

Sincerity • Innovation • Excellence



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STOCK CODE 002158

SAM/SAY Seires

SCROLL COMPRESSOR



SHANGHAI HANBELL PRECISE MACHINERY CO., LTD.



Introduction

Shanghai Hanbell Seiki Limited by Share Ltd, is the screw and scroll compressor professional and related products manufacturing plant, air conditioning, refrigeration, compressed air, vacuum pump and other fields for the establishment of China independent high precision technology progress.

Hanbell has a professional design and development talent, new year and constantly create new products and services industry. The well-trained production team can meet any specification requirements from customers, and have experienced service personnel. They can support customers in any corner of the world at any time and place, so that customers will have no worries.

After years of Cuilian Hanbell has become well-known international manufacturers across five continents, with its own brand "HANBELL" global marketing. Continued investment in resources for the Chinese mainland market, is to become the "China Compressor first brand" fully reflected.

Quality Awards:

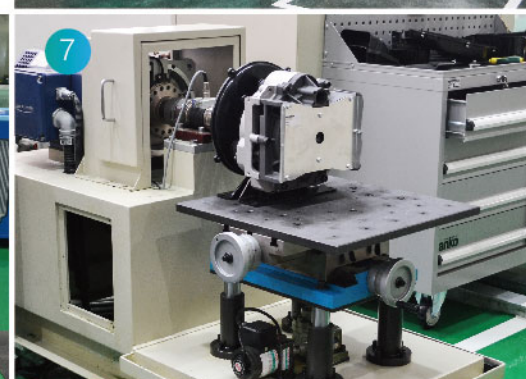




Intelligent manufacturing

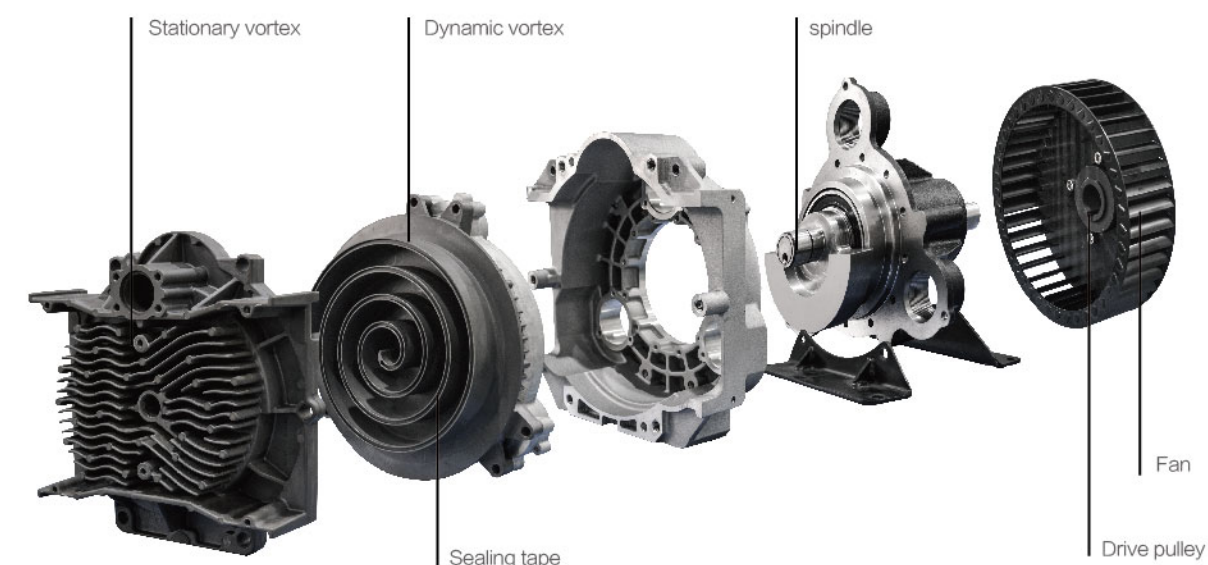
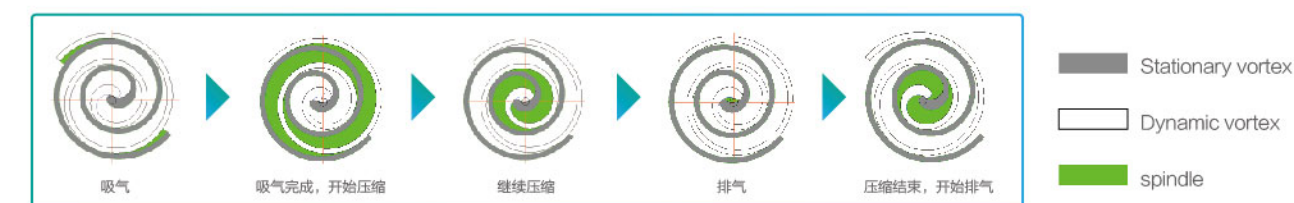
"Industry 4.0", "smart manufacturing" is the development trend of manufacturing. Hanbell as a fluid mechanical and electrical industry leader, always walk in the forefront of technological development. Hanbell Intelligent 4.0 to improve the level of intelligent Hanbell, reduce energy consumption, improve production efficiency, energy saving and environmental protection, the achievements of pollution-free green intelligent factory.

- 1、Grinding machine
- 2、Lathe machine
- 3、Coordinate measurement machine
- 4、The surface roughness measuring bed
- 5、Parts cleaning system
- 6、Scroll assembly line
- 7、Scroll body inspection center
- 8、Assembly line of scroll compressor
- 9、Scroll unit performance test center



► Principle of oil – free scroll compressor

Hanbell Scroll Compressor uses a patented line of static and dynamic scrolls are intertwined to complete the work of suction, compression and exhaust. Wherein the static disk is fixed on the frame and the movable plate is driven by the eccentric shaft and is controlled by the anti-rotation mechanism for the turning of the small radius around the center of the static disk base circle. The gas is freely sucked through the periphery of the vortex reel through the filter. As the eccentric shaft rotates, the gas is gradually compressed in the crescent-shaped compression chamber composed of the static and dynamic scrolls and then compressed by the central part Continuous discharge.

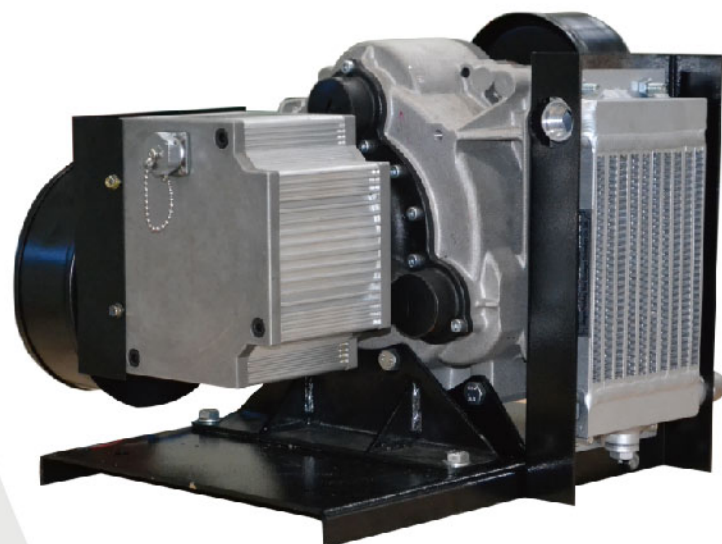


Oil – free scroll air end specification sheet

Model	Motor output power		Rated pressure	Air displacement	Exhaust interface	Noise value
	kW	HP	bar	L/min	inch	dB(A)
SAM-285	2.2	3	8	250	1/2"	64
			10	215		
SAM-440	3.7	5	8	410	1/2"	65
			10	355		
SAM-700	5.5	8	8	570	3/4"	66
			10	490		

► Powerful products Designed for every car

Scroll compressor, compressor is one of the world's most advanced. Compared with the traditional micro air compressor oil leak risk, causing the vehicle on fire, brake failure, aging components, seriously endanger the safety of the passengers. The new SAM series Hanbell oil-free scroll air compressor oil free design, prevent leakage, zero fault operation, for life escort, and direct the world's leading design (patent technology), so the level of protection of IP67.



High Volumetric Efficiency
60%

Max Rotate Speed
12000rpm

Oil – free scroll air end specification sheet

Model	Motor output power		Rated pressure	Air displacement	Exhaust interface	Noise value
	kW	HP	bar	L/min	inch	dB(A)
SAM-285D	2.2	3	8	250	1/2"	64
			10	215		
SAM-440D	3.7	5	8	410	1/2"	65
			10	355		
SAM-700D	5.5	8	8	570	3/4"	66
			10	490		



LOW WEIGHT

Reduce operating costs and increase runtimes.



SMALL FOOTPRINT

Make full use of limited space



LOW SOUND

To ensure the comfort of the environment



ULTRA-HIGH ENERGY

Intelligent control, cycle start and stop control to save energy.



LOW LIFECYCLE COSTS

Easy to operate and repair, no wearing parts.



HIGH RELIABILITY

Swirl design optimization, ultra precision machining.

Oil-free scroll unit design features:

- 1, the air system completely oil-free, carbon pollution, cleaner.
- 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 environmentally friendly.
- 4, when working static and dynamic scrolls do not touch, vibration, low noise.
- 5, operating costs are very low, you can save tens of 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 independent development of the compressor body, the pursuit of higher performance, better use experience.



Oil – free scroll air compressor unit specification table

Model	Motor output power		Rated pressure	Air displacement	Exhaust interface	Noise value
	kW	HP				
SAM-02A	2.2	3	8	250	1/2"	62±2
SAM-02B			10	215		
SAM-04A	3.7	5	8	410	1/2"	63±2
SAM-04B			10	355		
SAM-06A	5.5	8	8	570	3/4"	64±2
SAM-06B			10	490		
SAM-08A	3.7*2	10	8	820	1"	66±2
SAM-08B			10	710		
SAM-09A	3.7*1+5.5*1	12	8	980	1"	66±2
SAM-09B			10	845		
SAM-11A	5.5*2	15	8	1140	1"	68±2
SAM-11B			10	980		
SAM-12A	2.2*2+3.7*2	18	8	1070	1"	72±2
SAM-12B			10	925		
SAM-15A	3.7*4	20	8	1640	1"	72±2
SAM-15B			10	1420		
SAM-17A	5.5*3	22	8	1710	1"	74±2
SAM-17B			10	1470		
SAM-19A	5.5*3+2.2	25	8	1960	1"	74±2
SAM-19B			10	1685		
SAM-20A	5.5*3+3.7	27	8	2120	1-1/2"	74±2
SAM-20B			10	1825		
SAM-22A	5.5*4	30	8	2280	1-1/2"	74±2
SAM-22B			10	1960		

Oil less scroll air compressor design features:

- 1, air purity is high, oil content is very low.
- 2, equipped with intelligent color LCD control system, more optimized operation.
- 3, low noise, can be directly placed in the production workshop, almost no interference.
- 4, maintenance costs are low, no wearing parts, do routine maintenance, you can rest assured that use.
- 5, the operating costs are very low, you can save tens of thousands of dollars per year.



Oil less scroll air compressor specification table

Model	Motor output power		Rated pressure	Air displacement	Exhaust interface	Noise value
	kW	HP				
SAY-06A	5.5	8	6 ~ 10	770	3/4"	60±2
SAY-08A	7.5	10	6 ~ 10	1050	3/4"	60±2
SAY-11A	5.5*2	15	6 ~ 10	1540	1-1/2"	64±2
SAY-13A	5.5+7.5	18	6 ~ 10	1820	1-1/2"	66±2
SAY-15A	7.5*2	20	6 ~ 10	2100	1-1/2"	66±2
SAY-17A	5.5*3	22	6 ~ 10	2310	1-1/2"	67±2
SAY-19A	5.5*2+7.5*1	25	6 ~ 10	2590	1-1/2"	67±2
SAY-22A	7.5*3	30	6 ~ 10	3150	1-1/2"	68±2



The modular color LCD panel display is equipped with a high-performance microcomputer circuit board. The display will display the status of the digital display and various fault warning. Easy to understand and realize the best man-machine interface.

► application



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



Medical instruments (dental, oxygen and other medical sources)



Electronics industry (assembly, cleaning, gas)



Pharmaceutical industry (agitation of pharmaceutical industry)



Food industry (agitation of brewing industry)



Textile industry (air-jet looms)



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

► Service And Support



Vision:

Committed Hanbell being the world leading brand in fluid mechanical and electrical field!

Looking ahead, Hanbell group will develop the key compressor technology independently based

on the domestic market in Chian, take advantage of rich resources in Asia to improve competitive edge of the products in the overseas market and make great efforts to win customers, satisfaction with quality

products and the best service as the worldwide leading brand.