

Shupper-Brickley's Dual Brake Air Hoist with Upper Limit Switch

Shupper-Brickley's Dual Brake Air Hoist is equipped with a Weston-type mechanical load brake and a fail-safe disc air brake to ensure maximum safety and compliance where dual redundant braking is required. The hoist also offers a lever type upper limit which stops the upward travel of the hook before it strikes the housing. This eliminates the stress on the load chain generated when the slip clutch is used as the upper limit.

Benefits of a Dual Brake Air Hoist:

- Dual Brake Air Hoists are ideal for use under conditions where critical lifts are required and dropping the load is not an option.
- Air motors are sealed against dust, moisture, and corrosive gases, where external air is kept out by internal pressure.
- Air motors will never overheat due to continual air flow through the motor. They perform well in high temperature environments and in high duty cycle applications.
- Spark resistant models are available for hazardous locations, such as chemical and petrochemical industries.
- Precise, variable controls make load placement easy.
- Dual redundant brakes ensure maximum safety by providing a secondary braking system should the primary brake fail.

Spark Resistant Models:

- Spark resistant hoists offer greater protection in hazardous environments where generating a spark would lead to an explosion.
- A spark resistant, stainless steel chain container is recommended.
- Spark resistant air hoists have lower speeds and derated capacities due to the use of stainless steel load chain.
- Since a spark resistant air chain hoist is a mechanical device, it precludes the need to comply with NEC hazardous location definitions that pertain to electrical specifications.

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Features:

- **Die-cast aluminum frame** - Lightweight, rugged, holds shafts and bearings in close alignment
- **Gearing** - Combination of precision cut, heat treated helical and spur gears for quiet, efficient operation
- **Air Disk Brake** – Fail Safe Disk Brake holds and provides exact load spotting and control
- **Mechanical load brake** - Positive action, spring set biased Weston type load brake, as secondary redundant brake
- **Overload protection** – hoist overload device protects against excessive overloads, clutch also acts at upper and lower limits
- **Multi-vane rotary air motor** - Eight vanes provide high torque smooth operation, positive starting and excellent control
- **Upper Limit** – Stops the upward travel of the hook before the lower block comes in contact with the housing.
- **Pendant control** - Pendant throttle handle is of the full flow design for excellent load spotting capabilities
- **Throttle valve** - Precision throttle valves meter the air for smooth operation
- **Components for spark resistance include:** Bronze Alloy Hooks with Stainless Steel Hook Latches, Stainless Steel Lower Blocks on Single Part Chain and Aluminum on 2- or 3- part chain, Chrome Nickel Non-magnetic Stainless Steel Alloy Load Chain, Bronze Limit Stop with Aluminum Limit Actuators and modified sprocket & guide.

Basic Hoist Data:

Rated Loads

Standard models: 1/4, 1/2, 1, 2, and 3-ton
Spark resistant models: 1/4, 1/2, 1 and 2-ton

Air Pressure Required

90 PSI

Air Consumption

70 SCFM (full load-full speed) slow speed model;
80 SCFM (full load-full speed) fast speed model.

Pendant Control Hose

6 foot pendant hose standard for 10 foot lift hoist,
longer hose assemblies up to 36 foot available.

Lift

10 foot lifts are standard. Additional lifts available.

Net Weight (Basic Hoist)

100 lbs.

Suspension

Hook, Lug, or Trolley (Plain, Geared, or Motorized)

Air Inlet Size

3/4 NPTF

Air Supply Hose Size

3/4 I.D. min.