Metal Editions (Pvt) Ltd.
Automated Entrance Solutions - Complete Docking System

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Plot # 14 - Sector 23, Korangi Industrial Area, Karachi, P.O. 74900 Pakistan
Tel: (+92 21)-35121277-35121278 Email: info@metaleditions.com

Goodbye! Noise!
Goodbye!Gearbox!
Goodbye!Maintenance!
Goodbye! Low Efficiency!
Goodbye!Heavy weight&LargeVolume!

Kale Environmental Technology (Shanghai) Corporation.
Add: Building B, No.420, chundong road, minhang district, Shanghai
Web：www.kalefans.net
Tel：+86-18917165730
EMail：guding@kalefans.com

KALE FANS

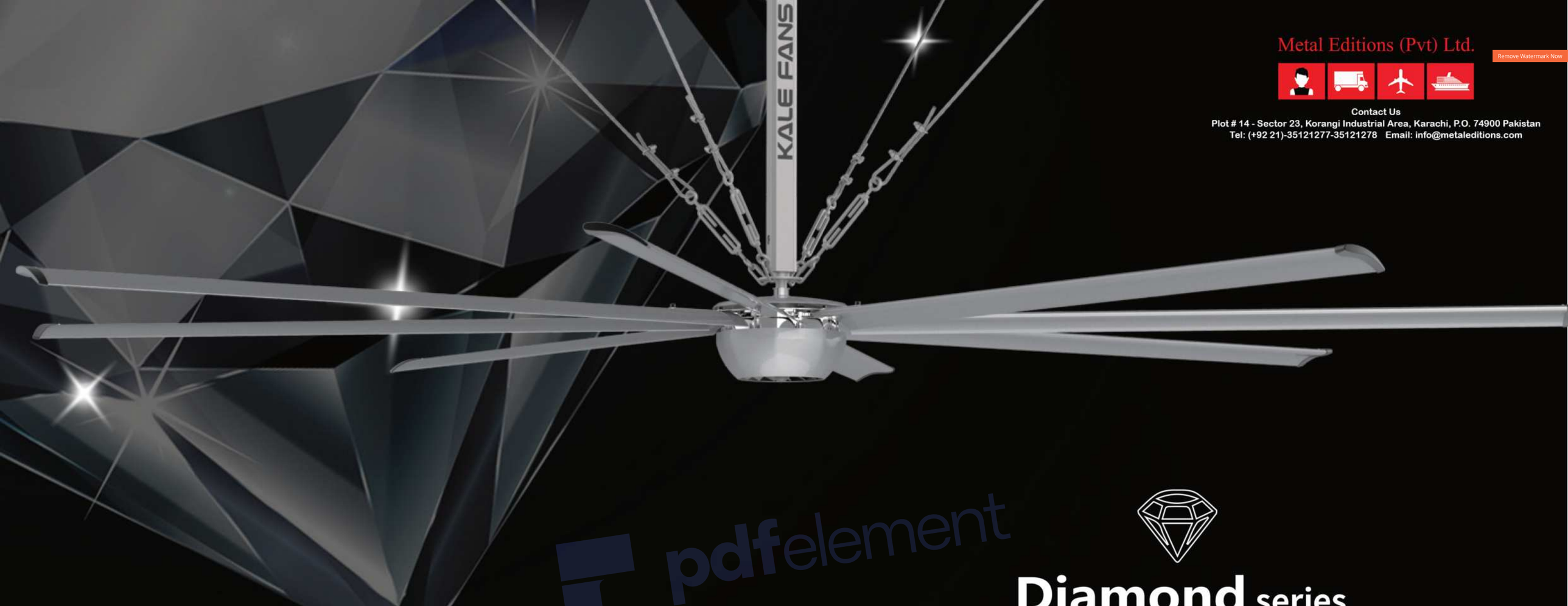


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Diamond series

The 2nd Revolution of HVLS

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Diamond

Beauty

Diamond series

Design Concept

The overall design of Diamond Series is a graded shape from octagon to circle, which complete perfectly transition from fan blade to bottom circle. The edge is designed extremely stylish & luxurious, also shows modern sense with fluorocarbon paint technology.

The design, seperating the upper cover from the bottom cover, hiding the joint between fan blade and main body, makes the overall shape complete and well-bedded. Fan winglet design is inpired by meteor. While fan is running, the tail will draw streaks of curves, like beautiful meteor.

What can clients get from KALE R&D group?

KALE group always invents for the future:

"Adopt PMSM, get rid of gearbox completely"

Higher efficiency of PMSM motor: 25% higher efficient than traditional AC asynchronism motor, really super efficient fan.

Lower noise standard: eliminate the noises from asynchronism motor & gearbox, 10DB lower noise standard than the traditional, that's a amazing noise level.

Free maintenance: no use of gearbox any longer, and no more need to change lubricating oil, then reduce the cost greatly.

Small size & less weight: with PMSM motor, allow our group to design more beautiful, lighter & smaller fans which are 40KG lighter than the traditional ones, reduce buildings' load-bearing, and apply to lower height condition.



"Always adopt the best components & technique!"

Guaranteed quality, longevity & safety: COST DOWN? Quality ? KALE always choose the latter. Our goal is to keep the fans operate steadily in hostile environment long-term, and ensure achieve trouble-free industrial product standard with 24-hour run all year round. So in order to guarantee safety, we adopt top-level high strength rare earth magnets, SKF bearings, forged steel, oxygen-free copper wire etc.

These almost harsh configurations are concluded by repeated experiments, which is absolutely worthwhile.



"Do the best fan design around the world!"

With powerful & impressive design, KALE FAN is not noly a functional product but also a work of art to enhance space taste. Meanwhile, every user will have a deep impression of its features of energy-saving and pro-environment.

Our design group has added many humanized options for users. For example, we can customize fan color to meet user' s architectural style. Of course, we also can add LED lights and so on.

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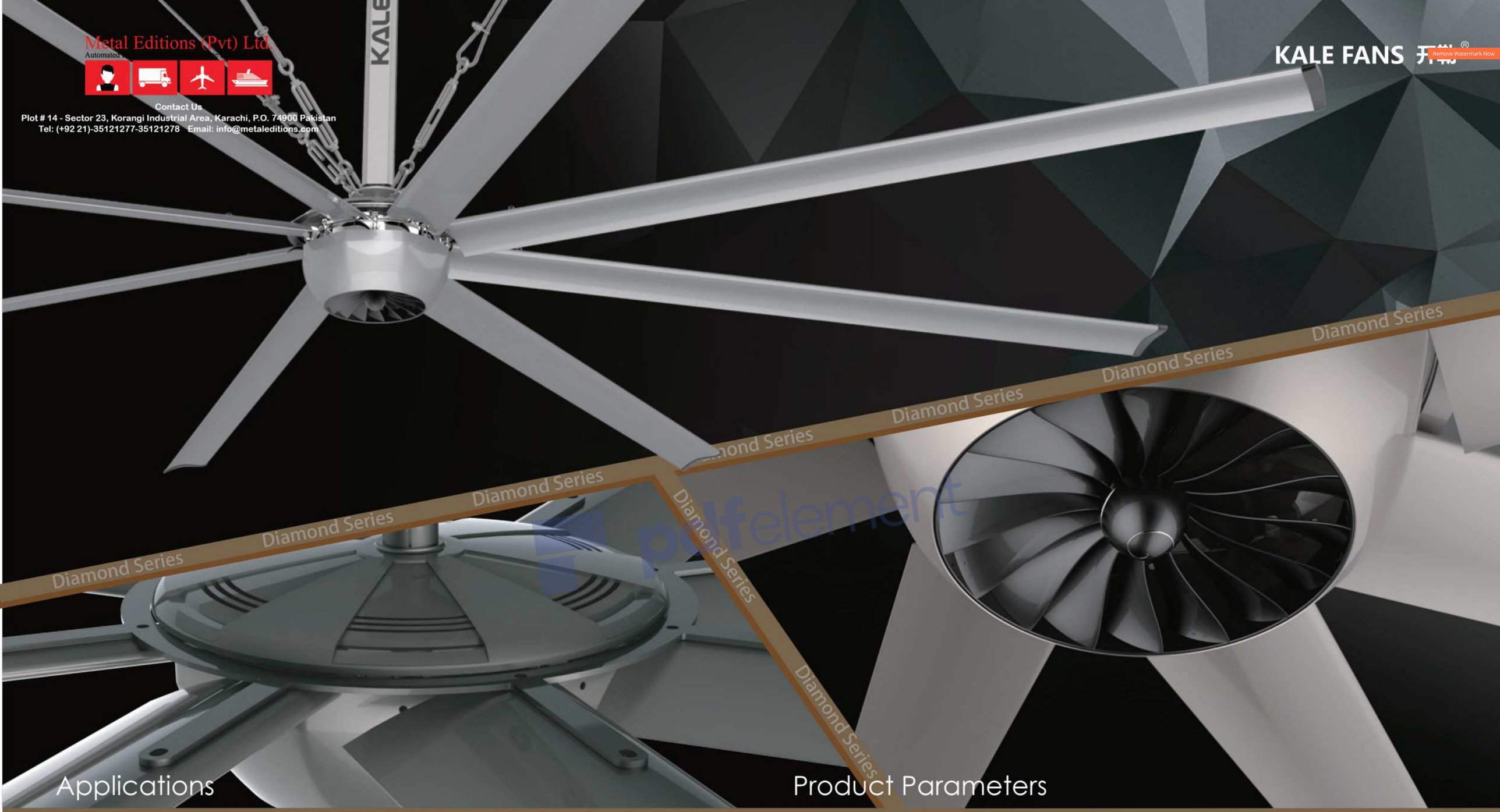
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Elegant appearance, Top configuration! ! !

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Applications

Sports Industry: fitness center, gym, athletic training stadium.

Recreation and Entertainment: large amusement park , zoos & arboretums, children's playground.

Traffic Hub: airport, high-speed railway station, bus station, metro station, wharf.

Commercial Places: exhibition center, 4S shops, auto showroom, large terminal market, supermarket.

Others: atrium, villa, restaurant, museum, outdoor activities.

Product Parameters

Model	SHVLS-D8BAA24	SHVLS-D8BAA30	SHVLS-D8BAA36	SHVLS-D8BAA42
Diameter	2.4m (8ft)	3.0m (10ft)	3.6m (12ft)	4.2m (14ft)
Max Speed	120RPM	100RPM	90RPM	80RPM
Weight	31Kg	35Kg	38Kg	41Kg
Power	0.15kW	0.2kW	0.3kW	0.4kW
Air Volume	**4550m³/min**	**5530m³/min**	**6560m³/min**	**7550m³/min**
Input Voltage	220V/1P	220V/1P	220V/1P	220V/1P
Full-load Current	0.9A	1.3A	1.5A	1.8A
Noise Level	41dB(A)	40dB(A)	39dB(A)	39dB(A)

World Latest PMSM Tech, Larger Air Volume, More Comfortable Feeling

- air volume as large as 7550 m³/min
- Demensional natural breeze
- Air circulation in high space
- Reduce soot
- Moisture reduction
- 1-3.5m/s stepless speed
- 4-7℃ body cooling
- Comfortable feeling
- Odour removal
- Mix hot & cold air

Technical advantage

Adopt HVLS most advanced PMSM motor:



Compared with traditional brush motor & AC motor, PMSM (Permanent Magnet Synchronous Motor) has lots of nice advantages, such as dynamic, highly efficient, long-life, low noise, and wide rang of speeds, especially the feature of power output of unit volume can make the fan be used to those places with strict requirements of size & weight. Thus these excellent features make our fans have a wide range of applications, such as in industrial control field, auto industry and aerospace.

KALE new fan adopts PMSM tech developed indepedently, which is the most advanced solution so far. KALE has mastered world-advanced PMSM key tech already.

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GREEN power
Energy -saving

You must have great interest in how efficinet KALE FANS is!

KALE Diamond Series fan saves more than 30% than the same size HVLS fan.

About conversion rate from electric energy to kinetic energy, KALE PMSM motor is 84%, while HVLS motor is only 53%, because HVLS adopts gear technology and multiple gears which leads to large loss in energy transmission.

Compared with small fans, KALE FANS' energy-saving effect is remarkable. A set of 4.2m diameter Diamond Series KALE FANS with only 0.4KW power can cover an area approximately equal to the area 15 sets of 0.75m diameter small fans with 0.36KW cover. For instance, in a 2000 sqm area, in order to cover the entire space, about 70 sets small fans are needed, while only 5 sets Diamond Series KALE FANS. We assume that these fans are used for 4 years, 8 months per year and 10 hrs per day, then totally running 10,000hrs. KALE FANS cost 20,000Kw·h, while small fans 252,000Kw·h. From that we can see obviously KALE FANS saves 232,000Kw·h, more than 92% than small fans.

Safe

Spare no expense to ensure safety!

KALE FANS adopts multiple safety technical supports in every structure.

Interconnected seperate connecting pieces, ensure safety of connection;

Fan blade retainers , ensure fan blade's safety while running;

Metal fatigue tests, ensure long-term safe & stable.

Super quiet

Low Noise Depend on Quality!

PMSM professional low noise. It's first time to define the noise standard of large fan in 45dB in the world.

Noise Source	SHVLS	HVLS
electromagnetic noise(dB)	36	46
drive noise(dB)	20	48
air flow noise(dB)	35	37
total (dB)	41	50.3

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Light

Less weight is to lower sturc-ture's bearings!

KALE FANS lowers space requirements and structure's bearings.

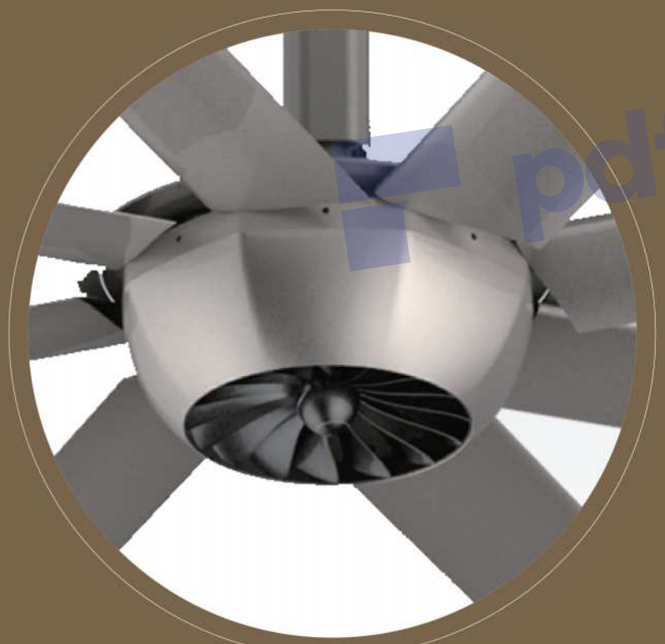
KALE FANS' main motor is only 0.3m high, so can be used in more than 0.5m high space. Meanwhile, the fan' s whole weight is less 40KG, reducing the load-bearing.

Simple, Fashionable and Bright!

Combined fashion and industrial essence perfectly.

Diamond cutting design, beautiful & elegant overall.

Elegant



Free -maintenance

Don't need to worry about maintenance!

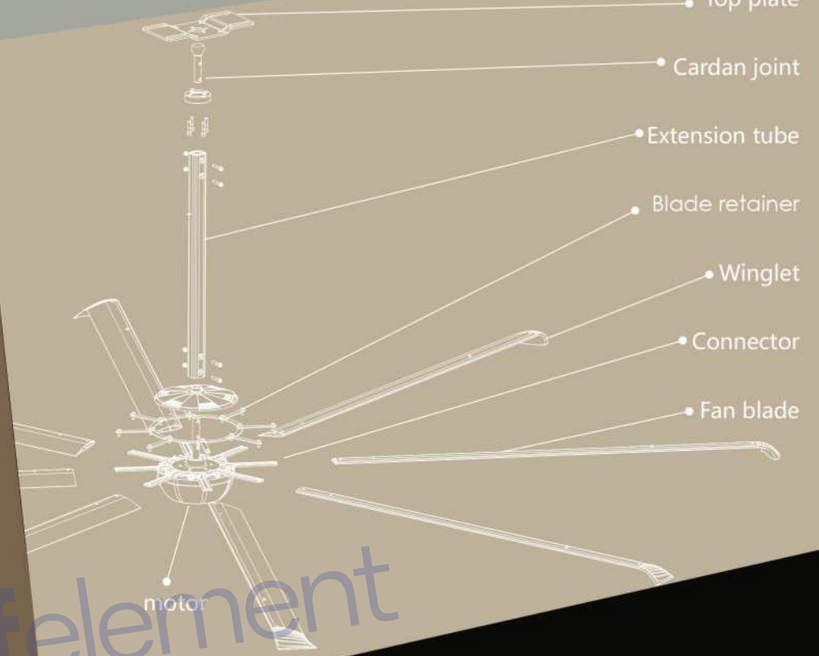
There is no need to do maintenance regularly. Because KALE FANS adopts PMSM motor, electromagnetic interaction, bearing transmis-sion, which are the big differences compared with gearbox drive.

Installation

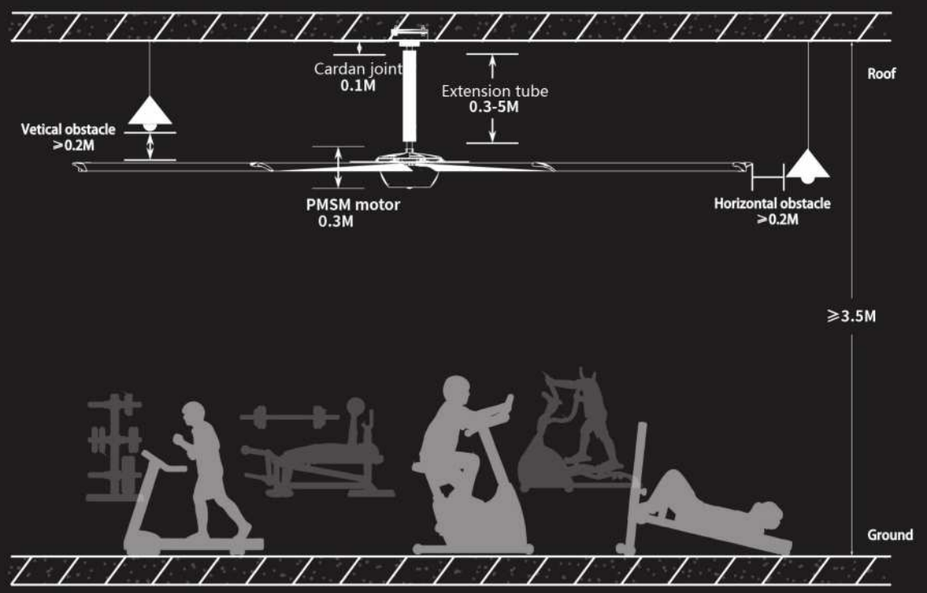
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Cases

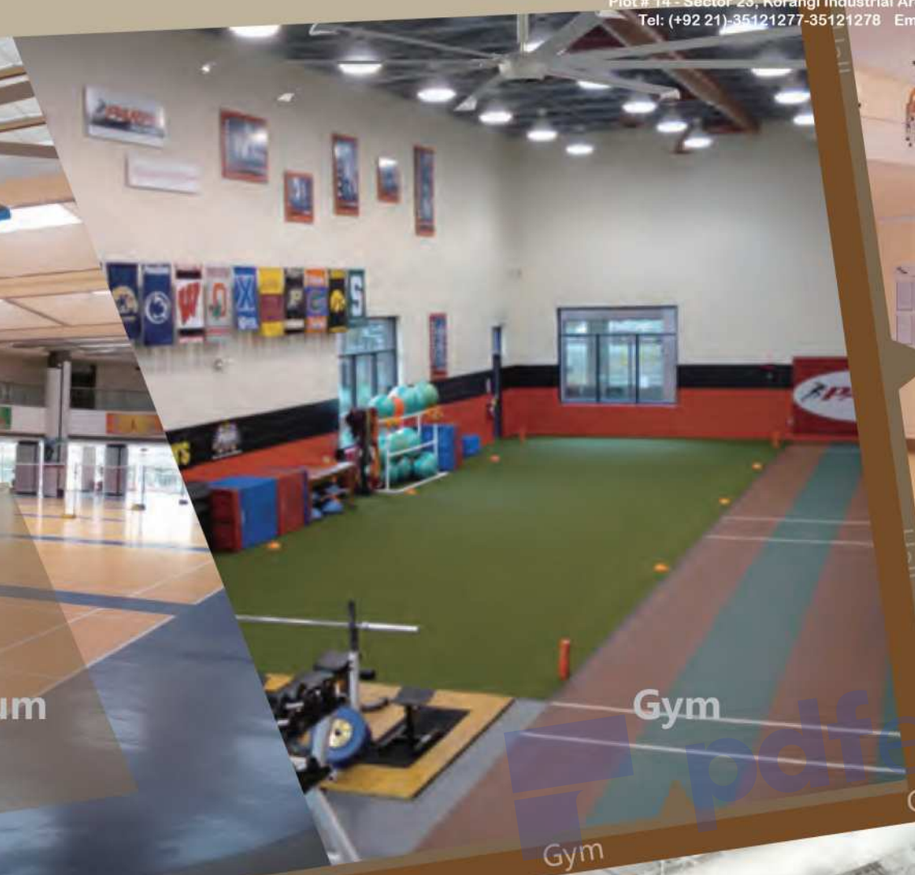
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Indoor Stadium



Gym



Hall



Hall

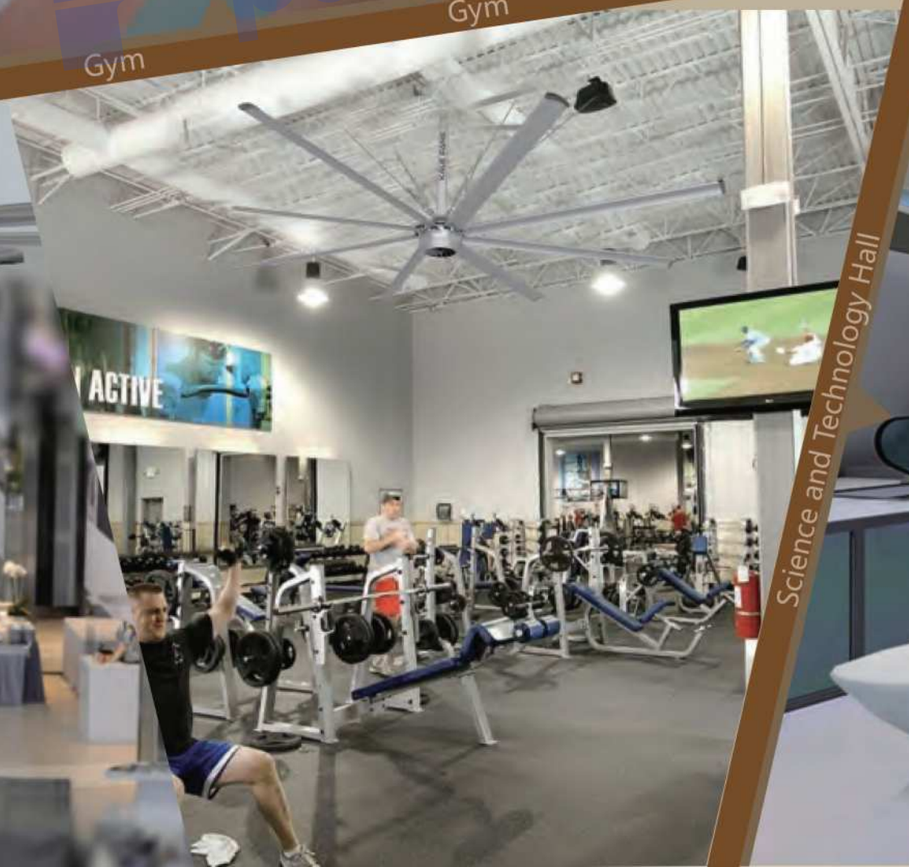
Airport

Gym

Hall

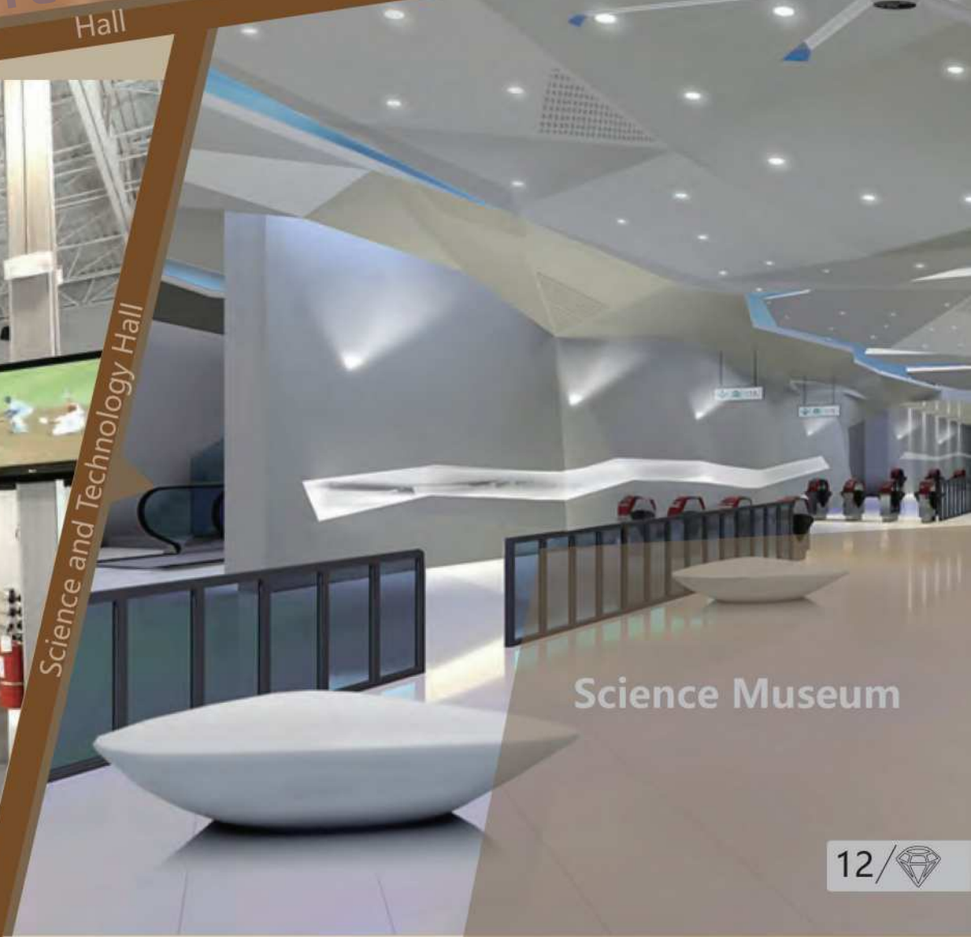


Airport



Gym

Science and Technology Hall



Science Museum

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Guaranteed Quality

Our confidence in our products comes from its quality. We took the lead in conforming to ISO9001: 2008 quality system certification standard in the industry. It' s strict production, quality assurance management system and world-class quality products & components & raw materials that ensure our product more than 15 years lifetime.

We have an efficient and professional service team, providing users with perfect services.

Kale Environmental Technology (Shanghai) Corporation can provide:

Product Service System

High Tech Enterprise

Certification Reporting System

Intellectual property system

Global Sales & Service Network



Company Profile

Kale Environmental Technology (Shanghai) Corporation is a high-tech enterprise specializing in environment solution of high & large space. Our company originated the large energy-saving fan in domestic, and is leading the development of the industry. In recent years, our company invests continually to develop and innovate. At present, our latest product has achieved a great success after its debut in international market and have opened several new applications. Meanwhile, we have expanded the single product to a new industry, laying a firm foundation for the leading role in the industry. Till now, we have acquired over 30 utility model patents, 2 independent invention patents. And KALE FANS has been identified as the special expertise of new enterprises, high-tech enterprises, Shanghai Little Giant cultivating enterprise.

In May, 2015, Kale was listed in New Third Board in National Stock Exchange Market(stock code: 832365) to create more social value through capital market!

