

Capacity:

The maximum load a hoist is designed to lift or pull. Commonly expressed in Tons (1 Ton = 2,000 lbs)

Chain Fall Lines:

The number of lines of chain between the hoist body and bottom hook. Also referred to as "reaves."

Grade 100 Load Chain:

Load chain used only on manual chain hoists, where the grade number indicates the relative strength of the chain for its size (i.e., larger grade numbers indicate stronger chain)

Hand Chain:

The chain that the operator pulls to lift or lower the load

Hand Chain Drop:

Hand chain drop is a measure of how low the hand chain hangs. For a hoist, it is how low the hand chain hangs measured from the hoist's top hook. For a hoist suspended from a trolley, it is how low the hand chain hangs measured from the bottom of the beam that the trolley rides on.

Headroom:

It is measured when the hoist's bottom hook is in its uppermost position. For a hoist, headroom is the distance between the top and bottom hooks. For a hoist suspended from a trolley, headroom is the distance from the bottom of the beam to the bottom hook.

Lift:

The maximum distance the bottom hook can travel.

Load Chain:

The hoist's load bearing chain.

Minimum Radius for Curve:

Defines the sharpest curve of a beam of which the trolley can operate.

Overhaul Ratio:

The distance in feet that the hand chain must travel to lift or lower the load a distance of 1 foot.

Pawl:

A component of the Weston brake that prevents rotation, thereby holding the load.

Point Loading:

A condition where part of the load applied to the hook is supported by the hook's point, or tip. Such applications require a hook designed for point loading.

Pull to Lift Load:

The force in pounds required by the operator to lift a rated capacity load.

Split Load Double Reduction Gears:

A gear train in which the load is supported by two sets of gears, with each gear set incorporating two gear reductions.

Suspender:

A load bearing component designed to connect a hoist to a trolley.

Test Load:

The load applied to the hoist to confirm proper operating in accordance with ASME B30.16 and ASME B30.21 test requirements.

Weston Brake:

A mechanical brake that allows operation of the hoist to lift, lower, or move the load, yet securely holds the load in between hoist operations