

PRODUCT SPECIFICATION

ETJSQ-V140-50

Vacuum Tube Lifter

ETJSQ-V140-50 is an Easytech vacuum tube lifter. Load on sealed surfaces: 50 kg; Load on loose / porous surfaces: 45 kg; Lifting stroke: 1700 / 2500 mm; Pump / blower power: 3000 W; Electrical supply standard: 480 / 380 / 220 V; 3 PH, selected per order.



Series reference image.

Configuration, complete technical data and selection guidance

Read the specified load and movement with their conditions. This document supports purchasing and project definition; the supplied equipment instructions govern operation and maintenance.

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Configuration at a glance

Drive	Electric vacuum source
Mounting	Jib crane / rail
Materials	Boxes, Bags, Drums, Panels

Technical specifications

Parameter	Specification
Load on sealed surfaces	50 kg
Load on loose / porous surfaces	45 kg
Lifting tube diameter	140 mm
Lifting tube length	2500 / 4000 mm
Lifting stroke	1700 / 2500 mm
Pump / blower power	3000 W
Electrical supply standard	480 / 380 / 220 V; 3 PH, selected per order

Surface-dependent load and lifting stroke

The sealed-surface and porous-surface loads are separate conditions. The largest load option does not provide the longest stroke. Tube length, usable lifting stroke and total installation height are also different dimensions.

Compare the published configuration

Selection point	ETJSQ-V140-50 - Vacuum Tube Lifter	ETJSQ-V160-60 - Vacuum Tube Lifter	ETJSQ-V120-40 - Vacuum Tube Lifter
Load on sealed surfaces	50 kg	65 kg	40 kg
Load on loose / porous surfaces	45 kg	60 kg	35 kg
Lifting tube diameter	140 mm	160 mm	120 mm
Pump / blower power	3000 W	3000 W	2200 W
Lifting stroke	1700 / 2500 mm	1700 / 2500 mm	1700 / 2500 mm

Equipment and intended application

The same vacuum system grips the load and changes the length of the lifting tube. The operator meters air through the control handle to raise, hold or lower the workpiece. A jib or overhead rail carries the suspended tube assembly; the vacuum generator supplies airflow through a separate hose and filter.

Which load applies to your workpiece?

ETJSQ-V140-50 is listed at 50 kg on sealed surfaces and 45 kg on loose or porous surfaces. These are separate application conditions. For a bag or carton that leaks air, use the porous-surface figure as the starting limit and verify the actual filled package and suction head. The power and tube diameter below belong to this model; changing the head does not increase its rating.

Workpiece suitability and limits

Topic	Details
Bags and sacks	Position the bag head on an intact area away from seams, folds and loose valves. Test the filled bag rather than an empty packaging sample: porosity, fill movement and the outer layer affect the grip.
Cartons and containers	The complete pad sealing area must sit on a sound panel. Check lid strength, tape seams and any internal bag; lifting the outer carton must lift the contents without separating the packaging.
Panels and longer workpieces	Distribute the pads across the load to control bending and overhang. Changing to a larger head adds suspended mass and requires a new assessment of tube and suspension capacity.

Configuration and supply boundaries

Topic	Details
Lifting assembly	Tube, top swivel, control unit and workpiece-matched suction head form the suspended assembly. The table specifies the model rating and tube dimensions where available.
Handle selection	Type A is a single-hand arrangement; Type B uses a rocker control; Types C and E provide extended two-hand control. Handle reach, operator position and release access must suit both the lowest pickup and highest placement.
Supporting system	Column jib, wall jib or overhead rail is selected for the work area. Include the vacuum generator, hose routing, filter, electrical connection and support structure in the system layout.
Optional accessories	Quick-change heads, a vacuum-generator support bracket and an acoustic enclosure are separate configuration choices. A handle family maximum is not a new rating for the complete installed system.

Installation and commissioning

- Map the lowest pickup, highest placement and horizontal travel. The tube length, usable lifting stroke and available ceiling height are different dimensions; allow space for the trolley, swivel, handle and workpiece.
- Provide a suitable support structure and electrical supply for the selected generator. Keep the generator inlet, cooling path and exhaust unobstructed, and route the vacuum hose without tight bends or snagging points.
- At commissioning, check generator airflow direction, hose connections and filter installation. A trained technician sets the unloaded suspension position and then checks the loaded response with the actual workpiece.
- Mobile versions require the base, support feet and arm locks to be used in the specified operating and transport positions. A forklift used to relocate a unit does not make it permissible to travel with a suspended load.

Handling sequence

1. Inspect the lifting tube, supply hose, head seal, connection and support system. Establish that the selected head and packaging match the load.
2. Bring the head squarely onto the contact surface and apply suction using the fitted handle. Verify an even grip before raising the load.
3. Raise only enough to clear the pickup, keep control of the handle and guide the load through the planned travel path. Do not drag a load sideways with the tube.
4. Lower until the destination fully supports the load, then operate the release. Keep the release control distinct from the control used to lower the load.

Inspection, maintenance and replacement parts

Topic	Details
Before use	Check the head seal, tube folds, hose clamps and quick connector. Stop if the tube is cut, a connection is loose or the control response changes.
Air path	Check the dust filter according to actual dust loading. Isolate the generator before opening the filter; do not operate without its element. Use the cleaning method specified for that element.
Replacement selection	Identify the tube diameter and length, end connections, head seal profile and filter type. A hose of similar appearance is not automatically a lifting tube.
After maintenance	Recheck leakage and control response unloaded, then perform the prescribed functional checks before returning to production.

Troubleshooting priorities

Topic	Details
Will not lift the intended load	Check the workpiece seal, porous packaging, blocked filter and leaking tube or hose. A higher vacuum reading alone does not prove adequate airflow for a porous bag.
Unloaded head rises or drops unexpectedly	Stop and have the suspension adjustment and control unit checked. Do not compensate by closing an adjustment valve fully.
Grip deteriorates during lowering	Support the load and stop use. Have the head, air path and loaded control adjustment checked before restarting.

Frequently asked questions

What load should I use when selecting ETJSQ-V140-50?

ETJSQ-V140-50 lists 50 kg on sealed surfaces and 45 kg on loose / porous surfaces. Use the condition established for the actual workpiece, head and source. The lifting stroke is 1700 / 2500 mm; the load and travel must both fit the task.

When are separate surface load ratings used?

Porous or loose surfaces allow more leakage than sealed surfaces. If the table lists separate ratings, use the rating for the actual packaging and test a representative load. A sealed-surface figure does not apply automatically to sacks.

Does the tube length equal the lift height?

No. Tube length describes the lifting element, while stroke is its usable movement. Installation height also includes the support trolley, top swivel, control head and workpiece.

Can one system handle both bags and boxes?

It can be configured with suitable heads, but a head change also changes contact geometry and suspended weight. Each head-and-workpiece combination needs its own grip and operating check.

Information for application assessment

- Identify the workpiece material, dimensions, mass, contact surface and centre of gravity. Include the least favourable item in a mixed production range.
- Describe pickup and placement positions, required orientation changes, handling frequency and the site layout.
- Identify the available power or air supply and any host machine, crane, support structure or interface that must be retained.
- State the destination market and required documentation, accessories and packing constraints so the proposed configuration can be assessed as a complete system.

Document scope

This product specification supports equipment selection and project definition. It includes the model data and application guidance presented on the product page. The operating instructions supplied for the actual machine govern commissioning, testing, maintenance procedures and safe use; this specification does not replace them.

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