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Diesel Articulated Boom Lift

HZ160H / HZ220H

The World of Hangcha
SINCE 1956



Diesel Articulated Boom Lift

HANGCHA diesel articulated boom lift is adapted to a specific operating environment, which can work in humid, corrosive, dusty, high or low temperature environments. It's ideal for outdoor construction and industrial applications, the engine-powered HANGCHA articulated boom lift provides lifting versatility with a combination of up, out and over positioning capabilities and outreach that's second to none.

The machine is a self-propelled machine which can work under different working conditions, fast travelling, slow travelling. It only takes one person to operate the machine finishing aerial working continuously: lifting and lowering, forward, backward, steering and rotary movement, compared with the traditional hydraulic platform, it greatly improves the work efficiency, reduce the amount of operating personnel and labor intensity.



Overview

- / Powerful off-road performance, high work efficiency, accuracy close to the operation target, intelligent maintenance.
- / Two speed hydraulic motors drive and efficient power transmission for optimum speed and torque on rough terrain.
- / 4WD and up to 40% gradeability for superior terrainability.
- / Fully proportional controls for precise boom positioning and smooth performance.

Complete Safety Devices

- / Standard four-link weighing devices; measures such as overload protection, automated detection device for detecting platform amplitude and height, automatic control of the movement speed and traveling speed of the boom, and high-precision weighing devices, to ensure the safety and stability of operation in all directions.

Traveling System

- / The closed running system consisting of electro-proportional variable pump, hydraulic control variable motor and flow distribution valve can gain relatively high movement speed and relatively low and stable running speed. The system works efficiently and generates less heat.

Control box

- / Full proportional control handle and CAN bus as well as PLC control system with high positioning accuracy are easy to be controlled and can be operated by the users at will.



Hydraulic System

- / Closed running system, speed easily to be adjusted, wide speed range; the boom's hydraulic system adopts double valve core circuit, which enhances the safety. The hydraulic components adopt European and American pure brands.





Safety Settings

- / The basket has automatic leveling function, which allows the basket to tilt up to 1.5° relative to the horizontal plane.
- / The booms lift, decent, extend and rotate smoothly, and has a buffer device.
- / Platform travelling and boom rotation are equipped with reliable brakes, to ensure the reliable control during operation.
- / The platform is equipped with a foot switch that you can only operate by pressing it down.
- / Travel speed and boom movement speed are automatically limited when platform amplitude and height reach a certain level. When the machine is parked on the ground with an uneven degree of more than 5°, the boom action will be limited.
- / Each cylinder is equipped with a balance valve or hydraulic lock to ensure that the cylinder will not act automatically, and the connection between the cylinder and the balance valve and the hydraulic lock is rigid.
- / The identifier is clear and has a specific meaning.



It has a base control and a platform control system that use commutation switches to convert. The basket control is used to lock the base control. The two systems are protected by shields.

