

Vibrahoist

For the Galvanizing Industry



Electric and Pneumatic Models

The NAVCO® Vibrahoist System is designed to apply vibration to a suspended load. Most often used in the galvanizing industry to remove excess zinc from recently treated large and heavy parts, the Vibrahoist can be used in any application that requires vibration to heavy loads. For heavy loads, multiple units may be used in conjunction.

The unique action generated by the Vibrahoist transmits vibration to the load and isolates up to 98% of the vibration from the hoist and supporting structure, decreasing wear.

The Pneumatic Vibrahoist

The NAVCO® Pneumatic Vibrahoist develops vertical, linear vibration through a NAVCO pneumatic piston drive. The force output is 300 to 800 lbs. adjustable with air pressure. The pneumatic Vibrahoist is suitable for loads up to 5000 lbs.



Air Consumption: 35 ScFm @ 80 psig
 Height: 39" Weight: 550 lbs.



Pneumatic Vibrahoist removing excess zinc after hot dip galvanizing

Benefits to Galvanizing:

- Removes excess zinc before it solidifies
- Conserves zinc by reducing waste
- Saves labor by minimizing grinding and clean up time
- Improves finish
- Eliminates dead spots between parts.

The Vibrahoist is used in several applications during the hot dip galvanizing process as described below.

Pickling:

Mild agitation can speed up and improve the cleaning process. The result is improved finish quality and less re-work.

Kettle Dip:

Mild agitation of parts while in the kettle will reduce cook times, increasing potential throughput. Upon removal, vibration is effective in removing excess zinc before it solidifies, reducing clean up and conserving zinc.

Drossing:

During dross removal, vibration can significantly reduce the free zinc in the dross. Labor and drossing time is reduced.

The Electric Vibrahoist

The NAVCO® Electromechanical Vibrahoist develops vertical, linear vibration through two counter rotating electromechanical vibrating drives. The heavy-duty drives are manufactured by JOST and distributed in North America only by NAVCO®. They are designed for continuous duty at maximum force output of 5035 pounds.

Force output is adjustable from zero to 100 percent. These powerful drives are totally enclosed and non-ventilated, making them well suited for duty under adverse conditions.

The control system includes an adjustable electronic brake, a complete motor starter package, and a remote pendant control. The Electric Vibrahoist is suitable for loads up to 10,000 lbs.



Utility Reqs: 230/460 V, 3 phase, 60 Hz
 Power Consumption: 2.94 A @ 460 V
 Height: 29" Weight: 750 lbs.

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