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诚信·创新·卓越
Integrity · Innovation · excellence



版本号: SHB-SAM-C-21-A

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上海汉钟精机股份有限公司为产品不断改良，保留设计变更权，如有变更，恕不另行通知。



股票代码: 002158

品质典范 Quality Paradigm

节能 | 高效 | 安全
Energy saving | High efficiency | Safety

SAM系列 涡旋式空气压缩机 SAM series oil free scroll compressor

成就不凡 Extraordinary Achievement

www.hanbell.com.cn

汉钟 HANBELL

“品质、环境、安全政策”

“Quality, Eco-friendly, Safety”

- 品质挂帅，物超所值
Excellent quality ,reasonable price
- 顾客满意，安全高效
Customer satisfaction ,Safety and efficiency
- 节能减排，生态环境
Energy-saving, eco-friendly
- 遵纪守法，不断改善
Observe law, keep improving



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汉钟·上海

汉钟精机简介

上海汉钟精机股份有限公司，是专业的螺杆式压缩机及相关产品制造工厂，在空调、冷冻冷藏、压缩空气、真空泵等领域为建立中国自主高精密技术不断前进。

汉钟拥有专业的设计研发人才，推陈出新不断创造新的产品服务业界。训练有素的生产团队，可以及时满足客户提出的相关规格要求；具有多年经验的服务人员，使客户无后顾之忧。

历经多年淬炼，汉钟已经成为上海知名厂家，不但有国内市场，且以自有品牌“HANBELL”行销海外市场。

高精密设备、自动化仓储、AGV、完整测试实验室与有效率的物流管理，加上品质、环境安全管理系统的有效运行，保证了汉钟“品质挂帅、物超所值”的方针承诺，汉钟系列产品每年都以高成长率创造着令人惊奇的一页，秉持诚信、创新、卓越的经营理念，上海汉钟将立足中国，放眼世界，不断提供优质的系列产品与服务，深耕流体机械行业。

资质/荣誉 qualification / honor



ISO9001:2000 证书
ISO9001:2000certification



GCCA质量安全
GCCA QS



class 0证书
class 0 certification



空压机组GC节能认证
GC energy saving certification



上海市百强证书
Shanghai Top 100



AAA级信用企业
Grade AAA credit enterprise



中国制造业创造价值100强
Made in china value creation Top 100



中国机械工业质量诚信企业
China machinery industry quality integrity enterprise



全国工业品牌培育示范企业
National industrial brand cultivation demonstration enterprise

About Hanbell

As a professional manufacturer of screw compressor and related products, Shanghai Hanbell Precision Machinery Co., Ltd. has established China's independent high-precision technology in the fields of air conditioning, refrigeration, compressed air, vacuum pump and so on.

Hanbell has professional technical teams to create new products constantly, well-trained production teams to meet various requirement of customers, experienced service teams to make customers out of worry.

After years of development, Hanbell has become a well-known manufacturer in Shanghai. It not only owns a domestic market, but also sells overseas markets with its own brand HANBELL.

High precision equipment ,automated warehousing AGV ,complete test laboratory and efficient logistics management, coupled with the effective operation of quality environment and safety management system, guarantee the Hanbell policy of " excellent quality ,reasonable price". Hanbell products are creating an amazing page with high growth rate every year, adhering to the business philosophy of integrity, innovation and excellence, Hanbell will be based in China, look to the world, continue to provide high-quality series of products and services, deeply cultivate the fluid machinery industry

► 无油涡旋式压缩机原理

Oil free scroll compressor working principle

汉钟涡旋压缩机采用专用型线的动静涡盘相互齿合而成完成吸气、压缩和排气的工作过程。其中静盘固定在机架上不动，动盘由偏心轴驱动并由防自转机构制约围绕静盘基圆中心作很小半径的平年转动。气体由静涡卷盘的外围通过滤清器自由吸入、随着偏心轴旋转，气体在动静涡盘齿合所组成的若干对月牙形压缩室被逐渐压缩，然后由静涡卷盘中心部位连续排出。

The scroll air end by orbiting scroll and fixed scroll inter winding each other completes the process of suction, compression and discharge. The fixed scroll is fixed on the frame, while the orbiting scroll is driven by the eccentric shaft and restricted by the anti-rotation mechanism to make a small radius movement around the center of the fixed scroll. The gas is freely sucked in through the periphery of the scroll reel through the filter. As the eccentric shaft rotates, the gas is gradually compressed in the crescent-shaped compression chamber being composed of the fixed and orbiting scrolls and then discharged by the central part of the fixed scroll.



低重量

Light weight

降低运营成本，增加运行时间。
Reduce operating costs and increase runtimes.



小体积

SMALL FOOTPRINT

充分利用有限的空间
Make full use of limited space



低噪音

Low noise

确保环境的舒适
Environmental friendly



高节能

Economic energy-saving

智能控制，循环启停控制节约能耗。
Intelligent control, cycle start and stop control to save energy.



低运行成本

LOW LIFECYCLE COSTS

易操作和维修，无易损件。
Easy to operate and repair, no wearing parts.



高可靠性

HIGH RELIABILITY

涡旋设计最佳化，超精密加工。
Swirl design optimization, ultra precision machining.

► 无油涡旋机组设计特点

Oil free scroll compressor design features

- 1、空气系统中完全无油、碳的污染，更清洁。
- 2、运动部件少，结构简单，可靠性高，使用寿命长。
- 3、无需更换润滑油及其油过滤器，无废液处置的问题，更环保。
- 4、工作时动静涡盘不接触，振动小，噪音更低。
- 5、运行费用低，每年可为您节省上万元的费用。
- 6、几乎无易损件，维护工作量极少，维护成本更低。
- 7、可实现智能多机连锁，循环启动/停止控制，高效运行降低电力消耗。
- 8、搭载自主开发的压缩机本体，追求更高性能，更好的使用体验。



- 1, No oil and carbon pollution in the system
- 2, Less moving parts, simple structure, high reliability, long service life
- 3, No need to replace the oil and oil filters, no waste disposal problems, more environmental friendly
- 4, No contact of the fixed scroll and orbiting scroll in operation to achieve small vibration and low noise
- 5, Low running cost, you can save thousands of dollars each year
- 6, Almost no wearing parts, maintenance workload is very small, lower maintenance costs
- 7, Can achieve intelligent multi-machine chain, cycle start / stop control, to achieve optimal operation to reduce power consumption
- 8, Equipped with self-developed air end to achieve higher performance and better user experience



模组化彩色液晶屏显示器，配备高性能微机电路板，显示屏上会数字显示运行的状态和各种故障预警。
操作简单易懂，人机界面搭配佳。

The modular color LCD panel display is equipped with a high-performance microcomputer circuit board. The display will display the status of the compressor and various fault warning.

Friendly user interface, easy to use

► 无油涡旋机组规格表 Oil free scroll compressor technical specifications

SAM系列无油涡旋技术参数表

Technical Specifications of SAM series oil free scroll compressor

型号 Model	电机功率 Motor power (kW)	排气压力 Discharge pressure (bar)	理论容积流量 Capacity FAD (L/min)	出口尺寸 Outlet size (inch)	机组净重 Net weight (kg)	机组外形尺寸 Dimensions (L*W*H)mm
SAM-04A	3.7	8	410	G 1/2"	210	700*650*920
		10	340			
SAM-06A	5.5	8	600	G 3/4"	250	730*650*1020
		10	450			
SAM-08A	3.7*2	8	820	G 3/4"	450	1350*818*1100
		10	680			
SAM-11A	5.5*2	8	1200	G 1"	500	1350*818*1100
		10	900			
SAM-15A	3.7*4	8	1640	G 1"	600	1500*818*1800
		10	1360			
SAM-16A	5.5*3	8	1800	G 1"	600	1500*818*1400
		10	1350			
SAM-22A	5.5*4	8	2400	G 1-1/4"	750	1500*818*1800
		10	1800			

1.上述技术参数依据ISO1217, 吸气温度: 20℃; 相对湿度: 60 %; 吸气压力: 0.1MPa。

The above technical parameters measured according to ISO1217, Air inlet temperature: 20℃; Relative humidity: 60 %; Inlet pressure: 0.1MPa

2.除标准电压为380V, 三相, 50Hz, 若有需求其他规格, 请接洽汉钟销售人员。

Standard voltage 380V, three-phase, 50 hz, If you need other specifications, please contact Hanbell sales staff

3.若有其他功率机型之需求, 请接洽汉钟销售人员。

If you need other power models, please contact Hanbell sales staff

4.本公司持有所有规范之设计修改权利, 最终规格依机器实体为基准。

The company holds the right to design and modify all specifications, and the final specifications are based on the machine entity

► 应用领域 Application



4S店 (车辆喷漆) / 新能源大巴 (制动、雨刷气门)

4S shop (car spray painting) / new energy bus (brake, wiper valve)



医疗器械 (牙医、制氧等医疗气源)

Medical instruments (dental, oxygen and other medical sources)



电子工业 (装配清洁用气)

Electronics industry (assembly, cleaning, gas)



制药工业 (制药业的搅拌)

Pharmaceutical industry (agitation of pharmaceutical industry)



食品工业 (酿造业的搅拌)

Food industry (agitation of brewing industry)



纺织工业 (喷气织机)

Textile industry (air-jet looms)



气体分离设备 (吸附和膜分离制氧、制氮)

Gas separation equipment (adsorption and membrane separation, oxygen generation, nitrogen production)



枫泾厂 Fengjing Factory



兴塔厂 Xingta Factory



桃园厂 Taoyuan Factory



台中厂 Taichung Factory



汉声厂 Hansheng Casting factory



汉扬厂 Hanyang Factory



济南分公司 Jinan branch



南京分公司 Nanjing branch



广州分公司 Guangzhou branch

产品、服务支持 Product ,service Support

- ▶ 汉钟精机经过多年的努力与用心经营，从点的销售、线的推广到今天面的网络。建立了世界主要市场的全方位销售服务网络。
- ▶ 台湾桃园厂与大陆上海厂的双重支持保证销售的灵活性与稳定性。各地分公司与经销商的有效支持使汉钟产品在世界上任何一个角落都能得到较快的售后服务保证。
- ▶ “创新、品质、服务”是汉钟的承诺，用完整的销售管理，结合各个产品销售网络，我们将提供快捷、有效率、高品质的销售与服务。
- ▶ 我们以“世界第一”为目标，为创立中国人的骄傲奋斗不懈。“HANBELL”将会是压缩机界极响亮的品牌。
- ▶ After many years of efforts and careful management, Hanbell establish a full range of sales service network in the world's major markets.
- ▶ Taiwan Taoyuan factory and Shanghai factory double support to ensure the flexibility and stability of sales. Branches and dealers around the world effective support of Hanbell products in any corner of the world can get faster after-sales service guarantee.
- ▶ "Innovation quality service" is the commitment of Hanbell, With complete sales management, combined with various product sales network, we will provide efficient and high quality sales and service
- ▶ We take "Number one in the world" as the goal, to create the pride of the Chinese people struggle unremittingly "HANBELL" will be a very loud brand in the compressor field

总部 Headquarter

上海汉钟精机股份有限公司 SHANGHAI HANBELL PRECISE MACHINERY CO.,LTD.

生产工厂 production plant

台湾桃园厂 台湾台中厂 上海兴塔厂 上海枫泾厂 越南厂 汉声厂 汉扬厂
Taiwan Taoyuan Factory Taiwan Taichung Factory Shanghai Xingta Factory Shanghai Fengjing Factory Vietnam factory
Hansheng Casting factory Hanyang Factory

分公司 Branch

意大利分公司 济南分公司 南京分公司 广州分公司 重庆分公司
Italian branch Jinan branch Nanjing branch Guangzhou branch Chongqing branch

海外销售点 Overseas sale

亚洲：日本 韩国 马来西亚 泰国 新加坡 印度尼西亚 印度 越南 菲律宾 约旦 科威特 阿拉伯联合大公所

欧洲：英国 法国 德国 意大利 希腊 西班牙 土耳其 以色列

美洲：美国 墨西哥 委内瑞拉 智利 阿根廷 巴西 哥伦比亚

其他：埃及 南非 马达加斯加 澳大利亚 新西兰

Asian: Japan Korea Malaysia Thailand Singapore Indonesia India Vietnam Philippines Jordan
Kuwait Arabia

Europe: Britain France Germany Italy Greece Spain turkey Israel

America: America Mexico Venezuela Chile Argentina Brazil Columbia

others: Egypt South Africa Madagascar Australia New Zealand