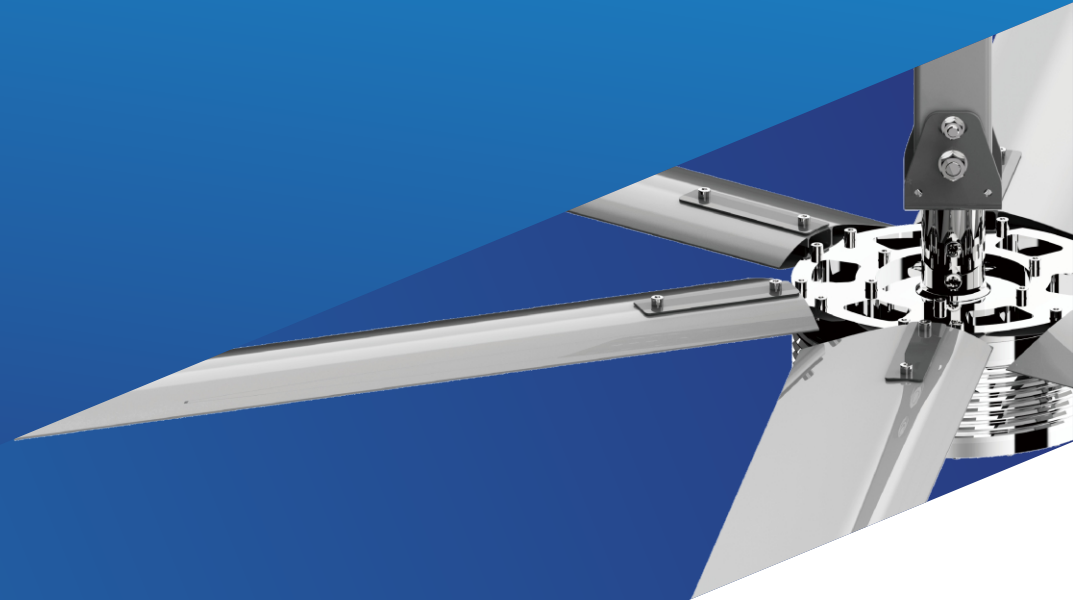




Xingtai Technology



Ultra-low power / extreme energy

**HVLS-FD1A series
HVLS FAN**



Xingtai Technology

**HVLS-FD1A series
HVLS FAN**

> User Manual



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PREFACE

Esteemed user:

Thank you for purchasing Xingtai HVLS-FD1A series HVLS FAN, Xingtai HVLS-FD1A series High volume low speed industrial fan called HVLS FAN, which developed with xingtai permanent magnet direct drive motor and servo controller.

The advantages are high performance, low noise, maintenance-free, safety, energy saving and so on. HVLS FAN are widely used in workshop, logistics storage, gym, gymnasium, indoor playground, gym, car 4S shop, museum, station, terminal and other places.

This manual is only applicable to Xingtai HVLS-FD1A series HVLS FAN. The manual provides the relevant precautions and guidance on type selection, installation, parameter setting, debugging and fault diagnosis. Users should read the manual carefully before using the product for the first time.

All regional agents of the company should send this manual to the end user and keep it properly for later use. When using this product, please follow the manual or under the guidance of professional installation person. The legends in this manual are for illustration only and may differ from the product you order. The content of this manual will be changed due to product upgrades or specification changes. In case to order manuals due to damage or loss, contact regional agents of each company or directly for after-sales service.

1 Instructions for product installation and use

(1) Precautions before product installation

- 1、 Before installation, prepare the installation materials and tools, engineers should be familiar with the assembly map of Xingtai HVLS FAN model, familiar with the structure of the equipment, check the shape and assembly related parts and dimensions, confirm the list of parts and technical instructions can start the installation;
- 2、 Xingtai HVLS FAN has strict requirements, before the installation of spare parts surface if there is damage, need to be repaired or replaced;
- 3、 The installation of Xingtai hvls fan must meet the requirements of the drawings;
- 4、 Xingtai hvls fan all the fasteners are not allowed to have loose phenomenon;
- 5、 After the installation of Xingtai HVLS FAN, check whether each accessory is correctly installed according to the technical requirements to ensure safe conditions before debugging and operation.

(2) Product specifications, models and technical parameters

Xingtai HVLS FAN specifications

Model No.	Fan Diameter (ft)	Pole length (inch)	Motor Power (kw)	No. of Blades (pcs)	Air volume (ft ³ /min)	Max speed (rpm)	Fan weight (lbs)
HVLS-FD1A51	16.75	24	0.9	5	333725	70	210
HVLS-FD1A55	18	24	0.9	5	416715	70	225
HVLS-FD1A61	20	24	0.9	5	464390	70	240
HVLS-FD1A73	24	24	1.5	6	547380	57	275

2 Installation process flow

(1) Basic requirements for installation of Xingtai HVLS FAN

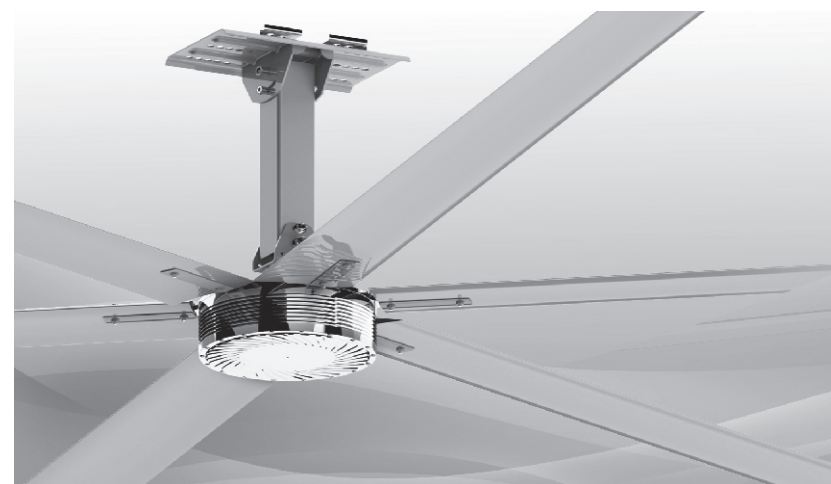
As long as the plant height is above 3.5 meters, the plant structure can be installed except for steel structure, concrete structure, spherical mesh frame, truss structure or other complex structures

1 · Basic requirements for the installation

- 1) The safe and effective installation space distance of the fan is more than 0.8 meters;
- 2) Select a safe bearing girder for installation, otherwise our company can transform according to the site after installation;
- 3) Special installation site can be installed according to the site.

2 · Building structure requirements

H-shaped steel, I-shaped steel, steel concrete earth beam, truss, ball column type and other housing structures; the total building height requirement is greater than 3.5m; the minimum fan blade safety distance from obstacles is 0.2m;



(2) Safety measures for the installation of Xingtai HVLS FAN

1、 Engineer with aerial work qualification (as shown in Figure 1)

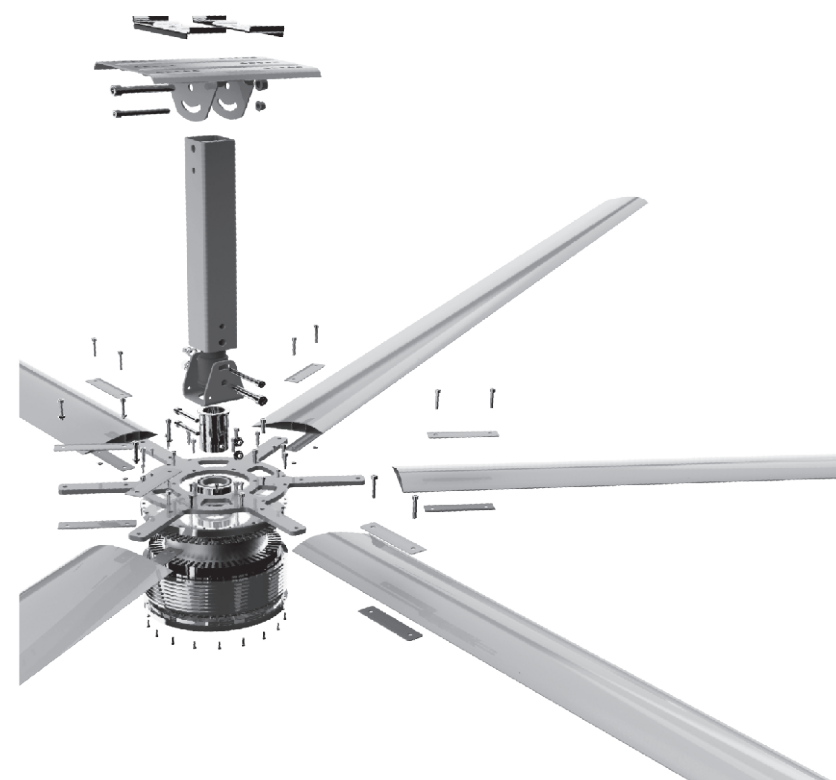
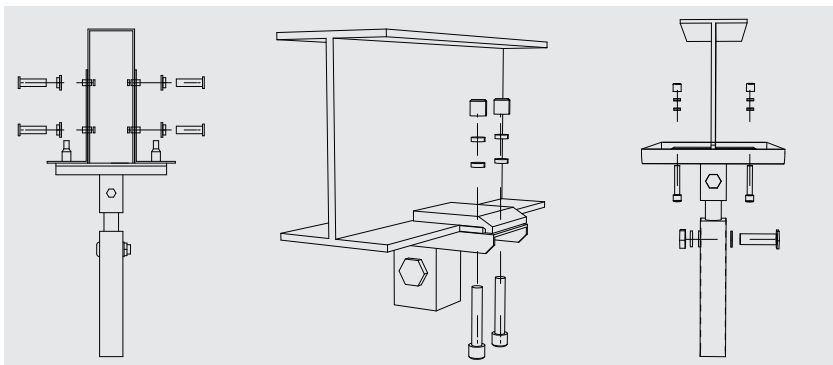


Check the safety guarantee facilities

(Safety helmet, safety belt, reflective clothing, labor protection shoes, warning belt, warning signs)

2、 Fasteners (as shown)

All fasteners are high strength industrial bolts, the actual stress is more than 10 times;



(1) Steel wire traction

The tensile stress strength of each wire can reach 000KG, and each connection point is set with double protection;

(2) Industrial main fan main body protection jing struc ture

Fan safety ring, when there is an accident, the safety ring can play a protective role, to prevent any slide of parts;

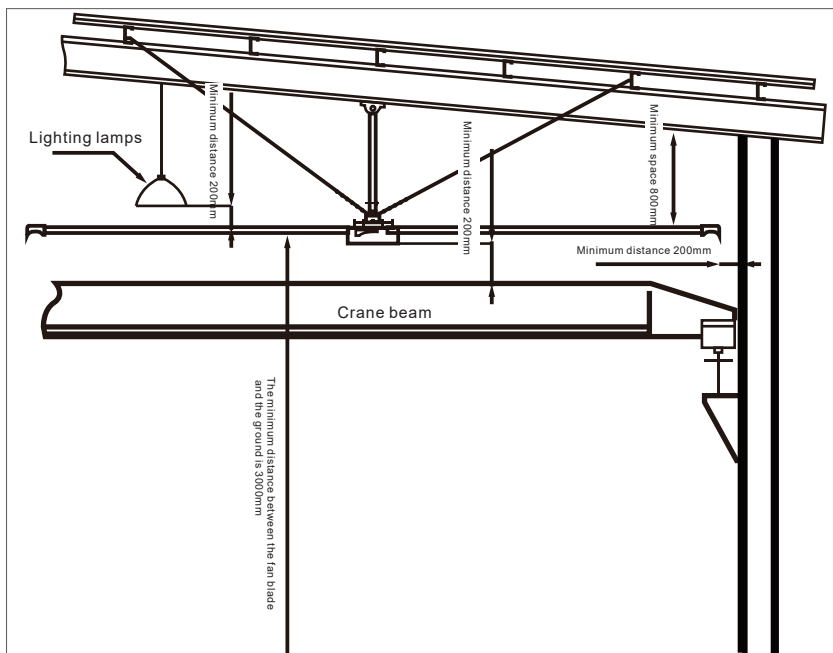
(3) Industrial large fan fan blade type I safety structure

Connect all the fan blades and the chassis at the point to become the overall structure; the servo drive control system will automatically alarm to stop the operation when any abnormality is detected.

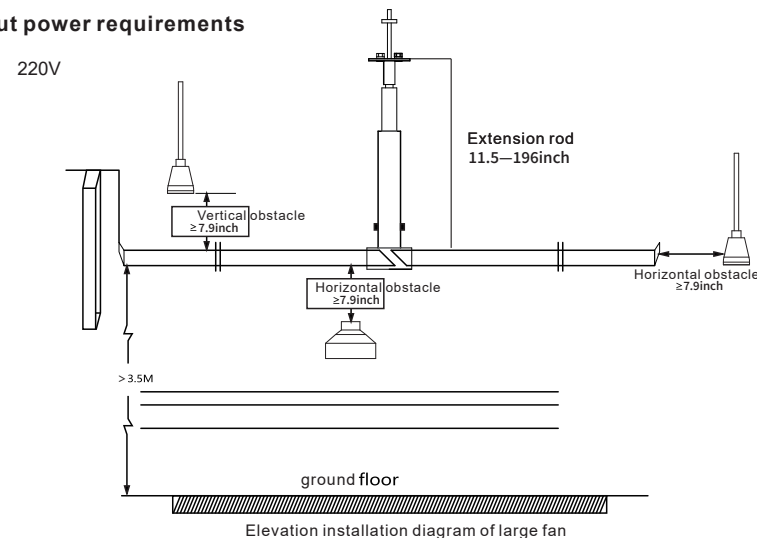
(3) Installation requirements and scope of Xingtai HVLS FAN

1. Installation distance requirements

Take the diameter of 7.3 m as an example: the installation height of the fan is more than 8m, and the ground is open and unobstructed. Wind receiving surface listed in the sample 1400m² is the wind speed measured in the range of 0.5m/s. For human body, the wind speed feels best in the range of 1.5~3.0m/s, and the wind receiving area is about 800m² at this time; Wind radius $r = \sqrt{800 \div 3.14} = 16m$. In the specific installation calculation, attention must be paid to the wind area and length and width dimensions. Sometimes it is necessary to change the model of the fan in order to obtain the best benefit area. The safety distance between the fan blade and the obstacle is at least 0.2m, and the distance between the installation point and the obstacle below (such as driving) is greater than 0.8-1.2m; The optional range of extension rod: 0.3m, 0.5m, 1M, 1.5m, 2m, 2.5m... The longest is not more than 6m. (as shown in the figure)



2. Input power requirements

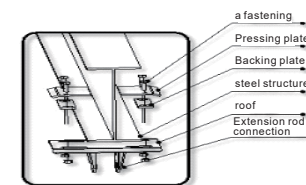


3. Installation method and scope of the steel structure

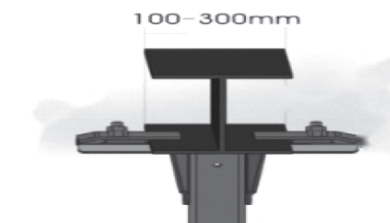
Steel structure workshop is widely used in workshops, warehouse tubes and other tall spaces, and it is the most common building structure in the installation process of our company. For this kind of structure, our company has designed a clip installation that does not affect the structure of the building itself (see Figure 1). This clip installation method at the bottom of the beam generally requires the installation beam width to be between 100mm and 300mm (see Figure 2).

If the beam width is greater than 300mm, special installation parts need to be customized. According to the different on-site environment, on the basis of this installation method, direct installation, column installation, side deviation installation, side deviation extension and other installation methods have been developed.

picture 1



picture 2



4. Direct installation process with the installation point directly below the main beam

Step 1: installation of fan body (cement beam, h, l-shaped steel structure)

Installation quality requirements: It is necessary to clean the installation position of the fan body (as shown in Figure 1); The screws of the hanging plate and the hanging plate shall be tightly and firmly matched after tightening. The outermost nut must be coated with thread locking glue before tightening to prevent loosening and falling off and other potential safety hazards.

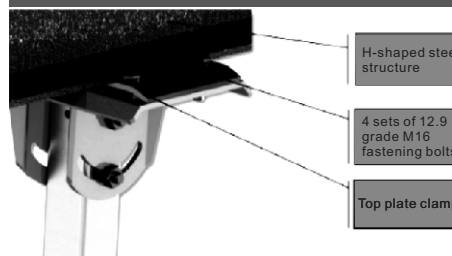
picture 1



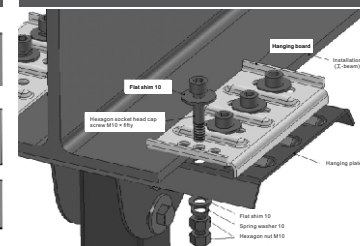
Installation accessories: Flat gasket, hexagon socket head cap screw, hanging plate, hanging plate, installation beam (I-beam), spring gasket, hexagon nut.

Installation method: First, clean the installation position with the hydraulic lift truck, put the fan body (fan connector), fasteners and tools on the hydraulic lift truck, and clean the surface of the installation position after rising to the installation position (as shown in Figure 1); Secondly, install the fan body to the proposed position (as shown in 2, 3, 4 and 5), and adopt the clip type installation method, and fasten with 3 or 4 groups of 12.9 grade M16 fasteners (as shown in 2, 3, 4 and 5); The hanging plate and the hanging plate have three groups of screw mounting holes respectively. Select the appropriate mounting holes to tighten the screws to ensure that the re is no loosening and falling off.

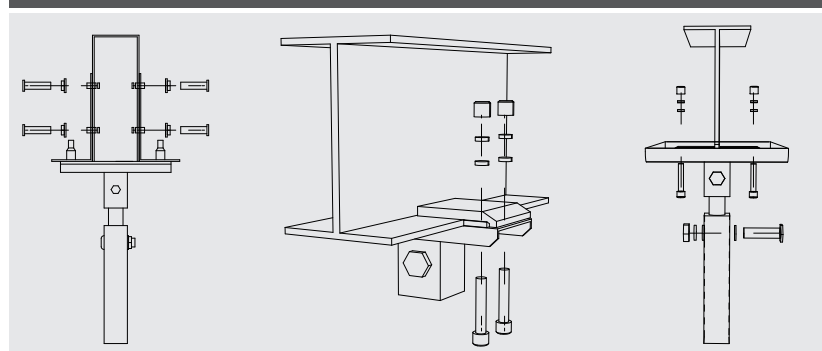
picture 2



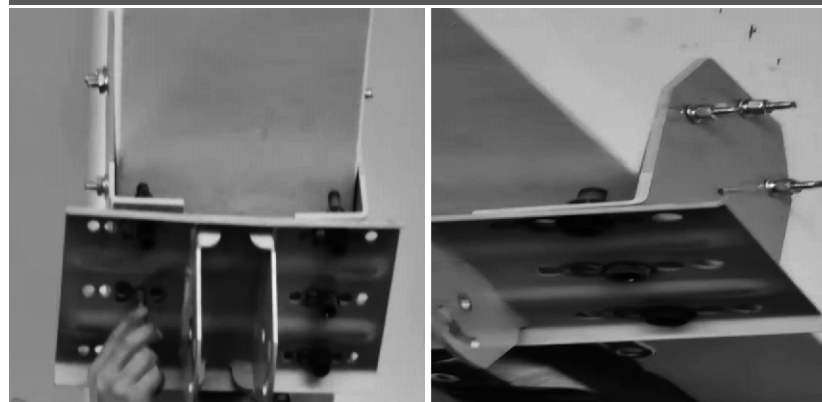
picture 3



picture 4

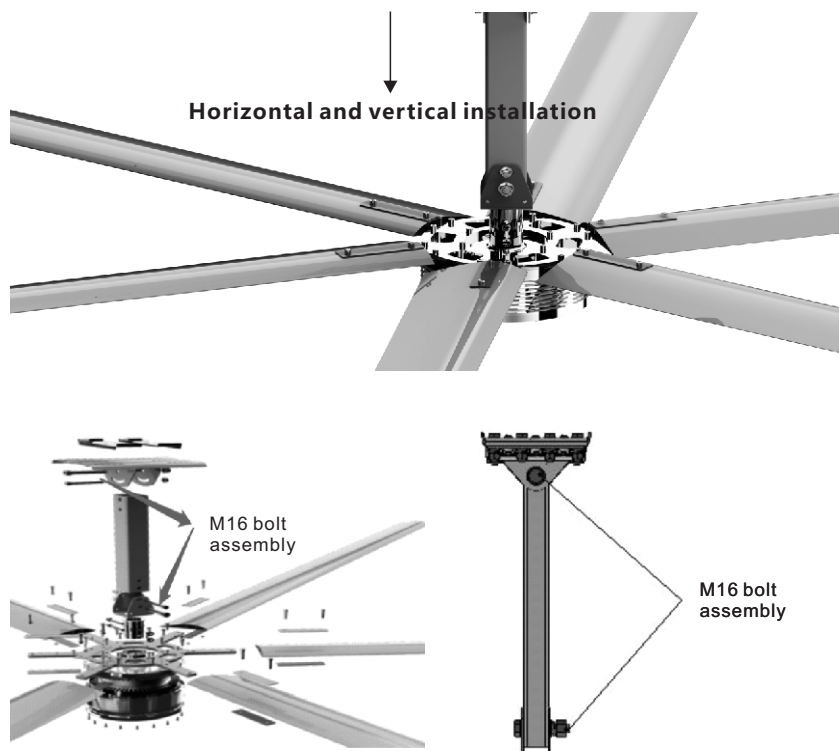


picture 5



Step 2 : Installation of fan extension rod

Installation quality requirements: Adjust the fan connecting body after installation to the vertical state (use a vertical hammer or indoor vertical reference, as shown in Figure 1). Tighten the two sets of M16 bolts at the upper and lower ends of the fan extension rod to keep the fan vertical. (as shown in the figure below).



Installation accessories : Two sets of fan extension rod and M16 bolt (M16 screw and nut).

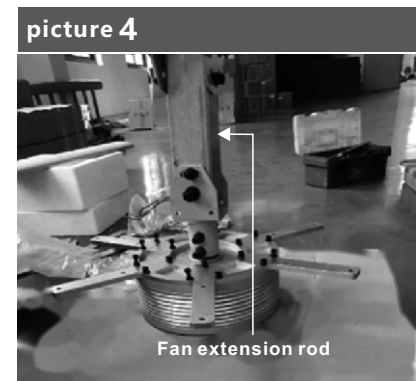
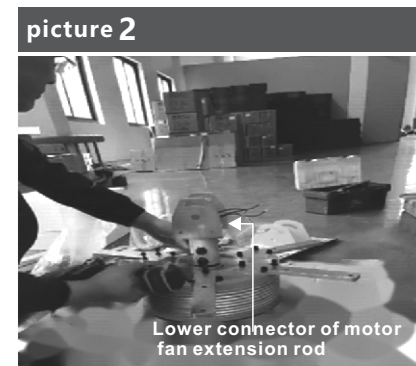
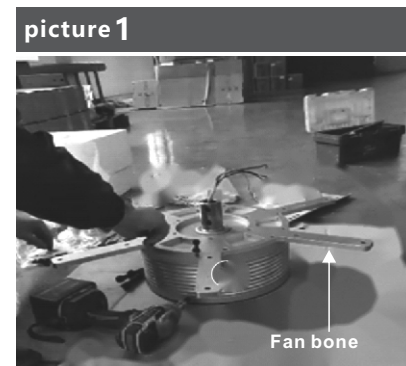
Installation method: Connect the upper end of the extension rod with the hanging plate of the fan body with two sets of M16 bolts and adjust it to the horizontal and vertical state, then tighten the loosening nut to keep the fan vertical.

Step 3: Assembly of fan permanent magnet synchronous direct drive motor and fan bone (fan blade fixing frame)

Installation quality requirements: The fan components shall be free of bruises, the screws shall be free of looseness, and the fan bones (fan blade fixing frame) shall be firmly connected; Rotate the fan gently with your hand, and the fan rotates smoothly; The fan remains vertically balanced.

Installation accessories: Permanent magnet synchronous direct drive motor for fan, lower connector of motor fan extension rod, fan bone (fan blade fixing frame), M16 bolt assembly.

Installation method: Install the connector of motor fan extension rod and fan bone (fan blade fixing frame) to the proposed position of permanent magnet synchronous direct drive motor for fan with M16 bolt assembly, and assemble it to the lower end of fan extension rod to fix it (as shown in 1, 2, 3, 4).



Step 4: Assembly of fan blades and safety ring accessories

Installation quality requirements:

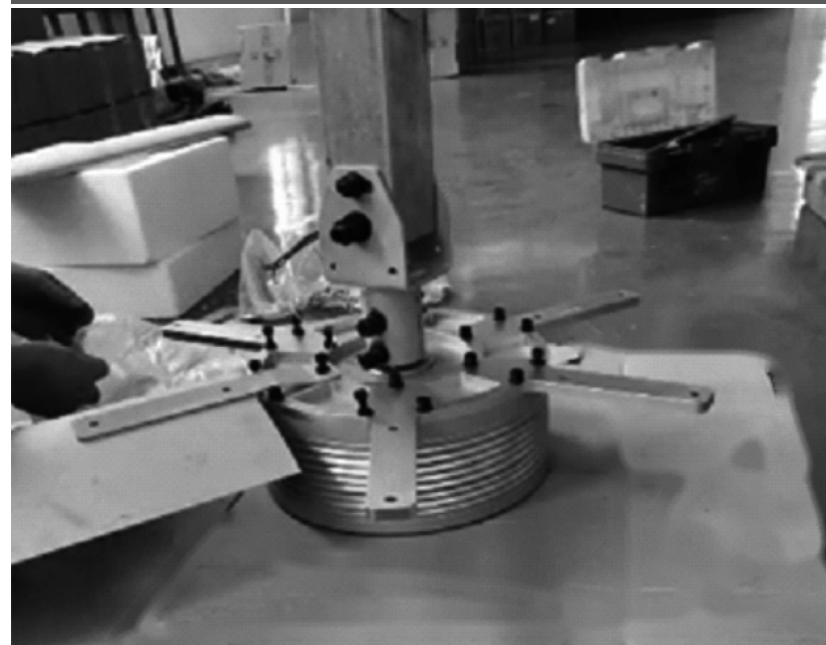
Installation accessories: Fan blade, fan blade inner reinforcement, fan blade outer fastener, fanbone (fan blade fixing frame), safety ring assembly (safety strap), connecting bolt assembly.

Installation method: Insert the fan blade reinforcement into the fanbone (fan blade fixing frame) first, and then insert the fan blade into the fan blade reinforcement. Except for the second hole on the fan blade, fix the fan blade with screws first, and then fix the fan blade fastener and safety ring assembly (safety strap) together with the fan bone (fan blade fixing frame) and the fan blade according to the method (as shown in Figures 1, 2 and 3), Finally, tighten all the screws on the fan blade to keep the fan in vertical balance (as shown in 4).

picture 1



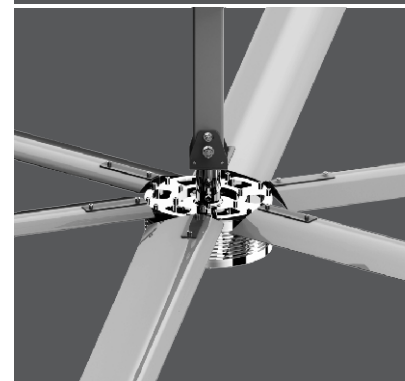
picture 2



picture 3



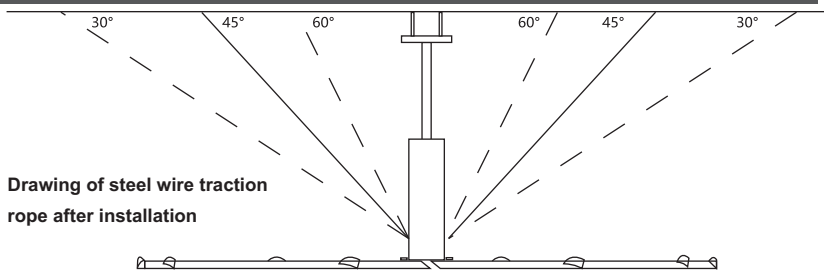
picture 4



Step 5: Installation of fan steel wire traction cable balance protection

Installation quality requirements: The stress strength of each steel wire cable is required to reach 1000kg, and double balance protection is set at each connection point; (as shown in Figure 2 and 3 as built drawings).

picture 1



picture 2



After installation, the fan will be in force balance, but the Angle of the wire cable and the horizontal surface will affect the force size of the fixed point, and usually the wire cable changes due to the distance of the fixed point in the site environment. General wire traction cable and horizontal plane angles shall be at (within 30°-60°) and as close to 45° conditions as possible (Figure 1).

picture 3

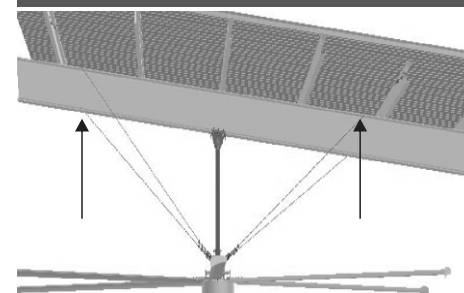


Installation accessories:

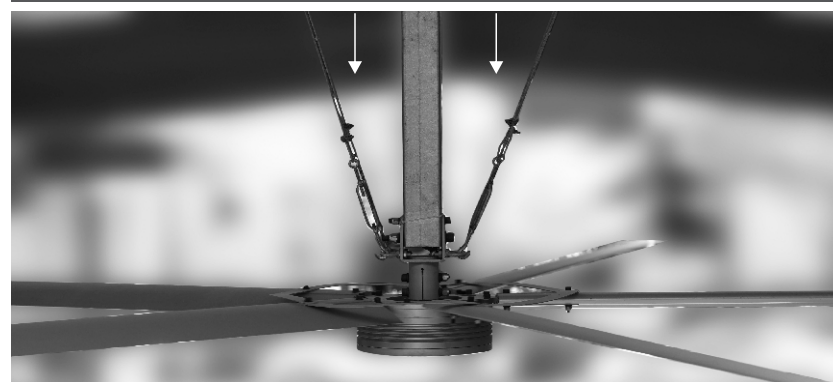
Plastic coated steel wire rope, steel wire rope collet, trianglering, eyebolt (model)

Installation method: each steel cable bears the same force (as Connect one end of the steel cable to the designated screw connected with the lifting ring of the fan housing, and tie the other end to the lifting ring screw on the roof beam. After tying four steel cables, adjust the length of the baskets screw to ensure that shown in figures 4, 5 and 6).

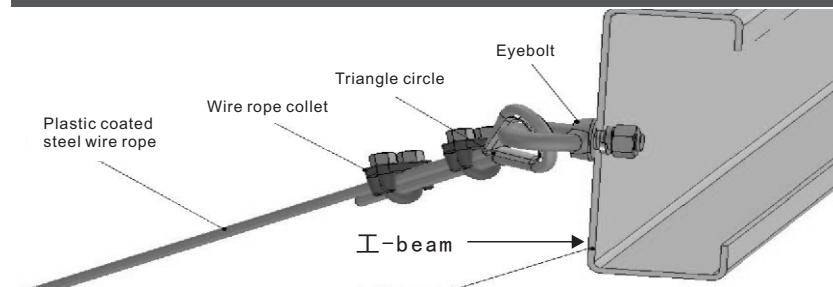
picture 4



picture 5



picture 6



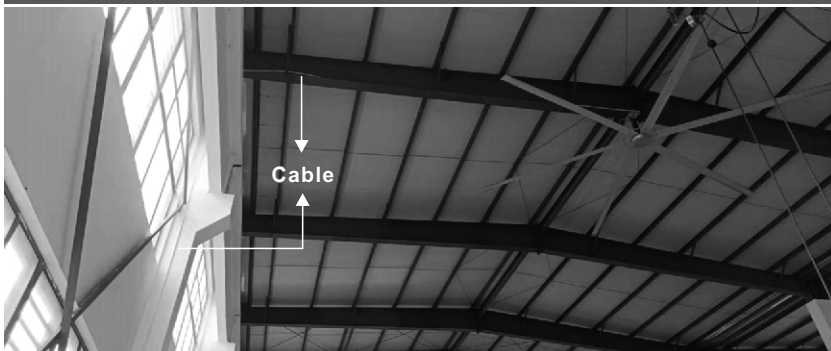
Step 6: Installation of fan power cable

Installation quality requirements: the cable should be fixed firmly, to prevent the fan operation,causingsafetyrisks;the fandrivecontrollerfromthepositionofthefan.rice.

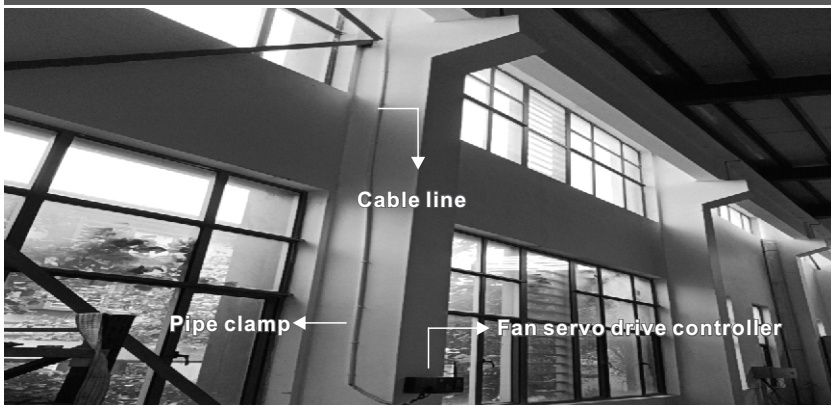
Installation accessories: cableline,fireprotectionpipe,pipeclamp

Installationmethod: connectthepowercable(cable)totheelectricalcontrolboxalongthefloor beamandothercomponents(seeFigure1and2).

picture 1



picture 2



Step 7: Install the fan servo drive power connection

Installation quality requirements: the cable should be connected according to the specified terminal column,and the terminal column screws should be tightened to prevent the potential safety risks caused by loose shedding or poor contact; the fan servo driver should be installed for convenient operation and management.

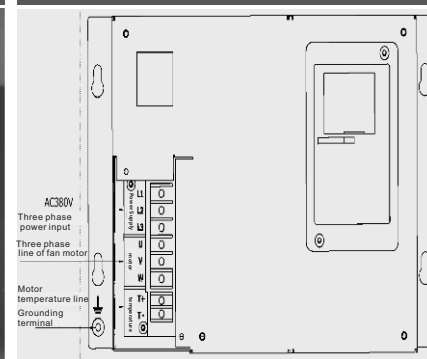
Installationaccessories: fanservodrivecontroller,firelinepipe,pipeclamp

Installation method: Connect the power connection lines (cable lines) connected to the fan servo driver according to the regulations (as shown in Figures 1, 2 and 3 below), L1, L2 and L3 to the power supply,u,Vandwtothefanmotor,andmotorandtempthotemperaturecontrolline.

picture 1



picture 2



picture 3

Functiondescriptionofmaincircuitterminal:

Terminalmarking	Terminalname	Functiondescription
L1、L2、L3	Threephasepowerinputterminal	Threephasepowerinputterminal
U、V、W	Motorthree-phaseinputterminal	Motorthree-phaseinputterminal
T+、T-	Motortemperatureinputterminal	Motortemperatureinputterminal
	Groundingterminal	Groundingterminal

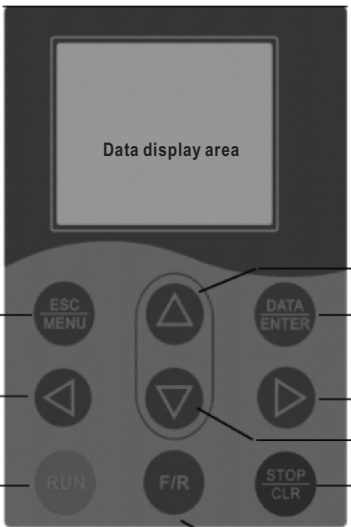
Step 8: Operation and commissioning of HVLS FAN

Installation quality requirements: Conform to factory settings

How to use the fan servo driver: The drive comes with an LCD operation panel, connected to the 4-core port of the drive through a 4-core flat cable. Through the operation panel, users can modify the drive for functional parameters, working status monitoring, and the control (start, stop) of the operation panel during the operation. The appearance display is shown in Fig (Figure 1, 2 and 3):



picture 1



picture 2

Labels for Figure 2:
 - Data display area
 - Programming key (ESC MENU)
 - Left shift key (Left arrow)
 - Run key (RUN)
 - Incremental key (Up arrow)
 - Confirm key (DATA ENTER)
 - Shift right / interface switch key (Right arrow)
 - Decrement key (Down arrow)
 - Shutdown reset key (F/R)
 - retain (F/R)

picture 3

Operation panel key description

Key	name	function
	Programming key	Entry and exit of the first level menu
	Confirm key	Enter the menu screen step by step and confirm the setting parameters
	Incremental key	Increment of data or function code (for speed increment at the main interface)
	Decrement key	Decline of data or function code (for decreasing speed in the main interface)
	Shift left key	In the new dynamic and running state of shutdown, the left shift key can Move the display parameter corresponding to the cursor. When modifying the parameter, click The shift key can select the modification bit of the parameter
	Shift right key	In the shutdown state and operation state, the right shift key can be used to move The display parameter corresponding to the moving cursor can be modified by moving The bit key can select the modification bit of the parameter, and press the right shift key in the main interface Key cycle displays 3 main interface parameters
	Run key	In the operation mode of the operation panel, press this key to start the operation
	Stop / reset	In the operation mode of the operation panel, press this key to stop the operation; In case of fault alarm state, press this key to reset the fault
	F/R	Reserved function

Operation panel instructions

In the shutdown or running state, press MENU / ESC key to enter the function code editing status. The editing status is displayed by the two-level menu mode. The order is: the function code number and one function code parameter. Press ENTER / DATA key to enter the function parameter display status. In the functional parameter display state, press ENTER / DATA to store the parameters, and press MENU / ESC to reverse exit.

✘ **notes:** If you do not save, exit directly, and the parameter modification is invalid.

The operation method of operating the panel

Various operations of the drive can be performed through the operation panel, for example below.

Adjust the maximum speed of AD mode (0-10V input) operation

give an example: Change the set maximum speed of 50r/min to 60R/min.

1: In any state after the drive is powered on, press esc / menu to enter the editing state, and enter the password 5858, Press ▲ key and ▼ key Switch to the set maximum speed display state (unit 01-03), Press DATA key Enter the speed modification state

2: Press ▲ ▼ key Modify the set speed, (Press the key to move and modify the number of digits), Set 50 to 60.

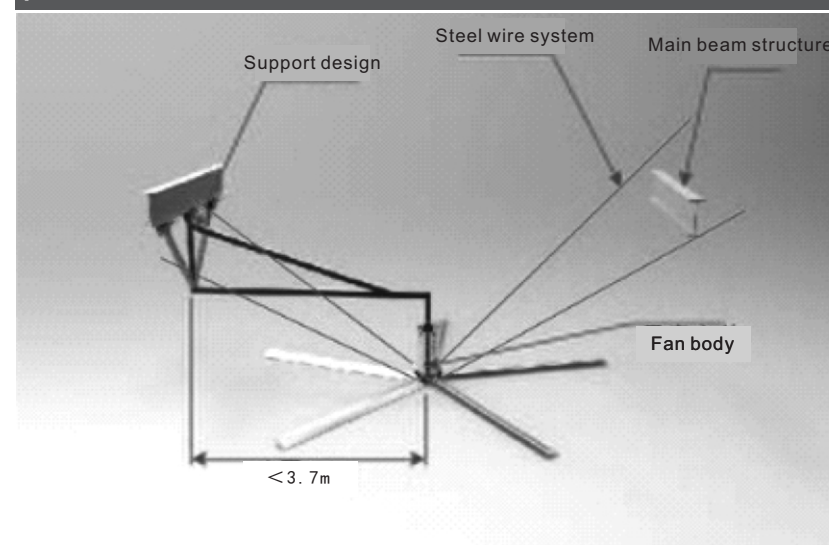
3: Press DATA / ENTER key Save modify values, Successfully modified. Press ESC / MENU key Exit the editing state.



(5) Installation process at the side (side welding)

Side welding is a fixing method in which the fan fixing bracket is welded on the structural beam and the host structure is installed on the bracket. This installation method is usually due to the fact that the clear distance from the beam bottom to the obstacle (driving, light) in the installation structure is less than 1.2m, so it cannot be directly installed at the bottom of the main beam, while the beam height plus the clear distance from the beam bottom to the obstacle is greater than 1.2m.

picture 1



(6) Installation process at the side (side extension)

The applicable conditions of side extension installation method are similar to those of side welding, which is adopted due to the insufficient installation barrier-free net distance. The installation method of side extension avoids the welding on the main beam,

(7) Installation process flow with the installation point below (brick concrete structure installation)

1. Installation mode and scope of brick and concrete structure

The installation method of the brick and concrete structure is: one L-shaped bend (the expansion bolt is fixed) is fixed on each side of the concrete beam, the roof and the L-shaped bend are fixed on the bottom of the beam, and the bottom of the roof is connected to the extension rod or the direct connection fan. This structure requires a beam width of between 300mm and 600mm, and special customized installation parts if the beam width (thickness) degree is greater than 600mm.

picture 1



2. The brick and concrete structure is installed directly at the bottom of the beam install

Drill 4 groups of holes at the installation position, install the bending connector, and install the M16 expansion bolt. Fasten the fan top plate and install the fan (as shown in Figures 1, 2 and 3).

Group of steel wire traction cables are also fastened with expansion bolts to ensure the safety and stability of the fan when it is stationary and running.

picture 2



Concrete structural beam

L-shaped bending part

Expansion bolt

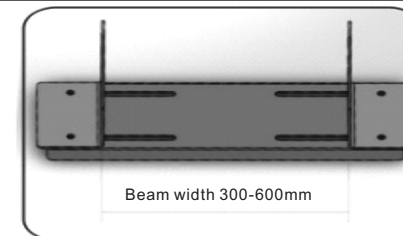
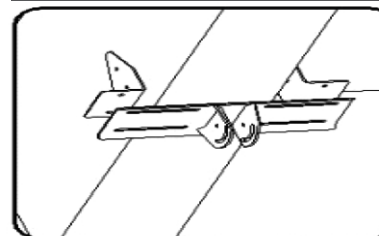
Install the top plate assembly

3. Side installation of brick concrete structure (as shown in Figure 1, 2 and 3)

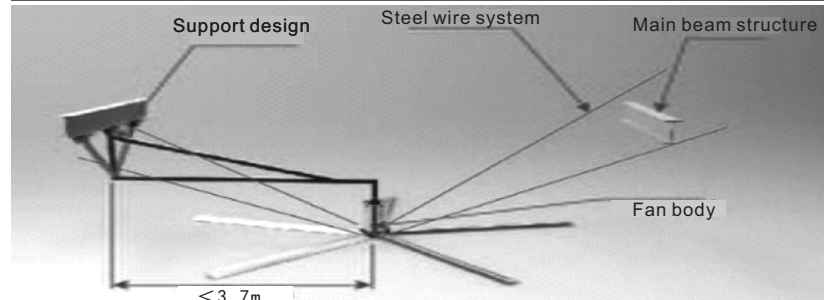
If the distance between the beam bottom and the obstacles below (such as driving) is less than 1.2m, we usually use the following figure

Sidemounting method:

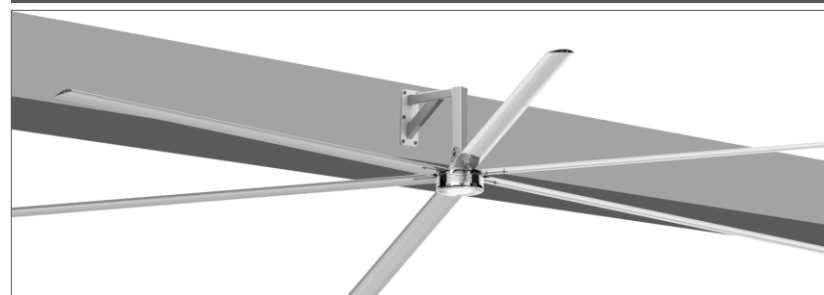
picture 1



picture 2



picture 3



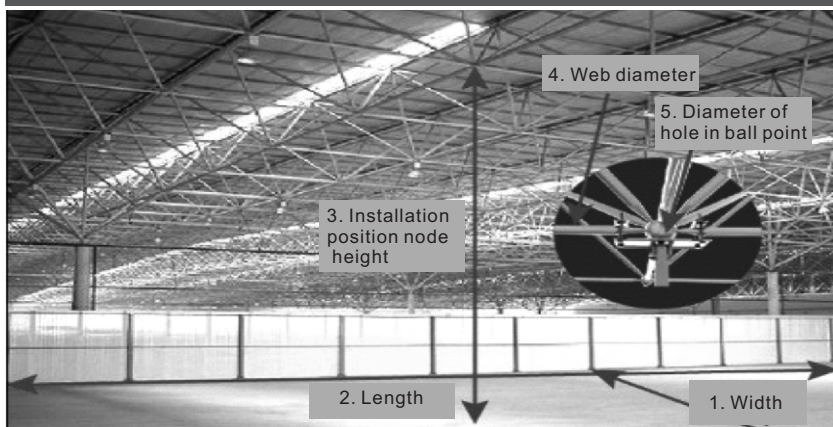
(8) Installation process of ball column structure (see Figure 1 and 2)

Ball column structure is more often seen in modern large venues, based on the characteristics of this structure itself, the standard installation mode is shown as follows:

picture 1



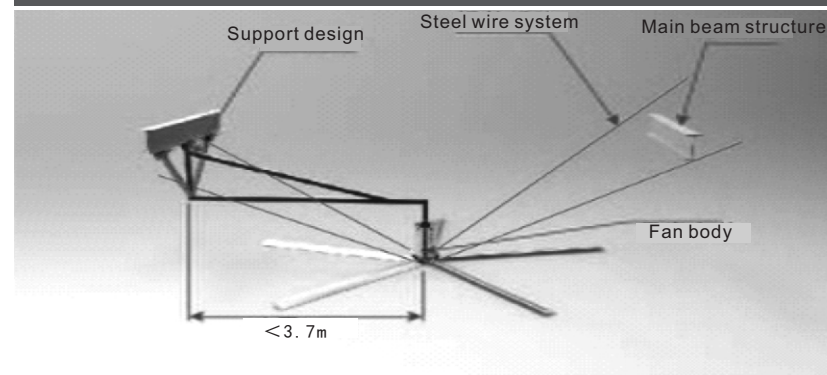
picture 2



(9) Installation process of the rack structure (as shown in Fig. 1,2 and 3)

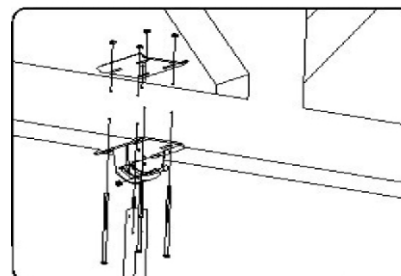
- 1) Installation diagram of the rack structure
- 2) Direct installation of the rack structure
- 3) Layout structuresideloading

picture 1

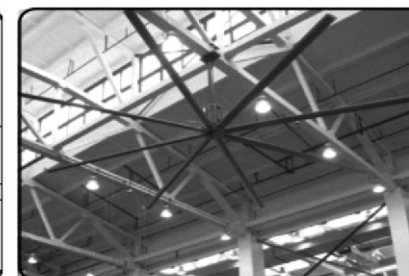


Installation structure: adopt splint fastening installation method, which is safe and does not damage the structure; Accurately measure and install, control the fan bladeThe height is in the middle of the beam bottom and the top of the crane to ensure safe operation.

picture 2



picture 3



3 daily maintenance

1 Operation equipment before installation and maintenance (as shown in rings 1 and 2)

picture 1

Check security facilities

(safety helmet, safety belt Reflective clothing, labor protection shoes Warning warning tape, warning board)



picture 2

ladder truck

(battery power, switch valid Smooth lifting Whether there are exceptions during operation)



(2) Xingtai HVLS FAN regular maintenance

1. Before starting the fan, check whether the power line is intact, whether the grounding wire is intact and reliable, and whether there is foreign matter on the wind wheel. It can be started for use only after it is confirmed to be safe.

2. Do not throw anything under the fan; Do not jump under the fan. Users with low indoor roof height should pay more attention to avoid accidental injury.

3. Special attention should be paid to the fact that it is not allowed to lift infants and young children under the ceiling fan rotating by the industrial fan. To prevent human body and other objects from contacting the rotating fan and causing mechanical damage.

4. Check the reliability of the industrial fan suspension device before each use.

5. It is strictly forbidden to open the fan or contact the fan with bare feet or wet hands.

6. Large industrial fans need regular inspection and maintenance during use. Check the suspenders, screws, wiring bases, blades and other parts of the industrial fan for looseness, corrosion, corrosion, cracks, deformation and other abnormalities. If there are loose screws, tighten them in time, and replace the damaged parts in time.

7. The industrial large fan shall be tested when there is no one under the fan before use. If you find abnormal shaking, abnormal noise, strange smell or electric spark during the test run, please stop using it immediately, find out the cause and repair it before using it.

8. Start in fast gear to reduce the number of fan switch starts. Start the large industrial fan with fast gear first, and then change to slow and medium gear after it cools down indoors, so as to save power, protect parts and prolong the service life of the large industrial fan.

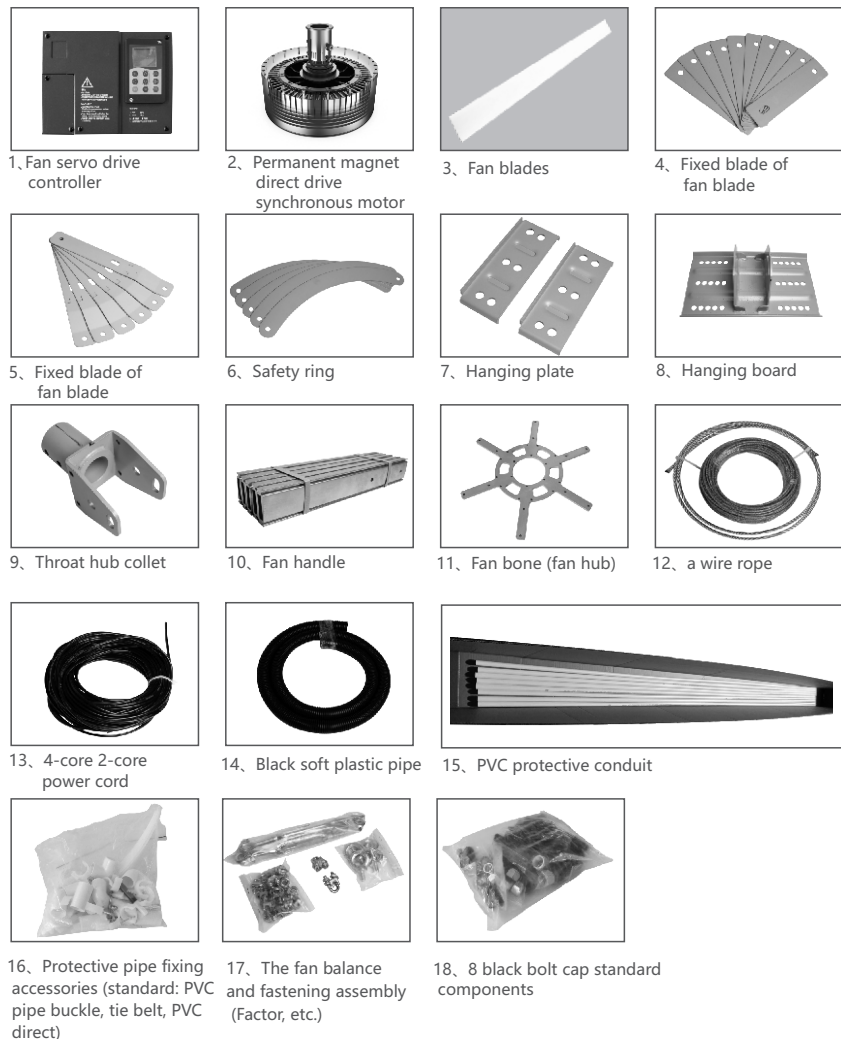


4 Common faults and handling methods

The following faults may be encountered during use. Please refer to the following methods for simple fault analysis:

Common troubleshooting methods		
Alarmcode	Causeoffailure	resolvent
Er-01	Currentoutoflimit	Check whether the configuration is reasonable, whether the encoder line is in good contact, and whether the driver output is using good contact with the motor
Er-02	overload	Check whether the configuration is reasonable and whether the motor is stuck
Er-03	Low bus voltage	Check whether the input voltage is lower than the minimum voltage limit
Er-04	High bus voltage	Check whether the braking resistance is normal, measure the resistance value and check the connection
Er-05	Input 380V phase failure	Check whether the power input is out of phase
Er-06	encoder failed	Check whether both ends of encoder line are connected normally
Er-07	retain	
Er-08	retain	
Er-09	Brake failure	Check whether the braking resistance is normal, measure the resistance value and check the connection
Er-10	Motor overtemperature	Check whether the motor is stuck and whether the temperature line is connected normally
Er-11	Driver overtemperature	Check whether the installation of the driver meets the requirements and ensure the normal ventilation of the driver
Er-12	retain	
Er-13	Module protection	Whether the connecting line with the motor is normal and whether the output is short circuited
Er-14	Control mode error	retain
Er-15	Current offset out of limit	retain
Er-16	Output phase loss	Whether there is phase loss from the driver output to the motor
Er-17	Overspeed protection	Speed exceeds limit
Er-18	Motor parameter identification failed	Reself-study
Er-19	Motor inertia identification failed	Reself-study
Er-20	retain	retain
other	Noise occurs during fan operation	There may be loose screws on the fan blades or sundries stuck in the motor spindle, Turn off the fan, check the blades and main shaft, and check the source of the problem
	Shaking when the fan is running	After turning off the fan, check whether the traction of the four wire ropes is firm, and check the extension Whether the screws on the rod are loose and whether the screws in the lifting area are tightened

5 Attached drawings of equipment parts names



6 Configuration list of HVLS FAN (packing list)

Xingtai hvls-fd1a series HVLS FAN complete configuration list (packinglist)

No.(accessory)	productname	Specificationandmodel	Single machine consumption (unit:piece,piece)	remarks
1	Servodriver	XT690-F05A	1	
2	Permanent magnet synchronous direct drive motor	DTFM3307、2855	1	
3	Fanleaf	2.35M、2.85M、3.45m	6□5□	
4	Upper(fixed)plateoffanblade		6□5□	
5	Fanbladelower(fixedpiece)plate		6□5□	
6	Safetyring	330	6□5□	
7	Hangingplate	400	1	
8	Hangingboard	400	2	
9	Suspender(extensionrod)	0.8M-1.5M	1	
10	Throathubcollet(liftinglug)	400	1	
11	Fanhandle	0.3M、0.4M	6□5□	
12	Fanbone(hub,hoop)	330-5(6)、284-5(6)	1	
13	Liftingring(includingnut)	M10	4	
14	Orchidbolt	M10	4	
15	Orchidbuckle	M10	16	
16	Wirerope6M	5MM	4	
17	powercord	4*1.5	25M	
18	powercord	2*0.3	25M	
19	PEhose	black AD25MM	1M	
20	PVCprotectiveconduit	20*9KG*1.0MM	9	
21	PVCdirect	20MM	8	
22	PVCbending	20MM	3	

No.(accessory)	productname	Specificationandmodel	Single machine consumption (unit:piece,piece)	remarks
23	I-steelconduitfixingclip	43*25*38MM	7	
24	Conduitfixingclip	20MM	14	
25	Tie	8*250MM	14	
26	Hexagonsocketscrew	M8*30	18	
27	Hexagonsocketscrew	M8*55	12	
28	Hexagonsocketscrew	M14*60	6	
29	Hexagonsocketscrew	M16*135	2	
30	Hexagonsocketscrew	M12*120	2	
31	Hexagonsocketscrew	M12*90	2	
32	Largeflattheadtappingscrew	M4*	5	
33	Plasticexpansionpipe	5MM	5	
34	Locknut	M8	12	
35	Locknut	M14	6	
36	Locknut	M16	2	
37	Locknut	M12	4	
38	Flatpad	M8	42	
39	Flatpad	M14	12	
40	Flatpad	M16	4	
41	Flatpad	M12	8	
42	Flatpad	M8	30	
43	Flatpad	M14	6	
44	Flatpad	M16	2	
45	Flatpad	M12	4	
46	Innerfoam	120*120*180 (MM)	3	
47	Instructions(warrantycard)	HVLS-FD1A Series	1	

Note:if there is any change to the new product,the standard configuration after the change shall prevail.

7 Warranty card

Xingtai HVLS-FD1 Aseries HVLS FAN

warranty card

Customer information	Companyname: address: Postal Code: contacts: contact information:
Agent and dealer information	Companyname: address: Postal Code: contacts: contact information:
Product information	Product model: Delivery time: Product identification code:
Fault information	(Maintenance time and content) : Maintainer: