

## Self-Powered, Self-Cycling Units Create Their Own Grip Mechanically



ANVER Mechanical Vacuum Lifters do not rely on plant power, outside controls, or complex accessories. These self-contained units create their own vacuum mechanically, giving them unmatched versatility for use in metal fabricating plants, service centers, warehouses, and plate yards. These lifters offer instant attach and release via the hoist up and down. The internal piston and non-wearing rolling diaphragm create vacuum and will work silently with minimum maintenance for years.

One person simply attaches the hook of the crane, hoist, or boom truck to the lifter, positions the lifter on the load and controls the entire operation alone. The attach and release

alternates each lift cycle for fast, efficient handling.

Mechanical lifters increase speed and efficiency of horizontal handling of sheet and plate, fabrications, panels, and all types of nonporous materials.



### How ANVER® Mechanical Vacuum Lifters Work

Up/Down Movement of Hoist Controls Vacuum Attach and Release  
Simple On/Off Cycle is Quick and Reliable

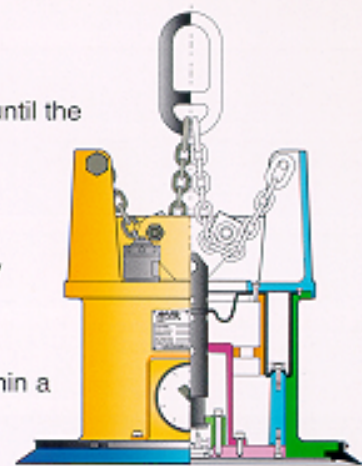
#### Basic Operating Procedure

1. The lifter is hanging from the crane hook and is lowered onto the load until the chain is slack.
2. The lifter is pulled up by the hoist and picks up the load.
3. The lifter and the load are set down until the chain is completely slack.
4. The lifter can now be raised without the load.
5. Set the lifter down again until the chain is completely slack and is ready to pick up the next load.

#### Technical Description

The vacuum generator of these lifters consists of a free-moving piston within a closed cylinder. A rubber rolling diaphragm forms an airtight seal between piston and cylinder. Since the integrity of this seal does not depend on metal-to-metal contact or a tight fit, it does not lose efficiency with use.

The vacuum attach and release cycle is controlled by an automatic self-cycling valve located in the bottom of the piston. When the unit is lowered onto the load and the suspension valve slackens, a cam automatically closes the piston valve. The hoisting action then pulls up the piston, creating a powerful vacuum inside the cylinder and underneath the vacuum pads. When the load is completely set down, and the suspension chain is again slackened, the cam opens the piston valve, releasing the vacuum. The lifter then can be raised, ready for the next pickup. Attach and release are instantaneous. Since the valve sealing disc can only cycle when the chain is completely slack, it cannot shift positions while in use and accidentally release the load.



## Unique Features Set the Standard in Vacuum Lifters for Sheet and Plate Handling



### Vacuum Lifters with Mechanical Generators Offer Unique Advantages

- No installation required. Simply attach the hook of a hoist, crane, or boom truck to the lifter and it's ready for operation!
- Attach and release are controlled by the up and down movement of the hoist. The vacuum control valve alternates between attach and release each time the lifter is picked up or set down.
- An operator cannot release a load without setting down the lifter load and until the chain is slack.
- No control buttons of any kind on the lifter.
- No external power source or festooning required.
- Unit can be spun around 360° without limitation, as there are no electric or air lines to tangle.
- Not affected by power failures or power brownouts. Safe around water burning tables.
- Totally silent operation creates no oil mist or pollution. Extremely efficient, low-cost operation.
- Lowest maintenance requirements of all vacuum lifters. Rebuilds are infrequent and simple.
- Suitable for 100% duty cycle, 24 hours a day operation. They never overheat or burn-out.

#### Adjustable for Varying Load Sizes

- Cups are adjustable on crossarms.
- Crossarms are adjustable on the beam.
- Crossarms can pivot to near parallel.
- Outside cups can be shut off with ball valves.

#### Leaves no Trace on the Load

- Cups are non-marking, non-marring.
- Bottom springs for even attachment.
- Top springs for even loading when lifting.
- Ball-in-socket articulated suspensions for wavy or blocked plate.

#### Simple to Set Up and Use

- Shipped fully assembled and vacuum tight.
- No installation required, just attach and go!
- Front and end-of-beam handlebars standard.
- Minimal training of operator, no buttons to use.

#### Premium Construction for Long Life

- Built utilizing the latest CAD/ CAM techniques and advanced materials.
- Top quality fit-and-finish: Epoxy paint, Nickel-plated Hardware throughout. Built rugged with heavy welded steel construction.

#### Easy to Maintain and Keep Operating in Heavy Production Environments

- New SSR Snap-In Sealing Rings for cup replacement in seconds without tools.
- No wires or hose to tangle up in the hoist chain; no fuses, motors or switches.
- Mechanical Vacuum Lifters cannot overheat and are not affected by brownouts.

*ANVER Lifters comply fully to US ANSI and OSHA and European CE mark requirements.*

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## **ANVER VACUUM TUBE LIFTING SYSTEMS**



### **Simple to Operate**

ANVER vacuum tube lifting system controls are simple to operate, require little operator training, and easily adjust to any operator's optimum working height.

### **Easily Adjustable Load and Height Settings**

The operator controls the system vacuum via two vacuum valves with adjusting knobs on the control head. The "no-load" valve sets the horizontal height of the tube lifter for attaching to the load. The "load" valve sets the height to which the load is raised after attachment. Once set, the system continually returns to these height levels for the duration of the operation.

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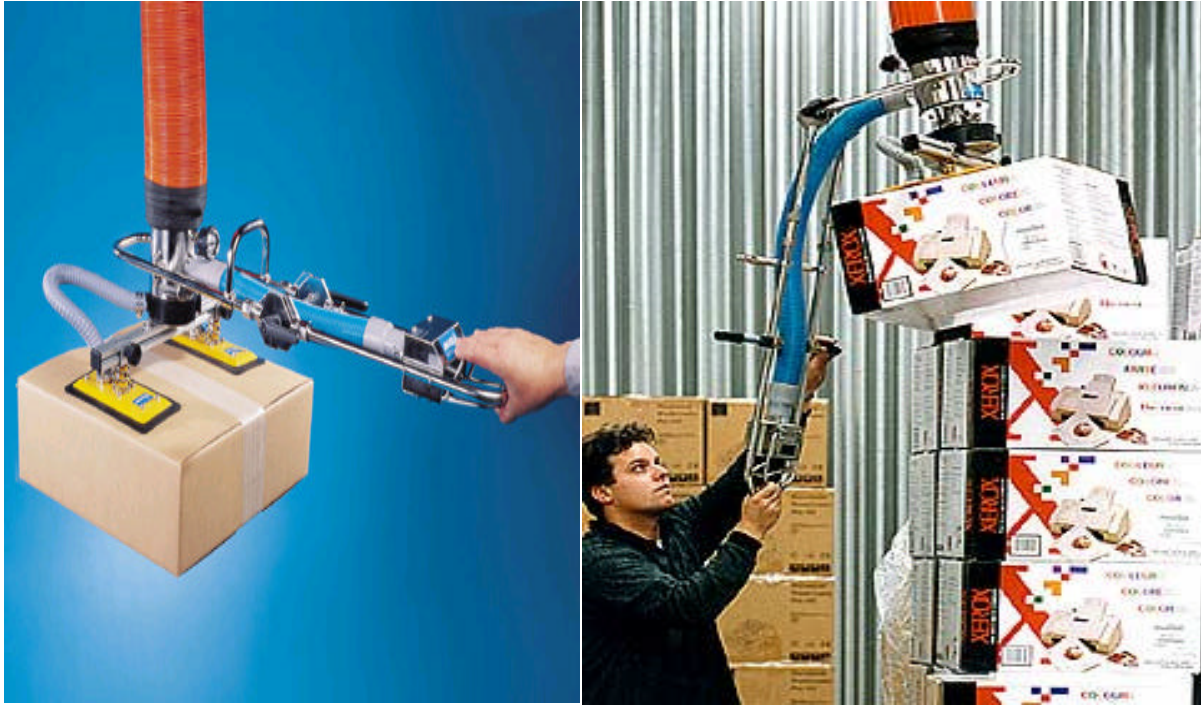
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### **Fully Adjustable Valves**

Both control valves are fully adjustable, allowing the operator to lift and lower any size load within the system's load range. A simple readjustment of these two valves allows new height levels to be set to accommodate a change in load handling requirements.

### **Unrestrained Operation**

Operator's hands and fingers remain unrestrained throughout the handling process, with no unnatural motions or straining required to operate the lifter. Repetitive stress injuries, often caused by unnatural twisting of wrists and push-pulling of locked-in fingers, required to operate competitive controls, are eliminated.

### **Ergonomic Controls**

An ergonomically designed control handle has made the unit a favorite among operators. The control is activated by simply squeezing the lever with the thumb and fingers in a natural grasping motion.

### **Conical Flow Valve**

A redesigned conical flow valve allows the operator to precisely control the vacuum power, resulting in a much smoother, more user-friendly control than competitive units. This exclusive ANVER design feature allows our VT tube lift systems to more smoothly handle a wider range of load capacities than any competitive brand.

### **Safety Check Valve**

A Power Loss Safety Check Valve built into the 360-degree top swivel slowly lowers the load if power supply to the vacuum pump is interrupted.

### **Accurate and Consistent Settings**

Micro-adjustment and acceleration are accomplished with the same control on the front handle that regulates air suction power. Stainless steel adjustment knobs and nylon fittings on the control head ensure accurate and consistent settings.

### **Food Service Safe**

External surfaces combine stainless steel, anodized aluminum and nylon components, all FDA approved for washdown and food service applications. The control head is manufactured using electro-polished heavy gauge stainless steel for corrosion resistance.

### **Vacuum Gauges for System Monitoring**

Only ANVER VT Tube Lift Systems are equipped with a vacuum gauge on the control head to readily indicate to the operator the system vacuum level during the lifting operation. This innovative feature helps to make an ANVER VT Tube Lift System the safest to operate in the industry.

### **Quick Pad Disconnects**

Extended length handles and swivel controls are available to make high load stacking easier. Quick disconnect pad attachments are available, allowing the operator to quickly change the pad attachment for differing load configurations.

### **Highest Quality yet Economically Priced**

Item for item, ANVER offers the highest quality vacuum tube lifting system, which is the key to our continuing success. We invite direct comparison to any competitive system. Our VT system's heavy gauge micro-polished stainless steel construction, along with the finest control valves, pumps, pads, hose and filters available, all combined with our economical prices, have rapidly made ANVER the standard in the industry.

**FOR MORE INFORMATION ON THE ANVER TUBE LIFTERS PLEASE CONTACT:**

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