Industrial Large Ceiling fan

User Instruction Manual

Please read this instruction manual carefully before using the product

Julai (Chongqing) ventilation equipment Co.,Ltd

Important Security Notes

To reduce the risk of fire, electric shock or personal injury, please note the following:

- **Note**: Installation work and wiring connections must be performed by professionals in accordance with all applicable codes and standards.
- **Warning**: Please turn off the power supply before maintenance and clearing the equipment, lock the maintenance cut-off device and make warning signs to prevent accidental power supply.
- **Warning**：Please be alert and have common sense when installing the fan. Do not install the fan when you are fatigued or under the effects of drugs or alcohol.A slight carelessly installed fan can lead to serious personal injury!
- **Note**：Please be careful when the fan supplies power. Don't connect to the power of the damage or danger. Don't attempt to solve circuit problems or malfunctions by yourself.If you have any questions about the fan installation, please contact the manufacturer or after-sales personnel.
- **Note**：When the fan assembly is repaired or replaced, the removed safety parts must be reinstalled.
- **Note**：Don't bend the fan blades when installing or maintaining the fan. Don't insert any objects between the rotating fan blades!
- **Note**：Please follow the safety rules in each tool manual when

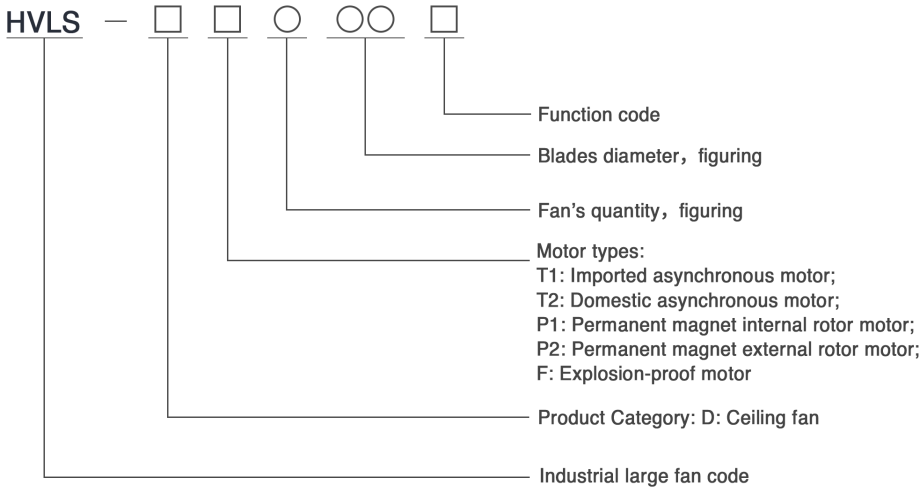
using certain electric tools for fan installation. Don't use the tools for other purposes not instructed by the manufacturer.

- **Note**："Three guarantees" do not include equipment damage or malfunction caused by improper installation, maintenance and use.
- **Warning**：Please stop using the fan immediately and contact the manufacturer, agent or after-sales personnel,if the fan appear abnormal oscillation.
- **Warning**：Not suitable for operation by persons (including children) with physical, sensory or mental impairment or lack of relevant experience and knowledge.

I.Overview

Julai large ceiling fan is independently developed by the company's technology department, based on aerodynamic principle and combined with modern aviation wing technology. It adopts high-quality motor, with low speed, large air volume, low noise and low energy consumption. A wide range of imitation natural wind blowing, all-round air circulation, it plays ventilation and cooling functions, effectively solve the high space hot and humid, air stratific；ation, smoke and dust not scattered and other problems. It is suitable for industry, commerce, animal husbandry and many other fields.

II.Product Model

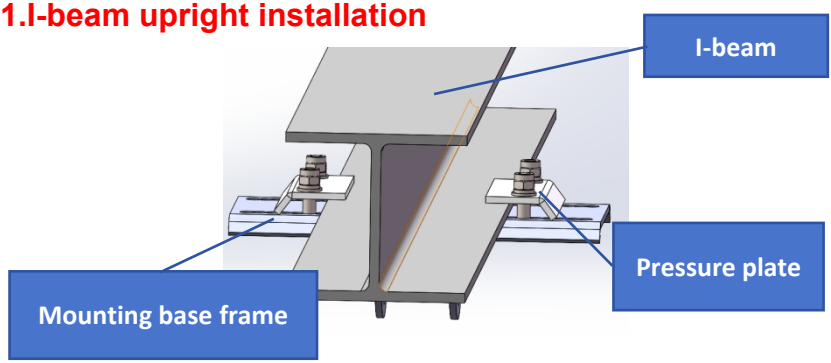


III.Product Parameter

Diameter （m）	Maximum Revolutions(RPM)	Airflow (m^3/min)	Coverage area (m^2)	Noise (DBA)
7.3	57	14800	1850	≤55
6.1	65	13500	1480	≤55
5.5	75	12000	1200	≤55
4.9	80	11000	800	≤50
4	90	9000	600	≤45
3	100	6000	400	≤45

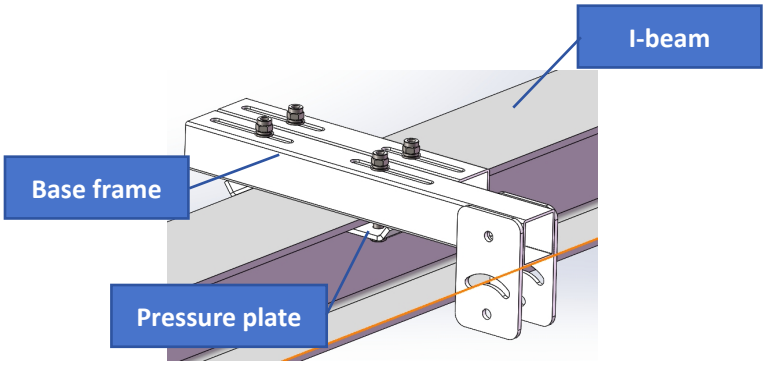
IV.Ceiling fan installation method

1.I-beam upright installation



As shown in the figure above, the mounting base frame is secured to the I-beam using two standard mounting pressure plate and four M16×70 bolts (with lock nuts and shims).

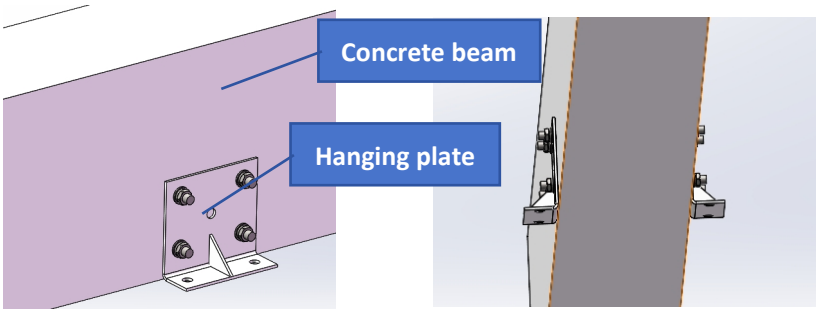
2.I-beam top mounting



As shown in the figure above, the top-mounted base frame is secured to the I-beam using two top-mounted pressure plates and four M16×130 bolts (with lock nuts and shims).

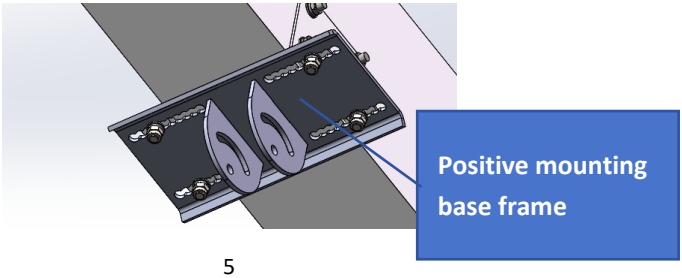
3.Concrete positive mounting

3.1 Hanging plate fixation



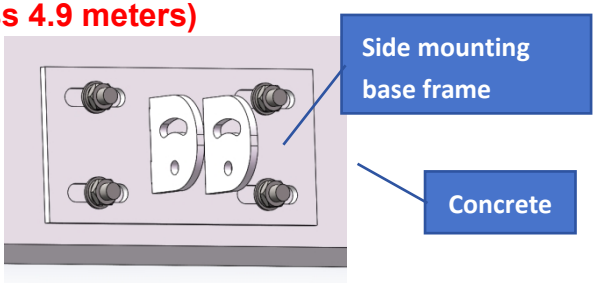
As shown in the figure above, four M16×120 drop-in anchor bolts are used to secure one hanging plate to the concrete beam. The other plate is installed using the same method. Note that the mounting holes for the two hanging plates securing the upright base frame must be parallel and aligned.

3.2 Positive mounting base frame installation



As shown in the figure above, the positive mounting base frame is secured to two hanging plates using four M16×45 bolts (with lock nuts and shims).

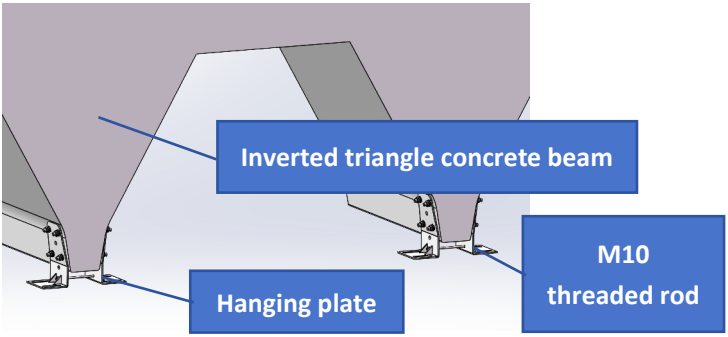
4.Concrete side mounting（suitable for ceiling fans with a diameter of less 4.9 meters)



As shown in the figure above, four M16×80 drop-in anchor bolts are used to secure the side-mounted base frame to the concrete beam.

5.Inverted triangular concrete beam positive mounting

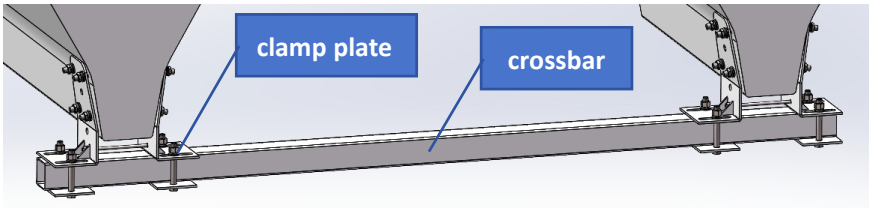
5.1 Hanging plate fixation



As shown in the figure above, four M16×120 drop-in anchor bolts

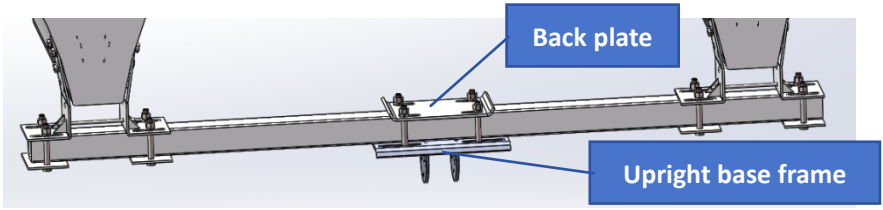
are used to secure the hanging plates to the inverted triangular concrete beam. Using the same method, three additional hanging plates are fixed to the beam, and M10 threaded rods (with nuts and shims) are employed to tightly connect adjacent plates.

5.2 Crossbar mounting



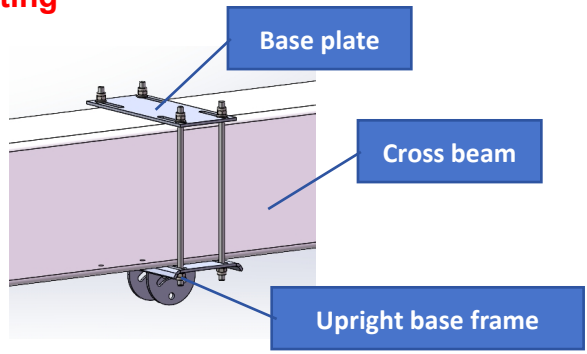
As shown in the figure above, one clamp plate and two M16×130 bolts (with nuts and shims) are used to securely fasten the crossbar to the hanging plate. The same method is applied to fasten the other three clamp plates to the hanging plate.

5.3 Positive mounting base frame installation



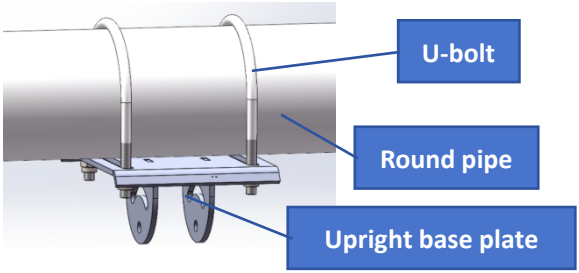
As shown in the figure above, the upright base frame is secured to the crossbar using a back plate and four M16×130 bolts (with nuts and shims).

6.Clamp-on mounting



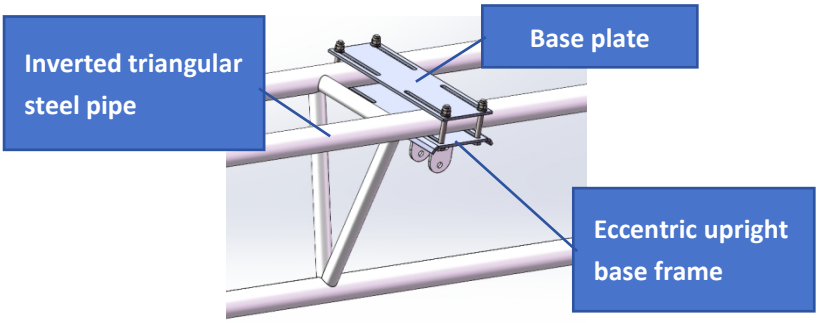
As shown in the figure above, the upright base frame is secured to the crossbeam using a back plate and four M16 threaded rod(with lock nuts and shims).

7.Fan mounting on round pipe(suitable for steel pipes of DN80 and above)



As shown in the figure above, the upright mounting base plate is secured to the round pipe using two U-bolts and four M16 nuts (with shims). Note: The size of the U-bolts is determined by the dimensions of the round pipe.

8.Inverted tripod steel pipe installation

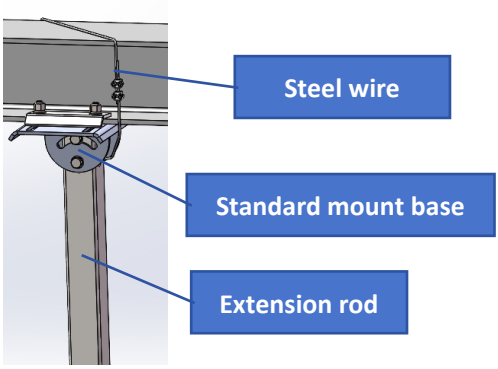


As shown in the figure above, the eccentric upright base frame is secured to the inverted triangular steel pipe using a back plate and four M16*130 bolts (with nuts and shims).

V. Installation Method of Ceiling Fan

1. Installation Method of Traditional Asynchronous Motor Ceiling Fan

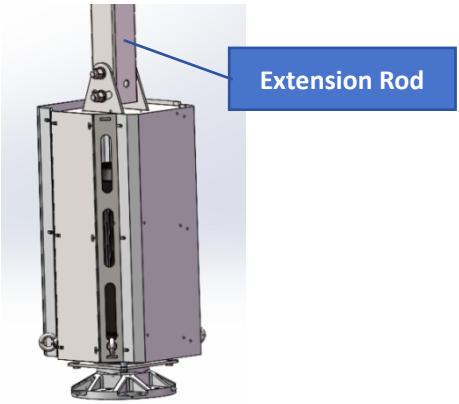
1.1 Extension Rod Installation



As shown in the diagram, first secure the extension rod to the main frame using two M16*130 bolts (with lock nuts and shims).

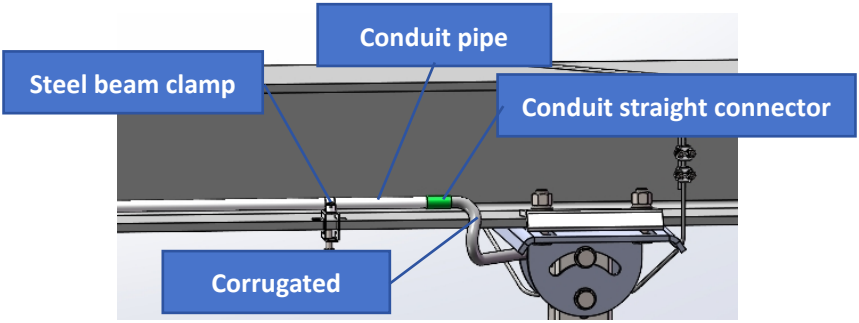
Next, thread the steel wire rope through the rod's through-hole and wrap it around the crossbeam or other fixed support. Tighten the rope with two wire rope clamps to ensure it remains taut. This safety procedure must be followed when conditions permit.

1.2 installation of main unit components



As shown in the figure above, two M16*130 bolts (with lock nuts and shims) are used to secure the main motor assembly to the extension rod.

1.3 Power cord wiring



As shown in the figure above, first wrap corrugated pipes around the power cables at both ends of the extension rod. One end of the power cable connects to the motor, while the other end leads to the controller installation point. The power cable is protected by a conduit and secured with steel beam clamps, wire clips, or cable tie.

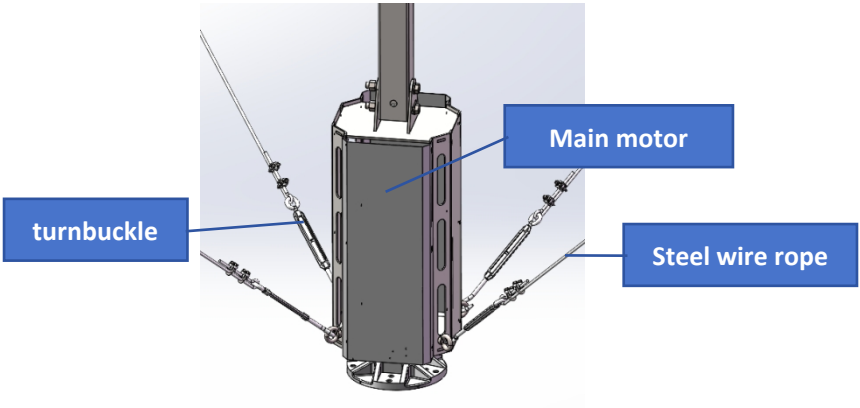
During the wiring process, the following points should be noted:

A. The power cable runs along the house pillars, while the top cable follows the building's structural beams.

B. Before wiring, ensure the power is disconnected, then follow the motor's operating guidelines for wiring. After completing the motor's wiring harness, connect it to the electrical control box.

C. Do not connect the motor directly to the power supply.

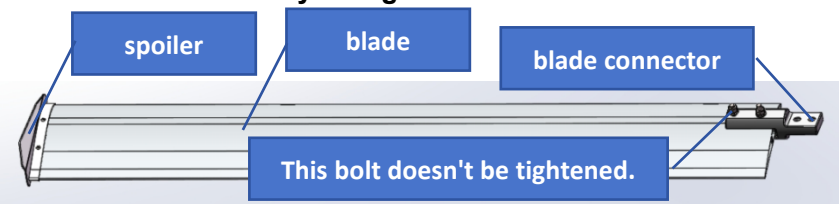
1.4 Steel wire rope installation



As shown in the diagram, first secure one end of the steel wire rope to the roof beam using two wire rope clamps. Next, connect the hook of the turnbuckle to the lifting ring bolt of the main motor assembly, then use two wire rope clamps to fix the other end of the wire rope to the lifting ring of the turnbuckle. Repeat this process to install and secure the remaining three steel wire ropes.

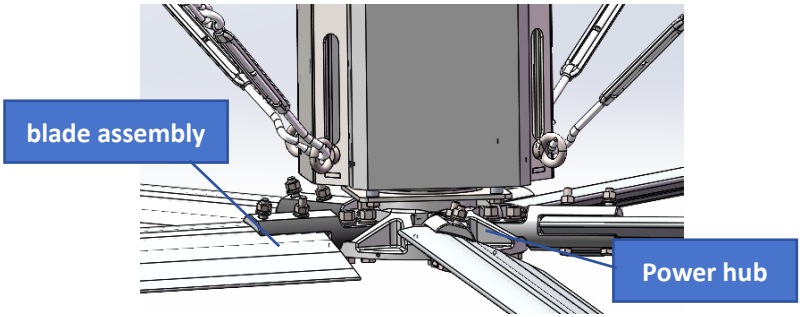
Note: When site conditions permit, the steel wire rope should be positioned at approximately a 45-degree angle to the ground. An angle that is too steep or too shallow may compromise its performance.

1.5 Fan blade assembly fitting



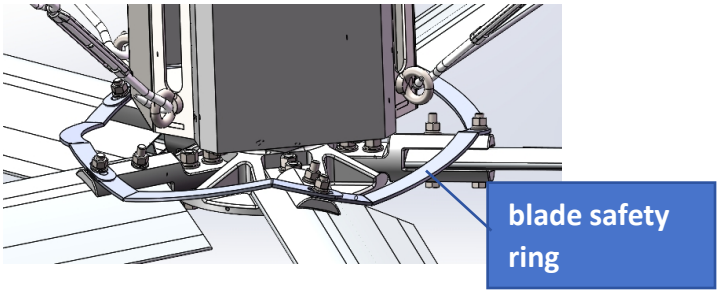
As shown in the diagram, first secure the spoiler to the fan blade using two ST4.2*13 dovetail self-tapping screws. Then, fasten the fan blade connector to the blade with two M10*80 bolts (with lock nuts and shims). Note: When tightening the fan blade connector, leave one bolt loose to allow easy installation of the safety ring, while the other bolt must be fully tightened.

1.6 fan blade assembly installation



As shown in the figure above, two M12*60 bolts (with nuts and shims) are used to secure the blade assembly to the power hub. The same method is applied to install and fix additional blade assemblies on the power hub.

1.7 fan blade safety ring installation

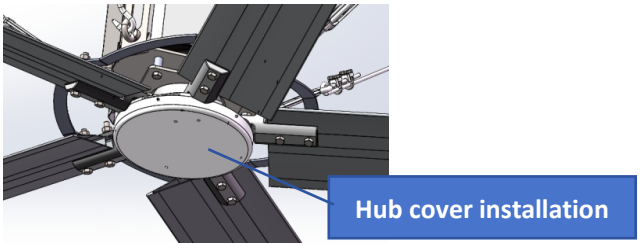


As shown in the figure above, the outer ring bolts of the blade connector block are used to sequentially install and secure five blade safety rings onto the blade connector block.

1.8 blade assembly horizontal alignment

First, tighten and straighten the four steel cables by adjusting the turnbuckle. Then, use a level to calibrate the fan blade assemblies in pairs while adjusting the turnbuckle bolts to ensure that several fan blade assemblies are basically on the same horizontal plane.

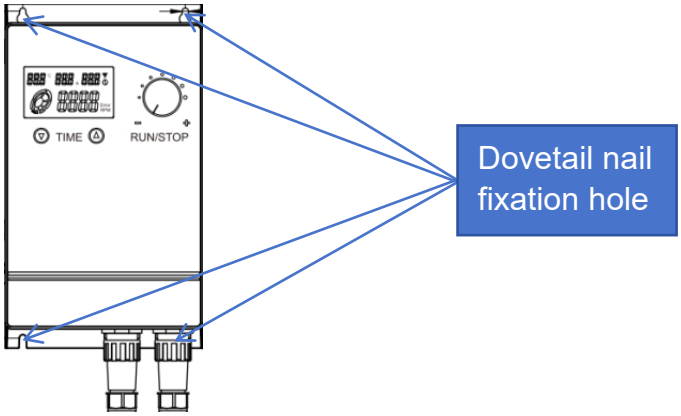
1.9 hub cover installation



As shown in the figure above, the hub cover is secured to the power hub using five M5×8 hex socket pan head screws.

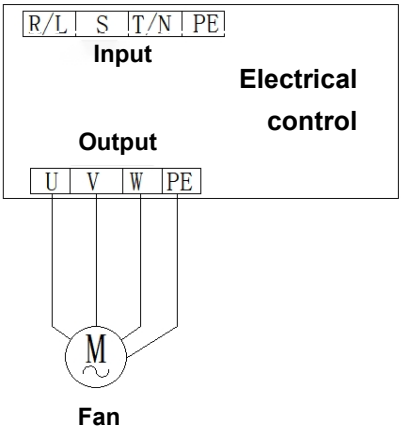
1.10 Controller installation

Install the controller at the designated location using 4 nylon anchor bolts or 45.5×25 dovetail nails, with the installation height approximately 1.4 meters above the ground.



1.11 Controller wiring

controller wiring diagram



220V			380V		
	terminal Identification	**Wiring Description**		**terminal Identification**	**Wiring Description**
Power input	L	Live Wire Input	**Power input**	R	Input phase R
	N	Neutral Wire Input		S	Input phase S
	PE	Grounding Input		T	Input phase T
				PE	Grounding Input
Power output	U	Output phase U	**Power output**	U	Output phase U
	V	Output phase V		V	Output phase V
	W	Output phase W		W	Output phase W
	PE	Grounding Output		PE	Grounding Output

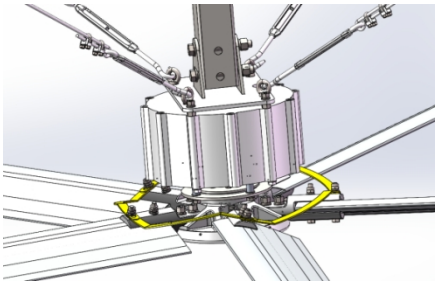
1.12 Debugging and Running

After installation, check and ensure all bolts are tightened, and mark the scale lines after the bolts are properly tightened.

After startup, operate normally for 15 minutes . Check if there is any abnormal noises, wire rope vibrations, and ensure current remains within the rated range.

2.Installation Method of Permanent Magnet Inner Rotor Synchronous Motor Ceiling Fan

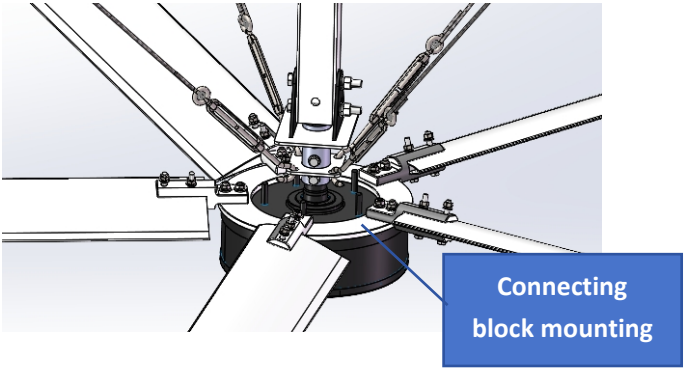
Installation method is the same as that of traditional asynchronous motor ceiling fan



3.Installation Method of Permanent Magnet Outer Rotor Synchronous Motor Ceiling Fan

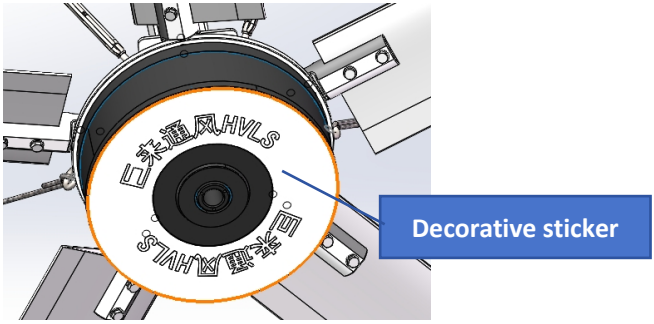
The installation method is the same as that of a traditional asynchronous motor ceiling fan, except for the installation of the blade assembly and the application of decorative stickers.

3.1 fan blade assembly installation



As shown in the figure above, two M12 nuts (with shims) are used to secure the blade assembly to the mounting plate of the connecting block. The same method is applied to install and fix additional blade assemblies on the plate.

3.2 Decorative sticker application



As shown in the figure above, first clean the motor's underside. Then peel off the adhesive tape from the decorative sticker, position it centered on the motor's bottom surface, and gently

press it down with your fingers.

VI.Common Malfunction Solutions

Number	Malfunction Name	Reason	Malfunction Countermeasures
1	**Fan swinging during operation**	Steel wire rope not tensioned	Tightening steel wire rope
2	**The fan produces abnormal noise when operating at maximum speed.**	Steel wire rope not tensioned	Tightening steel wire rope
3		The purlin screw is not tightened properly	Tighten the purlin screw rods
4	**The fan cannot start properly**	Failure to power on/off according to operating instructions	Reset the frequency converter and operate according to specifications
5		Voltage insufficient	Reset the inverter and check the voltage value
6		Control box knob malfunctioned	Change knob
7		frequency converter alarm	Follow the frequency converter manual to troubleshoot, reset, and restart.

If the above issues remain unresolved, please contact the manufacturer, distributor, or after-sales service personnel promptly.

VII. Maintenance and Care

To ensure the fan's long-term normal operation, regular maintenance is essential, especially in harsh environments.

For any maintenance of the fan or controller, always ensure the

fan is shut down and the controller is powered off to protect personnel safety.

Number	Maintenance frequency	Recommended maintenance tasks
1	Test run	Check the fan for any abnormal operating sounds or vibrations.
2	1/year	blade dust removal
3	1/year	Inspect mechanical fasteners to ensure they are not loose; inspect steel cables to ensure they are not damaged.
4	1/2year	Check the operating condition of the power drive device and the oil level of the motor gearbox.

Note: If the fan operates in harsh conditions—such as workshops with high dust or oil contamination, or frequent vibrations from lifting beams—maintenance frequency should be increased based on actual conditions.

If the fan produces abnormal operation with severe noise or vibration, this indicates damage to a mechanical component. The machine should be immediately shut down and a comprehensive inspection performed.

1.Maintenance of fan main body

1) Tighten the connecting bolts of the standard-mounted base frame , extension rod, and the top suspension ear of the fan, and mark the scale lines after tightening to ensure the bolts are securely fastened without any looseness.

2) Tighten the main cover screws and mark the scale lines after screw tightening to ensure no loosening occurs.
3) The connecting bolts of the power hub, safety ring, connecting block and blade of the industrial large fan should be tightened, and the scale line is marked after the bolts are tightened to ensure that the bolts are not loose.
4) Clean the main body of the fan thoroughly to ensure it is dust-free.
5) Clean the fan blades thoroughly to ensure they are dust-free by wiping them with a clean cloth dipped in water and dish soap, then drying them completely.
6) Repair the rusted parts with paint, matching the original color as closely as possible.

2.Maintenance of Motor and Reducer

1) Clean the motor (especially its cooling fan) and gearbox to ensure proper heat dissipation and reliable operation.
2) For the YCJ series gear-reduced three-phase asynchronous motor, the lubricating oil in the gearbox must be inspected. Determine whether the oil is qualified. If unqualified, replace the oil. If qualified but insufficient, add lubricating oil (Kunlun or Great Wall No.220 mixed lubricating oil).

3.Maintenance of Electronic Control Box or Frequency Converter

1) Clean the dust from the electrical control box or integrated inverter, ensuring that the surfaces of the control box and inverter, as well as the cooling fans and air ducts, are free of dust and oil stains.
2) Secure all terminal blocks in the electrical control box to ensure they are tightly fastened without any looseness.
3) Check the frequency converter to ensure it operates normally.
4) Check the start switch, speed control knob, and indicator light on the control box. Replace the corresponding component if damaged
5) Check the power cord for loose connections or damage. If any damage is found, rewire or replace the power cord.

4.Steel wire rope inspection

1) Inspect the anti-drop steel wire rope of the industrial large fan extension rod to check for wear. If the steel wire rope is worn, replace it. Check whether the wire rope clamp is loose. If the wire rope clamp is loose, tighten it to ensure it remains secure and free from looseness.
2) Inspect the steel wire rope for stability of the industrial large fan to check for wear or looseness. Replace the wire rope if worn, or tighten the wire rope clamp if loose.
3) Check the steel wire rope mounting base of the industrial large fan for stability. If the base shows signs of looseness or wobbling, reinforce it or relocate the installation position.

VIII.Product Warranty

The warranty period for the product is 36 months. For any faults that occur within the warranty period, please do not attempt to fix them yourself. Our company can send professional technicians to provide free on-site services. However, the following services are chargeable:

- ✧ Due to the malfunctions caused by your company's incorrect usage.
- ✧ Due to the fact that your company privately modified our company's products, resulting in the malfunction.
- ✧ Due to malfunctions caused by natural disasters and fires, etc.
- ✧ Beyond the warranty period.
- ✧ Other malfunctions not caused by the responsibility of our company.

This product is produced under strict quality management, and each set of products has passed the strict testing process when leaving the factory.

Please configure relevant safety measures when used in situations where major accidents or losses may occur due to the failure of this product.

Warranty Bill

User Counterfoil

The following is the user counterfoil. After filling it out, the user should keep it. Please show this counterfoil when making repairs.

Please fill in the product information

Product model：_____ Serial Number：_____

Note：The starting date of the warranty period is the factory date of purchase of the product.

Please fill in the user information

Username：_____ Postal address：_____

Tel：_____ Contact person：_____

Please fill in the following information：

Dealer name：_____ Tel：_____

Contact person：_____ Purchase date：_____

Invoice No.：_____

Receipt

The following is the user's receipt. After filling it out, please send this page to the dealer or send it back to our company directly.

Please fill in the product information

Product model：_____ Serial Number：_____

Note：The starting date of the warranty period is the factory date of purchase of the product.

Please fill in the user information

Username：_____ Postal address：_____

Tel：_____ Contact person：_____

Please fill in the following information：

Dealer name：_____ Tel：_____

Contact person：_____ Purchase date：_____

Invoice No.：_____

Be world-class Industrial big fan!

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