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无油涡旋式空气压缩机原理

Principle of oil-free scroll compressor



Intelligent manufacturing

"Industry 4.0"; "smart manufacturing" is the development trend of manufacturing. It is the combination of fluid mechanics and electrical control technology, which is the key to improve production efficiency, energy saving and environmental protection.

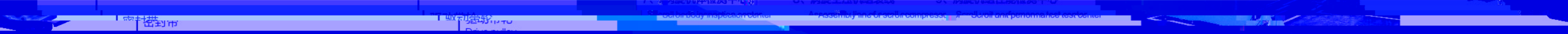


Intelligent manufacturing is the key to improve production efficiency, energy saving and environmental protection. It is the key to improve production efficiency, energy saving and environmental protection.

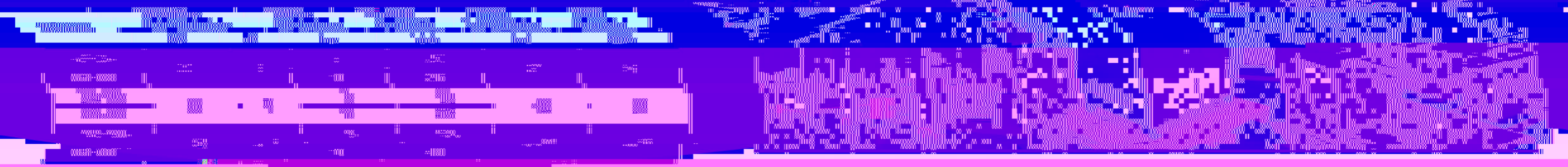
1、磨床加工机  
Grinding machine

2、车床加工机  
Lathe machine

3、三次元量床  
Coordinate measurement machine



无油涡旋式空气压缩机主要零件



# 强大的产品 为每一种汽车设计

Powerful products

Designed for every car

Small compressor compressor

精密制造

PRECISION MANUFACTURE

设施设计最佳化 超精密加工

Optimized facility design  
Ultra-precision processing

紧凑设计

COMPACT DESIGN



高容积效率

88%

高能效比

12000:1 WHP

超高性能

智能控制，循环运行时间 超短0.06秒。

Intelligent control, cycle start

超低成本

部件少，易维护，无易损零件。

Less parts, easy maintenance, no wear parts.



超低重量

LOW WEIGHT

降低运营成本，增加运行时间。

Reduces operating costs and  
increase runtimes.



超小体积

SMALL FOOTPRINT

充分利用有限的空间。

Make full use of limited space



超低噪音

LOW SOUND

确保安静的环境。

To ensure the comfort  
of the environment.



超高性能

智能控制，循环运行时间 超短0.06秒。

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超低成本

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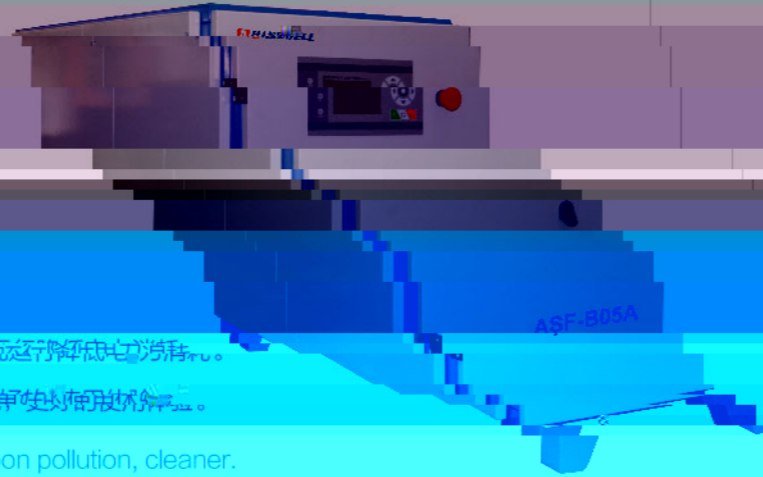
Less parts, easy maintenance, no wear parts.

### 无油涡旋压缩机设计特点:

#### Oil-free scroll unit 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、无需更换润滑油及油过滤器,无废油处理的问题,更环保。
- 4、工作时动静密封件不接触,磨损小,噪音更低。
- 5、运行速度低,噪音低,与传统的空压机相比更静音。
- 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,可实现连续运行降低电消耗。
- 8、搭载自主研发的变频驱动系统,可实现变频节能降耗。

- 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 seals do not touch, vibration is smaller.
- 5, operating costs are very low, you can save tens of thousands of dollars per 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.



### 微油涡旋压缩机设计特点:

#### Oil-less scroll air compressor design features:

- 1、空气纯度高,含油量极低。
- 2、搭载智能彩色液晶控制系统,运行更优化。
- 3、噪音低,可直接放置在生产车间中,几乎无干扰。
- 4、保养方便,易于易损件,维护更简单,使用更持久。
- 5、运行费用极低,每年可为您节省上万元的费用。

- 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 and repair are easy, 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.



### 微油涡旋压缩机规格表

#### Oil-less scroll air compressor specification table

### 无油涡旋压缩机规格表

#### Oil-free scroll air compressor specification table

型号 Model	额定功率 Motor output power kW / HP	额定气压 Rated pressure bar	空气流量 Air production L/min	排气接口 Exhaust interface inch	噪音值 Noise value dB(A)
ASF-B05A	0.37	5	100	1/2"	68±2
ASF-B05B	0.37	5	100	1/2"	68±2
ASF-B05A	0.37	8	140	1/2"	68±2
ASF-B05B	0.37	8	140	1/2"	68±2
ASF-B08A	0.55	8	170	3/4"	64±2
ASF-B08B	0.55	8	170	3/4"	64±2
*ASF-B10A	0.75	10	200	1"	66±2
ASF-B10B	0.75	10	200	1"	66±2
*ASF-B12A	0.97+0.93	12	230	1"	66±2
ASF-B12B	0.97+0.93	12	230	1"	66±2
ASF-B15A	1.5	15	280	1"	66±2
ASF-B15B	1.5	15	280	1"	66±2
ASF-B18A	2.2+1.3	18	300	1"	72±2
ASF-B18B	2.2+1.3	18	300	1"	72±2
ASF-B20A	3.7	20	350	1"	72±2
ASF-B20B	3.7	20	350	1"	72±2
ASF-B22A	5.5	22	400	1"	74±2
ASF-B22B	5.5	22	400	1"	74±2
*ASF-B25A	5.5	25	450	1"	74±2
ASF-B25B	5.5	25	450	1"	74±2
ASF-B27A	5.5	27	500	1-1/2"	74±2
ASF-B27B	5.5	27	500	1-1/2"	74±2
ASF-B30A	5.5	30	550	1-1/2"	74±2
ASF-B30B	5.5	30	550	1-1/2"	74±2

模组化彩屏显示器,配备高性能微机电板,显示屏上清晰显示运行的状态和各种故障预警。

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The modular color LCD panel display is equipped with a high-performance micro-electronics board, which can clearly display the operating status and various fault warnings on the display.

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