

ALL ↓ ↑ VAC ↓ ↑ LIFT

ALL-VAC-LIFT
4621 Redstart Street
Houston, Texas 77035

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Phone + 1.832.615.9110
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ERGONOMIC FORKLIFT VACUUM ATTACHMENTS FOR ALL MATERIALS HANDLING

FOR LIFTING METAL, WOOD, PLASTIC, STONE, CONCRETE, PAPER, AND MORE

In Warehousing, Order Picking, Palletizing, Loading, Conveying, Production.



HIGH PERFORMANCE & HIGH CAPACITY ALL-VAC-LIFT® VACUUM LIFTING SUCTION CLAMPS

ALL ↓ ↑ VAC ↓ ↑ LIFT OVERVIEW OF SOLUTIONS:

WHERE: ALL-VAC-LIFT forklift handling systems are utilized worldwide to expedite the arduous task of transporting materials throughout the complete life cycle maze of transport from factory floors to shipping docks or trucks, and at the site of installation field for end-use placement. The system can work on forklift, aerial lift, crane, straddle, walkie ...

ERGONOMICS ⇔ ECONOMICS: ALL-VAC-LIFT vacuum handlers allow operators to lift materials rapidly and gently from the top or side surfaces without extraneous ground crew to run slings in and around the work area. Lifting loads up to 25 tons is possible. Ergonomic concerns can be considered and realized for increasing safety in the work environment. Rapid returns on investment due to increased productivity, less down time, and less potential injuries.

GENERAL FEATURES: ALL-VAC-LIFT Vacuum lifting solutions reduce load movement quickly to on the order of seconds where full status of the vacuum level of system is apparent to the support machine operator via a high frequency radio controller or cabled pendant with real-time feedback on vacuum level, lift readiness, and more. ALL-VAC-LIFT systems are fabricated for heavy-duty usage and incorporate the highest level of quality and the most advanced technical design on the market. Fuzzy logic control of the vacuum supply which is driven by a vacuostatic battery system saves pump life and extends battery charge cycle, while it eliminates many common problems associated with other "legacy" systems. ALL-VAC-LIFT lifters add to your production value, safety, and bottom-line savings.

LOAD APPLICATIONS & TRANSPORT MOVEMENT:

- **LOAD MATERIALS** HANDLING PAPER, STONE, CONCRETE, METALS, WOODS, PLASTIC, COMPOSITE, FERROUS / NON-FERROUS, POROUS / NON-POROUS;
- **LOAD SHAPES** LIFTING PIPE, PLATE, SHEET, PANEL, DOME, ROLLS, COILS, REELS, BOXES, BAGS, SLABS, CARTONS, FLATS, ROUNDS, BARS, ANGLES, TUBES, ETC.
- **LOAD ARTICULATING** FLAT LIFTING, TILTING LOADS 90 DEGREES OR FLIPPING 180 DEGREES AND ROTATING LOADS 90 OR 360 DEGREES. COMBINED FUNCTIONALITY OF ROTATING AND TILTING.



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GENERAL TECHNICAL FEATURES:

ALL ↓ ↑ VAC ↓ ↑ LIFT Lifters

For the Transport of Material Supply in it's Complete Life Cycle from Factory to End Use

ALL-VAC-LIFT is ideal for the handling of panels of steel, plastic, or other compositions. Unit can be designed for use with a forklift, cranes, back-hoes, front-loaders, HIAB, or aerial lifts.

Primary benefits include:

- Reduced crew size saves labor
- Improves worker safety in direct process
- Prevents damage to pipe frequently caused by manual handling and rigging.
- Shortens handling time, expedites scheduling.
- Returns savings on Investment by way of technologically advanced design.



General Overview Technical Data:

Power Supply	Self-contained DC or Cabled AC
Recharging	Re-charger included
Lift Duty Cycle	AVG: 8 to 20 hours duty
Load Carrying Capacity	From 100 lbs up to 10 tons
Unit Weight	From 100 lbs up to 2000 lbs
Unit Base Dimensions	varies
Suction Pads	From 300 mm x 300 mm up
Vacuum Safety Factor	min: 4 : 1 for vertical hold
Number of Pads	min: 1
Size of Pads	varies upon capacity
Vacuum Supply	Pump is vacuostatic about 0.6 to 0.8 bar range, turning off and on to save power and pump lifespan.
Vacuum Attach Release	from 2 to 5 seconds
Safety Features	Vacuum Reservoir, Audible / Visual Alarms, Battery Gauge,
Control	High Freq. Radio Pendant or Cable.
Load Articulation	TILT, FLIP, ROTATE.
Support Machine	Hoist, Forklift, Crane, etc



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SAFETY, QUALITY, PERFORMANCE, TECHNOLOGY & ADVANTAGES

ALL↕↕**VAC**↕↕**LIFT** inherent and compounding safety features.

FORCE SAFETY FACTORS (as per ASME/ANSI B 30.20 Guidelines)

- ⇒ - Vacuum hold force tested for minimal safety factor of 2 times the rated load capacity. (THIS MEANS RATED CAPACITY IS ½ ACTUAL CLAMPING FORCE)
- ⇒ - Structural safety factor designed to 4 or 5 times the rated load capacity.

AUDIO-VISUAL VACUUM STATUS ALARM SYSTEMS:

- ⇒ - Vacuum Level Sensors
- ⇒ - Vacuum Gauge
- ⇒ - Green lamp, operating when the vacuum level is over 75%
- ⇒ - Klaxon horn & 1 flashing red lamp, operating when vacuum drops under 75%.
- ⇒ - Complete integration with safety reservoir with controls and the above indicators.

ADVANTAGEOUS TECHNOLOGY FEATURES AND OPTIONS :

- ⇒ - Safety reservoir serves as load beam simultaneously.
- ⇒ - High Frequency radio controller or cabled pendant available.
- ⇒ - System designed to hold panel with un-powered vacuum supply greater than 1 hour.
- ⇒ - System designed to hold loads with vacuum supply under battery power greater than 1 day.
- ⇒ - Battery system is free from vibrating diesel generators or any outside power source.
- ⇒ - System will not pick up loads when vacuum seal criteria is not sufficient for lift.
- ⇒ - Vacuostatic circuitry prolongs pump life and extends duty lift cycle of battery pack.
- ⇒ - Load sensors prevent accidental release unless load is supported underneath.

LIFT PERFORMANCE ATTRIBUTES:

- **ELECTRIC BATTERY LIFTERS**
 - 1 RECHARGE PER 50-75 LIFTS MINIMUM.
 - SELF CONTAINED
 - TILTING COMPONENTS 1MINUTE WORK, 9 MINUTES REST.
 - CAPACITIES FROM 200 LBS TO 20 TONS.
 - POWERED ROTATION, FLIPPING, TILTING, ETC
- **ELECTRIC AC LIFTERS**
 - 110 VOLTS UP TO 460 V AC DEPENDING ON PUMP REQUIRED.
 - CONTINUOUS DUTY
 - VARIETY OF PUMP TYPES
 - POWERED ROTATION, FLIPPING , TILTING , ETC

INSTALLATION MAINTENANCE AND WARRANTY DETAILS:

- **INSTALLATION - NONE REQUIRED**
- **MAINTENANCE – MINIMIZED .**
- **COMMISSIONING – TO BE CARRIED OUT BY CUSTOMER.**
- **GUARANTEE: 12 MONTHS PERIOD FROM DATE OF COMMISSIONING,**
- **COVERING: FAULTY CONSTRUCTION AND/OR PARTS.**
- **FINISHING: ALL STEEL PARTS, PRIMERED AND PAINTED IN SAFETY COLORS.**
- **SPARES LIST INCLUDE: LINE FILTER, HOSING, PUMPS VANES, SUCTION PAD SEAL MATERIAL, VALVES, CLAMPS.**

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POWER ROTATION ↻ POWER TILTING SYSTEMS



ALL ↓ ↑ VAC ↓ ↑ LIFT MODEL VLB-P-X-C-PTPR

POWER TILTER POWER ROTATOR

*For Articulating Metals, Stones, Glass, Panels
Wood, Drums, Pipes, Slabs, etc.*

ALL VAC LIFT is ideal for articulation and handling of various materials. Unit is designed for use with a forklift, aerial lift, or other support cranes.

Primary benefits include:

- Reduced crew size saves labor
- Improves worker safety in load transport process
- Prevents damage to materials frequently caused by manual handling and rigging.
- Shortens installation time, expedites scheduling
- Returns savings on Investment

Technical Data: MODEL VLB-P-X-PTPR

Power Supply	24 volt DC self-contained
Recharging	Re-charger included
Lift Duty Cycle	min: 75 lifts per charge
Load Carrying Capacity	up to 5500 kgs / 10000 lbs
Unit Weight	225 kgs / 450 lbs
Unit Base Dimensions	1.0 m x 1.0 m x 0.45 m
Suction Frame	min. 2.0 m x 1.0 m
Vacuum Safety Factor	Min 4 : 1
Number of Pads	min. 2 heavy duty or more
Size of Pads	min. 300 mm x 300 mm
Vacuum Supply	Pump is vacuostatic about 0.6 to 0.8 bar range, turning off and on to save power and pump lifespan.
Vacuum Attach Release	from 2 to 5 seconds
Safety Features	Vacuum Reservoir, Audible/Visual Alarms, Battery Gauge,
Control	High Freq. Radio Pendant
Load Articulation	Power Tilt / Power Rotate 90 degrees or 180 degs in seconds!
Support Machine	Hoist, Forklift, Crane, etc.

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180 DEGREE POWER FLIPPING SYSTEMS



ALL ↓ ↑ VAC ↓ ↑ LIFT MODEL VL-P-X-C-FLIP

POWERED FLIPPING SYSTEM

For Rapid and Easy Manipulation of Loads

ALL VAC LIFT is ideal for flipping and handling of Stone, Glass, Metal, Panel, Wood, etc regardless of composition. Unit is designed for use with a forklift, straddle, walkie, or other support cranes.

Primary benefits include:

- Reduced crew size saves labor
- Improves worker safety in transport process
- Prevents damage to loads frequently caused by manual handling and rigging.
- Shortens installation time, expedites scheduling
- Returns savings on Investment

Technical Data: MODEL VL-P-X-FLIP

Power Supply (B OR E)	DC battery or AC cable
Recharging	Re-charger included
Lift Duty Cycle	continuous
Load Carrying Capacity	From 100 lbs to 10 tons.
Unit Weight	From 175 kgs or 350 lbs
Unit Base Dimensions	Varies up design.
Suction Frame	min. 2.0 m x 1.0 m
Vacuum Safety Factor	Min 4 : 1
Number of Pads	min. 2 heavy duty or more
Size of Pads	min. 300 mm x 300 mm
Vacuum Supply	Pump is vacuostatic about 0.6 to 0.8 bar range, turning off and on to save power and pump lifespan.
Vacuum Attach Release	from 2 to 5 seconds
Safety Features	Vacuum Reservoir, Audible/Visual Alarms, Battery Gauge,
Control	High Freq. Radio Pendant
Load Articulation	Powered 180 degree flipping in 45 seconds
Support Machine	Hoist, Forklift, Crane, etc.

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POWER TILTING SYSTEMS



ALL ↓ ↑ VAC ↓ ↑ LIFT MODEL VLB-P-X-C-PT

POWER TILTER

For Lifting and Tilting 90 degrees Metals, Stones, Glass, Panels, Wood Boards, Drums, etc.

ALL VAC LIFT is ideal for tilting and handling of various materials. Unit is designed for use with a forklift, aerial lift, or other support handlers.

Primary benefits include:

- Reduced crew size saves labor
- Improves worker safety in load transport process
- Prevents damage to materials frequently caused by manual handling and rigging.
- Shortens load movement, expedites scheduling
- Returns savings on Investment

Technical Data: MODEL VLB-P-X-C-PT:

Power Supply	24 volt DC self-contained
Recharging	Re-charger included
Lift Duty Cycle	min: 75 lifts per charge
Load Capacity (C)	up to 10000 kgs / 10 tons
Unit Weight	From 225 kgs upwards
Unit Base Dimensions	1.0 m x 1.0 m x 0.45 m
Suction Frame	min. 2.0 m x 1.0 m
Vacuum Safety Factor	Minimum 4 : 1
Number of Pads (P)	min. 2 heavy duty or more
Size of Pads	min. 300 mm x 300 mm
Vacuum Supply	Pump is vacuostatic about 0.6 to 0.8 bar range, turning off and on to save power and pump lifespan.
Vacuum Attach Release	from 2 to 5 seconds
Safety Features	Vacuum Reservoir, Audible/Visual Alarms, Battery Gauge,
Control	High Freq. Radio Pendant
Load Articulation	Power Tilt / Power Rotate 90 degrees or 180 degs in seconds!
Support Machine	Hoist, Forklift, Crane, etc.

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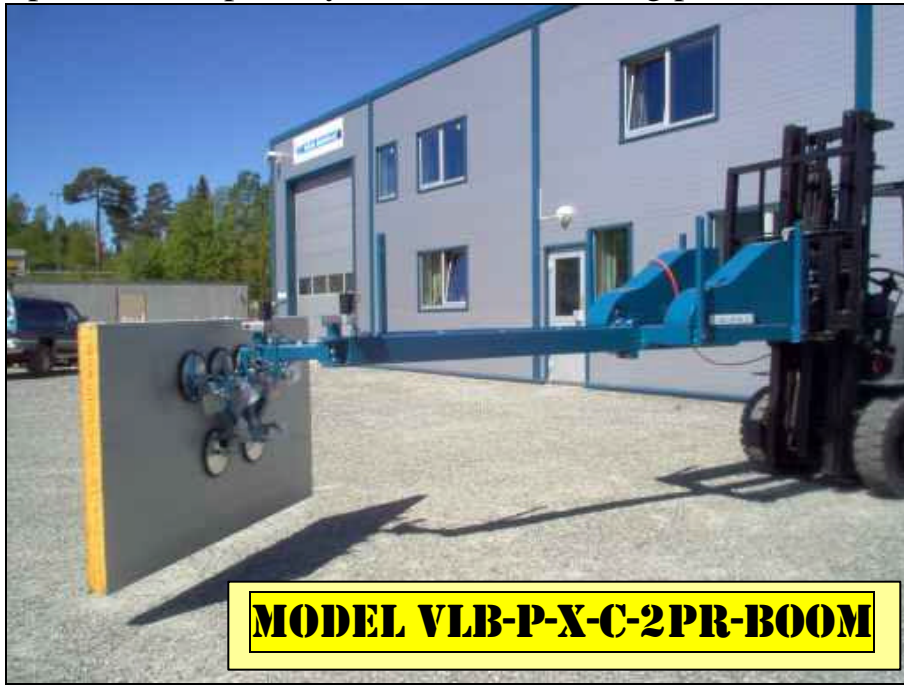
CUSTOM DOUBLE ROTATOR SYSTEMS

ALL ↓ ↑ VAC ↓ ↑ LIFT MODEL VLB-P-X-C-2PR-BOOM

DUAL POWER ROTATOR BOOM

Lifting and Dual Articulating Rotation of Slabs, Panels, Blocks, Sheets, etc.

ALL VAC LIFT is ideal for the handling of panels or slabs of stone, steel, plastic, or other compositions. Expedite your material handling process in seconds.



Technical Data: MODEL VLB-P-X-C-2PR-BOOM:

Power Supply	Self-contained DC
Recharging	Re-charger included
Lift Duty Cycle	AVG: 75 lifts minimum per charge
Load Carrying Capacity	From 100 lbs up to 5 tons
Unit Weight	From 100 lbs up to 2000 lbs
Unit Base Dimensions	varies
Suction Pads	From 300 mm x 300 mm up
Vacuum Safety Factor	min: 4 : 1
Number of Pads	min: 1
Size of Pads	varies upon capacity
Vacuum Supply	Pump is vacuostatic about 0.6 to 0.8 bar range, turning off and on to save power and pump lifespan.
Vacuum Attach Release	from 2 to 5 seconds
Safety Features	Vacuum Reservoir, Audible / Visual Alarms, Battery Gauge,
Control	High Freq. Radio Pendant or Cable.
Load Articulation	DUAL ROTATION IN SECONDS.
Support Machine	Hoist, Forklift, Crane, etc

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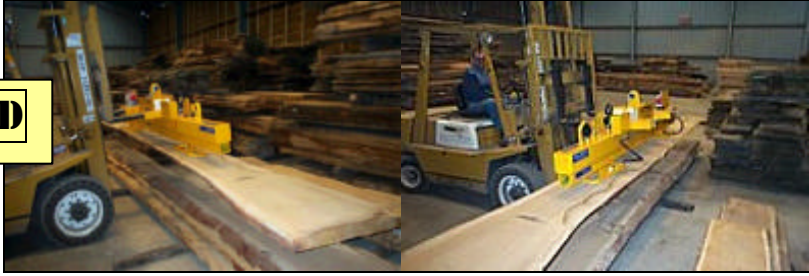
APPLICATIONS & CASE STUDY OVERVIEW:

HANDLING STONE, PRECAST, METALS, PANELS, GLASS, WOOD, PLASTIC, COMPOSITE, PAPER, CARDBOARD, DRUMS, ETC.



VLB-2P-OX-1100-PT STONE

VLB-2P-OX-500-FLAT WOOD



VLB-8P-4X-1500-PT

VLB-4P-2X-1250-PT



VLB-2P-OX-1100-DRUM

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CASE STUDY OVERVIEW (CONT'D)

Robust Dual Function Crane and Forklift ALL-VAC-LIFT systems

Capacities available up to 20 tons handling metals, concrete, stones, etc.

Self contained battery operation with vacuum reservoir tank with dual compatibility mounting to crane hoist or forklift in seconds.

Units can be designed to lift and tilt on crane or forklift



VLB-2P-0X-1100-POWER TILTER - CRANE & FORKLIFT

Power Tilter MODEL VLB-2P-0X-1100lbs-PT shown on hoist and forklift.



VLB-5P-0X-11000-FLAT - CRANE & FORKLIFT MOUNT

Power Lifter MODEL VLB-5P-0X-11000lbs-FLAT on hoist and forklift.

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PORTABLE COIL ROLL & REEL SYSTEMS

ALL ↓ ↑ VAC ↓ ↑ LIFT MODEL VLB-P-X-C-COIL

COIL ROLL & REEL LIFTERS

Lifting and Articulating of Coils, Reels, & Rolls of metals, papers, etc ...

ALL VAC LIFT is exceptional for the handling of rolls, coils, and reels. Expedite your material handling process in seconds in warehousing, production, or shipping.



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MODEL SELECTION & LOAD SPECIFICATION

GENERAL MODEL GUIDE: VLE-P-X-C-TYPE

WHERE "VLE" = VAC LIFT ELECTRIC POWERED
WHERE "E" IS AC OR DC BATTERY (self-contained).

WHERE "P" = NUMBER OF PADS

WHERE "X" = NUMBER OF CROSSARMS

WHERE "C" = CAPACITY FROM 100 LBS TO 20 TONS.

WHERE "TYPE" DEFINES LOAD ARTICULATION:

- **POWER FILTER: VLE-P-X-C PT**
- **POWER FILTER POWER ROTATOR: VLE-P-X-C PTPR**
- **POWER FLIPPER: VLE-P-X-C FLIP**
- **STRAIGHT HORIZONTAL LIFTER: VLE-P-X-C FLAT**

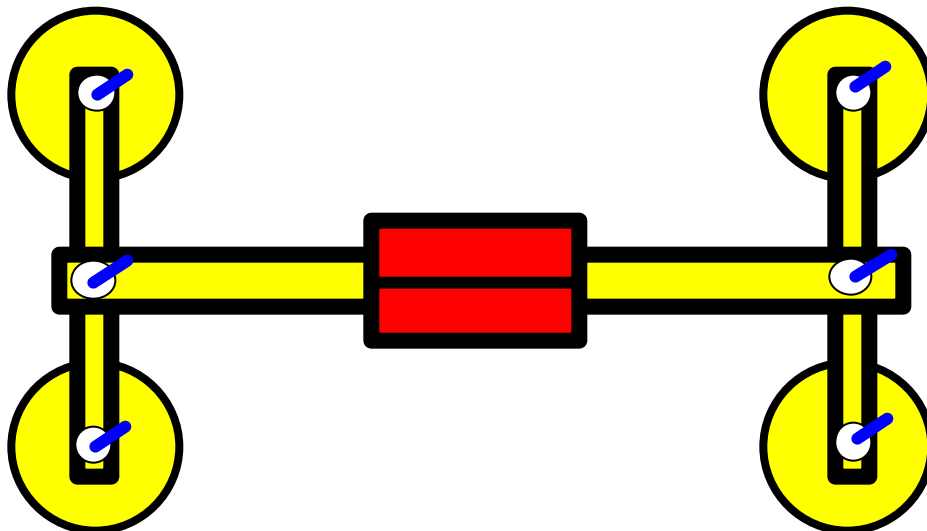
Pad Selection, Options and Support Machine Types

- Pads are designed to take load weight capacity and overhang length into consideration.
- Minimum safety factor of 2 is mandatory by ASTM/ANSI design guidelines B30.20.1999
- Typically pads can lift variety of materials with porosity taken into consideration.
- Units can be designed to work on crane, forklift, aerial lift, hoist, and more.

EXAMPLE OF LIFTER SPECIFICATION:

VLB-4P-2X-2000 LBS-FLAT

(Battery Operated 4 pad 2 crossarm 2000lbs capacity unit for flat horizontal lifting only)





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PROJECT APPLICATION REQUEST FORM

THIS FORM IS AVAILABLE ON LINE AT WWW.VAC-LIFT.COM

COMPANY NAME:	
WEB SITE:	
CONTACT NAME 1:	
CONTACT NAME 2:	
EMAILS:	
PHONE:	
FAX:	
CELL/PAGER:	
COMPLETE ADDRESS:	
PROJECT NOTES:	
LOAD TYPE: MATERIAL AND SHAPE	
MAX LOAD SIZE:	L X W L X OD X ID
MIN LOAD SIZE:	L X W L X OD X ID
THICKNESS RANGE:	
LIFT DUTY CYCLE	# OF LIFTS PER HOUR =
MAX LOAD WEIGHT:	
SUPPORT MACHINE:	CRANE FORKLIFT BOTH OTHER
TILTING (0, 90, 180):	
ROTATION: (0, 90, 360):	
LOAD TRAVEL LENGTHS:	VERTICAL = _____ HORIZONTAL = _____
POWER TYPE:	BATTERY AC AIR SELF
LOAD POROSITY:	
CRANE PACKAGE TYPE:	JIB BRIDGE OVERHEAD PORTABLE HOIST GANTRY
CRANE SPECIFICATIONS:	
SPECIAL REQUESTS:	