

DH(V)–Z Series Two Stage
Direct Drive/Permanent Magnetic
Screw Air Compressor

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Professional Air Compressor Solution Provider



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Specifications are subject to change without notice due to improvement in performance. Anything needed please contact us.



Energy Saving Enhances Value, Ingenuity Creates the Future!

Dream Compressor

Create the first brand of energy – saving silent air compressor







About US

For more than a decade, Dream (Shanghai) Compressor Co., Ltd has been striving to become one certificate from TUV for our oil-free screw of the leading manufacturers of compressed air compressors.as well as a variety of other certificates in solutions in China.

The dream is located in Xingta industrial zone, Shanghai Jinshan district with 25,000 square meter factory coverage, is specialized in designing, manufacturing and sales of air compressors and air treat-ment systems with an annual capacity of 10, 000 sure) units. Through years of efforts, its products have won wide recognition and acclaim from the domestic and oversea markets for high performance and reliability, durability and customer care.

The company fully complies with international standards in its production and management and has injected and oil-free) acquired (Quality Assurance) certificates of ISO9001, CE Certificate for European Market, UL & ASME and air storage tank)

certificate for United States market and Class O terms of environmental protection, safety, and electrical

- · Our product lines covering the following areas:
- · Oil-injected rotary screw compressors (Fixed speed and variable speed; high, normal and low pres-
- · Portable screw air compressors (Dieselpowered and electric motor powered)
- · Oil-free air compressors (dry type, water-
- · High-pressure piston air compressors (Oil-
- · Air treatment equipment (Air dryers, air filters

Certificates











Dream Compressor has always been a leader in the field of compressor technology, and its products include fixed screw air compressors, mobile screw compressors, piston air compressors, air dryers, precision filters, etc., which are widely used in various industries, Dream oil-free full range of products have gained the German Rhine class 0 certification. Dream company has become the premier supplier of screw compressors and piston machines with its rich experience and continuous innovation technology. After efforts, Dream has been successfully accepted by the mainland market with a good reputation.





DH(V)-Z Series Two Stage Compression Direct Drive Screw Air Compressor

Industry-leading dual-stage host

- 1. The unique intermediate coolant injection curtain design reduces the air temperature, and the compression process is close to the most energy-saving isothermal compression. In principle, the energy saving of two-stage compression is 5%-8% higher than that of single compression:
- 2. Two-stage compression, smaller compression ratio, less leakage, small bearing load, bearing life greatly improved;
- 3. The design idea of "large rotor, large bearing, low speed" is adopted to reduce noise and vibration, and increase the life and stability of the air end;
- 4. The tooth surface is processed by a rotor grinding machine to create a high-precision rotor, which is the first guarantee for the high efficiency and stability of the air end;
- 5. The new type of non-symmetric rotor teeth, high precision three-coordinate measuring machine, excellent quality.





The air filter takes in the air independently and directly inhales the ambient cold air, which is not affected by the temperature inside the chassis, thus achieving better energy efficiency.

High-efficiency permanent magnet synchronous motor

- 1. IP54 protection level, more stable and reliable than IP23 in harsh environments:
- 2. Low temperature rise design, motor temperature rise is less than 60K, higher efficiency, extending the service life of the motor;
- 3. Use ceramic-plated bearings to completely eliminate the impact of shaft current on the bearings;
- 4. Made of rare-earth permanent magnet materials, with large torque during starting and running, and low current during starting and running;
- 5. Reasonable magnetic field design and magnetic density distribution, energy-saving motor has a wider working frequency range and low operating noise;
- 6.Cooperate with the inverter operation to realize the frequency conversion soft start, avoid the strong mechanical impact of the machine equipment when the motor is started at full voltage, and help protect the machine equipment, reduce equipment maintenance, and improve equipment reliability.

1. Special intake valve for screw compressor, easy to

start, with automatic adjustment function, low flow rate, low

convenient to start in a low temperature environment, and the

oil supply of the unit is guaranteed at all times; the oil supply

temperature of the air end is controlled to ensure that the unit

Special valve group

the user's air does not return;

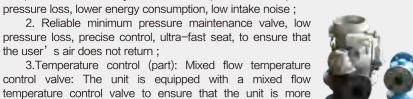
is at optimal performance.





Canopy is noise reduction design, according to the noise theory calculation, internal with a special flame retardant silencing cotton, reduce the unit noise, to provide a quieter environment.





Advanced and reliable electronic control system

- 1. The large-size color LCD touch screen has a good human-machine communication interface, and the touch screen has prevent accidental touch and sleep functions;
- 2. Customized vector inverter, perfectly matched with the motor, low frequency and large torque, can output 180% rated
- 3. Fully monitor various parameters of the machine, including voltage detection, three-phase unbalance detection, over pressure, over temperature, etc., No special care;
- 4. Configure networking, you can view the unit operating status on your mobile phone;
- 5. Independent air duct design, suitable for various working conditions.





Silent centrifugal fan

- 1. Centrifugal fans are adopted throughout the system, with higher efficiency and more energy saving;
- 2. Compared with axial fans, centrifugal fans have higher wind pressure, lower noise and more energy saving;
- 3. The DHV unit is controlled by frequency conversion fan, so the oil temperature is constant, which greatly extends the service life of the lubricating oil;
- 4. Due to high air pressure, cooler and filter screen are less likely to be blocked.



High-quality filters

- 1. The filtration area of the air filter exceeds 150% of the normal requirement, the inlet pressure loss is low, and the energy efficiency is good;
- 2. The oil filter adopts an enlarged oil filter design of imported glass fiber material. The rated processing capacity of the oil filter is ≥ 1.3 times the circulating oil volume, which has high filtration accuracy and good durability;
- 3. The oil core of imported glass fiber material has good filtering effect and low pressure loss of the oil core;
- 4. The layout design of the three filter is reasonable, the maintenance is convenient, and the downtime is reduced.



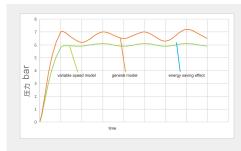
High quality and efficient coupling

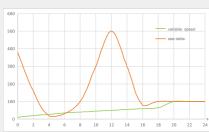
- 1. The coupling is a torsional elastic coupling with a failure protection function, which can effectively prevent and reduce vibration and shock generated during operation;
- 2. The elastic body is only subjected to pressure and can withstand greater loads. The drum-shaped teeth of the elastic body can avoid stress concentration.

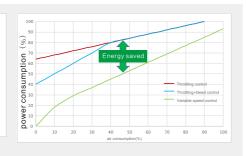


Overall energy saving

Compared with power fixed speed air compressor, variable speed air compressor has practical significance in energy saving.





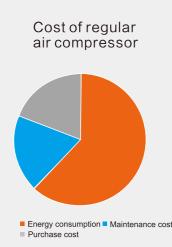


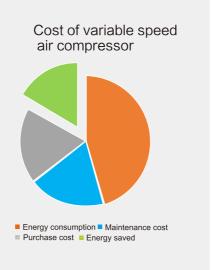
1.The pressure control of variable speed air compressor is precise. It can quickly respond to pressure changes, adjust the speed of the permanent magnet motor, control the pressure fluctuation range within ±0.1bar, stabilize the pressure of the pipe network, provide the necessary air volume with the most reasonable power, and reduce excess energy loss.

2. Variable speed air compressor adopts the method of frequency conversion start up, eliminating the peak current of star-delta start up and starting smoothly. Reduce the starting power, reduce the impact on the power grid and equipment, and can reduce the equipment operation noise.

3. Variable speed control is more excellent than ordinary throttle control. The adjustment range of the flow rate is larger, and with the high-efficiency permanent magnet motor, the energy saving effect is more significant at a low percentage flow rate.

4. Most of the cost in the life cycle of the air compressor is generated by the electricity it consumes. The power consumption of the compressor is closely related to the on-site air planning. The variable speed air compressor can not only ensure smooth production, but also save considerable electricity costs and achieve a win-win situation for the enterprise.





Application







Drilling protable diesed air compressor mobile: rock drilling and air slag discharge, providing driving force for pneumatic tools.

Dust removal equipment: The dust remover uses high-voltage electricity to generate electrostatic suction and the resistance of the bag itself. It absorbs dust particles in the flue gas into the inside of the bag, and then passes the collected particles through the vibration force generated when the bag is unfolded The effect of gravity falls into the hopper, so that the dust is removed. The air compressor provides the air source for back blowing to the dust collector to realize the pulse back blowing function of the equipment and ensure the normal operation of the equipment.

Plastic injection molding machine: In the injection molding process, an oil-free screw air compressor has a technology that can make the role of compressed air very important, which is air-assisted plastic injection molding.

Cases





An automobile industry purchases Dream DH-315Z machines, which are mainly used for blow molding and plastic molding gas. The main body of this project is "environmental protection technology". The customer used a joint venture brand in the early stage. Taking into account energy saving, the customer finally decided to replace a more energy-saving and stable air compressor. Through the preliminary telephone technical communication, he learned that the customer needs The air compressor produces air volume and pressure. After many technical dockings with customers in the later period, customers are very interested in the two-stage compression series air compressor recommended by our company. After conducting a field inspection of the customer's use of energy-saving renovation before Dream, I learned that the energy-saving effect and stability are much higher than other brands, and finally decided to eliminate the previous high-energy-consuming air compressor. The air compressor has been highly praised by customers from the installation, debugging and trial operation: Dream products are cost-effective, attractive in appearance, reliable and stable in quality, and can provide one-stop service.

Customer Service And Support

- ▲ As an air compressor manufacturer, we are steadily moving towards service providers and creating value for customers,make our customers successful.
- Ensure the safe and stable operation of customer equipment and solve user's problems promptly. Training customer operation personnel and service personnel. Feedback information. Track corrective actions. Aircompressor Failure Report and Repair Process.

Response Time: We promise to get back to you within 24 hours.

Service Hotline: whatsapp/skype/wechat:+86 13482161490.



Intelligent Control Technology-smart Cloud Technology

Three major functions and values of cloud intelligent control



Digital Station

Intelligent control: Reduce operation and maintenance costs by 10-30%

- 3D virtual air compressor station
- Dynamic data monitoring
- Workshop diagnosis report
- Online fault warning
- Maintenance cycle reminder



Intelligent control

Intelligent tuning: reduce labor hours by 250%

- Automatic control of air compressor
- Al algorithm autonomous tuning
- Device priority dynamic decision
- Intelligent control of auxiliary equipment



Energy saving of the whole station

Energy saving of the whole station:save 5–30% of power consumption in the workshop

- Edge computing technology
- Narrowband constant pressure technology
- Multi-parameter and multiconstraint control algorithm
- Big data visualization technology

Digital station value

Total station monitoring and control (computer side)

1. Air compressor, refrigerated air dryer, adsorption air dryer, water pump, fan, waste heat recovery machine, flow meter, electric meter, etc.



Specifications Fixed Speed Direct Drive Two Stage Screw Air Compressor

DH-Z系列 二级压缩螺杆压缩机 DH-Z series two stage	螺杆压缩机 Working es two stage pressure		排气量 Capacity		功率 Power		噪音 Noise	空气出 口管径 Air outlet	机组净重(kg) Net weight(kg)	外形尺寸(mm) Dimensions(mm)			
direct drive screw air compressor	bar	psig	(m3/min)	cfm	kW	hp	dB	pipe diameter	i tot worgi itirigi	长 Length	宽 Width	高 Height	
	8	116	12.8	452	55	75	65±3	G2	2400	2160	1350	1750	
DH-55Z	10	145	10.4	367	55	75	65±3	G2	2400	2160	1350	1750	
	13	189	8.8	310	55	75	65±3	G2	2400	2160	1350	1750	
	8	116	16.5	582	75	100	68±3	G2	2500	2160	1350	1750	
DH-75Z	10	145	13.5	476	75	100	68±3	G2	2500	2160	1350	1750	
	13	189	12.2	430	75	100	68±3	G2	2500	2160	1350	1750	
DH-90Z	8	116	20.1	709	90	120	70±3	DN65	3150	2420	1530	1720	
	10	145	17.3	610	90	120	70±3	DN65	3150	2420	1530	1720	
	13	189	15.9	561	90	120	70±3	DN65	3150	2420	1530	1720	
	8	116	23.5	829	110	150	72±3	DN80	3500	2650	1600	1850	
DH-110Z	10	145	19.8	699	110	150	72±3	DN80	3500	2650	1600	1850	
	13	189	17.6	621	110	150	72±3	DN80	3500	2650	1600	1850	
DH-132Z	8	116	27.8	981	132	175	74±3	DN80	3600	2650	1600	1850	
	10	145	24.0	847	132	175	74±3	DN80	3600	2650	1600	1850	
	13	189	20.0	706	132	175	74±3	DN80	3600	2650	1600	1850	
	8	116	33.3	1176	160	215	75±3	DN100	4000	3350	1900	1950	
DH-160Z	10	145	30.0	1059	160	215	75±3	DN100	4000	3350	1900	1950	
	13	189	28.2	995	160	215	75±3	DN100	4000	3350	1900	1950	
	8	116	38.6	1363	185	250	76±3	DN100	4500	3350	1900	1950	
DH-185Z	10	145	34.4	1214	185	250	76±3	DN100	4500	3350	1900	1950	
	13	189	31.8	1123	185	250	76±3	DN100	4500	3350	1900	1950	
	8	116	42.5	1500	200	270	76±3	DN100	5400	3350	1900	1950	
DH-200Z	10	145	40.2	1419	200	270	76±3	DN100	5400	3350	1900	1950	
	13	189	35.0	1236	200	270	76±3	DN100	5400	3350	1900	1950	
DH-220Z	8	116	47.1	1663	220	300	78±3	DN100	5500	3700	2060	2150	
	10	145	42.5	1500	220	300	78±3	DN100	5500	3700	2060	2150	
	13	189	37.2	1313	220	300	78±3	DN100	5500	3700	2060	2150	
DH-250Z	8	116	52.5	1854	250	350	78±3	DN100	5600	3700	2060	2150	
	10	145	48.2	1702	250	350	78±3	DN100	5600	3700	2060	2150	
	13	189	43.0	1518	250	350	78±3	DN100	5600	3700	2060	2150	
DH-280ZW	8	116	58.0	2048	280	375	80±3	DN125	6500	3700	2060	2150	
	10	145	52.3	1847	280	375	80±3	DN125	6500	3700	2060	2150	
	13	189	47.8	1688	280	375	80±3	DN125	6500	3700	2060	2150	
DH-315ZW	8	116	66.0	2330	315	422	82±3	DN125	7800	3700	2400	2300	
	10	145	57.9	2044	315	422	82±3	DN125	7800	3700	2400	2300	
	13	189	50.5	1783	315	422	82±3	DN125	7800	3700	2400	2300	
	8	116	73.0	2578	355	476	82±3	DN125	8200	3700	2400	2300	
DH-355ZW	10	145	65.0	2295	355	476	82±3	DN125	8200	3700	2400	2300	
	13	189	54.8	1935	355	476	82±3	DN125	8200	3700	2400	2300	

Note: DH-280ZW, DH-315ZW and DH-355ZW are water-cooled, others are conventional air-cooled. Dream compressor Specifications follow the principle of the followings:

Specifications Variable Speed Direct Drive Two Stage Screw Air Compressor

DHV-Z系列永磁变频 二级压缩螺杆压缩机 DHV-Z permanent magnetic	排气压力 Working pressure		排气量 Capacity		功率 Power		噪音 Noise	空气出 口管径 Air outlet	机组净重(kg) Net weight(kg)	外形尺寸(mm) Dimensions(mm)		
variable speed direct drive two stage screw air compressor	bar	psig	(m3/min)	cfm	kW	hp	dB	pipe diameter	oipe Jing	长 Length	宽 Width	高 Height
DHV-37Z	8	116	2.3-7.7	81-272	37	50	65±3	G2	1800	1860	1180	1430
	10	145	1.9-6.9	67-244	37	50	65±3	G2	1800	1860	1180	1430
	13	189	/	1	37	50	65±3	G2	1800	1860	1180	1430
DHV-45Z	8	116	3.2-10.5	113-371	45	60	65±3	G2	2000	1860	1180	1430
	10	145	2.2-7.8	78-275	45	60	65±3	G2	2000	1860	1180	1430
	13	189	2.5-6.1	88-215	45	60	65±3	G2	2000	1860	1180	1430
DHV-55Z	8	116	3.9-13.2	138-466	55	75	65±3	G2	2450	2160	1350	1750
	10	145	3.1-10.7	109-378	55	75	65±3	G2	2450	2160	1350	1750
	13	189	2.6-8.8	92-311	55	75	65±3	G2	2450	2160	1350	1750
DHV-75Z	8	116	5.0-16.8	177-593	75	100	68±3	G2	2550	2160	1350	1750
	10	145	4.1-13.8	145-487	75	100	68±3	G2	2550	2160	1350	1750
	13	189	3.6-12.3	127-434	75	100	68±3	G2	2550	2160	1350	1750
DHV-90Z	8	116	6.0-20.1	212-710	90	120	70±3	DN65	3250	2420	1530	1720
	10	145	5.2-17.3	184-611	90	120	70±3	DN65	3250	2420	1530	1720
	13	189	4.8-15.9	170-562	90	120	70±3	DN65	3250	2420	1530	1720
DHV-110Z	8	116	7.1-23.5	251-830	110	150	72±3	DN80	3600	2650	1600	1850
	10	145	5.9-19.8	210-699	110	150	72±3	DN80	3600	2650	1600	1850
	13	189	5.3-17.8	187-629	110	150	72±3	DN80	3600	2650	1600	1850
DHV-132Z	8	116	8.0-28.1	283-992	132	175	74±3	DN80	3700	2650	1600	1850
	10	145	7.3-24.3	257-858	132	175	74±3	DN80	3700	2650	1600	1850
	13	189	6.1-20.2	214-713	132	175	74±3	DN80	3700	2650	1600	1850
DHV-160Z	8	116	10.1-33.6	356-1187	160	215	75±3	DN100	4250	3350	1900	1950
	10	145	9.2-30.5	323-1077	160	215	75±3	DN100	4250	3350	1900	1950
	13	189	8.4-28.0	297-989	160	215	75±3	DN100	4250	3350	1900	1950
DHV-185Z	8	116	12.4-38.7	438-1367	185	250	76±3	DN100	4650	3350	1900	1950
	10	145	10.4-34.8	369-1229	185	250	76±3	DN100	4650	3350	1900	1950
	13	189	9.7-32.3	342-1141	185	250	76±3	DN100	4650	3350	1900	1950
DHV-200Z	8	116	12.8-42.6	451-1504	200	270	76±3	DN100	5550	3350	1900	1950
	10	145	12.2-40.5	431-1430	200	270	76±3	DN100	5550	3350	1900	1950
	13	189	10.6-35.1	374-1240	200	270	76±3	DN100	5550	3350	1900	1950
DHV-220Z	8	116	14.2-47.3	501-1670	220	300	78±3	DN100	5650	3700	2060	2150
	10	145	12.8-42.5	450-1501	220	300	78±3	DN100	5650	3700	2060	2150
	13	189	12.0-37.4	424-1321	220	300	78±3	DN100	5650	3700	2060	2150
	8	116	18.5-52.8	653-1865	250	350	78±3	DN100	6450	3700	2060	2150
DHV-250Z	10	145	15.1-48.3	533-1706	250	350	78±3	DN100	6450	3700	2060	2150
	13	189	13.3-43.0	470-1518	250	350	78±3	DN100	6450	3700	2060	2150

^{4.}Please consult our company for use in harsh working conditions such as with high temperature, extreme humidity, extreme cold and dust etc

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^{1.}The value of the capacity is the air volume flow under the following conditions (temperature:32°C, atmospheric pressure:101.325KPa).

^{2.} The exhaust pressure is the value after the check valve.

^{3.} The noise value is the value in the room without echo, the test tolerance: 3dB (A).

^{5.} Dimensions and weight of the whole machine are subject to change without notice.

^{6.}Please do not use compressed air directly in medical equipment for human inhalation.