

how much does vertical platform lift

What is the vertical lift platform?

The stairs are one of the oldest means of accessing an area that is higher in elevation. While for many, the stairs provide a powerful tool to move between floors, if you are mobility challenged, then the stairs can present a very big obstacle. Those who use wheelchairs or scooters must find a way to bridge these gaps, so some people use Wheelchair Lift Platform.

A wheelchair lift is a lifting device used to help disabled or impaired people access stairs or platforms, allowing them to move to different floors or heights more easily, wheelchair lift likes elevator, but it is for the most part self contained. There is no need to build a permanent shaft, like a residential elevator would require. Instead, wheelchair lift platform, usually only need to be secured to a concrete or wooden base. Wheelchair lifts are usually installed next to stairs or at the entrance of a building to provide convenient and fast barrier-free access for disabled or impaired people. They can be electric or hydraulic systems with different designs and functions to meet the needs of different users.

There are two common types of wheelchair lifts on the market. One is installed on the handrail of the stairs. The movement trajectory is determined by the style of the stairs. This type of wheelchair lift is also called stair lift, but due to its high price, and high requests for stair structure and space, it has a smaller market; the other is a conventional hydraulic vertical wheelchair lift, also called vertical platform lift, which is the most commonly used and popular one in daily life. This article will focus on the hydraulic powered vertical platform lift.

What are the components of a vertical platform lift?

A hydraulic wheelchair lift usually consists of the following main components:

Hydraulic cylinder: The hydraulic cylinder is the main actuator of the lift, which provides power through the hydraulic system to make the lifting platform rise or fall.

Hydraulic pump: The hydraulic pump is responsible for delivering hydraulic oil to the hydraulic cylinder, thereby generating pressure to push the hydraulic cylinder to move.

Control system: The control system includes a control panel, buttons, switches, etc., which are used to control the operation of the lifting platform, including operations such as rising, falling, and stopping.

Lifting platform: The lifting platform is a platform used to carry wheelchairs or passengers. It rises or falls through a hydraulic system, allowing wheelchairs or passengers to easily enter and exit stairs or high platforms.

The working principle of a hydraulic wheelchair lift is as follows:

When the user presses the button on the control panel, the control system sends a signal to the hydraulic pump.

The hydraulic pump starts to operate, pumping hydraulic oil from the tank and delivering it to the hydraulic cylinder.

The hydraulic oil in the hydraulic cylinder is pressurized, pushing the piston upward, thereby raising the lifting platform.

When the user releases the button or reaches the desired height, the control system stops sending signals to the hydraulic pump, the hydraulic pump stops working, the hydraulic cylinder stops moving, and the lifting platform stops rising.

When it is necessary to descend, the user presses the corresponding button, the hydraulic pump operates again, and the hydraulic oil is transported back to the reservoir, the hydraulic cylinder piston moves downward, and the lifting platform descends.

Through the working principle of the hydraulic system, the hydraulic wheelchair lift can provide stable and efficient up and down movement services for wheelchair users or people with limited mobility.

How to choose a vertical platform lift?

The most important factor to choose a vertical platform lift is the adaptability, because it's a 100% customized equipment. JNHC Lift supports customize the wheelchair lift platform. Different lifting heights and platform sizes can be customized according to customer requirements and actual installation space. The platform size of the vertical platform lift is large enough for a wheelchair and one person to use at the same time. According to the principle of the wheelchair lift, the standard load is 350kg. You can tell us your requirements for the platform size, and we will make a detailed plan for you.

So in order to get a suitable lift for your house, first please send us the actual photos of the site, and we will determine the opening direction and installation of our wheelchair lift according to your actual installation site.

Then we need to know your lifting height. For wheelchair lift, we have standard safety devices, such as: anti-touch pressure on the bottom of the car and emergency stop button. However, this lift is just a simple lifting machine to assist the disabled or the mobility impaired, so we do not recommend more than two floors, and it is safer to lift the height below 4 meters.

Finally, we will produce and assemble the wheelchair lift in the factory according to your requirements, so that you can fix it directly after receiving the equipment, connect the power supply and use it without additional assembly.

How is vertical platform lift installed?

The wheelchair lift platform are usually installed next to the porch of a house, beside stairs, or other conditions. Wheelchair lifts can be installed indoors and outdoors, but if it is the rainy season, we recommend installing a shed to prevent rain.

Some wheelchair lift platform are assembled before shipping. After receiving the goods, customers only need to fix it and power it on, and it can be used normally. But some sizes need to be assembled. Please don't worry, it's just some simple assembly. We will provide detailed installation steps. The main requirement is that the wheelchair lift has a solid base. The base can be made of wood or concrete, but it

should provide good drainage to prevent water accumulation and be strong enough to support the weight of the wheelchair lift and its passengers.

How much does vertical platform lift cost?

The price of vertical platform lift is varies, lots of factors affect the price, such as lifting height, landing door, platform door, automatic ramp and etc. For example if lifting height is 1500mm, no need extra doors or ramps, the price will be 2800 USD. If you need a detailed price and design according to your house, please do contact us to get offer.