive to maintain.

Resistant to harsh environments: Insensitive to water and dust.

High cutting efficiency (specific scenarios): High efficiency and flat cuts when cutting tubes, profiles (especially round and square pipes).

Technical Parameter

Model		JQD-13				JQD-16		
Basic performance		unit	Basic performance parameters			Basic performance parameters		
Work pressure		MPa	0.4	0.5	0.63	0.4	0.5	0.63
No-load speed		r/min	4000	5000	6000	4000	5000	6000
Air consumption		m ³ /min	1.3	1.6	2	1.3	1.6	2
Noise	SPL	dB (A)	95			95		
	Sound power level	dB (A)	112			112		
Weight of machine		kg	16			16		
Cutting speed		mm/min	40	45	50	40	45	50
Effective cutting width		mm	120			180		
Effective cutting depth		mm	120			200		
Dimensions (length x width x height)		mm	530×230×250 (±20)			730×230×250 (±20)		
Flush water pressure		MPa	0.6~1.2			0.6~1.2		
Water Shut-off Protection Device		-	When the flushing water pressure reaches 1.2MPa, the inlet valve of the double water shut-off protection device opens and the saw starts; when the flushing water pressure drops to 1.0MPa, the inlet valve of the double water cut-off protection device closes and the saw stops working.					



Pneumatic rail drill

Product Introduction

Overview

A pneumatic rail drill is a portable pneumatic tool specifically designed for drilling holes on steel rails. It utilizes compressed air to drive and provides powerful thrust and rotational torque through the feed system, allowing the drill bit to penetrate tough rail materials. It is used in oil and gas, petrochemical, ship building and maintenance, mining and other related fields.

Safe and explosion-proof: No electric spark generation, it is an absolutely safe choice for flammable and explosive environments.

Powerful Power and Torque: The rail material is extremely hard, and the pneumatic rail drill is designed with a high-power pneumatic motor and an efficient reduction gearbox to provide the high torque and sustained cutting force required to overcome ultra-hard materials.

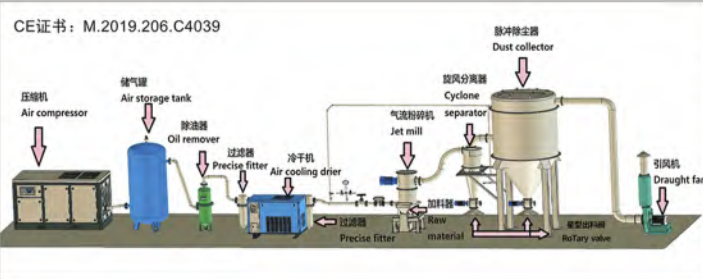
High precision and stability: Equipped with a sturdy guide frame to ensure that the drill bit is perpendicular to the surface of the rail when drilling, positioning accurately and preventing deviation.

Portability and adaptability: Compact design and relatively reasonable weight, easy to carry and operate.

Technical Parameter

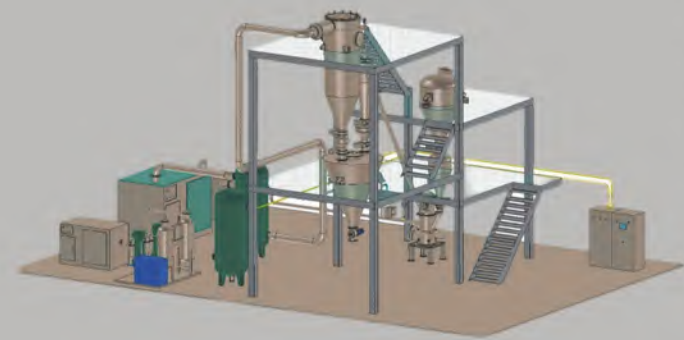
Project		Unit	Basic Performance Parameters		
Model		/	ZGQ-70/0.36		
Work pressure		MPa	0.4	0.5	0.63
Rated torque		N.m	60	70	80
Rated speed		r/min	40	50	60
Maximum output power		Kw	0.25	0.36	0.5
Air consumption		m³/min	1	1.2	1.5
No-load speed		r/min	110	130	140
1/2 stroke no-load speed		r/min	55	65	70
torque at 1/2 stroke no-load		N.m	40	50	60
Maximum load torque		N.m	70	90	105
Start torque		N.m	80	100	120
Stall torque		N.m	90	110	130
Noises	Sound power level	db (A)	120		
	SPL	Db (A)	110		
Drilling speed		Mm/min	25		
Drilling diameter		mm	24		
Weight of machine		kg	8		
Dimensions		mm	620x330x420		

AIRFLOW PULVERIZING EQUIPMENT SYSTEM



Flowchart

INTELLIGENT EXPLOSION-PROOF AIRFLOW GRINDING SYSTEM



Flowchart

WFJ NEW SUPER-MICRO CRUSHER



Flowchart

PRODUCT INFORMATION

Features

- 1. No temperature rise: Materials are pulverized under gas expansion conditions, and the pulverizing chamber temperature is controlled below room temperature, allowing for long-term operation without temperature increase.
- 2. No pollution: Because the material is pulverized through self-collision under the influence of airflow, no medium is introduced, preventing pollution during the pulverization process and controlling factors such as iron content.
- 3. Low wear: Due to the pulverization effect being particle-to-particle collision, high-speed particles experience less collision with the cylinder wall, making it suitable for materials with high hardness.
- 4. For flammable, explosive, and easily oxidized materials, appropriate gas media can be used for closed-loop pulverization.

PRODUCT INFORMATION

Features

- 1. Suitable for grinding flammable, explosive, easily oxidized, or highly hygroscopic materials.
- 2. Nitrogen can be replaced with other gases depending on the material.
- 3. The system adopts an advanced touch screen and programmable PLC controller, achieving fully automatic control; oxygen content control is easy and simple
- 4. Nitrogen is recycled, resulting in minimal consumption. Purity error can be controlled within 1 PPM, and its content can be arbitrarily set.
- 5. Low wear; since the main grinding action is particle-to-particle collision, high-speed particles rarely collide with the wall surface.
- 6. Wide grinding range; arbitrarily selectable within the d97=2~15um range.

PRODUCT INFORMATION

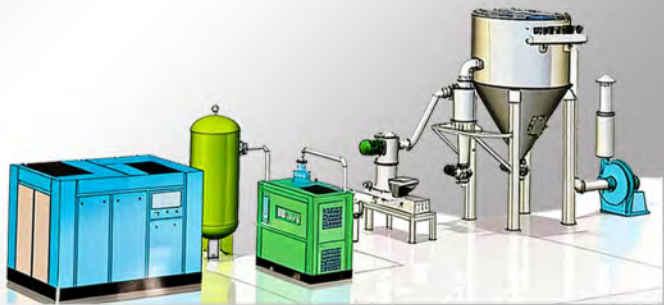
Features

- 1. Utilizing aerodynamic principles, the crushing chamber and grading chamber are cleverly combined, creating a differential change in the cross-section of the transition space. This causes the material to return to the crushing chamber at varying speeds, resulting in the material being individually crushed. The double-layer disc mill's crushing efficiency is 1.6 times higher than that of ordinary equipment. Therefore, it is advanced, technologically superior, and widely applicable.
- 2. The mill consists of a moving disc and a fixed disc. The moving disc is equipped with toothed bars or hammers, blades, etc. The material is crushed under the action of various forces such as repeated impact, friction, and shearing between the high-speed rotating moving disc and the fixed disc. The product that meets the particle size requirements enters the cyclone separator or dust collector for collection through the classifying wheel (or screen), while the coarse material is returned to the crushing zone for further crushing.

Airflow pulverizing equipment

Parameter

Model	QLF-120	QLF-200	QLF-300	QLF-400	QLF-600	QLF-800
Capacity (kg/h)	0.2~15	10~120	50~260	80~450	200~600	500~1500
Air Consumption (m³/min)	2	3	6	10	20	40
Working Pressure (mpa)	0.75~0.85	0.75~0.85	0.75~0.85	0.75~0.85	0.75~0.85	0.75~0.85
Feed particle size (mesh)	50~325	50~325	50~325	50~325	50~325	50~325
Grinding Size (μm)	0.5~30	0.5~30	0.5~30	0.5~30	0.5~30	0.5~30
Energy Consumption Power (kw)	20	40	60	95	188	376



Intelligent Explosion-Proof Airflow Grinding system

Parameter

Model	BFJ-200	BFJ-300	BFJ-400	BFJ-600	BFJ-800
Capacity (kg/h)	10~120	50~260	80~450	200~600	400~1500
Air Consumption (m³/min)	3	6	10	20	40
Feed particle size (mesh)	50~325	50~325	50~325	50~325	50~325
Grinding Size (μm)	0.5~30	0.5~30	0.5~30	0.5~30	0.5~30
Energy Consumption Power (kW)	32	52	85	145	296

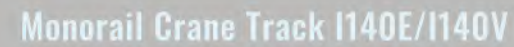
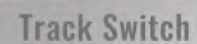
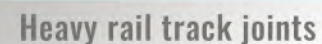
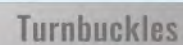
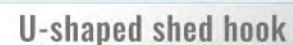
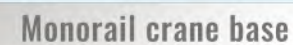
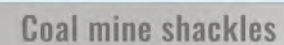


WFJ NEW SUPER-MICRO CRUSHER

Parameter

Model	WFJ-200	WFJ-300	WFJ-450	WFJ-520	WFJ-750	WFJ-1000
Feed particle size (mm)	<5	<10	<10	<10	<10	<10
Discharge particle size (mesh)	80~600	80~600	80~600	80~600	800~600	800~600
Capacity(kg/h)	5~20	10~100	50~250	80~500	300~1500	500~2500
Energy Consumption Power (kw)	12	18	34.5	45	52	107



 Product Introduction **Technical Parameter**

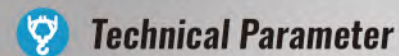
I. Overview

II. Component

1. **Air Motor**—The core power source, which uses compressed air to drive the gears or blades.
2. **Hook Assembly**—Includes the hook, chain/wire rope, and is equipped with overload protection and a self-locking device.
3. **Air System**—Comprising air pipes, filters, pressure regulators, and lubricators to ensure a clean and stable air supply.
4. **Housing and Bracket**—Constructed from rust-resistant materials, some models feature explosion-proof design.
5. **Remote Control System**—A wireless remote control or manual valve controls lifting and traveling. Featuring self-generation, self-storage, integrated control, and remote control capabilities.

III. Working Principle

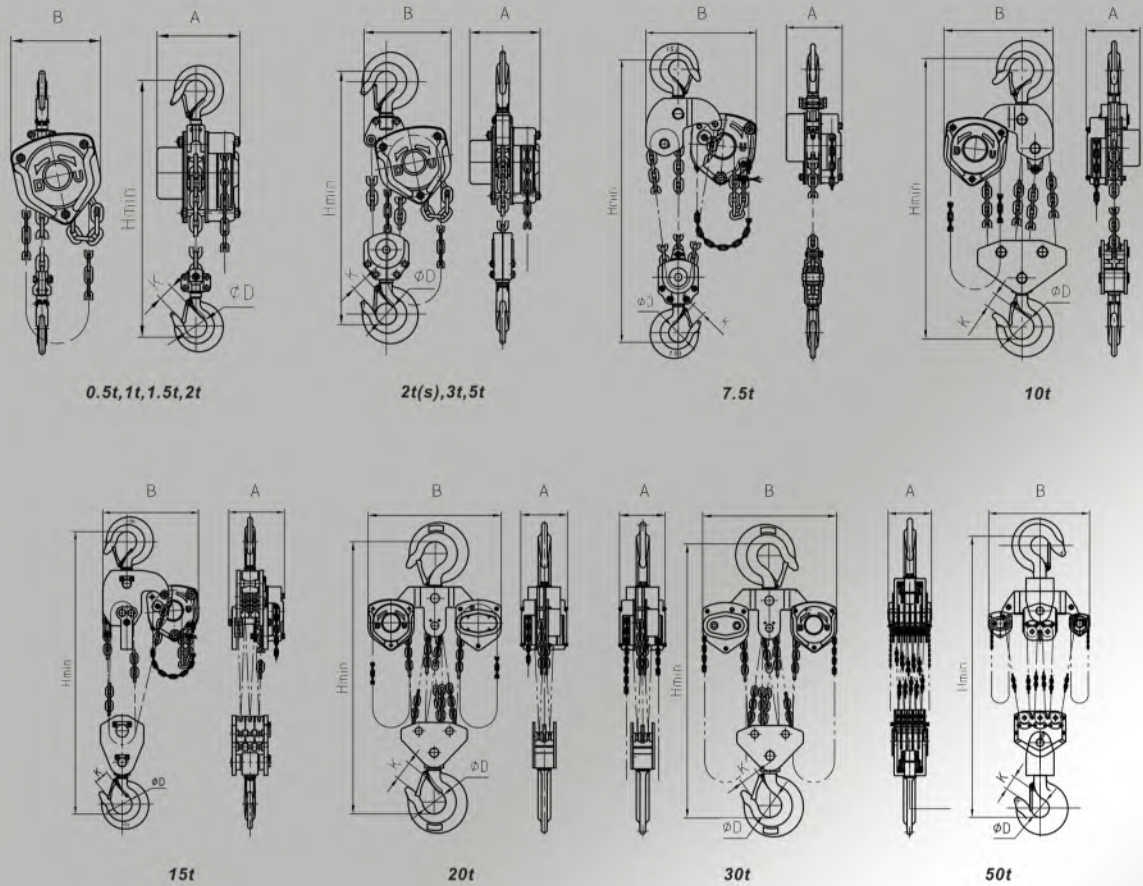
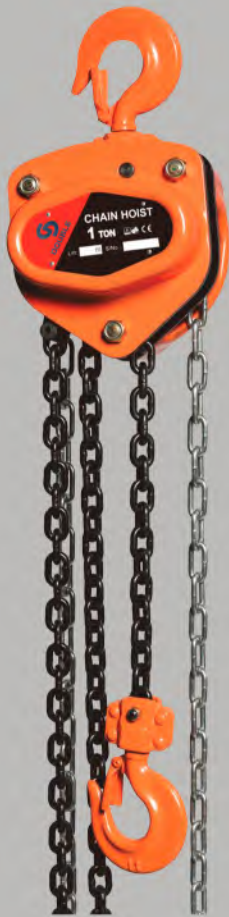
Purified compressed air drives the pneumatic motor, which, through a gear train, reduces speed and rotates the sprocket, raising and lowering the hook. The remote control device operates the hoist up, down, left, and right. Remote control range: ≥ 50 meters.



Model Items	HQ0.5	HQ1	HQ2	HQ3	HQ5	HQ10	HQ12	HQ15	HQ20	HQ25	HQ32	HQ40	HQ50	HQ80	HQ100
Lifting Capacity (Ton)	0.5	1	2	3	5	10	12	16	20	25	32	40	50	80	100
Rated Air Pressure	0.5														
Air Consumption (m/min)	9	5	2.5	2	1	0.6	0.5	0.35	0.6	0.5	0.4	0.3	0.25	0.2	0.2
Ascending Speed (m/min)	15	8	4	4	1.5	1.25	1.2	1.1	1.2	1.3	0.9	1	1	1	1
Descending Speed (m3/min)	1.2	1.4	1.4	1.8	2.5	3.4	3.5	3.8	4.7	4.7	4.7	5.5	5.5	8	8
Number of Chains	1	1.00	2	2	2	2	2	2	2/4	2/4	2/4	4	4	6/8	6/8
Lifting Range (m)	0-20														

CHAIN HOIST

Structural schematic diagram

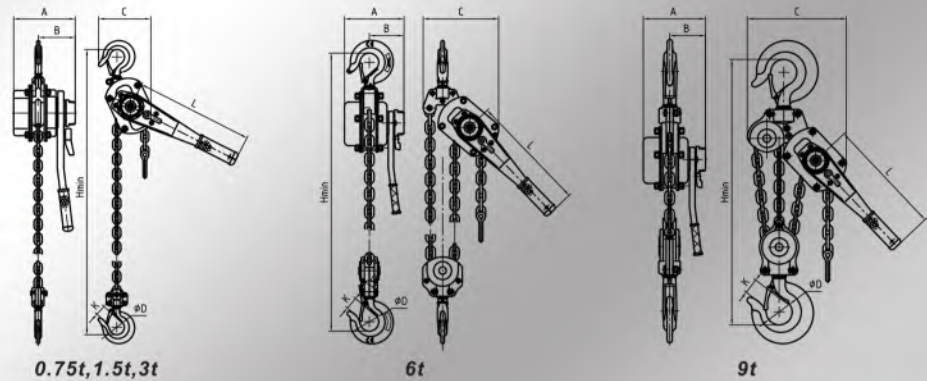


Technical Parameter

Model		Z005-A619	Z010-A619	Z015-A619	Z020-A619	Z020S-	Z030-A619	Z050-A619	Z100-A619	Z200-A619	Z300-A619	Z500-A619
Capacity	tons	0.5	1	1.5	2	25	3	5	10	20	30	50
Load Chain	mm	6×18	6×18	8×24	8×24	6×18	8×24	10×30	10×30	10×30	10×30	10×30
Hand Chain	mm	5×25										
Strands Of Load Chain		1	1	1	1	2	2	2	4	8	12	22
Strands Lift	m	2.5	2.5	2.5	3	3	3	3	3	3	3	3
Moving Distance Of Load Wheel With One Meter	m	33.3	41.5	55.6	72.6	83	111.2	163.4	326.8	326.8×2	490.2×2	898.7×2
Effort Required To Lift Rated Load	N	200	320	360	365	328	385	435	435	435×2	435×2	435×2
Running Test Load	KN	6.13	12.25	18.38	24.5	24.5	36.75	61.25	122.5	245	367.5	612.5
Dimensions (mm)	A	137.5	146.5	170	170	146.5	170	190.4	190	209	312	496
	B	137	162	183	194	189	220	288	384	625	691	958
	Hmin	270	340	399	414	440	512	636	743	890	1380	2578
	D	35	35.5	45	42.5	42.5	50	64	85	110	110	170
	K	28	26	32.5	32	32	37	46	50	81	81	125
Extra Weight Per Metre Of Extra Lift	kg	1.6	1.6	2.2	2.2	2.4	3.6	5.2	9.5	19	27.7	49.4
Net Weight	kg	8.7	10.8	15.2	18	14.6	24.3	38.7	78	163.6	220	1092

LEVER HOIST

Structural schematic diagram



Model		H0075-A622	H015-A622	H030-A622	H060-A622	H090-A622
Capacity	tons	0.75	1.5	3	6	9
Load Chain	mm	6×18	8×24	10×30	10×30	10×30
Strands Of Load Chain		1	1	1	2	3
Strands Lift	m	1.5	1.5	1.5	1.5	1.5
Load Chain Distance By Rotating The Hand Wheel One Circle	mm	19.8	21.3	16.8	8.4	5.6
Effort Required To Lift Rated Load	N	140	240	320	340	360
Running Test Load	KN	9.2	18.4	36.8	73.5	110.3
Dimensions (mm)	A	148	176	195	195	195
	B	88	102	109	109	109
	C	135	162	211	254	319
	D	37	45	50	64	85
	Hmin	320	380	480	620	700
	L	290	420	420	420	420
	K	26	32.5	37	46	50
Extra Weight Per Metre Of Extra Lift	kg	0.8	1.4	2.2	4.3	6.5
Net Weight	kg	6.3	11	18.7	30	41.2

Slings

Product Photo



Drum grab



Single-leg Sling



Hanging Sugarcane Chain

Portable Tneumatic Demolition Tool

Introduction

Portable handheld pneumatic demolition tools are suitable for various operations in coal mines, metallurgy, chemical plants, pipeline surveying, and other fields. They are used for cutting various metal components, especially in irregular or confined spaces; creating openings in brick or concrete walls; and for explosion-proof work in underground coal mines. They are characterized by simple and straightforward operation, small size, easy portability, and low price.

Technical Parameter

Performance parameters	unit	G2.7 type	G4.7type
Impact frequency	min/times	≥600	≥720
Impact energy	J	≥10	14.5
Cylinder diameter	mm	30	30
Gas consumption	L/S	≤18	≤19
Weight	KG	2.7	4.7
Noise	db (A)	100	100
External dimensions	mm	540×185×47	702×215×57
Cylinder volume	L	9	9



Pneumatic Diaphragm Pump

Introduction

Working principle: The pneumatic diaphragm pump utilizes the pressure difference in the air chamber to alternately generate suction liquid pressure and positive liquid pressure in the liquid chamber. Controlling the valve opening and closing ensures the positive flow of liquid. After air is introduced, the pump starts running and operates continuously to ensure that the required pressure remains constant. The pump will increase and maintain the pressure in the delivery pipe, and will stop working when the maximum delivery pipe pressure is reached (or the distribution valve is closed). Pumping will resume when needed.



Technical Parameter

Performance		BQG-350/0.2			BQG450/0.2		
Rated working air	MPa	0.4	0.5	0.63	0.4	0.5	0.63
Rated flow rate	L/min	300	350	400	400	450	500
Rated head	m	20	20	20	20	20	20
Rated gas consumption	m³/min	1.9	2.5	3.2	2.5	3.1	3.9
Noise	dB (A)	≤95					
Machine weight	Host	kg			50		
	Complete	kg			72		
External dimension	Host	mm			440×570×820 (±20)		
	Protective	mm			500×680×900 (±20)		
Inlet diameter	mm	19			19		
Outlet diameter	mm	83			83		

Pneumatic Anchor Rod Cutter

Introduction

The pneumatic anchor bolt cutter is an explosion-proof tool used in coal mines/tunnels. It uses compressed air as power and a pneumatic hydraulic pump to generate high-pressure oil, which drives the shearing head to quickly and cold-cut high-strength anchor bolts and anchor cables (steel strands). It is spark-free, safe and efficient, and replaces open flame gas cutting and manual sawing.

Technical Parameter

Basic performance		unit	HSMQS-22/400		
Complete machine	Rated pressure	MPa	60		
	Rated shear force	kN	400		
	Full-scale accuracy	—	±3%		
	Suitable for steel	mm	15.24-36		
Shears	Cylinder diameter	mm	80		
	Journey	mm	36		
	Shear diameter	mm	≥24		
	Machine weight	kg	10		
Hydraulic pump station	Size	mm	Φ115×363 (±10)		
	System rated	MPa	60		
	Working air	MPa	0.4	0.5	0.63
	Gas consumption	m³/min	1.5	1.9	2.3
	Effective fuel tank	L	7		
	System rated flow	L/min	1		
	Machine weight	kg	10		
	Size	mm	455×260×390 (±20)		

