



# THE PM VFD COMMERCIAL CEILING FAN

永磁变频商用吊扇

清凉宛置丛林  
AS IN A COOL JUNGLE



福建華大電機有限公司  
FUJIAN HUADA ELECTRIC CO., LTD.







变频调速  
Variable  
speed



高效节能  
Energy  
efficient



立体自然风  
Natural  
wind



智能控制  
Intelligent  
control



噪音低  
Low  
noise



结构紧凑  
Compact  
structure

华大 HDS 系列永磁变频商用吊扇是专门为改善环境舒适度而研发的产品。采用自主设计的变频调速、高效节能永磁外转子同步电机。具有噪音低、体积小、重量轻、结构紧凑、外形美观等优点。

Huada HDS series the PM VFD commercial ceiling fan is a new product specially developed for improving the comfort of working environment. Self-designed variable frequency speed control, high efficiency and energy saving permanent magnet external rotor motor drive. It has the advantages of low noise, small volume, light weight, compact structure and beautiful appearance.



HDS Series

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永磁变频商用吊扇

广泛应用于商场、餐厅、健身中心、工业厂房、物流仓储、候车室、展览馆、体育馆、等高大空间场所，作为空间通风，人员降温的一种新型节能风扇。它可以推射大量气流，形成一定空间的运动气流 从而促成了整体空气循环；酷似大自然的微风系统，享受自然风的亲切体验。

Widely used in shopping malls, restaurants, fitness centers, industrial factory, logistics warehousing, waiting room, exhibition hall, physical education hall and other large space places, as a new type of energy-saving fan space ventilation, personnel cooling. It can push a large amount of airflow to the ground, forming a certain height of the moving airflow layer, thus contributing to the overall air circulation; Like the natural breeze system, enjoy the intimate experience of natural wind.



商场超市  
Shopping Malls



餐厅  
Restaurants



健身中心  
Fitness Centers



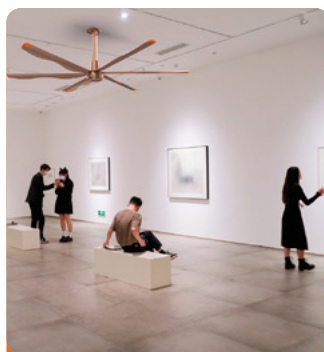
工业厂房  
Industrial Plants



物流仓储  
Logistics and Storage



候车室  
Waiting Rooms



展览馆  
Exhibition Halls



体育馆  
Gymnasiums





**38dB**

超静音节能舒适

ULTRA SILENT ENERGY SAVING COMFORT





# NATURAL THREE-DIMENSIONAL AIR SUPPLY ENHANCE HUMAN COMFORT

自然立体送风，提升人体舒适度



**2.4~3.7m**

叶片直径  
Blade diameter



**1m~4.5m/s**

风速范围任意调节  
Wind speed range



**330m<sup>2</sup>**

最大有效覆盖面积  
Maximum effective  
coverage area

HDS 系列永磁变频商用吊扇独特的机翼型设计叶片直径 2.4~3.7m，采用空气动力学原理和先进工艺制造的机翼型扇叶，通过强大的空气搅动力形成的循环气流场，产生酷似大自然的微风系统，人体将会感受到来自四面八方的立体风，增大汗液蒸发面积，提升舒适度。同时避免使用传统高速风扇常年在定向风下，造成人体的各种健康问题，极大改善环境舒适度。HDS 系列风扇可结合不同场合实际需求调节风量，风速在 1m-4.5m/s 范围内可任意调节。在开阔的空间，一台商用节能风扇有效覆盖面积最大可达 330m<sup>2</sup>。

HDS series the PM VFD commercial ceiling fan unique wing design, straight blade diameter from 2.4~3.7m, adopting the principle of aerodynamics and advanced technology manufacturing blades wing, formed by strong air agitation ability of circulation flow field, produce like the breeze system of nature, the body will feel three-dimensional wind from all directions, increased sweat evaporation area, increase your comfort level.

At the same time avoid the use of traditional high-speed fan in the direction of the wind all year round, causing a variety of human health problems, greatly improve the comfort of the environment. HDS series fans can be combined with the actual needs of different occasions to adjust the wind volume, the wind speed in the range of 1m-4.5m/s can be arbitrarily adjusted. In the open space, an commercial energy-saving fan can cover a maximum area of 330m<sup>2</sup>.

## 永磁同步电机 PERMANENT MAGNET SYNCHRONOUS MOTOR

### 特性:

- 转子无铜耗
- 效率高 精度高
- 功率因数大
- 改善电网环境
- 调频宽 (0~200HZ)
- 体积小、重量轻
- 节能高效 (省电)

### FEATURES:

- Without rotor losses
- High efficiency and precision
- Large power factor
- Improve grid operating environment.
- Frequency modulation width (0~200HZ)
- Small size and light weight
- Saving energy and high efficient



## 机翼型扇叶 + 节能尾翼 STREAMLINED FAN BLADE + ENERGY SAVING TAIL

### 扇叶:

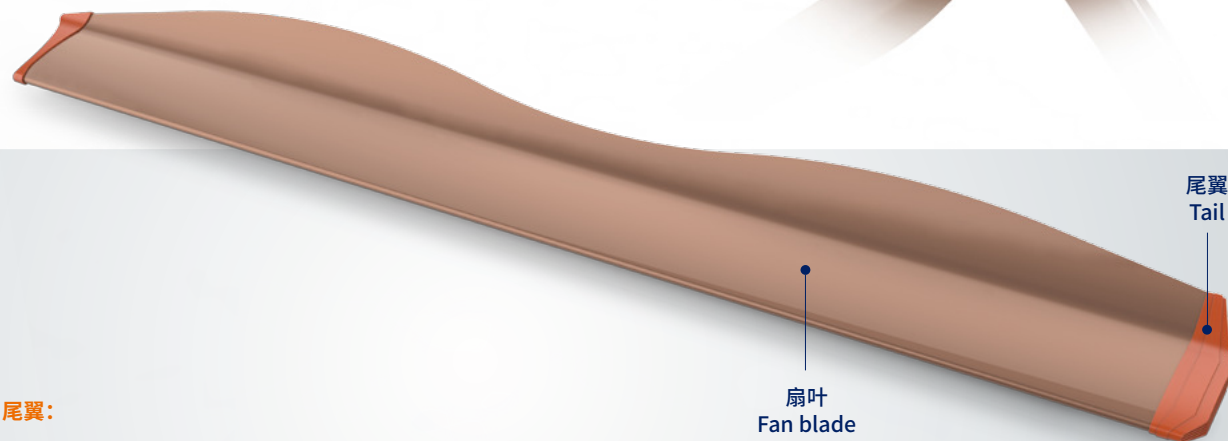
采用铝镁合金挤压拉伸成型，机翼型内加筋结构，具有强度高、韧性好、重量轻、寿命长、使用安全等优点。扇叶表面则经过 T5+ 表面光亮氧化处理，增强了扇叶的抗腐蚀抗氧化性，能够应对特殊环境作业。

### FAN BLADE:

It is made of aluminum and magnesium alloy extruded and stretched, and has the advantages of high strength, good toughness, light weight, long life and safe operation. The fan blade surface is treated with T5+ bright surface oxidation treatment, which enhances the corrosion and oxidation resistance of the fan blade and can cope with special environmental operations.

## 可选配 LED 照明灯 OPTIONAL LED LIGHTING

在需要照明的使用环境中，风扇还可以选配 LED 照明灯使用。  
In the environment where lighting is required, the fan can also be used with optional LED lighting.



### 尾翼:

采用耐高温材质成型，使得产品结构更加美观，当扇叶运转时，空气会在机翼型扇叶末端产生涡流，尾翼可以消除这部分能量损失，稳定风扇运转，使空气的流动更加符合空气动力学原理。

### TAIL:

When the fan blade is running, the air will generate vortex at the end of the aerofoil fan blade. The tail wing can eliminate this part of energy loss, stabilize the fan operation, and make the air flow more consistent with the aerodynamic principle.

机翼型内加筋结构  
Airfoil Internal Reinforcement Structure

智能控制系统 SMART CONTROL SYSTEM

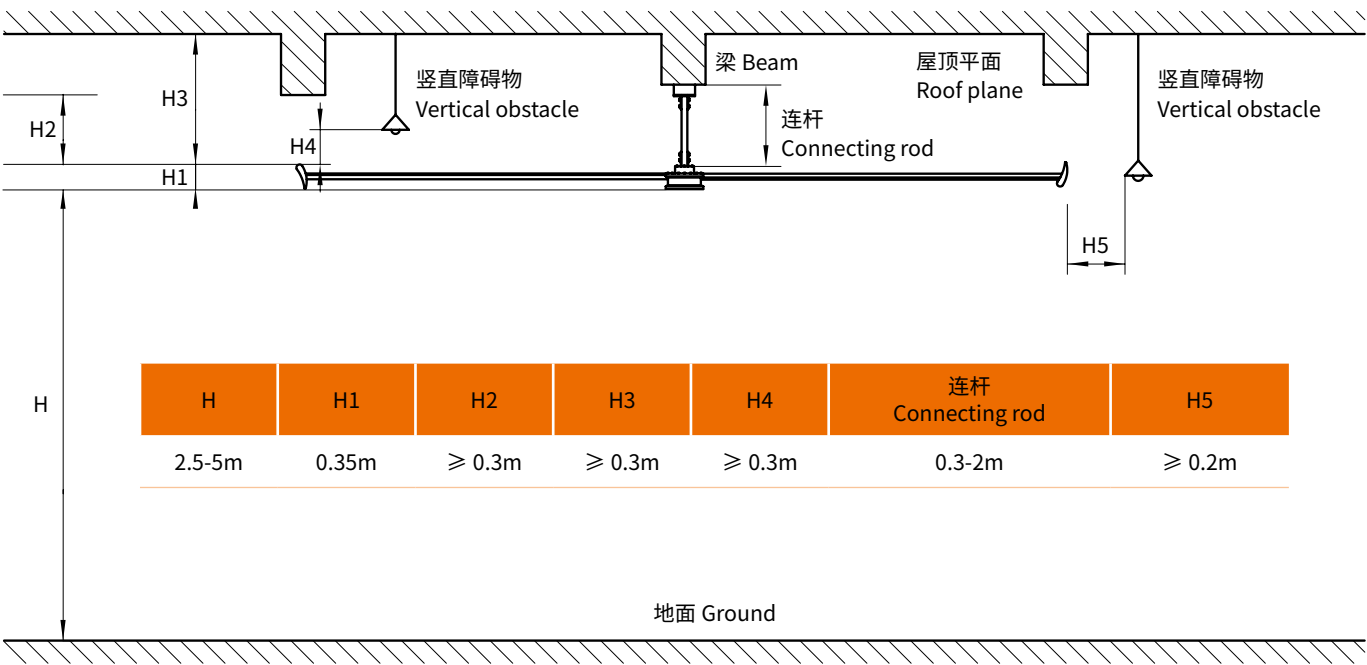
- 系统为无位置正弦波矢量控制，防电磁干扰、防辐射、体积小、重量轻、外观精美。
- 系统功能简单，4 键操作易懂（开机、停机、加速、减速）。
- 系统自带过压、欠压、失压调节，电流、缺相、过载、碰撞、过热、雷击、异常等保护。
- The system is no position vector control, anti - electromagnetic interference, anti - radiation, small size, light weight, beautiful appearance.
- System function is simple, 4 buttons easy to operation (start, stop, speed up, slow down).
- System with overvoltage, undervoltage, voltage loss regulation, current, lack of phase, overload, collision, overheating, lightning, abnormal protection.



技术参数 TECHNICAL DATA

型号 Model	直径 Diameter		电源电压 Voltage (v)	电源频率 Frequency (Hz)	功率 Power (w)	转速 Rotating Speed (rpm)	风速 Air speed (m/s)	风量 Airflow (m³/min)	防护等级 Weight (kg)	噪音 Noise (dB)	覆盖面积 Coverage area (m²)	电机重量 Motor weight (kg)	叶片数量 Number of leaves (Pcs)
	m	ft											
HDS-240D-32	2.4	8	220/380	50/60	300	160	1-4.5	2600	IP55	38	140	15	6
HDS-300D-32	3	10	220/380	50/60	300	105	1-3.5	3300	IP55	38	210	15	6
HDS-370D-32	3.7	12	220/380	50/60	300	65	1-3	4000	IP55	38	330	15	6

安装数据 INSTALLATION DATA





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