

Product Catalogue

Grout Pump / Resin Pump / Injection Pump
Concrete Equipment / Mixer
Backfilling System



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ABOUT US

For nearly three decades, Oresome has remained steadfast in its mission to design and manufacture top-tier mining and construction equipment. With a strong emphasis on quality and reliability, our company has earned a reputation as a trusted source of high-performance machinery worldwide.

At Oresome, we take pride in our dedicated team of highly specialised experts, who excel in designing, manufacturing, servicing, and promoting cutting-edge mining pumps. These pumps, available in pneumatic, hydraulic, and electric variants, serve a wide range of applications, including backfilling, rock bolting, leak sealing, fire prevention, soft-soil reinforcement, rock consolidation, and hole sealing in a broad range of projects.

Our extensive client base spans the globe, with esteemed partners including Germany's Herrenknecht AG, China Railway Group Limited, and China Shenhua Energy Company Limited, among others. Their continued trust in our products and services underscores our commitment to excellence.

Beyond providing robust equipment, our ultimate objective is to offer complete solutions and services that empower our clients to achieve their goals with utmost efficiency. Oresome stands ready to meet the ever-evolving needs of the mining and construction industry, both at home and abroad, through innovation, quality, and unwavering dedication to customer satisfaction.

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PNEUMATIC PUMPS

Pneumatic Emulsion Prop Pump



Industry

Mining, tunnels, construction, and more..



Applications

Automatically mix the emulsion and water at the required ratio, then inject the mixture into the hydraulic prop.

Pneumatic Grout Pumps



Industry

Mining, railways, tunnels, water resources, construction, and more.



Applications

Rock bolting, leak sealing, fire prevention, soft soil reinforcement, rock consolidation, and hole sealing in grouting projects.

Pneumatic Drum Pump



Industry

Engineering, subway, tunnel, construction, and more.



Applications

Used in industries such as metallurgy, mining, coal, power, and chemicals for conveying or distributing high-viscosity fluids like grease, lubricants, and sealants using pneumatic drum pumps.

Pneumatic Emulsion Prop Pump

OVERVIEW

A dual-liquid design, super portable injection equipment suitable for injecting high-pressure liquid into hydraulic props and hydraulic supports.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.



TECHNICAL PARAMETERS

Item	Unit	2ZYBQ-7.5/20	2ZYBQ-1.5/32
Supply Air Pressure	MPa	0.2-0.7	
Liquid Outlet Pressure	MPa	0-20	0-32
Liquid Outlet Flow	L/min	0-12	0-8
Air Consumption	m ³ /min	≤3	
Weight	kg	24	
Dimensions (L×W×H)	mm	555 × 335 × 285	

KEY FEATURES

- The product has an automatic ratio function; there is no need to pre-mix the emulsion. The equipment can be connected directly to the underground water pipe, and the suction tube automatically draws the emulsion in a proportional ratio, with adjustable settings.
- The equipment is small and lightweight. It can be easily carried on the back for long distances by one person (with a backpack frame), significantly reducing labour intensity.
- It comes with overload protection, improving the safety factor of equipment operation.
- The product includes an air filter, an oil mist filter, an emulsion filter, and a water filter, thereby reducing maintenance requirements and increasing service life.
- It is powered by compressed air and, once connected, can be used for injection within a 200-meter range without needing to reconnect to the air supply.
- The injection pressure is continuously adjustable, allowing for easy operation and adaptation to various injection conditions.
- High working efficiency, capable of raising hydraulic props quickly.
- Broad application range, suitable for high-pressure water supply in the range of 0.5-10 MPa, and can also be used in a self-suction mode when there is no high-pressure water source.
- In situations where a small number of hydraulic props are to be injected at once, an emulsion oil tank can be installed. Emulsion oil can be added to the tank in advance.



Portable Pneumatic Grout Pump

OVERVIEW

Both single- and double-acting horizontal designs, super lightweight grout equipment, and easy to carry around on the worksite. Particularly well-suited for versatile, highly mobile grouting tasks, such as hole sealing.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.



KEY FEATURES

- Powered by compressed air, safe for use in flammable and explosive environments.
- Integrated design with an ultra-compact structure, easily carried on the back by a single person.
- Innovative directional control valve design for high efficiency and reliability.
- Single- or double-cylinder options are offered to meet various grouting needs.
- Continuous automatic adjustment without overpressure risk.
- An optional backpack frame for long-distance carrying significantly reduces labour intensity.
- Advanced noise-reduction device for ultra-low-noise operation.
- Suitable for spraying materials such as paint or retardant (requires optional spray gun, spray rod, anti-vibration device, and spray pipe).



*Spray Kit

TECHNICAL PARAMETERS

Item	Unit	ZBQ30/2	ZBQ16/4	ZBQ8/7
Supply Air Pressure	MPa	0.2-0.7		
Grouting Pressure	MPa	0-7	0-11	0-20
Grouting Flow	L/min	0-30	0-20	0-12
	m³/h	0-1.8	0-1.2	0-0.7
Air Consumption	m³/min	≤2		
Weight	kg	20	19	17.5
Dimensions (L×W×H)	mm	470x340x280		

Item	Unit	2ZBQ35/1	2ZBQ22/3	2ZBQ13/5	2ZBQ7/8
Supply Air Pressure	MPa	0.2-0.7			
Grouting Pressure	MPa	0-5.5	0-7.5	0-10	0-20
Grouting Flow	L/min	0-60	0-49	0-40	0-23
	m³/h	0-3.6	0-3.0	0-2.4	0-1.4
Air Consumption	m³/min	≤2			
Weight	kg	22	21	20	19
Dimensions (L×W×H)	mm	580x340x280			

Pneumatic Grout Pump (Ø250mm Air Cylinder)

OVERVIEW

Double cylinders single acting pneumatic grout pump series powered by compressed air.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.



KEY FEATURES

- Powered by compressed air, safe for use in flammable and explosive environments.
- Integrated design with a compact structure, small size, and lightweight for easy transportation.
- Continuous automatic adjustment without overpressure risk.
- Design with up-down suction and discharge for easy cleaning with no residue buildup.

TECHNICAL PARAMETERS

Item	Unit	2ZBQ60/2	2ZBQ30/4	2ZBQ18/6
Supply Air Pressure	MPa	0.2-0.7		
Grouting Pressure	MPa	0-4	0-7	0-10
Grouting Flow	L/min	0-140	0-88	0-62
	m³/h	0-8.4	0-5.3	0-3.7
Air Consumption	m³/min	≤2.5		
Weight	kg	91	88	85
Dimensions (L×W×H)	mm	475x595x1040		

Pneumatic Grout Pump (Ø320mm Air Cylinder)

OVERVIEW

Powered by compressed air, featuring a dual-plunger arrangement on both sides.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.



KEY FEATURES

- Powered by compressed air, safe for use in flammable and explosive environments.
- Compact structure, small size, lightweight for easy transportation.
- Continuous automatic adjustment without overpressure risk.
- Dual-plunger cylinder synchronised design for continuous grouting and precise 1:1 dual-liquid synchronised grouting.

TECHNICAL PARAMETERS

Item	Unit	2ZBQ95/1.5	2ZBQ30/6	2ZBQ16/10	2ZBQ10/16
Supply Air Pressure	MPa	0.2-0.7			
Grouting Pressure	MPa	0-4.5	0-10	0-16	0-25
Grouting Flow	L/min	0-160	0-105	0-85	0-65
	m³/h	0-9.6	0-6.3	0-5.1	0-3.9
Air Consumption	m³/min	≤3			
Weight	kg	146	138	135	132
Dimensions (L×W×H)	mm	1050x550x720			

Pneumatic Grout Pump (Synchronised Double Components)

OVERVIEW

Powered by compressed air and designed with the structure of dual-component cylinders arranged on the same side.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.



TECHNICAL PARAMETERS

Item	Unit	ZBQ60/1.5	ZBQ35/3	ZBQ16/8
Supply Air Pressure	MPa	0.2-0.7		
Grouting Pressure	MPa	0-6	0-11	0-20
Grouting Flow	L/min	0-105	0-60	0-35
	m³/h	0-6.3	0-3.6	0-2.1
Air Consumption	m³/min	≤2		
Weight	kg	88	85	80
Dimensions (L×W×H)	mm	1000x380x750		

KEY FEATURES

- Compressed air powered, ensuring safety in potentially explosive environments.
- Compact structure, small size, and lightweight, making it easy for transportation.
- Twin slurry cylinders are designed for synchronous operation, enabling 1:1 slurry-ratio grouting.
- Built-in slide valve with fully automatic pneumatic switching design, ensuring high switching efficiency and reliable performance.
- Slurry cylinders are available with stainless steel construction, and corrosion-resistant seals can be provided for chemical applications.
- Continuous automatic adjustment without overpressure risk.
- Optional frame design with wheels for easy mobility.

Pneumatic Grout Pump with Mixer

OVERVIEW

A vertical design, super compact grout equipment, united with a mixer. Especially suitable for versatile and highly mobile grouting tasks, such as hole sealing.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.

KEY FEATURES

- Powered by compressed air, safe for use in flammable and explosive environments.
- Vertical design with an ultra-compact structure, easily carried on the worksite.
- Built-in slide valve for fully automatic pneumatic switching, high switching efficiency, and advanced performance.
- Advanced grout piston design for high suction and discharge efficiency.
- Continuous automatic adjustment without overpressure risk.
- Options of custom pneumatic mixers for enhanced functionality and efficiency.



TECHNICAL PARAMETERS

Item	Unit	ZBQ25/5	ZBQ30/5
Supply Air Pressure	MPa	0.2-0.7	
Grouting Pressure	MPa	0-10	0-15
Grouting Flow	L/min	0-33	0-40
	m ³ /h	0-1.98	0-2.4
Air Consumption	m ³ /min	≤ 2	≤ 4
Weight	kg	78	85
Air Cylinder Diameter	mm	160	180
Dimensions (L×W×H)	mm	850x800x1300	850x800x1300

Ceramic Resin Pump

OVERVIEW

A high-pressure grout equipment powered by compressed air, specifically designed for chemical material injection. Ceramic cylinders deliver significantly longer service life than conventional resin pump cylinders.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.

KEY FEATURES

- Powered by compressed air, safe for use in flammable and explosive environments.
- Compact structure, small size, lightweight for easy transportation.
- Three grouting cylinders with synchronous design, capable of 1:1, 1:2, and 1:4 material ratios.
- Built-in slide valve for fully automatic pneumatic switching, high switching efficiency, and reliable performance.
- Constructed from stainless steel materials with corrosion-resistant seals, suitable for chemical materials.
- Continuous automatic adjustment without overpressure risk.



TECHNICAL PARAMETERS

Item	Unit	2ZBQ5/16	3ZBQ12/10
Number of Cylinders	/	2	3
Supply Air Pressure	MPa	0.2-0.7	0.2-0.7
Grouting Pressure	MPa	0-21	0-13
Grouting Flow	L/min	0-30	0-40
	m ³ /h	0-1.8	0-2.4
Material Ratios	/	1:1	1:1; 1:2; 1:4
Air Consumption	m ³ /min	≤4	≤4
Weight	kg	140	148
Dimensions (L×W×H)	mm	700x600x1400	700x600x1400

Pneumatic Drum Pump

OVERVIEW

A double-acting plunger pump with a vertical structure powered by compressed air.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines, metro systems, tunnelling, construction, and related industries.

APPLICATIONS

Designed for conveying and dispensing high-viscosity fluid media such as grease, lubricating oil, and sealants in metallurgical mining, coal mining, power generation, chemical processing, and other industrial sectors.

KEY FEATURES

- Powered by compressed air, it can be controlled by either air or electrical control to start and stop the equipment.
- The base is equipped with auxiliary rollers for easy loading.
- User-friendly design with simple and easy-to-learn operation.
- Multiple pneumatic motors are available, along with various boost ratios to adapt to different working conditions.



TECHNICAL PARAMETERS

Item	Unit	Parameters
Supply Air Pressure	MPa	0.2-0.8
Grouting Pressure	MPa	43
Maximum Reciprocating Speed	BPM	60
Flow Rate	L/min	6
Boost Ratio	/	54:1
Air Inlet Port Size	/	G1/2
Material Outlet Port Size	/	G1/2
Air Consumption	m ³ /min	≤ 3
Weight	kg	248
Air Cylinder Diameter	mm	180
Piston Stroke	mm	97
Dimensions (L×W×H)	mm	1010x670x1683~2775

HYDRAULIC PUMPS

Hydraulic Grout Pump



Industry

Used in industries such as mining, water management, railways, transportation, construction, and more.



Applications

Suitable for dual-liquid grouting projects such as rock bolting, leak prevention, fire prevention, soil reinforcement, rock consolidation, and hole sealing. Hydraulic grout pumps ranging from 7.5 kW to 320 kW are ideal for large-capacity, long-distance backfilling, leak prevention, fire prevention, and other dual-liquid grouting projects.

Viscous and Granular Slurry Hydraulic Grouting Pump



Industry

Mining, water resources, railways, transportation, construction, and more.



Applications

Rock bolting, leak sealing, fire prevention, soft soil reinforcement, rock consolidation, and hole sealing in grouting projects.

Hydraulic Grout Pump

OVERVIEW

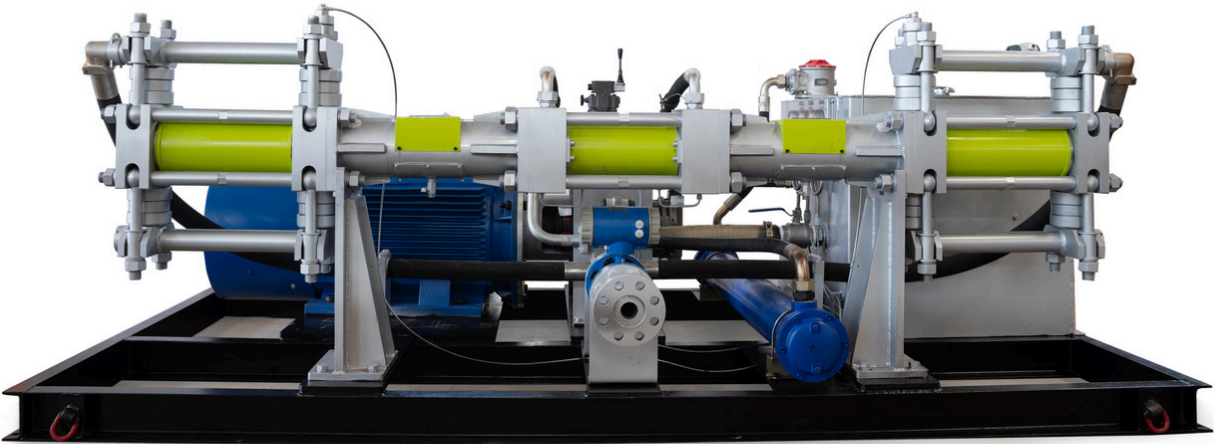
A double-cylinder, automatically variable grouting pump with an integral design

INDUSTRY

Primarily applicable to coal mining, water conservancy, railways, transportation infrastructure, construction, and related industries.

APPLICATIONS

Suitable for single-component and dual-component grouting operations, including long-distance backfilling, water sealing, leakage control, and fire prevention/fire extinguishment projects.



KEY FEATURES

- Flexible selection of various specifications.
- Synchronised double-cylinder dual-liquid grouting system, providing a 1:1 ratio for dual-liquid grouting.
- Fully hydraulic driven with automatic control of flow rates in response to changes in pressure.
- Unique grout cylinder sealing design for extended lifespan and easy replacement.
- Equipped with manual unloading, zero-load startup, and flexible start-stop functions.
- Upper and lower grout suction and discharge design for easy cleaning without residue buildups.
- Dual-pressure monitoring in both hydraulic and grouting systems for clear grouting conditions.
- Air-cooling and liquid-cooling options are offered.

TECHNICAL PARAMETERS

Product Model	Grouting Flow		Grouting Pressure
	L/min	m ³ /h	MPa
2ZBYSB(6.4~1.5)/(1~9)-7.5	0-107	0-6.4	0-9
2ZBYSB(3.5~0.9)/(1~15)-7.5	0-59	0-3.5	0-15
2ZBYSB(2.2~0.6)/(1~20)-7.5	0-37	0-2.2	0-20
Motor Rated Power	7.5kW	Machine Weight	360kg
Motor Rated Speed	1450r/min	Dimensions	1200x750x950mm

Product Model	Grouting Flow		Grouting Pressure
	L/min	m ³ /h	MPa
2ZBYSB(19.2~4.2)/(1~6)-18.5	0-320	0-19.2	0-6
2ZBYSB(13.2~3.3)/(1~10)-18.5	0-220	0-13.2	0-10
2ZBYSB(9.0~2.4)(1~18)-18.5	0-150	0-9.0	0-18
2ZBYSB(5.4~1.2)((1~29)-18.5	0-90	0-5.4	0-29
Motor Rated Power	18.5kW	Machine Weight	680kg
Motor Rated Speed	1470r/min	Dimensions	1850x850x980mm

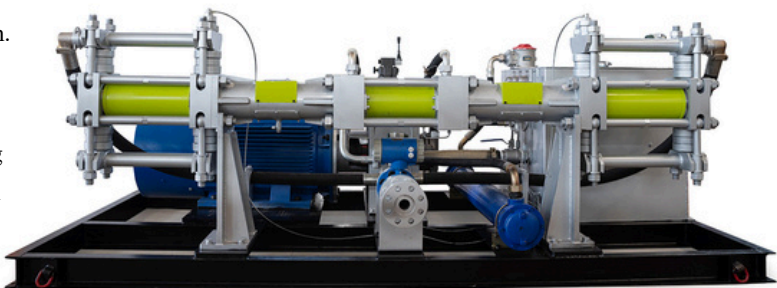
Product Model	Grouting Flow		Grouting Pressure
	L/min	m ³ /h	MPa
2ZBYSB(25.8~5.4)/(1~6)-37	0-430	0-25.8	0-6
2ZBYSB(17.7~4.5)/(1~11)-37	0-295	0-17.7	0-11
2ZBYSB(13.5~3.2)/(1~18)-37	0-225	0-13.5	0-18
2ZBYSB(6.6~1.8)/(1~28)-37	0-110	0-6.6	0-28
2ZBYSB(4.8~1.1)/(1~46)-37	0-80	0-4.8	0-46
Motor Rated Power	37kW	Machine Weight	900kg
Motor Rated Speed	1480r/min	Dimensions	2000x800x1300mm

Product Model	Grouting Flow		Grouting Pressure
	L/min	m ³ /h	MPa
2ZBYSB(46.8~12.0)/(1~10)-75	0-780	0-46.8	0-10
2ZBYSB(28.8~8.2)/(1~16)-75	0-480	0-28.8	0-16
Motor Rated Power	75kW	Machine Weight	2100kg
Motor Rated Speed	1480r/min	Dimensions	2700x1250x1450mm

Containerised Intelligent Backfilling System

OVERVIEW

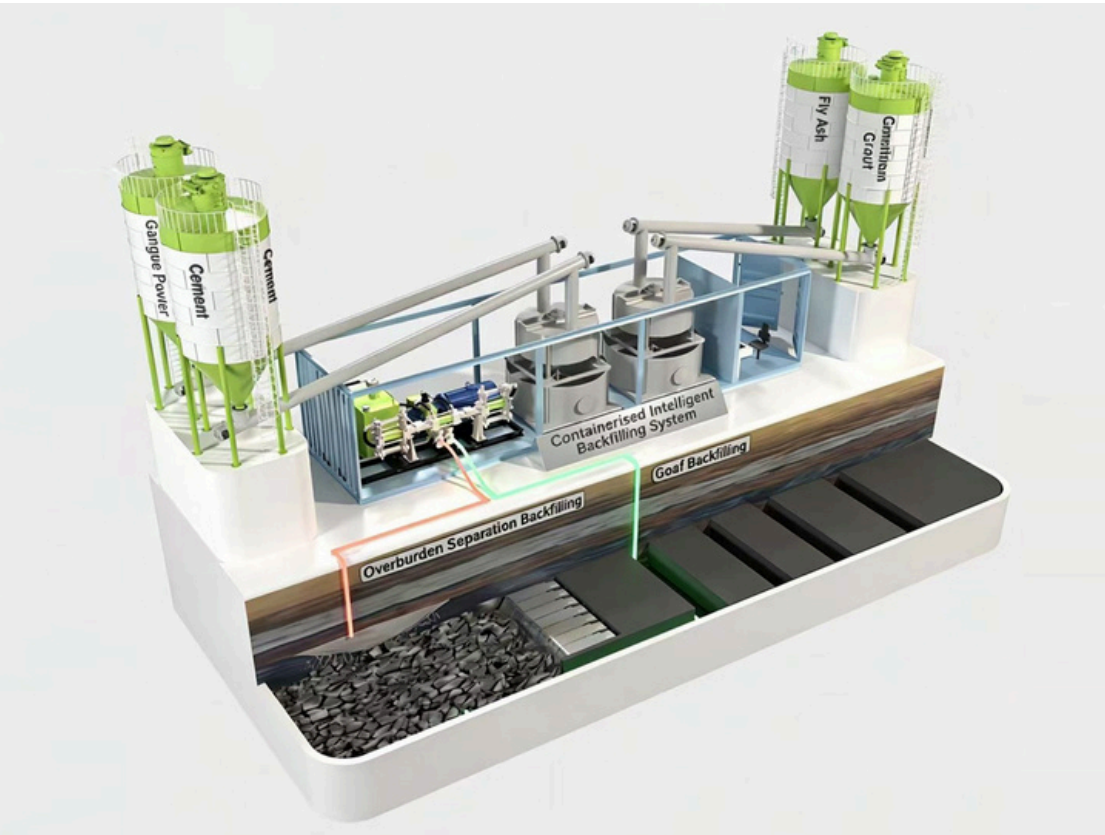
A modular, rapidly deployable, and highly automated backfilling material preparation and conveying system. Its core concept is to integrate all key equipment traditionally fixed within a plant—such as mixers, pumping systems, control centres, and additive dosing systems—into one or more standardised containerised modules. Combining IoT, automated control, and big data technologies, the system enables intelligent management of the entire backfilling process.



MAIN APPLICATIONS

A modular backfilling solution designed for slurry preparation, mixing, storage and long-distance pumping in underground mining operations. Typical applications include:

- Underground mine backfilling and void filling
- Goaf backfilling and ground stabilisation
- Long-distance slurry conveying to underground workings
- Grouting and ground reinforcement in mines and tunnels
- Water sealing and leakage control
- Other specialised backfilling and grouting applications



KEY FEATURES

- Containerised modular design with compact structure, rapid installation and dismantling, convenient relocation and transportation, and improved operational efficiency. Other structural configurations can also be customised according to project and operational requirements.
- Integrates intelligent automatic slurry mixing, slurry storage, and grouting functions into one system.
- Fast slurry preparation speed; supports sequential feeding of multiple powder materials, automatic arch-breaking in silos, and automatic switching during material shortage. High-speed vortex flow combined with forced mixing ensures complete slurry homogenization immediately after feeding is completed.
- The core equipment uses our newly developed fully hydraulic-controlled backfilling pump, featuring low noise, long service life, a compact structure, and convenient maintenance. It is capable of ultra-long-distance conveying, ultra-high-pressure operation, and large-capacity backfilling and grouting applications.

TECHNICAL PARAMETERS

Product Model	Grouting Flow Rate (m³/h)	Grouting Pressure (MPa)	Rated Power (kW)	Weight (kg)	Dimensions (mm) (±50)
2ZBYSB(38.8~9.0)/(1~10)-55	0~39.6	0~11	55	1904	2700×1408×1234
2ZBYSB(18.0~5.4)/(5~15)-55	0~21.6	0~18	55	1904	2700×1408×1234
2ZBYSB(14.5~3.6)/(1~25)-55	0~15	0~28	55	1904	2700×1408×1234
2ZBYSB(10.2~1.5)/(1~30)-55	0~10.5	0~35	55	1904	2700×1408×1234
2ZBYSB(46.8~12.0)/(1~10)-75	0~48	0~11	75	2300	3102×1433×1235
2ZBYSB(28.8~8.2)/(1~16)-75	0~30	0~18	75	2300	3102×1433×1235
2ZBYSB(23~3.5)/(1~28)-75	0~24	0~30	75	2300	3102×1433×1235
2ZBYSB(58.6~17.6)/(1~11)-90	0~60	0~12	90	2600	3200×1500×1300
2ZBYSB(41.8~12.9)/(1~15)-90	0~45	0~18	90	2600	3200×1500×1300
2ZBYSB(24.5~7.7)/(1~25)-90	0~26	0~28	90	2600	3200×1500×1300
2ZBYSB(105.0~30.0)/(1~7)-110	0~106	0~8	110	2900	3400×1750×1400
2ZBYSB(67.1~21.6)/(1~11)-110	0~69	0~13	110	2900	3400×1750×1400
2ZBYSB(47.9~15.8)/(1~15)-110	0~50	0~18	110	2900	3400×1750×1400
2ZBYSB(28.1~9.5)/(1~25)-110	0~30	0~28	110	2900	3400×1750×1400
2ZBYSB(110.0~20.0)/(1~9)-160	0~114	0~12	160	3200	3540×1810×1452
2ZBYSB(53.0~14.0)/(1~19)-160	0~56	0~21	160	3200	3540×1810×1452
2ZBYSB(34.0~8.0)/(1~28)-160	0~36	0~30	160	3200	3540×1810×1452
2ZBYSB(220.0~20.0)/(1~9)-320	0~228	0~12	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500
2ZBYSB(106.0~14.0)/(1~19)-320	0~112	0~21	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500
2ZBYSB(68.0~8.0)/(1~28)-320	0~72	0~30	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500

Crawler Grout Pump

OVERVIEW

Dual-cylinder, automatic variable displacement grouting pump with an integrated compact design.

APPLICATIONS

Suitable for single-component and dual-component grouting operations, including long-distance backfilling, water sealing, leakage control, and fire prevention/fire extinguishment projects.

KEY FEATURES

- Fully hydraulic control system requiring only electrical power supply during operation, offering simplified maintenance and a low failure rate.
- Equipped with a proprietary hydraulic pilot remote-control system, allowing operators to maintain a safe distance from the crawler during operation, improving visibility and safety.
- Excellent maneuverability, enabling remote forward/reverse travel, zero-radius steering, and high/low speed switching.
- The hydraulic system adopts LUDV (Load-Independent Flow Distribution) technology, effectively preventing track deviation caused by uneven load distribution.
- Spring-applied, hydraulic-release wet braking system provides outstanding braking performance and operational safety.
- The grouting unit utilises a full-hydraulic reversing mechanism, immersed piston rods, and dual metallic grout cylinders, delivering:
 - Low reversing noise
 - Extended service life
 - Stepless adjustment of grouting output
- Features a newly designed inlet and discharge valve arrangement for rapid disassembly and maintenance.
- Multiple model configurations are available to accommodate a wide range of operating conditions and project requirements.



TECHNICAL PARAMETERS

Item		Unit	2ZBYSB(110.0~20.0)/ (1~9)-160L	2ZBYSB(53.0~14.0)/ (1~19)-160L	2ZBYSB(47.9~15.8)/ (1~15)-110L	2ZBYSB(28.1~9.5)/ (1~25)-110L
Grouting Flow Rate		m³/h	0-114	0-56	0-50	0-30
Grouting Pressure		MPa	0-12	0-21	0-18	0-28
Weight		kg	4500		4000	
Dimensions		mm	3500x1750x2050 (±50)		3500x1750x2050 (±50)	
Travel System	Travel Speed	m/min	12		12	
	Gradeability	°	20		20	
	Ground Clearance	mm	170		170	
	Minimum Turning Radius	mm	1800		1800	
Hydraulic Power Unit (Grouting)		kW	160		110	
Hydraulic Power Unit (Travel)		kW	7.5		7.5	

Item		Unit	2ZBYSB(41.8~12.9)/ (1~15)-90L	2ZBYSB(24.5~7.7)/ (1~25)-90L	2ZBYSB(28.8~8.2)/ (1~16)-75L	2ZBYSB(23.0~3.5)/ (1~28)-75L
Grouting Flow Rate		m³/h	0-45	0-26	0-30	0-25
Grouting Pressure		MPa	0-18	0-28	0-18	0-30
Weight		kg	3700		3500	
Dimensions		mm	3200x1500x2000 (±50)		3100x1400x2000 (±50)	
Travel System	Travel Speed	m/min	12		12	
	Gradeability	°	20		20	
	Ground Clearance	mm	170		170	
	Minimum Turning Radius	mm	1800		1800	
Hydraulic Power Unit (Grouting)		kW	90		75	
Hydraulic Power Unit (Travel)		kW	7.5		7.5	

Item		Unit	2ZBYSB(18.0~5.4)/ (5~15)-55L	2ZBYSB(18.5~3.6)/ (1~24)-55L	2ZBYSB(13.5~3.2)/ (1~18)-37L	2ZBYSB(12.2~1.2)/ (1~26)-37L
Grouting Flow Rate		m³/h	0-24	0-18.8	0-14.5	0-13
Grouting Pressure		MPa	0-18	0-28	0-20	0-30
Weight		kg	3200		2300	
Dimensions		mm	3000x1400x2000 (±50)		2400x1140x1725 (±50)	
Travel System	Travel Speed	m/min	12		12	
	Gradeability	°	20		20	
	Ground Clearance	mm	170		170	
	Minimum Turning Radius	mm	1800		1800	
Hydraulic Power Unit (Grouting)		kW	55		37	
Hydraulic Power Unit (Travel)		kW	7.5		7.5	

Item		Unit	2ZBYSB(8.5~2.2)/(1~13)-22L	2ZBYSB(6.2~1.6)/(1~26)-22L
Grouting Flow Rate		m³/h	0-9	0-7
Grouting Pressure		MPa	0-15	0-32
Weight		kg	1900	
Dimensions		mm	2100x1140x1725 (±50)	
Travel System	Travel Speed	m/min	12	
	Gradeability	°	20	
	Ground Clearance	mm	170	
	Minimum Turning Radius	mm	1400	
Rated Power		kW	22	

Crawler Flatbed Carrier

OVERVIEW

This Crawler Flatbed Carrier is designed for transporting materials under harsh road and ground conditions. It can also be used as a mobile platform for various types of equipment.

INDUSTRY

Mining, railway construction, tunnelling, water conservancy, and construction projects.

APPLICATIONS

Primarily used for transporting materials and equipment in challenging ground conditions.

KEY FEATURES

Fully Hydraulic Drive System

Operates with electrical power supplied only to the motor, offering simple maintenance and a low failure rate.

Hydraulic Pilot Remote Control System

The proprietary hydraulic pilot remote-control system allows operators to maintain a safe distance from the vehicle during operation, improving visibility and safety.

Excellent Maneuverability

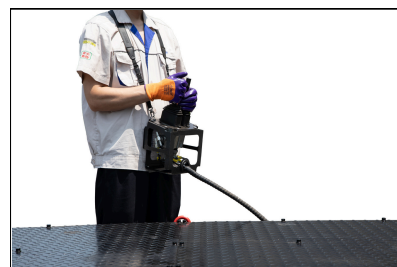
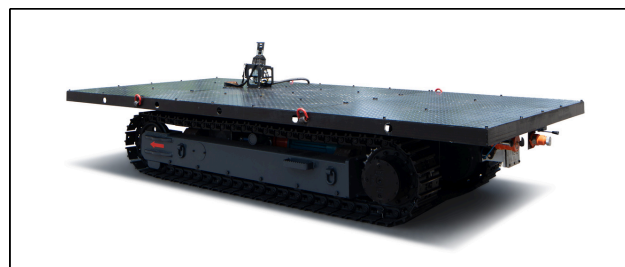
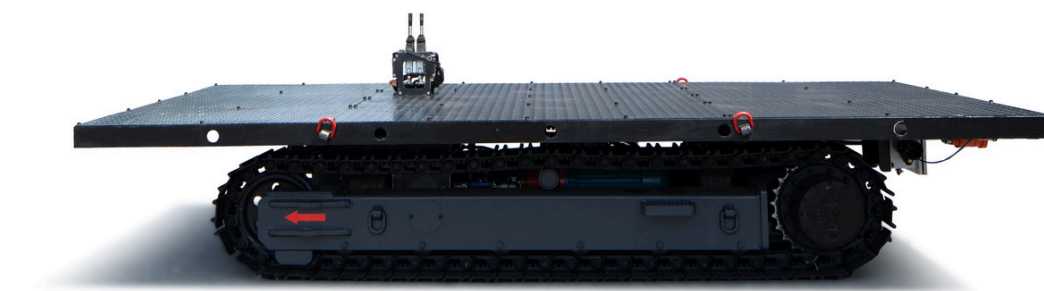
Supports remote-controlled forward and reverse travel, on-the-spot steering, and high- and low-speed switching.

LUDV Hydraulic Control System

Equipped with a Load-Independent Flow Distribution (LUDV) hydraulic system, effectively preventing vehicle deviation caused by uneven load distribution.

Wet Braking System

Features a spring-applied, hydraulic-release wet braking system, delivering outstanding braking performance and operational safety.



Remote-Control Concrete Mixing & Pumping Crawler

OVERVIEW

A remote-control concrete equipment that integrates concrete mixing and pumping functions into a single unit.

INDUSTRY

Coal mining, railways, tunnels, water conservancy, construction, etc.

APPLICATIONS

Primarily used for concrete mixing and pumping under special working conditions.

KEY FEATURES

- Driving and operation are fully realised via wireless remote control, allowing operators to maintain a safe distance from the equipment during travel or operation, thereby improving visibility and safety.
- Strong controllability enables remote forward and reverse travel, a U-turn on the spot, and high- and low-speed switching.
- The travelling system employs an LUDV control system, effectively preventing creeping due to uneven load distribution.
- Spring brake and hydraulic release are applied for wet braking, providing excellent braking performance and safety.
- Integrates concrete mixing and pumping into one unit, featuring fast mixing speed, long pumping distance, and reduced labour intensity.



TECHNICAL PARAMETERS

Item	Unit	HBML10/5-37SYJ
Rated Power	kW	37
Flow Rate	m ³ /h	10
Mixing Hopper Volume	L	300
Mixing Time	s	≤35
Max. Travel Speed	km/h	2.5
Max. Climbing Angle	°	±20
Max. Aggregate Size	mm	Cobble Stone ≤30 / Clastic Rock ≤20
Max. Concrete Pumping Distance	m	Vertical 60 / Horizontal 200
Dimensions (L×W×H)	mm	4530 × 1600 × 1490 (±50)

Mining Concrete Pump

OVERVIEW

A concrete pumping device that continuously delivers concrete through pipelines to the pouring worksite.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.

KEY FEATURES

- Integrated design with compact structure and light weight; can be manually moved, making relocation, transport, and underground installation convenient.
- Fully hydraulic control. Pumping and main directional valve switching, as well as forward/reverse pumping functions, are all controlled by the hydraulic system. No electrical control components are used except the start button, resulting in a low failure rate and easy maintenance.
- Equipped with automatic pressure relief protection, eliminating overload risks.
- Modular hydraulic system design; in the event of a failure, hydraulic components can be replaced individually, reducing maintenance time and cost.
- Large conveying capacity: up to 7 m³ of concrete per hour.
- Capable of local unloading, supports forward and reverse pumping, and flexible start/stop at any time.

TECHNICAL PARAMETERS

Item	Unit	HBMT7/5-15S
Flow Rate	m³/h	7
Max. Concrete Pumping Distance	m	Vertical 60 / Horizontal 200
Max. Outlet Pressure	MPa	5
Max. Aggregate Particle Size	mm	Cobble Stone ≤30 / Clastic Rock ≤20
Loading Height	mm	680
Weight	kg	820
Dimensions (L×W×H)	mm	2027 × 850 × 1238 (±50)
Rated Power	kW	15



Mining Concrete Mixer

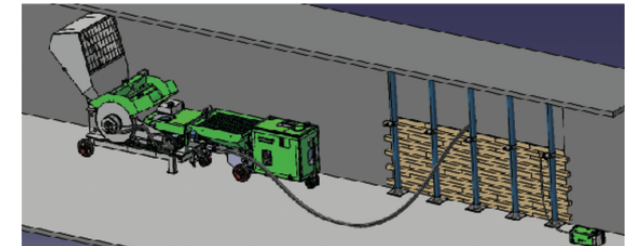
OVERVIEW

Suitable for mixing concrete, mortar, and other bonding materials. Also suitable for premixing dry materials (such as shotcrete materials).

INDUSTRY

Suitable for underground coal mines and other environments containing explosive gases.

SYSTEM LAYOUT DIAGRAM



KEY FEATURES

- Integrates hydraulic feeding, mixing, and discharge functions; easy to operate and low labour intensity.
- Automatically reduces mixing speed during discharge to prevent segregation or incomplete discharge.
- Fully hydraulic control system; no electrical or electronic control components, significantly improving safety and reducing maintenance complexity.
- Uses a new generation of high-efficiency mixing blades, providing high mixing speed and excellent mixing uniformity.
- Equipped with lifting and travelling mechanisms, it can be manually moved along underground rail tracks, making it suitable for short-distance relocation.

TECHNICAL PARAMETERS

Item	Unit	JDY-300T
Capacity	L	300
Rated Power	kW	18.5
Max. Aggregate Size	mm	40
Mixing Time	s	≤35
Loading Height	mm	550
Unloading Height	mm	1010
Weight	kg	2300
Dimensions (L×W×H)	mm	3890 × 1535 × 1495
Noise Power Level	dB(A)	≤106



Pneumatic Mixer

OVERVIEW

The pneumatic mixer series is driven by compressed air. It is designed to thoroughly mix and blend grouting (backfilling) materials, such as cement with water, creating a uniform slurry. Then the slurry can be supplied to various grouting pumps for grouting or backfilling operations.

INDUSTRY

Suitable for environments containing explosive gases, such as underground coal mines.

KEY FEATURES

- Powered by compressed air, making it safe for use in special environments such as flammable or explosive environments.
- Equipped with a pneumatic motor, providing strong agitation, high speed, and efficient mixing.
- Robust materials ensure a long service life.



TECHNICAL PARAMETERS

Item	Unit	JQW-250S	JQW-120S	JQW-80S
Mixing Capacity	L	250	120	80
Material Filling Height	mm	950	550	500
Air Supply Pressure	MPa	0.2-0.7		
Weight	kg	145	36	32
Dimensions (L×W×H)	mm	1160x700x1250	700x620x700	600x500x700

Electric Mixer

OVERVIEW

The cement slurry mixer series is electric-powered. It is designed to thoroughly mix and blend grouting (backfilling) materials, such as cement with water, creating a uniform slurry. Then the slurry can be supplied to various grouting pumps for grouting or backfilling operations.

INDUSTRY

Coal mining, railways, tunnels, water conservancy, construction, etc.

KEY FEATURES

- High-power configuration for safe and reliable use.
- Strong agitation, high speed, and efficient mixing.
- Robust materials ensure a long service life.
- Can be equipped with an automatic water addition system to reduce labour intensity.



TECHNICAL PARAMETERS

Item		Unit	JDW-1500S	JDW-1000S	JDW-500S	JDW-300S
Mixing Capacity		L	1500	1000	500	300
Material Filling Height		mm	1450	1425	980	850
Motor	Rated Power	kW	7.5	4	3	2.2
	Rated Speed	r/min	1450	1430	1420	940
Weight		kg	860	720	320	250
Dimensions (L×W×H)		mm	2170x1420x1910	1900x1200x1800	1400x900x1600	1300x800x1400

Intelligent Retarding Agent Spraying System

OVERVIEW

This system is a network-based intelligent control system for underground retarding agent spraying. It enables automatic feeding, proportioning, and spraying.

The system collects real-time data such as flow rate, pressure, and operating status, and allows remote command transmission and data processing through computer terminals, mobile apps, including fault alarms, pressure display, and system start/stop control.

KEY FEATURES

• High-Performance Retarding Agent Pump

The system employs a retarding agent pump with features such as low noise, compact size, long service life, and simple maintenance. Multiple power options are available, with a maximum power of up to 160 kW, meeting various underground working conditions. Pump pressure and flow rate can be infinitely adjusted.

• Hydraulic-Driven Feeding System

The feeding device is hydraulically driven, with a retarding agent storage capacity of approximately 1 ton (customizable according to customer requirements). It is equipped with a weighing system for automatic, quantitative feeding, including a material-shortage alarm and an automatic reverse function in the event of a blockage.

• Large-Capacity Mixing Tank

Mixing tank capacity: 6 m³. Equipped with an automatic hydraulic mixing system, a weighing system, and a water metering system. The system automatically adjusts water addition based on preset parameters. Features include corrosion resistance, uniform mixing, and high proportioning accuracy.

• Adaptive Flow Regulation

The system automatically adjusts the flow rate according to the number of active spray nozzles.

-Fewer nozzles → reduced output flow

-More nozzles → increased output flow

This ensures constant pressure operation and stable spraying performance.

• Intelligent Remote Control

The system supports command transmission and data acquisition via a computer and a mobile app. Functions include fault alarms, pressure display, and remote start/stop control.

• Multiple Spraying Modes Available

Optional spraying configurations include:

-Fixed spray nozzles

-Telescopic spray heads

-Rotary spray heads

Suitable for a range of underground roadway spraying requirements.

• Customizable Technical Parameters

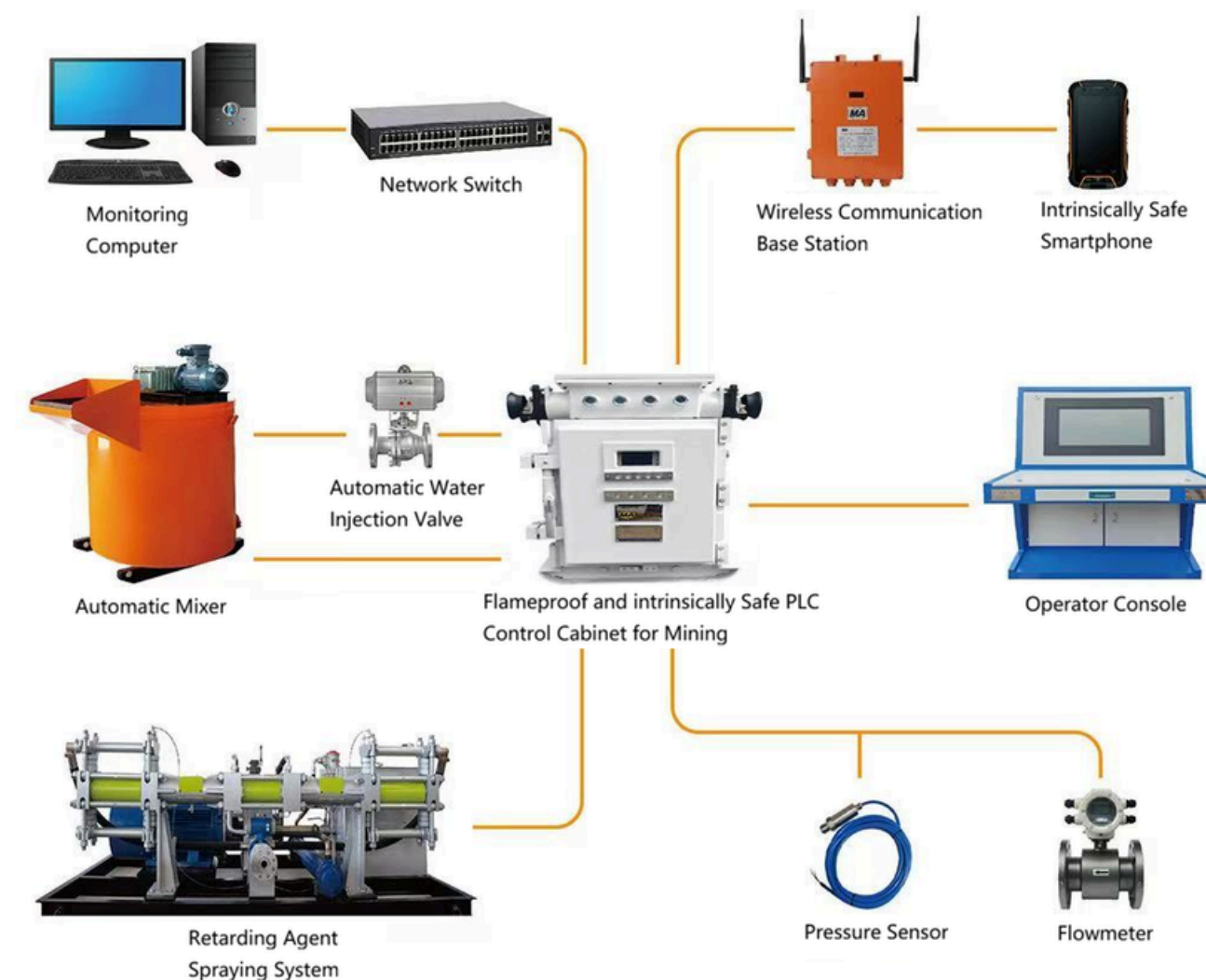
System technical parameters can be customised based on actual underground working conditions.

SYSTEM COMPOSITION

The system mainly consists of:

- Retarding Agent Pump Station
- Automatic Feeding Device
- Mixing Tank
- Retarding Agent Delivery Pipeline
- Spraying Device
- Electrical Control System

3D SYSTEM LAYOUT DIAGRAM



High-Water Cementitious Backfill Material

OVERVIEW

High water content material is a special cementitious material capable of rapid setting under high water–cement ratio conditions ($W/C = 1.3:1-3:1$). The material is based on sulphoaluminate cement clinker, with the addition of gypsum, lime, composite retarders, suspending agents, and composite accelerators.

The finished high-water material consists of two powder components (A and B) packaged separately. After mixing with water, they form Slurry A and Slurry B. Each slurry can be mixed and transported independently without solidifying; however, once the two slurries are mixed, they rapidly set and harden. The setting time can be adjusted as required (initial setting time: 7–20 minutes; final setting time: 22–75 minutes).

By adjusting the water–cement ratio, the compressive strength of the hardened filling body can be selected within a wide range (3–50 MPa) to meet different engineering strength requirements. After solidification, the filling body exhibits clear plastic material characteristics, allowing relatively large plastic deformation under pressure. The strength attenuation is relatively slow while maintaining high residual strength.

Our company aims to utilise the characteristics of high water content materials with our hydraulic double-cylinder dual-liquid grouting pumps—the proportional pumping construction process can effectively address various underground coal mine filling and reinforcement challenges, including:

- Goaf filling along the mining face
- Void filling
- Rib (sidewall) filling
- Roadway sealing filling
- Grouting reinforcement around rock

We provide integrated solutions for these applications.

Technical support services include:

- On-site investigation and consultation
- Successful case studies introduction
- Solution verification
- Equipment selection
- Installation and commissioning
- Construction guidance and follow-up technical support

SYSTEM LAYOUT DIAGRAM

