

螺杆压缩机的极致水平

Summit of screw air compressor technology

高端螺杆压缩机制造企业

Manufacturing enterprise of high-end screw air compressor

Ever-Power Group

喷水无油螺杆压缩机

Water-injected Oil-free Screw Air Compressor



喷水无油螺杆压缩机行业应用范围

Scope of Water-injected Oil-free Screw Air Compressor



制药行业
Pharmaceutical Industry



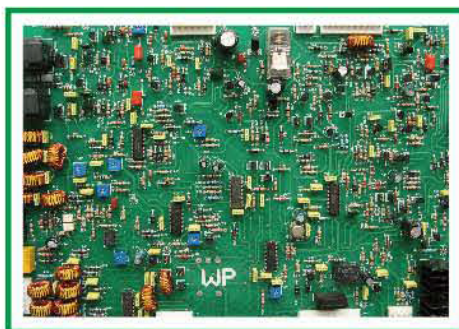
食品行业
Food Production Plant



纺织行业
Textile Industry



发酵行业
Fermentation Industry



电子半导体
Electronic Semiconductor



光伏
Photovoltaic Industry



吹瓶行业
Electronic Semiconductor



粉状物体运输
Transport of Powder



医院
Hospital



喷涂
Spraying



石油化工行业
Petrochemical Industry



空分行业
Air Separation

为了更健康安全地使用食品、药品，为了更高的提升产品质量，为了保护我们美丽的环境，未来所有行业更应使用喷水无油螺杆压缩机。
For the healthier food and medicine, for the better quality of products, for the protection of environment, all industries shall use water-injected oil-free screw air compressor in future.

压缩机企业简介

辛麦恩压缩机引进法国辛麦恩的高端螺杆压缩机的制造技术在国内进行消化、吸收，是国内首家将水用于压缩机内部进行冷却、润滑的高端螺杆压缩机制造企业，并在全球范围内率先推出二级压缩高压微油螺杆压缩机，压力达到4.0MPa；继而又研发了全球首创的4.0MPa压力无油螺杆压缩机、全球首创的1.25MPa压力无油涡旋压缩机。辛麦恩的研发团队不断挑战和突破空气压缩机的最高技术，不断地创造国际最先进的压缩机产品。在此先进的技术和精密制造基础上，我公司生产的喷油螺杆空压机的容积效率比高，抗高温，耐用，节能效果特别明显。

公司技术力量雄厚，生产及检测设备先进齐全，严格执行ISO9001质量管理体系，产品已获欧盟CE认证，无油机系列均通过德国权威机构TÜV Class 0检测。现有专业研发团队，不断地进行压缩机节能技术的开发研究工作，已经取得多项国际国内发明、实用新型专利。公司秉承“严管理、求进取、善创新、守信用、重服务”的企业精神，坚持走高、新、专的发展道路，坚持以人为本的思想，贯彻“没有最好，只有更好”的研发制造理念，追求“产品零缺陷、服务零距离”的境界，通过科学管理、技术创新和品牌服务，不断提升企业综合运营能力及市场竞争能力，全力打造“辛麦恩”强势品牌，竭诚为中国压缩机行业的振兴发展贡献自己的力量。

Introduce of CMN Air Compressor Company

CMN air compressor introduced high technology of screw air compressor of France B. Zimmern and became as the first company of screw air compressor in China to use water as cooling and lubricating medium in the air end. After developing of two-stage compression 4.0MPa micro oil screw air compressor, we continue developing the global initiative 4.0MPa oil-free screw air compressor and 1.25MPa oil-free scroll air compressor. CMN R & D team challenge and breakthrough of high technology of air compressor, and create the most advantage compressor in the world. Under the basic of advancing technology and precision machining, the micro oil screw air compressor of our company with the advantage of high efficiency, high temperature resistance, long service and energy saving.

Our company with strong technical, advancing manufacture and testing equipment, execute strictly of SO9001 quality management system. And our products get CE certificate, Oil-free series air compressor get Germany TÜV Class 0 testing. Present R & D team continue working for the air compressor for energy saving and get a lot of domestic and the worldwide patents.

CMN is obedience to strict management, progressing, innovating, honesty, good service as the spirit of company, Taking humanism and there is not the best, but the better as manufacture and developing idea, living with no failure of products, zero distance of service. By the scientific management, creating technology and branding service to promote the operational capacity of company and marketing competitive.



企业荣誉

Enterprise Honors

1.国家级高新技术企业

National High-tech Enterprise

2.省级高新技术企业研发研究中心

Provincial Research & Development Center for High & New Technology Enterprise

3.浙江省科技型企业

Technological enterprise in Zhejiang Province

4.台州市高新技术企业

High-tech Enterprise in Taizhou City

5.市级高新技术企业研发研究中心

Municipal Research & Development Center for High & New Technology Enterprise

6.喷水螺杆国家标准制定单位

National Standard of Water-injected Screw Air Compressor drawing company

7.中压单螺杆国家标准制定单位

National Standard of Medium Pressure of Single Screw Air Compressor drawing company

8.喷水螺杆浙江省首台套制造商

The first manufacturer of water-injected screw air compressor in Zhejiang Province

9.市级科技进步奖企业

Municipal Science & Technology Progress Award Enterprise

10.台州市科技型重点企业培育单位

Municipal Science & Technology Key Enterprise



采用喷水技术智造无油螺杆压缩机

Water-injected Technology to Produce Oil-free Screw Air Compressor

真正的无油螺杆压缩机

The real oil-free screw air compressor

- 主机没有一点润滑油——绝对无油的保障。
Not any lubricate grease in the air end, absolutely guarantee oil free.
- 无需主机夹套冷却油。
No air-end jacket cooling oil.
- 采用纯水清洗压缩空气中的酸性及碱性物质，使压缩空气更加洁净。
The purified water clean away acidic and basic substances of air, and make sure more purity of compressed air.

终身稳定可靠的无油螺杆压缩机

Stable & reliable oil-free screw air compressor

- 压缩机及气体接触的所有管路全部采用304、316不锈钢材质或特殊耐腐蚀材质制造。
The air end and all the pipes are made of 304 or 306 stainless steel or some other special corrosion resistant material.
- 0.15 ~ 1.6MPa压力范围内，一级压缩轻松实现，减少了大量运动部件，使结构更加简单可靠。
0.15 to 1.6MPa can be carried out by single compress, it reduces a lot parts and make the construction more simple and reliable.
- 采用电机与主机等速直联技术，使主机最高转速不超过2980rpm/min，轴承及转子使用寿命更长。
By direct connecting technology of motor power and air end, the rotate speed of air end is less than 2980r/min, so the life of bearing and rotor become much longer.

更加节能的无油螺杆压缩机

Energy-saving oil-free screw air compressor

- 采用直接喷水冷却转子及腔体，使压缩腔的内部温度低于40℃，等温压缩效率更高。
Direct water-injecting to cool rotor and compression chamber, to make sure the inner temperature of chamber less than 40℃. Isothermal compression makes higher efficient.
- 采用直接喷水密封转子间隙，无需转子涂层，杜绝转子涂层剥落问题，使之长期保持高效压缩。
Direct water-injecting to seal the clearance of rotor, so there is not any necessary for coating of rotor. It basically eliminates the problem of coating loss and makes sure long-time and high-efficient compression.
- 采用双压缩腔技术，一个转子两个压缩腔，超越两级压缩，无需中间冷却减少功耗损失，使之更加高效。
One rotor but two chambers, it surpasses two-stage compression. No requirement of intermediate cooling to reduce the loss of power and make it much more efficient.

更低维护成本的无油螺杆压缩机

Lowest cost and maintenance of oil-free screw air compressor

- 日程维护只需更换空气滤芯和水过滤器。
Daily maintenance is only air filters and water filters.



可用于呼吸的纯净空气
Purified air used for breathing



专利进气静音设计
patented air inlet silent design



日本SMC控制元件
Japan SMC control element



瑞典阿法拉伐不锈钢水冷却器
Sweden Alfa Lava stainless water cooler



辛麦恩磁力泵
CMN magnetic pump



水气分离器与水过滤器
water/gas separator and water filter



不锈钢液位器
stainless steel liquid level



外部接口
outside connection



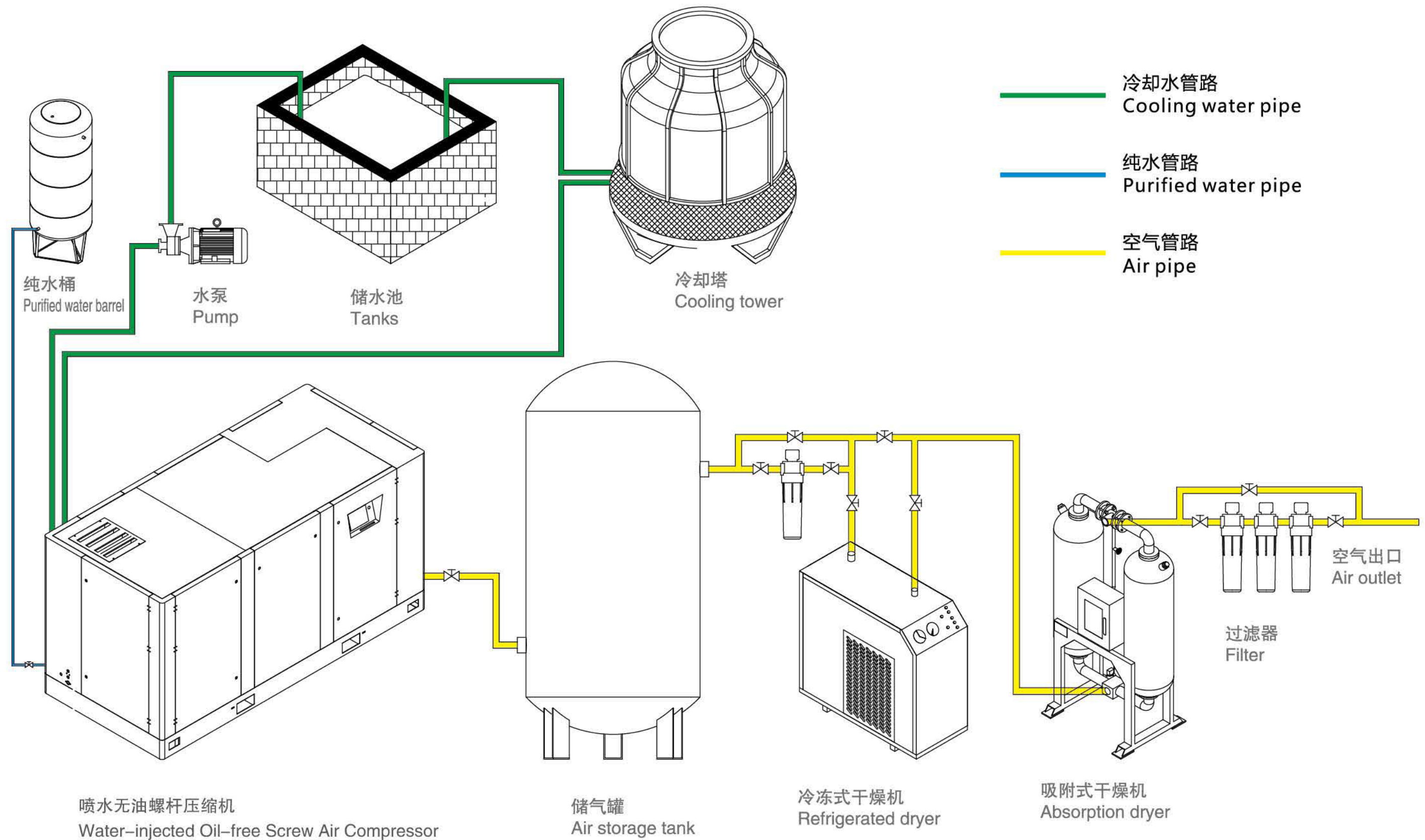
电源进口
Power Source



空气出口
air exhaust



冷却水进、出口
cooling water inlet/outlet



低压无油喷水螺杆压缩机系列
Low pressure water - injection oil free screw air compressor series



掌握螺杆压缩机核心生产技术的辛麦恩团队可以根据用户的要求设计生产出压缩比1.2至4的各类低压螺杆压缩机主机，从而设计出最节能的供气压力0.12Mpa~0.4Mpa的各类低压压缩机，比采用常规主机生产的低压螺杆压缩机节能30%以上，可以减少巨大的能源消耗。

CMN team has mastered the core production technology of screw air compressor and we can design and produce kinds of low pressure compression ratio 1.2~4 air end for screw air compressors according to the requirement of the customers. The various CMN low pressure (0.12Mpa~0.4Mpa) compressors can be more than 30% energy-saving compared with general screw air compressors.

辛麦恩低压系列压缩机已广泛应用于医药发酵、化纤纺织、玻璃器皿、粉体输送等。
CMN low pressure series compressor has widely applied to medicine ferment, chemical fiber textiles, glass-ware, powdery transmission and etc.



医药、化工行业的许多工艺（如发酵、过滤、输送等）都需要低压缩空气。
Some processes in medicine and chemical industry such as ferment, pressure filtration, transmission and etc. need low pressure compressed air.



各类玻璃瓶依靠低压缩空气吹制成型，即节约了能源，又能吹出完美的形状。
All kinds of glass bottle is shaped by the low pressure air compressor. It saves energy resources and blows perfect shape.



化纤纺织的加弹机，网络机需要低压缩空气。
Texturing machine and network machine used for chemical fiber textiles need low pressure compressed air.



粉状物体的输送（如面粉、咖啡、药品、水泥）用到大量低压缩空气。
Carrying of powdery substances (such as flour, coffee, pharmaceuticals, cement) needs a large amount of low-pressure compressed air.

CM/D 系列低压无油喷水螺杆压缩机技术参数

Technical Parameters For CM/D Series Low Pressure water - injection Oil Free Screw Air Compressor

工频系列
Fixed speed series

型 号 Model	工作压力 Work pressure	流量 FAD	供气温度 Air supply temperature	电机功率 Motor power	噪音 Noise	重量 Weight	冷却水进出口管径 Pipe diameters of cooling water inlet and outlet	冷却水量 Quantity of cooling water	外形尺寸 Dimension	空气出口 Air outlet
								进水32° Water entering 32°	L × W × H	
	Mpa	m3 / min	℃	kW	dB(A)	kg	T/h	mm		
CM45D	0.12~0.25	13.80	≤45	45	70	1720	1½"	12	2200×1350 1530	DN65
CM55D	0.25~0.40	13.60		55		1750		18		
CM75D	0.25~0.40	20.1		75	72	2300	2½"	20	2200×1350×1530	DN65
CM132D	0.12~0.25	43.00		132	78	4380	3"	30	3100×1700×2090	DN125
CM160D	0.25~0.40	42.88		160		4500		35		

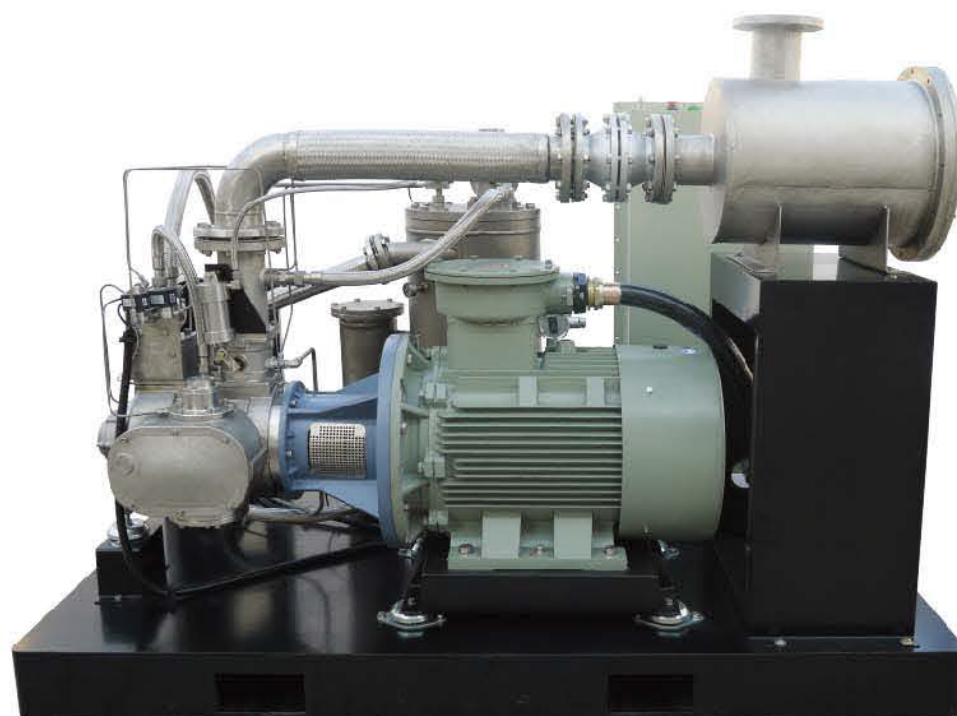
变频系列
Vsd series

型 号 Model	工作压力 Work pressure	流量 FAD	供气温度 Air supply temperature	电机功率 Motor power	噪音 Noise	重量 Weight	冷却水进出口管径 Pipe diameters of cooling water inlet and outlet	冷却水量 Quantity of cooling water	外形尺寸 Dimension	空气出口 Air outlet
	Mpa	m3 / min	℃	kW	dB(A)	kg	进水32° Water entering 32°	L × W × H		
							T/h	mm		
CM45DV	0.12~0.25	5.50~13.80	≤45	45	70	1790	1½"	12	2200×1350×1530	DN65
CM55DV	0.25~0.40	5.40~13.60		55		1820		18		
CM75D	0.25~0.40	8.04~20.1		75	72	2300	2½"	20	2200×1350×1530	DN65
CM132DV	0.12~0.25	17.20~43.00		132	78	4480	3"	30	3100×1700×2090	DN125
CM160DV	0.25~0.40	17.10~42.88		160		4620		35		

其他压力和特殊要求，请咨询400 119 7888 （021-64974426）
Other special requirement for different range of pressure, please contact -86-21-64974426

无油系列汽油气压缩机、氮气压缩机、沼气压缩机、煤层气压缩机、瓦斯压缩机

oil free series covering gasoline gas compressor, nitrogen compressor, marsh gas compressor, carbon dioxide compressor, coal bed gas compressor.



CMT系列特种、工艺气体喷水螺杆压缩机

Special requirement and process gas screw air compressor of CMT series

在国民经济的各个领域，存在各种对易燃易爆、腐蚀、有毒有害等气体的压缩，掌握喷水无油螺杆压缩机技术的辛麦恩团队将喷水无油螺杆压缩机的应用于易燃易爆、腐蚀气体的压缩，利用水润滑的低温特性，压缩易燃易爆气体绝对安全，利用不锈钢主机的耐腐蚀性可以压缩腐蚀性气体。辛麦恩已成功开发汽油气压缩机、沼气压缩机、二氧化碳压缩机、煤层气、瓦斯压缩机、氮气压缩机等特殊气体压缩机。

In all fields of national economy, there need to compress inflammable, explosive, corrosive, poisonous and harmful gas. CMN water injected oil free technology has been widely applied to the compression of Inflammable and explosive gas, which is much more safer with its low temperature water injected system. And the stainless steel air end is corrosive resistance. CMN has successfully developed special gas process compressor such as gasoline gas compressor, marsh gas compressor, carbon dioxide compressor, coal bed gas compressor and etc.



关于辛麦恩喷水螺杆技术,您是否有以下疑问?

About the technology of CMN water-injected screw, do you have following questions?

1.水会对空气压缩机的系统产生锈蚀吗?

Q1: Does water rust the air compressor system?

CM系列喷水螺杆压缩机使用合乎饮用标准的纯净水, 采用的零件材料是国际标准牌号304、316不锈钢及特殊耐腐蚀的材料制造, 所以不会产生系统锈蚀情况发生。

CM series water-injected screw air compressor uses purified water with the standard of drinking. The air end and all the pipes are made of 304 or 306 stainless steel or some other special corrosion resistant material, so the rusting problem will not be happened.

2.水会影响寿命吗?

Q2: Does the water affect the using life of screw air compressor?

CM系列喷水螺杆压缩机压缩主机, 采用迷宫式的专利设计技术(专利号为: 201110000872.4), 轴承不会有任何水进入, 并且使用重载轴承寿命更高。区别于早期易碎及不受力的纳米碳化硅和陶瓷材料轴承。

The air end of CM series water-injected screw air compressor is designed by labyrinth patent technology (patent no.: 201110000872.4) to prevent the water move into the bearing, so to make longer using life of the heavy duty bearing. This kind bearing is different from former fragile and un-stressed nano-carbide and ceramic bearing

3.水会积垢吗?

Q3: Does water scale up?

CM系列喷水螺杆压缩机系统, 采用合乎饮用标准的纯净水, 水一直在系统里循环流动; 并且每隔200小时, 系统会自动进行换水, 确保水里的钙质含量不提高, 并且压缩主机运行温度不高于50℃, 不存在积垢的风险。

CM series water-injected air compressor system using drinking standard purified water, the water circulates through the system, and the system will change the water every 200 hours automatically to make sure low calcium content in the water. What's more, the working temperature of the air end is not over 50℃, so there is no risk of scale.

4.喷水无油螺杆压缩机的压缩空气含水量高吗?

Q4: Is the compressed air with higher moisture content by the water-injected oil-free screw air compressor?

空气压缩后其含水量都达到了饱和状态, 压缩空气的含水量只与温度和压力有关, 与其他没有关系, 喷水无油螺杆压缩机产生的压缩空气温度不高于50℃, 其含水量在50℃的饱和状态。相比其他型式的压缩机, 一般排气温度远高于50℃, 所以喷水无油螺杆压缩机的压缩空气含水量远低于其他型式压缩机组。

The water content of the compressed air is under saturated state. And the water content of compressed air only has relationship with temperature and pressure; it is not affected by others. The temperature of compressed air by water-injected oil-free screw air compressor is no more than 50℃, so the water content is under 50℃ saturated state. Comparing with other type air compressor, the temperature of discharge air is higher than 50℃, so the water content is also higher.

5.喷水无油螺杆压缩机转子为何可以不用涂层?

Q5: Why no coating for screw rotor of water-injected oil-free screw air compressor?

CM系列喷水无油螺杆压缩机主机转子间隙采用喷水密封技术, 转子材料采用特殊的耐腐蚀材料制造。转子工作温度不高于50℃, 无需考虑高温转子变形、转子泄漏、转子腐蚀等问题。

The clearance of screw rotor of water-injected oil-free screw air compressor of CM series is sealed by the water injection. The screw rotor is made of special anti-corrosion material. The working temperature of rotor is no more than 50℃, so there is not any worry about the deformation, leakage, corrosion of the screw rotor.

6.喷水无油螺杆压缩机的效率会下降吗?

Q6: Is the efficiency of water-injected oil-free screw air compressor decreased?

CM系列喷水螺杆压缩机继承了法国工程师B.Zimmermann的技术, 是唯一真正掌握喷水螺杆压缩机制造真谛的企业, 设计寿命超二十年, 使用寿命十五年以上, 效率下降不会超过5%。

CM series water-injected screw air compressor has inherited the technology of the French engineer B.Zimmermann, to become the only one mastering this technology. The design life of screw air compressor is 20 years, and the using life is more than 15 years, besides, the efficiency will be decreased less than 5%.

7.同为喷水无油螺杆压缩机为何辛麦恩更加节能及长寿?

Q7: Why the life and efficiency of CMN water-injected oil-free screw air compressor is much better than other water-injected screw air compressor?

CM系列喷水螺杆压缩机通过十多年的实际开发经验、技术沉淀, 已掌握核心的型线啮合技术、稳定的压缩主机材料应用技术及可靠的加工工艺技术。

CM series water-injected screw air compressor through ten years of development, technology of precipitation, has mastered the core technique of type line meshing, stable material of air end and reliable manufacture process technology.

8.同为喷水无油螺杆压缩机为何辛麦恩更加稳定及可靠?

Q8: Why CMN water-injected oil-free screw air compressor is much stable and reliable than others?

CM系列喷水螺杆压缩机通过十多年的实际应用经验, 拥有最成熟稳定的硬件和更加可靠的软件控制系统。

CM series water-injected oil-free screw air compressor through ten years' experience in practical application, gains the most stable hardware and the most reliable software control system.

压缩机相关认证文件
Certifications of CMN Air Compressor



CM全系列通过德国TUV class 0 无油认证
TUV class 0 Oil-free Certificate

CE认证
CE Certificate

ISO9001认证
ISO9001 Certificate



TS 16949认证
TS 16949 Certificate

愿景
wishes

- 造全球最好的空气压缩机
Produce the best air compressor all over the world
- 未来我们希望空气更加干净
We wish the air to be cleaner in the future.
- 未来我们希望食品、药品更加安全
We wish the food and the medicine to be safer in the future.
- 未来我们希望水更清
We wish the water to be clearer in the future.
- 未来我们希望山更绿
We wish the mountain to be greener in the future.
- 未来我们希望天更蓝
We wish the sky to be bluer in the future.
- 未来我们希望地球更美丽
We wish the world to be more beautiful in the future.

领先科技 撼动全球
Leading technology, Greening world

节能·环保·可靠
Efficient, Environmental, Reliable

