



amberautomation

vertical elevators

Vertical elevators allow product / pallets to be raised & lowered between single or multiple floor levels to facilitate loading and off-loading via operator input, with the most economical use of factory floor space.

Typically, an elevator will comprise of a support framework (mast), drive/lifting medium, a moving carriage and usually safety guarding.

The mast or support framework is constructed from standard steel sections and profiles forming a vertical mast / frame with a substantial baseplate for fixing purposes.

A standard powered conveyor section is attached to the cantilevered carriage frame and is rated to suit the loads imposed.

Raising and lowering of the carriage is via a series of precision chains and a two speed, braked, geared motor unit. The lifting chains are fixed to the carriage utilising standard anchor fixings & bevelled washers.

Substantial horizontal & vertical guide rollers guide rollers are attached the carriage framework to ensure stability during the operating cycle. The drive pack being sited at the base of the tower for ease of maintenance.

A series of limit switch sensors positioned along the vertical mast section, are used to control the travel speed and stopping positions of the carriage. Typically, the slower speed will be utilised when the carriage reaches its lower and upper positions on a "creep speed, to ensure correct alignment and positional accuracy.

If restrictions on personnel access around the elevator is required, they can be supplied with fully enclosed guarding, modular panel sections or bespoke designs, all to approved H&SE regulations.

Dependent upon vertical lift heights, the mast framework can be supplied as a stand-alone unit requiring only positioning and wiring to be fully operational.

A wide range of lifts with multi infeed and outfeed levels are available on this range of elevator products.

