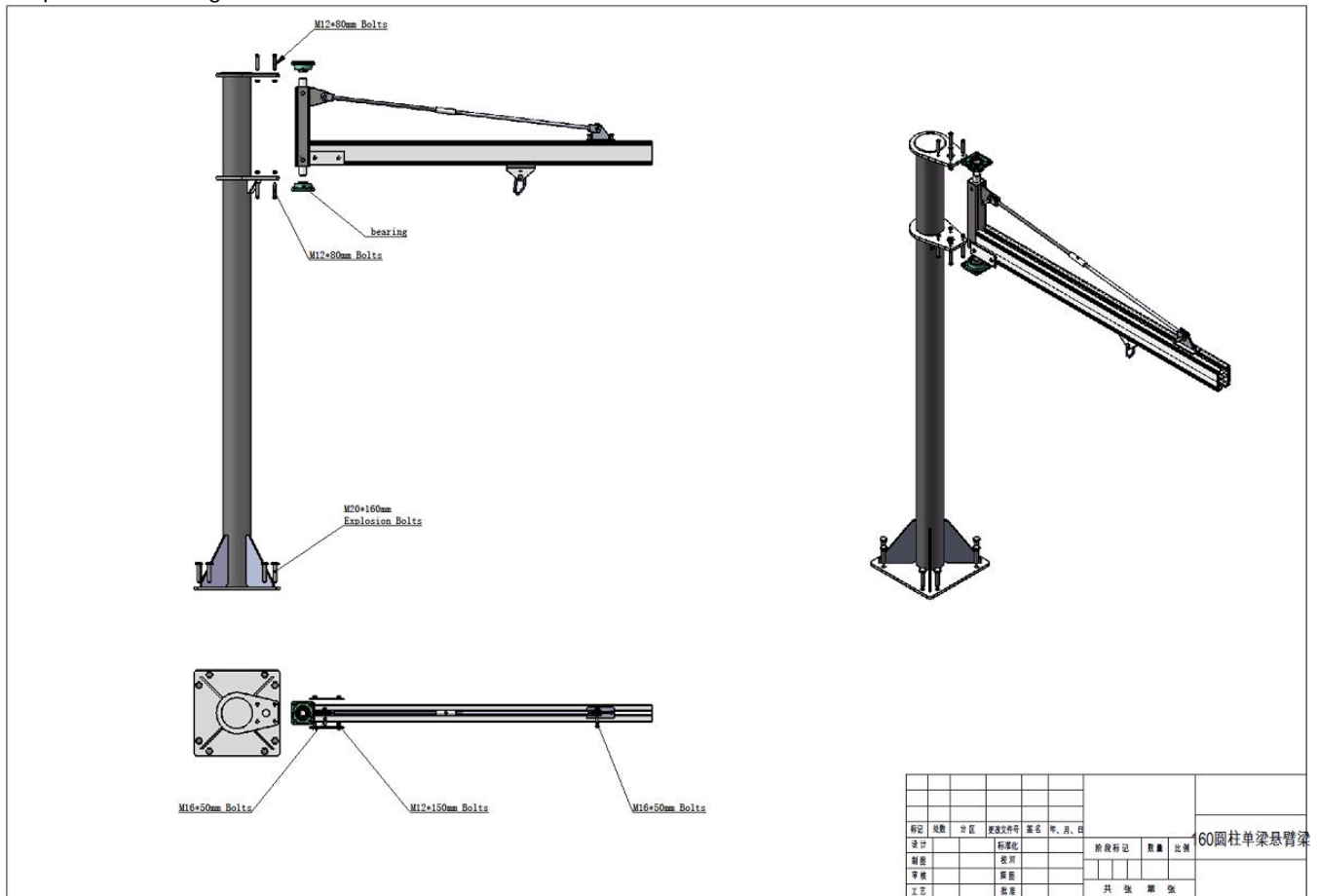


Installation guide for Jib crane of vacuum tube lifter

Composition diagram of Jib crane



The jib crane is made up of base plate, pillar, fixing system, rotation bearing, Swivel bearing bracket, Diagonal reinforcement and jib (cantilever) etc

Pework before installation

Check the needed parts

Expansion bolt or chemical bolts on the base plate

Fixed screw for the bearing

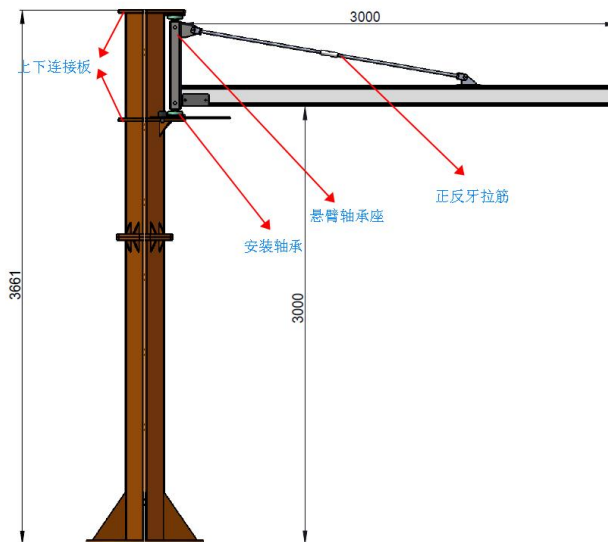
Up and down rotation bearing

Rotation smooth shaft

Diagonal steel bar with positive and negative teeth

Mounting plate of jib

Mounting washer of base plate



1. Tools required and auxiliary facility for installation

Tools: Big adjustable wrench, Allen wrench, hammer, percussion drill, drilling bit, level bar or level gauge.

Auxiliary facility: forklift, scaffold or platform truck etc.

2. Exam the installation condition of site

Whether the height from ceiling to ground reaches the request

Whether there is obstacle above the jib, whether there is collision for jib swing

Whether there is potential obstacle in the covering area of Jib

Make sure the thickness of concrete is not less than 200mm

Make sure there is power supply on site

Make sure whether there is compressed air on site

3. Installers and safety measures

Warning board and warning signal in installation area is a must.

Must wear safety helmet in the process of installation.

Must wear goggles and Protective earplugs in the process of installation.

Must wear protective mask in the process of installation.

Must wear work shoes protected with steel plate.

The clothing of the installer must be fitted, free of involvement, no drooping or floating ribbons, etc.

Must wear safety belt which is fixed in the safe and immovable object for aerial work.

The installers must coordinate with the worker on the ground for aerial work.

If welding is required on site, the Power indicator must be installed, and the ground wire must be connected.

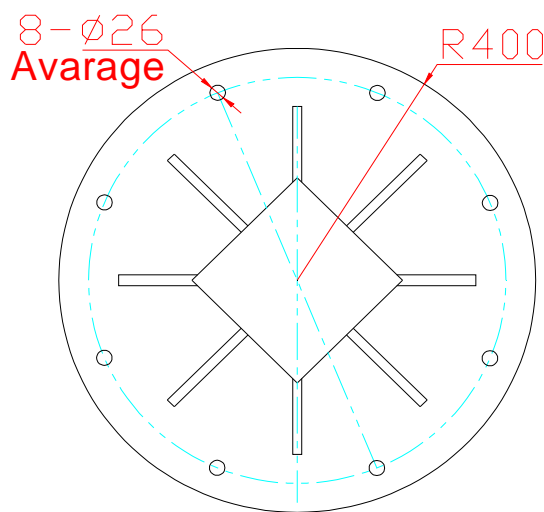
If welding is required on site, fire protection facilities such as fire extinguishers, fire masks, etc. are required.

Irrelevant personnel are prohibited from entering the installation area.

4. Installation steps

- F** With the aid of other equipment, erect the column in a vertical state.
- F** Determine the installation position of the pillar, and adjust the installation direction of the cantilever according to the visual inspection.
- F** After the position is fixed, drill a deep hole with a diameter of 22mm with an impact drill according to the opening position of the base plate, and the depth should be 180-200mm.

Installation diagram of base plate



- F** Clean up the dust accumulated in the hole.
- F** Put the expansion screw into the hole, and hammer lightly with a hammer to ensure that the expansion screw completely touches the bottom of the mounting hole.
- F** After the expansion screw is in place, insert the flat washer and the spring washer into the thread in turn, screw in the nut, and tighten with a wrench.
- F** Place a level bar or level gauge on the pillar, add and adjust washer on the base plate according to the actual situation, until the pillar is completely level, fully tighten all the bottom plate screws, and check the level of the column again.
- F** Put the bearing on the smooth shaft of the cantilever bearing seat. If the fit is tight, you can tap it with a hammer to ensure that the bearing will not come out.
- F** Install the rotating bearing seat into the upper and lower mounting plates on the pillar, pass the mounting screws through the mounting plate, fix the bearing, the fixing screw is M12, and tighten the anti-falling screw.
- F** Fix the diagonal brace with positive and negative teeth on the cantilever bearing seat.
- F** Insert the aluminum profile rail into the rail mounting hole and fasten it with a splint.

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- F** Fix the other end of the diagonal brace on the aluminum alloy cantilever and fasten it with screws.
 - F** Put the level bar or level gauge on the aluminum alloy track, adjust the cantilever to the horizontal position by adjusting the positive and negative teeth, and tighten all the screws.
 - F** After completing the installation, reconfirm the level of the pillar and cantilever.