Vacuum Lifting- Glass

Clad-Lift

The revolution in window installation!

With the aid of these window robots, you can install windows, glass panels, doors and roofing and wall elements quickly, precisely and back friendly.

The Clad-Lift is very manoeuvrable and suited for various terrains thanks to the front drive wheels. The powerful electro-hydraulic system has a continuously variable speed regulation of all functions and is suited for heavy duty in the industry and construction sites. The simple control panel with coiled cable and ergonomic control handle with safety buttons make the Clad-Lift an extremely effective mobile vacuum lifter.

The Clad-Lift pays for itself in no time as a result of the time and manpower saved and its outstanding characteristics. The Clad-Lift is available in many variations with load-bearing capacity from 350kg up to 1000kg

For example, the Clad-Lift 350 is designed to handle glass, windows, panels, doors or other elements up to 350 kg in weight with great efficiency. This vacuum lifting device with hydraulic telescopic beam enables the operator to rotate the workpiece by 360 ° vertical and 180 ° horizontal.;

The front driven Clad-Lift 350 with its polyurethane foam filled wheels is extremely manoeuvrable, not only on levelled ground, but also off-terrain. The powerful, electrohydraulic system has a stepless speed control of all functions.;
With the slim design of the device, passing doors is never a problem;

The CLAD-LIFT 350 consists of the following modules:
Powerful front-wheel drive ensures best handling, both indoors and outdoors.
Both front drive wheels are equipped with electronic brakes.;

The vacuum pump with "Power Save", ensures saving battery resources.;

Sophisticated protection against overloading for maximum safety:
If 90% of the maximum load is reached, a red LED flashes on the control panel and a pulsing sound is heard. When 100% of the maximum load is reached, the red LED on the control panel lights up constantly and the acoustical signal sounds continuously.
In case of overloading, all hydraulic cylinders can operate in return only.;

Lifting arm with manual, horizontal adjustment (up to 100 mm) for the precise positioning of the workpiece.
The lifting beam can be up-lifted with load to approx. 2850 mm.
The tower function allows hydraulic lifting or lowering by 500 mm.

The telescopic extension of the lifting beam makes the fast and exact fitting of windows possible while the number of required staff is reduced.

The multi-way front on the lifting beam makes the load movable in all dimensions. The workpiece can be turned 180 °. The front can be manually moved sideways, turn 90 ° to the right and left, and rotate 360 ° endlessly. This is made possible by the integrated 2-circuit vacuum rotation system.;

The multifunctional control panel is user-friendly designed and equipped with integrated function buttons and signal lamps. It is also provided with a spiral cable that enables the user to control the machine even when he is in the area of the workpiece e.g. a window that has to be fitted etc..

Driving is controlled by the ergonomic operator steering handle. This handle is provided with safety functions that meet even the most stringent safety standards. The emergency stop secures the operator against crushing hazard and the spring-loaded accelerator switch ensures that the machine immediately brakes if the handle is released.;

Low-maintenance bearings and plain bearings ensure long life and low maintenance costs.;

The integrated battery charger makes charging via a 230V socket possible anywhere anytime. The charging time is approximately 8 hours.

Technical data:
Weight including ballast weight: 617 kg
Weight without ballast weight: 512 kg
Ballast weight: 7 x 15 kg
Outer length: 1.740 mm
Outer width: 690 mm
Max. Lifting capacity: approx. 350 kg
Max. Load at maximum extension: approx. 200 kg
Min. Extension (middle of the drive wheel to suction plates): approx. 550 mm
Max. Extension Lifting Beam (horizontal): approx. 1050 mm
Max. Height to center of lifting yoke: approx. 2850 mm
Side shift (manual): approx. 100 mm
Tower fine adjustment (hydraulic): approx. 500 mm
Rotation: 360 degrees (endless)
Suction plates: 4 x Ø 270 mm
Batteries: 2 x 12V (95 Ah);

The device is ready to use and is checked according the current safety regulations EN 13155 and BGR 500 as well as the English ASME B30 COMMITEE.;



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Clad-Tec

Fast window transport – even at great heights!

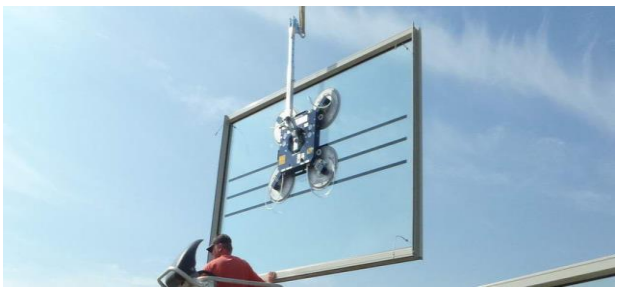
What would wooden window frames be without the suitable pane? With the aid of our mains-independent vacuum lifter, you can transport glass panes on construction sites even at great heights.

The pivoting and slewing vacuum lifter is a tremendous aid when it comes to installing heavy and unwieldy glass panes. The UV resistant suction plates ensure a scratch free transport. The powerful vacuum unit, a dual-circuit system and a acoustic warning system guarantee maximum safety when used on site. Powerful batteries and a built-in charger allow for a flexible mains-independent use. The unit can be easily transported as a compact unit and is available with a load bearing capacity of 500kg – 1000kg.

The security during work is ensured by a four-circuit system.

For vertically and horizontally transportation inside and outdoors.

Technical data:
Load capacity with 50 % vacuum: 500 kg.
Dimension: 1050 x 1050 mm (suction cups at the lift frame)
Material: Lift frame and elongation: Aluminium, RAL 5003
Telescopic beam: steel, galvanized
4 suction cups AL 410R
net weight: about 42 kg;
Membrane pump VAL 0,6, 12 V, 1,5 A, 0,6 m^3/h (max. volume flow), max. vacuum 60%.
In whole 4 pumps.
Energy supply (battery): 2 x 12 V / 4,5 Ah
battery charger integrated used by a 230V / 50 Hz power plug



Battery capacity for at least 300 suction processes

Handling:
The vacuum will be switched on and off by the vacuum valve.;

Description:
- Used for glass- or window handling
- The vacuum lifting device can be rotated horizontally 360° and there are locking possibilities at 8 positions.;
- The glass panel can be overturned continuous up to 90° and locked mechanical in vertically position.;
- Special design for the operations at the building yard for the handling with a truck-mounted crane.;
- Whole construction in light-metal design of aluminium.;
- The length of the telescope expositor is adjustable, and the balance point is lockable in 3 different positions. Thus, a lot of dimensions and situations of installation are possible;
- The external dimension of the suction cup can be enlarged with lengthening pieces.;
- The control mechanism for the vacuum function with a 12V-battery.
  After switching on the unit the vacuum pump runs as the vacuum reservoir has a defined vacuum. The pump stops starts running automatically.
  So the system ensures a constant operating vacuum.
  Therefore, the vacuum pump doesn't run all the time, the discharging of the batterie thereby is decelerated.
  When there is a drop down of the vacuum less than 50% an acoustic warning signal is set off.
  The load can be set down in sufficient time.
- A quick charger for the battery with preserve function is integrated.

- **Safety system:**
  The vacuum lifting device is equipped with 4 acoustic warnings, vacuum reservoirs and non-return valves. The monitoring of the vacuum is affected with a vacuum switch and an optical vacuum monitoring facilitated with a vacuum meter well visible with Red-Green range.

- To handle between front and frame the unit can be used without the hanging beam.
  There are two lifting eyes at the base body.

- Without the hanging beam the unit has a depth gauge with approx. 120 mm.

AERO-LIFT vacuum lifting devices are designed and built in compliance with the applicable safety standards according to EN 13155 and ASME B30 and are tested and documented according to the applicable accident prevention regulations BGR 500 and the machinery directive 2006/42/EG, annex II A!

All welding work is carried out according to the applicable standards in a professional way.
Verifiable statics are given.

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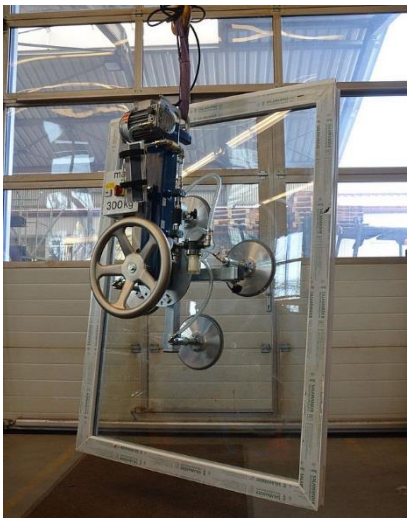
Clad Window



Mode of transportation:
vertical transport +/- 90° rotation
Designed for the interior.;

Technical data:
Lift force at a vacuum of 60%: 300 kg.
Total height: approx. 1050mm
Net weight (without optional equipment): 57 kg;

Layout with functional description:

- The frame with three-hole crane hook eye is used as a vacuum reservoir.
  The body element is painted in RAL 5003, sapphire blue.
  Integrated are a non-return valve and a vacuum switch.

- The Hand slide valve has a locking device for the function "Vacuum - Release".
  The locking device prevents an accidental releasing.
  The vacuum gauge (Ø 63 mm) can be seen easily.
  The vacuum can be monitored by means of the red and green fields.;

- The central crossed beam (length 650mm) with 4 suction plates AL 250R with
  grooved rubber pads, external Ø: 250 mm,
  Perbunan grey.
  The used seals can be replaced easily and fast.
  The vacuum pads are double spring-loaded and suspended flexibly. They can be running
  smoothly on the cross beams by means of clamps.;

- The central crossed beam is revolvable +/- 90° vertically with a hand wheel.;

- The vacuum supply is ensured by a vacuum pump, type VAL 4T,
  with a vacuum capacity of: 4 m^3/h, max. vacuum 85 %, voltage: 400V, 50 Hz,
  performance: 0.18 kW, duty cycle: 100 %.
  High-quality product made in Germany.
  To protect the pump, the warning system is provided with a vacuum filter with an air-filter element.;

- The intelligent electronic warning system (required according to EN13155) with a main "ON/Off" switch responds to a vacuum
  loss below 60% or to power outages.
  In these cases, the system will generate an acoustic warning signal (horn).
  The main "On/Off" switch is located centrally at the warning system.;

The device is delivered ready for use, including a pole-reversible CEE plug (400 V) and a connecting cable with a length of 3 m.;

AERO-LIFT vacuum lifting devices are designed and built in compliance with the applicable safety standards according to EN 13155 and ASME B30 and are tested and documented according to the applicable accident prevention regulations BGR 500 and the machinery directive 2006/42/EG, annex II A!
The final acceptance tests are carried out in compliance with VDE 0113 and EN 60204.;

All welding work is carried out according to the applicable standards in a professional way.
Verifiable statics are given.