



HIGH SPEED SUS-  
PENSION BLOWER

高速悬浮风机

**Airhorse**<sup>®</sup>  
**艾玛压缩机**



广州艾玛压缩机有限公司  
GUANGZHOU AIRHORSE COMPRESSOR CO.,LTD



## 特点介绍

## FEATURES INTRODUCTION



艾玛高速悬浮风机通过叶轮叶片对气体做功。使气体压力升高，为客户输送压力气体。搭载了超高速直联电机、空气悬浮轴承、高精度离心式叶轮三大核心高端科技，为客户打造高效率、高性能、低噪音、低能耗高端产品。

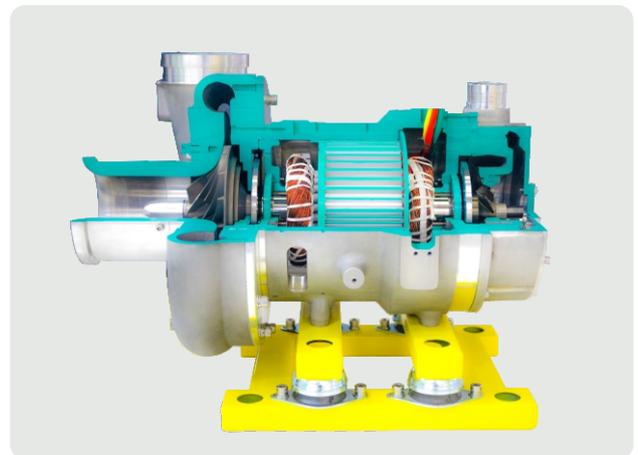
Airhorse High speed suspension Blower do work on the air through the impeller blades. Increase the air pressure and deliver pressurized air. Equipped with three core high-end technologies: ultra-high-speed direct-connected motors, air suspension bearings, and high-precision centrifugal impellers, it creates high-end products with high efficiency, high performance, low noise and low energy consumption for customers.

### 超高的永磁核心技术

### ULTRA-HIGH PERMANENT MAGNET CORE TECHNOLOGY

永磁同步电机具有95%以上的高效率。

Permanent magnet synchronous motor has a high efficiency of more than 95%.



# 高速悬浮风机 HIGH SPEED SUSPENSION BLOWER

## 无油空气悬浮轴承

### OIL-FREE AIR SUSPENSION BEARINGS

主要包括径向轴承及止推轴承等部件。运行时回转轴和轴承之间没有物理接触点，所以无需润滑油，能量损耗极低。

Mainly include radial bearings and thrust bearings and other components. There is no physical contact point between the rotating shaft and the bearing during operation, so no lubricating oil is needed, and the energy loss is extremely low.



## 独创电机风冷却技术

### ORIGINAL MOTOR AIR COOLING TECHNOLOGY

采用两段冷却构造系统冷却效果更加稳定，1段在电机内部进行冷却，2段在电机的件和定子进行有效冷却。不需要附空气轴承组属冷却电机设备(外部连接的强制冷却风扇等。)

The cooling effect of the two-stage cooling structure system is more stable. One stage is used for cooling inside the motor, and the second stage is for effective cooling of the parts and stator of the motor. No need to attach air bearing assembly to cooling motor equipment (externally connected forced cooling fan, etc.)

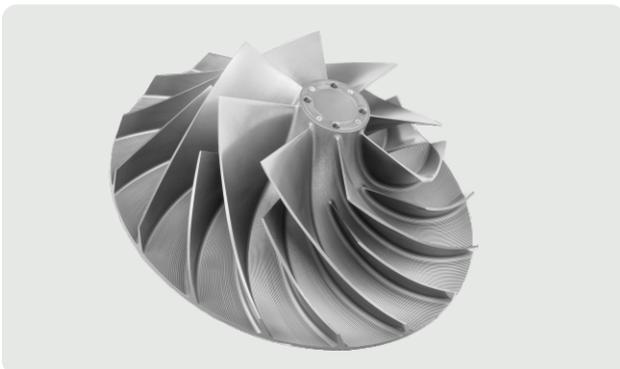


## 航空铝合金叶轮

### AVIATION ALUMINUM ALLOY IMPELLER

采用高强度航空铝合金叶轮。设计精密度可达到0.001mm保证运行高效率，同时具有优秀的耐磨、抗变形能力。

Adopts high-strength aviation aluminum alloy impeller. The design precision can reach 0.001mm to ensure high operation efficiency, and at the same time have excellent wear resistance and deformation resistance.



## 二级压缩技术

### TWO-STAGE COMPRESSION TECHNOLOGY

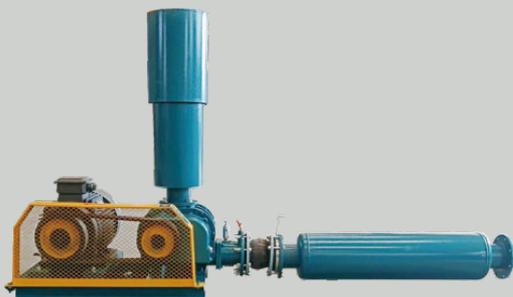
1.2kg以下压力采用1级空气压缩技术，1.2~4kg压力采用2级空气悬浮轴承压缩技术，具有较高效率。

The pressure below 1.2kg adopts the first-stage air compression technology, and the pressure of 1.2~4kg adopts the second-stage air suspension bearing compression technology, which has higher efficiency.



### 罗茨风机

Roots Blower  
(30HP)



### 高速悬浮风机

High speed suspension Blower  
(AHPL50-06)



## 优秀的节能表现

## EXCELLENT ENERGY SAVING PERFORMANCE

年节省费用约¥199788元 / ANNUAL COST SAVING IS ABOUT ¥199788 YUAN

品牌 Brand	HFD	艾玛 Airhorse
风机名称和型号 Model	罗茨风机 Roots Blower (30HP)	高速悬浮风机 High speed suspension Blower (AHPL50-06)
风机台数 Quantity	3	1
出口压力 Outlet Pressure (KPA)	62.4	60
风量 Air Flow (m <sup>3</sup> /min)	9.07*3	26.34
电机功率 Motor Power (KW)	22*3	37
运行功率 Running Power (KW)	66	29
年总耗电量(KW·H)(8400小时/年) Power Consumption Per Year(KW·H)(8400 Hours/Year)	554400	243600
年总电费(元)(0.61元/KW·H) Year Total Electricity Bill (Yuan)(0.61Yuan/KW·H)	338184	148596
年维护保养费用(元) Annual Maintenance Cost (Yuan)	4000*3	1800*1
年运营费用(元) Annual Operating Expenses (Yuan)	350184	150396
年节省费用(元) Annual Savings (Yuan)	-----	199788
投资回报月数 Months of Return On	-----	12

# 磁悬浮风机技术参数

# MAGNETIC SUSPENSION BLOWER TECHNICAL PARAMETERS

型号 Model	类型 Type	电机功率 Motor Power (HP)		压力 Pressure (Bar)	流量 Air Flow (m <sup>3</sup> /min)	出口管径 Air Outlet Diameter (DN)	尺寸 / Size L×W×H (mm)	重量 Weight (kg)		
AHCPL30-04	SINGLE IMPELLER 单叶轮	30	22	0.4	28	150	850 × 1750 × 1640	735		
AHCPL30-06				0.6	20					
AHCPL30-08				0.8	17					
AHCPL50-04		50	37	0.4	48	150			850 × 1750 × 1640	735
AHCPL50-06				0.6	34					
AHCPL50-08				0.8	28					
AHCPL50-10				1	22					
AHCPL50-12				1.2	19					
AHCPL75-04		75	55	0.4	75	200	950 × 1830 × 1740	967		
AHCPL75-06				0.6	51					
AHCPL75-08				0.8	42					
AHCPL75-10				1	33					
AHCPL75-12				1.2	29					
AHCPL100-04		100	75	0.4	100	200			950 × 1830 × 1740	967
AHCPL100-06				0.6	70					
AHCPL100-08				0.8	55					
AHCPL100-10				1	45					
AHCPL100-12				1.2	40					
AHCPL125-04		125	95	0.4	125	250		1100 × 1950 × 1870		
AHCPL125-06				0.6	82					
AHCPL125-08				0.8	70					
AHCPL125-10				1	58					
AHCPL125-12				1.2	50					
AHCPL150-04		150	110	0.4	150	250	1100 × 1950 × 1870			1250
AHCPL150-06	0.6			105						
AHCPL150-08	0.8			84						
AHCPL150-10	1			66						
AHCPL150-12	1.2			53						
AHCPL200-04	SINGLE IMPELLER 单叶轮	200	150	0.4	200	300			1250 × 2350 × 2160	
AHCPL200-06				0.6	140					
AHCPL200-08				0.8	110					
AHCPL200-10				1	90					
AHCPL200-12				1.2	80					
AHCPL200-20				2	60					
AHCPL250-04	SINGLE IMPELLER 单叶轮	250	185	0.4	245	500		1305 × 2380 × 2580	1450	
AHCPL250-06				0.6	160	400				
AHCPL250-08				0.8	135					
AHCPL250-10				1	105					
AHCPL250-12				1.2	98					
AHCPL300-04	SINGLE IMPELLER 单叶轮	300	220	0.4	290		400			1305 × 2380 × 2580
AHCPL300-06				0.6	190					
AHCPL300-08				0.8	146					
AHCPL300-10				1	124					
AHCPL300-12				1.2	110					
AHCPL400-04	DOUBLE IMPELLER 双叶轮	400	300	0.4	400	400	1305 × 2480 × 2670	1800		
AHCPL400-06				0.6	260					
AHCPL400-08				0.8	200					
AHCPL400-10				1	170					
AHCPL400-12				1.2	150					
AHCPL450-04		450	350	0.4	450	500	2000 × 2630 × 3310		1800	
AHCPL450-06				0.6	303					
AHCPL450-08				0.8	233					
AHCPL450-10				1	198					
AHCPL450-12				1.2	175					

# 空气悬浮风机技术参数

# AIR SUSPENSION BLOWER TECHNICAL PARAMETERS

型号 Model	类型 Type	电机功率 Motor Power (HP) (KW)		压力 Pressure (kbar)	流量 Air Flow (m³/min)	出口管径 Air Outlet Diameter (DN)	尺寸 / Size L×W×H (mm)	重量 Weight (kg)				
AHPL10-04	SINGLE IMPELLER 单叶轮	10	7.5	40	10	150	1770*760*1590	350				
AHPL10-06				60	7							
AHPL10-08				80	5							
AHPL20-04		20	15	40	20			200	1600*860*1590	410		
AHPL20-06				60	14							
AHPL20-08				80	11							
AHPL30-04		30	22	40	28					250	1950*1000*1920	450
AHPL30-06				60	20							
AHPL30-08				80	17							
AHPL50-04		50	37	40	48	300	2050*1100*1920					530
AHPL50-06				60	34							
AHPL50-08				80	28							
AHPL50-10				100	22							
AHPL50-12				120	19							
AHPL75-04		75	55	40	75			350				720
AHPL75-06				60	51							
AHPL75-08				80	42							
AHPL75-10				100	33							
AHPL75-12				120	29							
AHPL100-04		100	75	40	100					400		
AHPL100-06	60			70								
AHPL100-08	80			55								
AHPL100-10	100			45								
AHPL100-12	120			40								
AHPL125-04	125	95	40	125	450		895					
AHPL125-06			60	82								
AHPL125-08			80	70								
AHPL125-10			100	58								
AHPL125-12			120	50								
AHPL150-04	150	110	40	150			500		974			
AHPL150-06			60	105								
AHPL150-08			80	84								
AHPL150-10			100	66								
AHPL150-12			120	58								
AHPL200-04	200	150	40	200					600		1045	
AHPL200-06			60	140								
AHPL200-08			80	110								
AHPL200-10			100	90								
AHPL200-12			120	80								

空气悬浮风机技术参数

AIR SUSPENSION BLOWER  
TECHNICAL PARAMETERS

型号 Model	类型 Type	电机功率 Motor Power (HP) (KW)		压力 Pressure (kbar)	流量 Air Flow (m <sup>3</sup> /min)	出口管径 Air Outlet Diameter (DN)	尺寸 / Size L×W×H (mm)	重量 Weight (kg)
AHPL250-04	SINGLE IMPELLER 单叶轮	250	185	40	245	300	2050*1100*1920	1080
AHPL250-06				60	160			
AHPL250-08				80	135			
AHPL250-10				100	105			
AHPL250-12				120	98			
AHPL300-04	DOUBLE IMPELLER 双叶轮	300	220	40	290	400	2600*1226*2660	1600
AHPL300-06				60	190			
AHPL300-08				80	146			
AHPL300-10				100	124			
AHPL300-12				120	110			
AHPL400-04	400	300	300	40	400	500		
AHPL400-06				60	272			
AHPL400-08				80	216			
AHPL400-10				100	185			
AHPL400-12				120	160			

应用领域

APPLICATION FIELD

广泛应用于原材料加压输送、食品及药品处理工程、金属处理工程、火力发电、污水、废水处理工程、水泥行业、化工行业、半导体行业、酿造行业、生物制药行业、发酵行业、造纸行业、纺织印刷行业等。

Widely used in raw material pressure transportation, food and drug treatment engineering, metal treatment engineering, thermal power generation, sewage, wastewater treatment engineering, cement industry, chemical industry, semiconductor industry, brewing industry, biopharmaceutical industry, fermentation industry, paper industry, textile Printing industry, etc.





艾玛压缩机在国内具有较完善的经销商服务体系及5个公司直属售后服务办事处，海外40多个国家分布约130家经销商。可有效对接客户及国内外各种订单，并提供及时有效的售后服务。

AirHorse Compressor has a complete dealer service system in China and 5 after-sales service offices directly under the headquarters, and we have about 130 dealers in more than 40 countries overseas. It can effectively provide service for our customers and process various orders in China and abroad market, we will provide timely and effective after-sales service for you.

**AirHorse® 艾玛**

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销售热线

Sales Hotline

**400-874-9090**



售后热线

After-Sales Hotline

**400-894-7070**



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