



HOIST



NEED FOR HOIST

The construction of big building sites require more products to be transmitted from ground floor to top floor, including the workers. It is impossible to move all the construction materials with the aid of man power in big building sites and also time taken for the process will be more. For overcoming the above said problems, the hoist is used in constructional sites for lifting the materials from top to bottom and from bottom to top.

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Hoist is a device for raising or lowering a load by means of a drum or wheel lift to which wraps the rope or chain. It can be operated by hand, is driven electrically or pneumatically, and the chain or wire rope fibres are used as lifting device. The load connected to the lifting means of a lifting hook

MAIN COMPONENTS

- Electric motor
- Winch unit
- Mast
- Rope mechanism with pulley
- Carriage unit
- Erection crane
- Mechanical Safety brake
- Base frame
- Rubber buffer spring

CONSTRUCTIONAL DETAILS

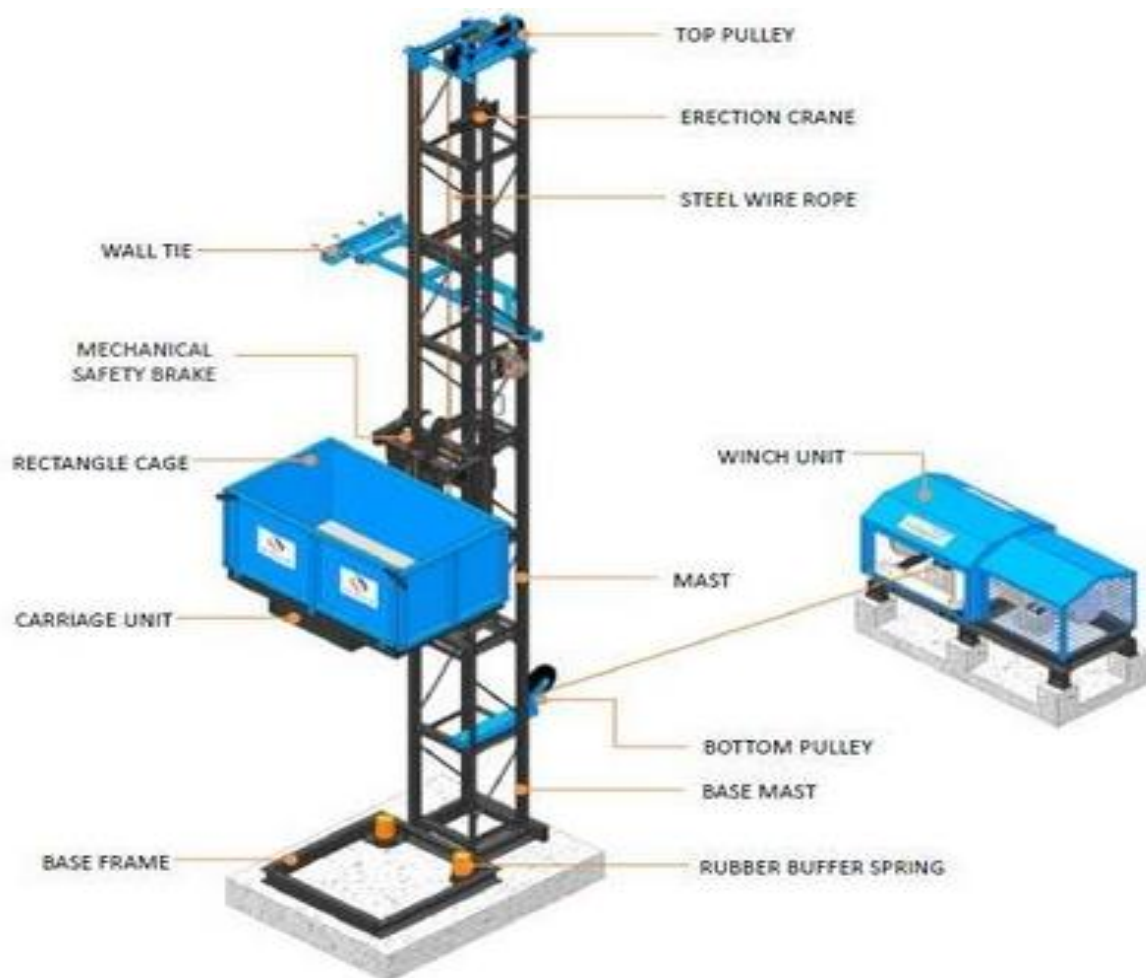
The winch is a mechanical device that is used to pull in (wind up) or let out (wind out) or otherwise adjust the tension of a rope or wire rope (also called "cable" or "wire cable"). In its simplest form, it consists of a spool (or drum) attached to a hand crank. The power for operating the winch unit is provided by the use of electric motor. The mas is the vertical frame assembly which serve as the back bone for the Hoist mechanism. The rope mechanism along with two pulleys one at top and another at bottom is placed on the mast. The carriage unit is



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fixed to the mast along with the rope mechanism for moving the carriage unit up and down. The base frame along with the rubber buffer spring is placed at the bottom. The mechanical safety brake is a safety device provided to safeguard the materials or workers inside the carriage unit during the transmission failure. The wall tie is used to fix the mast to the wall of the particular building.

The materials needed to be carried is placed inside the carriage unit, then with the help of the power from an electric motor the carriage unit is lifted by the rope mechanism assembly to the top. Then after unloading the electric motor spins in reverse direction, so that the carriage returns to its original position



APPLICATION

- Used in Big constructions like Shopping mall, Apartment, Big Companies.
- Used for transporting both goods and man.



HOIST



MANUFACTURING COMPANIES

- Jaypee India Limited
- Morrow
- Julian
- XMT
- Xuanyu