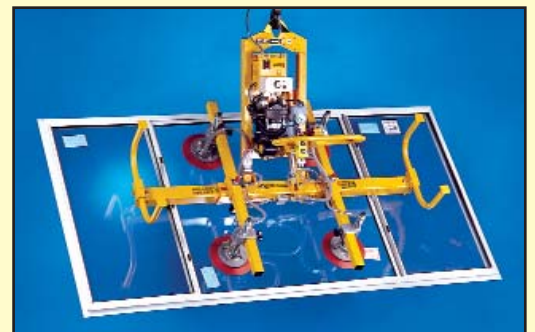




**An Overview of our
Company and its Products**

Vacuum Material Handling Equipment

For All Applications and Industries



A Complete Range of Vacuum

Vacuum Lifters, Tilters, & Rotators, Ergonomic Vacuum Lifters,



At ANVER, we manufacture a wide range of standard and custom vacuum lifters that offer material handling solutions for all applications. Electrical, self-powered mechanical, compressed air, and battery powered lifters are all readily available. Our applications engineers will help you select the right vacuum lifting system for your product handling needs.



Increase Your Productivity with Dependable Vacuum Lifting Systems from ANVER. Safety and reliability have made ANVER the North American leader in Vacuum Material Handling Technology since our establishment in 1968.

- **We Offer Cost-Effective Material Handling Solutions**
ANVER uses the latest in CAD/CAM design and CNC manufacturing techniques for consistent quality and precise fit and finish. This allows us to offer you the highest quality products at the most competitive prices.
- **We Use Only High Quality Premium Engineered Products**
Our extensive field experience allows us to design products that will be productive and trouble-free for years to come. We use only the highest quality components and materials in our vacuum lifters to insure the lasting value you demand.
- **We Assist You in Selecting the Right Vacuum Lifting Equipment**
Our Applications Engineers will work with you to ensure the proper system is chosen for the task at hand, including providing you with a videotape of your sample product being evaluated in our Vacuum Ergonomics Lab.
- **We Support You with a Full Service Parts Department**
In addition to stocking quality replacement parts for our own vacuum lifting systems, ANVER can cross-reference replacement parts for many brands of vacuum lifters - at bargain prices! Our large sales volume means lower prices for you.
- **The Result is Long Lasting Reliability**
You can buy with confidence from ANVER, the leader in vacuum lifting technology for over thirty years and *still growing*. ANVER offers you the long-term purchase security and support only the industry leader can provide.



For More Technical Information Visit: www.anver.com or Call 800-654-3500

Material Handling Equipment

Heavy Mill Duty, and Custom Designed Vacuum Lifting Systems



ANVER has the widest range of vacuum handling products in North America. We manufacture all types of standard and custom vacuum lifters: self-powered mechanical, electrical or compressed air powered, offering material handling solutions for all applications. Our applications engineers will help you select the right vacuum system for your needs.

At ANVER, vacuum handling is all we do.

Since we first began in 1968, we have become the leader in vacuum handling technology by offering unmatched quality, value and service. Now you can increase your productivity by using dependable products from ANVER, The Vacuum Handling Specialists.



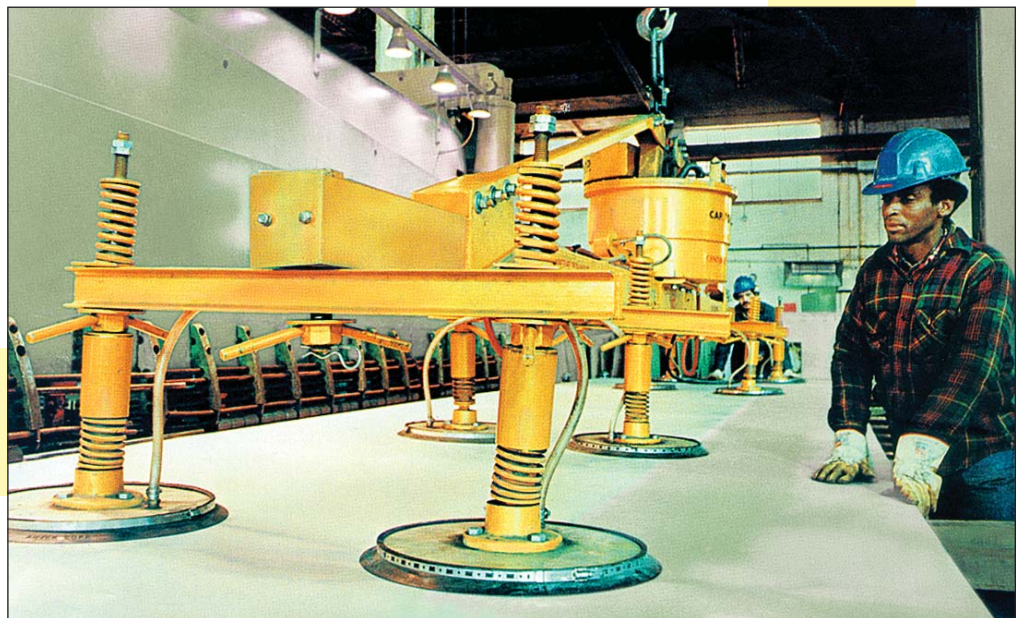
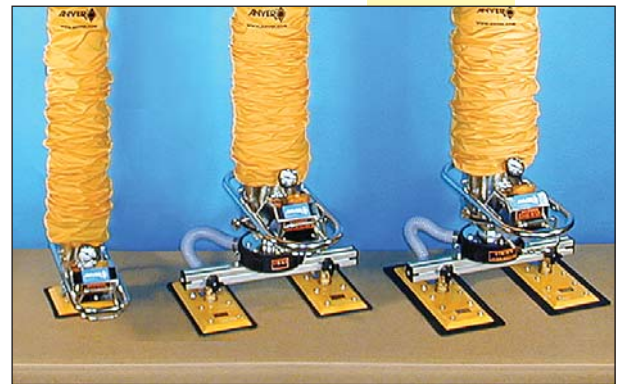
Vacuum Lifters for Handling Almost Any Load

- **Any Object** - Sheet and plate, coil, pipe, ingots, boxes, bags, sacks, paper, cardboard, appliances, cabinets, rolled goods, etc.
- **Any Material** - Metal, concrete, foam, wood, stone, plastic; in short, just about any porous or non-porous, smooth or rough material.
- **Any Shape** - Concave, convex, flat, ribbed, uneven, wavy, etc.
- **Any Action** - Lifting, picking, tilting, rotating, placing, packing, etc.
- **Any Environment** - Indoors, outdoors, dusty, hot, mill-duty, food-grade, explosion-proof, production line, warehouse, shipping and receiving, etc.

Choose from Below-the-Hook Lifters or Complete Vacuum Lifting Systems

ANVER is uniquely able to offer a wide range of vacuum handling products, from individual components or end-effectors to complete vacuum lifting systems.

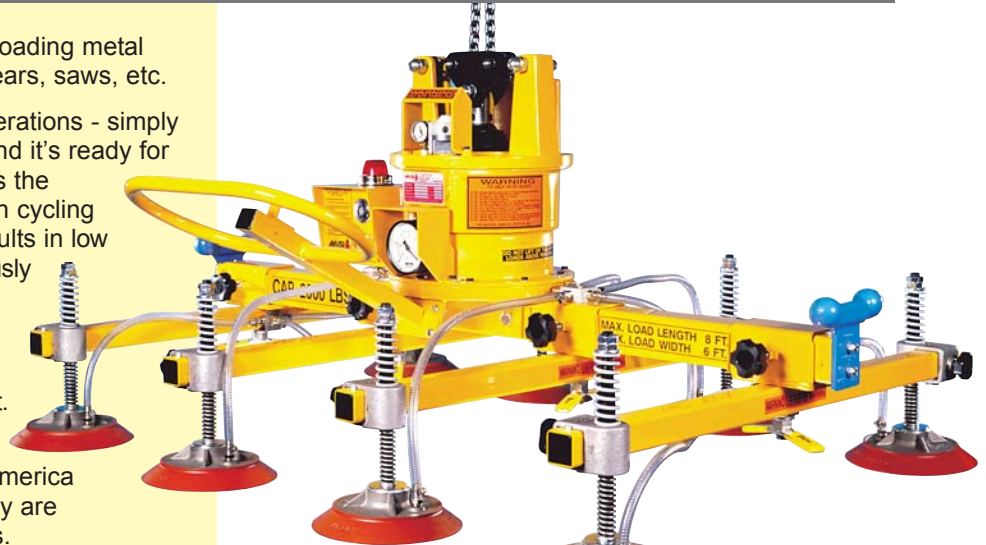
Based on your material handling needs, engineering capabilities and budgetary requirements, ANVER can provide you with a vacuum handling solution. For the latest in Vacuum Handling Equipment and Technology, call 1-800-654-3500.



Mechanical Vacuum Lifters

Unique, Self-Powered, Self-Cycling Operation

- Unique, self-contained lifters, ideal for loading metal sheet and plate onto cutting tables, shears, saws, etc.
- No special installation or power considerations - simply attach the hook of a hoist to the lifter and it's ready for operation. The hoist movement controls the vacuum attach and release via a built-in cycling cam. Our Heavy-Duty Construction results in low maintenance, even when used continuously in double shifts.
- No power cables, shop air hoses, or control buttons on the lifter required. Lifter operates under any crane and hoist.
- These patented lifters are the leading sheet and plate lifters in use in North America today and are exported worldwide. They are unaffected by power loss or brown-outs.



- With Anver Self-Powered, Self-cycling Mechanical Vacuum Lifters, loads can spin under the crane-hook as there are no air or electrical cords to entangle.
- Pollution-free, quiet, simple to operate.



For More Information, Visit our Extensive Website at: www.anver.com



How ANVER® Mechanical Vacuum Lifters Work

Upward/Downward Movement Controls Vacuum Attach and Release
Simple On/Off Cycle is Quick and Reliable

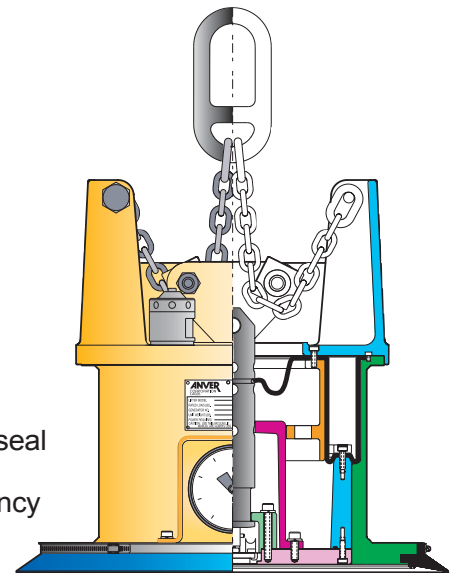
Basic Operating Procedure

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

Technical Description

The mechanical vacuum generator 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 grip-and-release cycle is controlled by an automatic self-cycling valve located in the bottom of the piston.

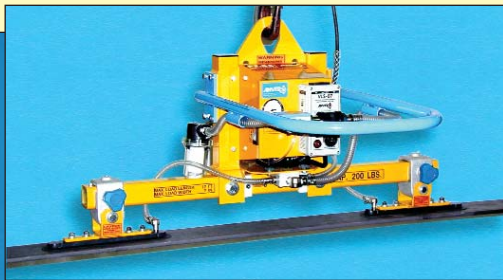
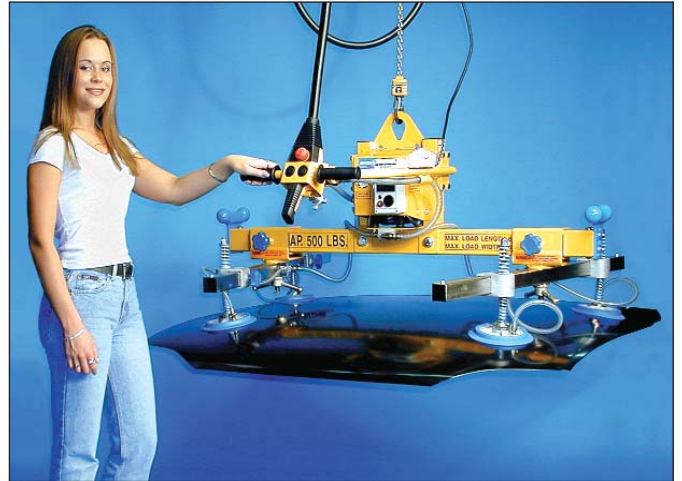
When the unit is lowered onto the load and the suspension chain slackens, a cam automatically closes the piston valve. Hoisting action then pulls up the piston, creating a powerful vacuum inside the cylinder and underneath the vacuum pads. When the load is completely set down and the suspension chain is again slackened, the cam opens the piston valve, releasing the vacuum. The lifter then can be raised, ready for the next pickup. Grip and release is instantaneous. Since the valve can only cycle when the chain is completely slack, it cannot be shifted to the "release" position while a load is being held.



Small Powered Vacuum Lifters

Electric, Battery or Air Powered up to 2000 lb Capacity

- For lifting non-porous loads such as plastic, glass, fiberglass, and metal, or semi-porous loads such as stone, wood, and composites.
- For handling relatively heavy loads, too porous for lifting with ANVER Mechanical Vacuum Lifters, but not so porous as to require a VT Tube or VB High Flow Lifting System.
- Hundreds of lifter models are available based on modular interchangeable components. We design and build lifters from dozens of in-stock beam lengths, vacuum stations, crossarms, pads and suspensions, allowing us to offer you custom equipment at standard prices with timely delivery.
- Compressed Air, Electric and Battery Powered Models are all available.
- Standard models range from **50 to 2,000 lb** (24 to 907 kg) lift capacity. Larger Capacity and Special Lifters are available on request.



- Vacuum cups feature full adjustability
- Cups move in and out of the crossarm

- Crossarms and cups move in and out, and pivot
- Cups are top and bottom spring-mounted on articulated hubs



For More Technical Information on our Standard Vacuum Lifters, Visit: www.anver.com



• A range of standard Vac-Packs with interchangeable vacuum pad attachments will handle most compact, heavy loads.



- ANVER lifters meet or exceed all current OSHA, ANSI and ASME B30.20 regulations for safety and overall construction.
- Numerous vacuum pad attachments, vacuum generators, and handlebar controls are available to customize lifters for your material handling needs.
- Wide, ergonomically designed front handlebar and controls for safer, more comfortable load handling.
- Shipped assembled, ready to operate. Simply bring power to the unit and hang from a crane hook.



Hundreds of combinations are possible to handle a variety of loads!

Medium & Large Powered Lifters

Electric, Battery or Air Powered, Capacity of 2000 lb and up

- For lifting non-porous loads such as metal, plastic, and glass, as well as semi-porous loads such as stone, wood, and composites.
- For handling heavy loads, such as Metal Sheet and Plate, on and off cutting tables. Perfect for High-Capacity Manufacturing Environments such as Airplane Assembly and Ship Building.
- Hundreds of lifter models are available based on interchangeable components. We design and build lifters from dozens of in-stock beam lengths, vacuum stations, crossarms, pads and suspensions.
- Electric and Battery Powered Models, as well as many Unique Control Features, are all available.
- Standard models range from **2000** to **20,000** lb (907 to 9070 kg) lift capacity, with custom units available with up to a **60,000** lb (22680 kg) capacity.



- *The Best Value and the Widest Product Range in the industry have made us the Number One Vacuum Lifter Supplier in all of North America!*

For More Technical Information on our Vacuum Lifters, Visit: www.anver.com



- ANVER lifters meet or exceed all current OSHA, ANSI and ASME B30.20 regulations for safety and overall construction.
- Numerous vacuum pad attachments, vacuum generators, and handlebar controls are available to customize lifters for your material handling needs.
- Heavy duty welded steel frames and large, spring-compensated pads allow heavy plate loads to be handled securely.
- Special features such as upgraded Vac-Packs, larger pumps, and individually activated pads are available for added speed and versatility.



- *Our Applications Engineers will work with you to ensure that you receive the proper system for your particular Load Handling Needs.*



Vacuum Tube Lifting Systems

ANVER is the #1 Supplier in North America



Anver is also the largest North American manufacturer of Vacuum Tube Lifters with the widest product line in the industry.

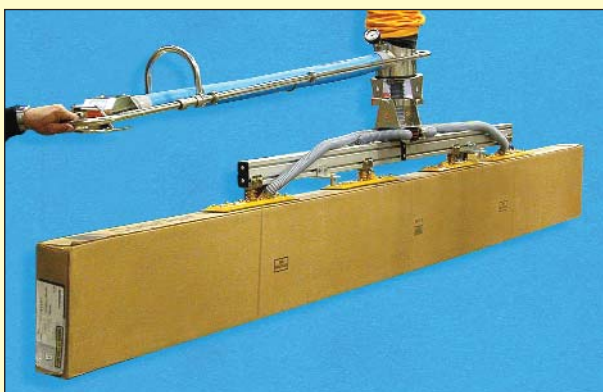
With our high volume, we are able to offer superior quality equipment at unbeatable prices.

- Ergonomic controls provide super-smooth operation.
- Equipped with the latest Siemens® extra-quiet direct drive vacuum pumps (simply the best available), these pumps feature operating sound levels of less than 70 dB while still producing 19" hg vacuum!
- Electropolished Heavy-Gauge Stainless Steel Lifting Heads and Top Swivels with a vacuum-tight, totally sealed bearing for full 360° rotation.
- Hundreds of vacuum pads are available for custom head building. Anver builds vacuum pad attachments that are available nowhere else.
- Anver Systems have the lowest cost-in-use because they are built with high quality parts and the latest models of no-maintenance direct drive vacuum pumps.
- Lifters can be easily upgraded to larger sizes with adapters in the field.

Spare Parts for All Makes - Guaranteed Lowest Prices

- Anver is the leading source for spare parts, pumps, motors, pad attachments, hose, controls, etc. Our huge stock of quality parts includes everything needed to keep your tube systems operating efficiently.
- Our extensive experience, and our use of a Standard Bolt Pattern, allow the easy replacement of other makes and models with Anver's line of Tube Lift System Parts.

The ANVER VT Vacuum Tube Lifting System



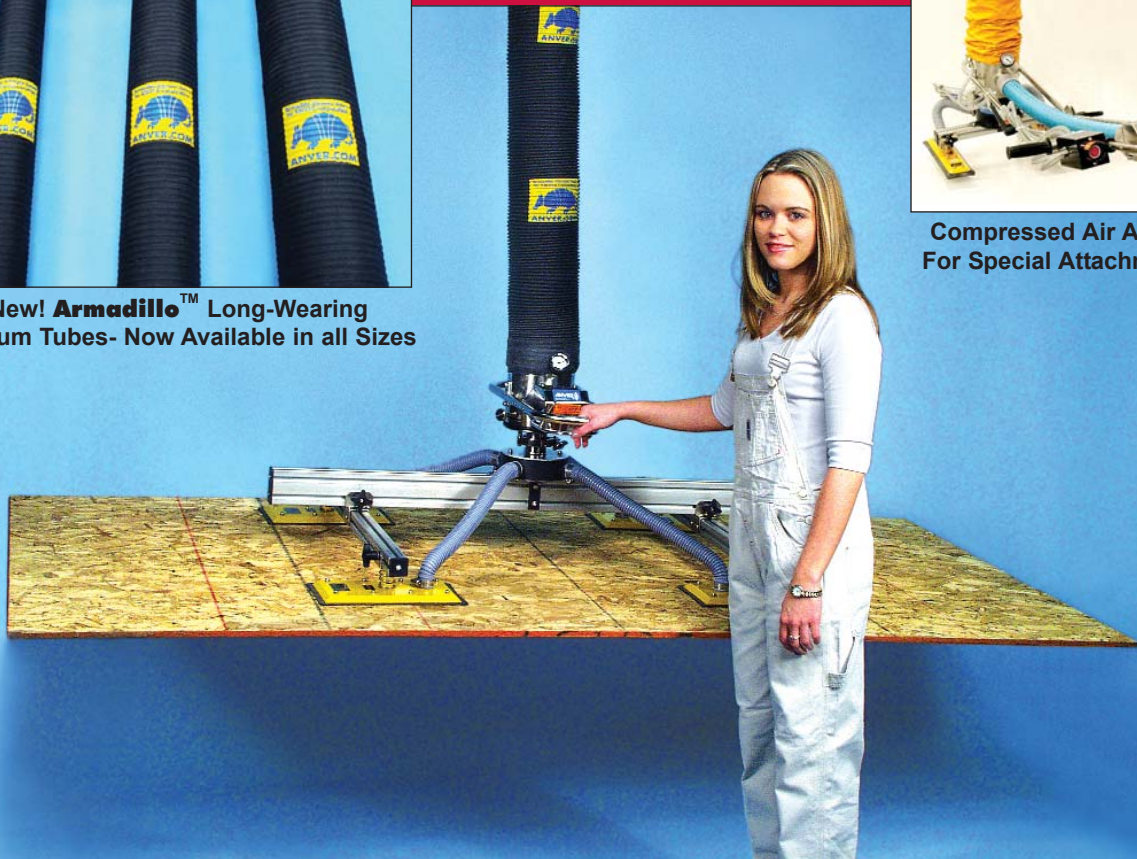
ANVER sells Vacuum Tube Systems through a network of Expert Dealers



New! **Armadillo™** Long-Wearing Vacuum Tubes- Now Available in all Sizes



Compressed Air Assist For Special Attachments



Anver Vacuum Tube Lifting Systems are the #1 Selling Vacuum Tube Lifting Line in North America!



VM Vacuum Lifting Systems

Ergonomic Low-Flow/High-Vacuum Lift Systems

- **Dual or Variable Speed Chain Hoist**

- **Overload and Power Loss Protection**

- **Compact yet Powerful**

- **Maintains Exact Position**

- Anver VM Lift Systems are compact, integrated vacuum/hoist/balancer lifting systems for arm's length handling of small, dense non-porous and semi-porous loads weighing up to 1100 lb (500 kg).

- Ideal for loading products into boxes when high air-flow is not required.

- High vacuum level (27" Hg) for handling loads with limited surface attachment areas.

- Integrated electric hoist or air balancer is available with a compressed air or electric powered vacuum generator.

- Quick Disconnects allow rapid pad attachment changes for versatility.



VB Vacuum Lifting Systems

Ergonomic High-Flow/Medium-Vacuum Lift Systems



The VB Vacuum Station includes a transformer and a remote starter for on/off control via the hoist pendant.



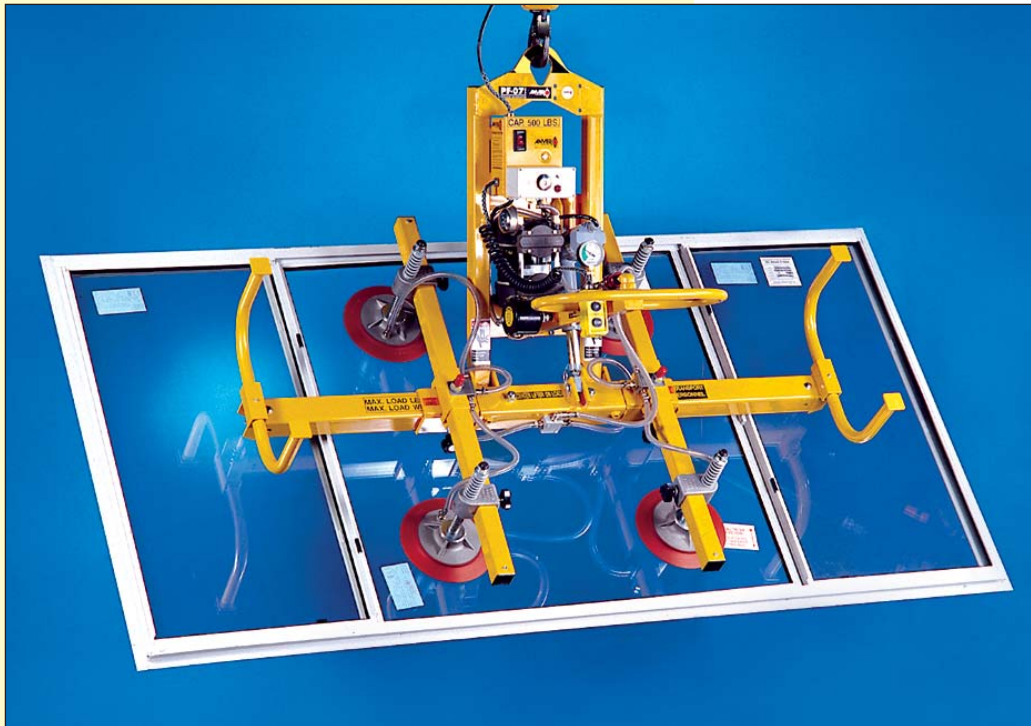
- **Dual/Variable Speed Chain Hoist**
- **Adjustable Vacuum Level**
- **Independent Hoist Operation**
- **Pad Attachments Built to Order**

- VB Vacuum/Hoist/Balancer Lifting Systems for controlled handling of heavy, porous loads up to 1100 lb (500 kg).
- Precise up/down movement with fingertip on/off and attach/release. Handles full or partial pallet loads per lift.
- Vacuum is used only to hold the load. Ideal for heavy or complex loads requiring sophisticated vacuum head attachments, or for use with large crane systems or under low headroom mezzanines.
- Integrated electric hoist or air balancer is available with a compressed air or electric powered vacuum generator.



Vacuum Tilters and Rotators

One-Person Powered Material Manipulation

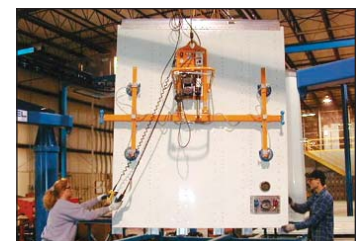


Anver Rotator

For One Person L

In addition to our standard line of Horizontal Vacuum Lifting Devices, ANVER also offers a wide selection of Vacuum Tilters and Rotators for one person manipulation of loads.

- These hoist-suspended vacuum lifters allow one operator to perform the tasks of traditional manipulators, at a fraction of the cost, and with greater capacity, range of movement, and speed.
- We build Tilters, Rotators and Side-Gripping Units with standard capacities of 125 to 2000 lb (55 to 905 kg). Custom Systems are capable of handling loads up to 45,000 lb (20,410 kg).

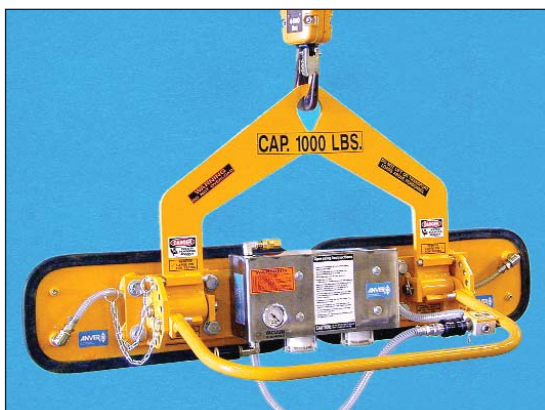
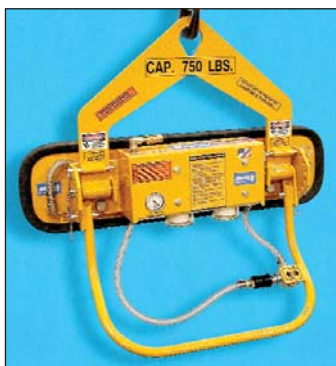
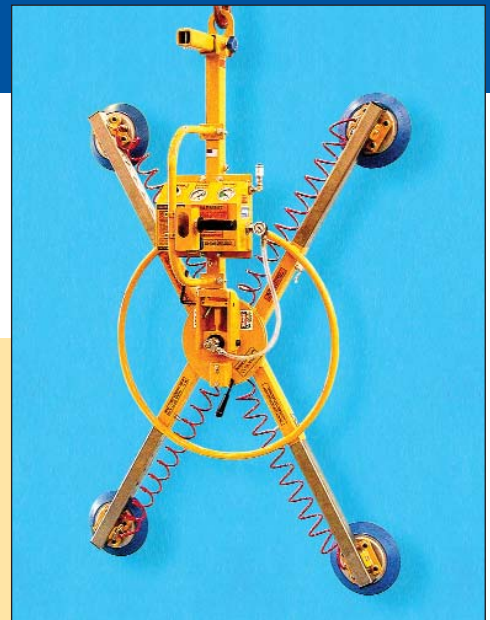


Check Out Our Extensive Tilter and Rotator Selection at: www.anver.com

rs And Tilters

oad Manipulation

- Available as fully powered or manual models, or a combination of the two when multiple movements are required in the same lifter. We can build to suit the task.
- Powered Tilters and Rotators are designed to stop at any intermediate angle with built-in 45° stop intervals.
- Air cylinders, AC and DC electric actuators, gear and sprocket drives, hydraulic systems, etc., are all utilized, depending on the duty cycle requirements and power source available.
- ANVER now offers new smaller, lighter models, available at surprisingly economical prices.



Anver Rotators and Tilters handle large flat panels as well as awkward loads without the slings, clamps, or hooks that can cause damage. They can lift from the horizontal to vertical plane and back. Gravity Tilters used for flame finished stone are shown in photo, left.



Vacuum Tilters-Rotators are available in Electric, Air and Battery Power!

Industry-Specific Vacuum Lifters

For the Stone, Glass, Composite, and Plastic Industries

Built Tough for Constant Use

***For Any Size or Weight of Glass or Plastic,
any Surface or Texture of Stone!***

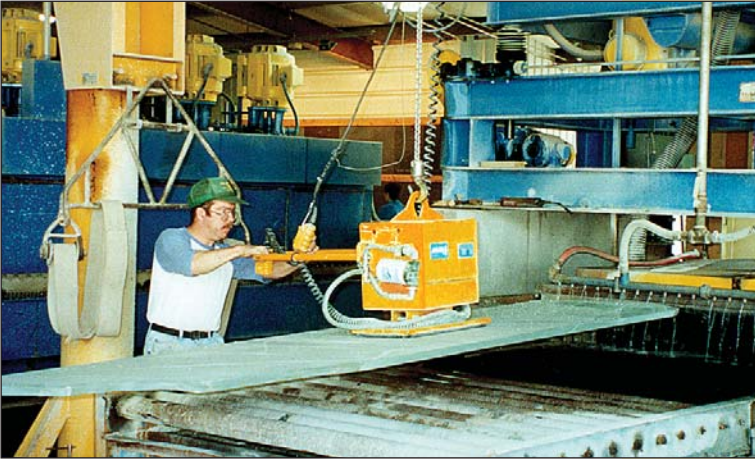
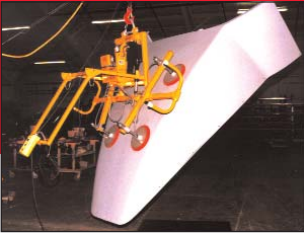
From handcups to large custom systems, ANVER offers a complete selection of Powered Lifters, Tilters, and Rotators of all sizes, Vacuum Pads and Handcups, all designed specifically for the Glass, Stone, Concrete and other specific industries.

- ANVER lifters are compact and fully adjustable. They feature large filters, high flow pumps, quality plated components, special non-marking seals and strong welded-steel frames which will not fatigue-crack like aluminum.
- Built rugged for production environments, yet surprisingly affordable, ANVER lifters allow you to lift and manipulate glass and stone effortlessly.
- Foam Pads for Rough Stone
- Versatile frames for glass windows
- Designed for use in the Shop and on the Worksite
- 30 years of experience

**ANVER offers Uncompromising Quality
for Production Grade Reliability.**

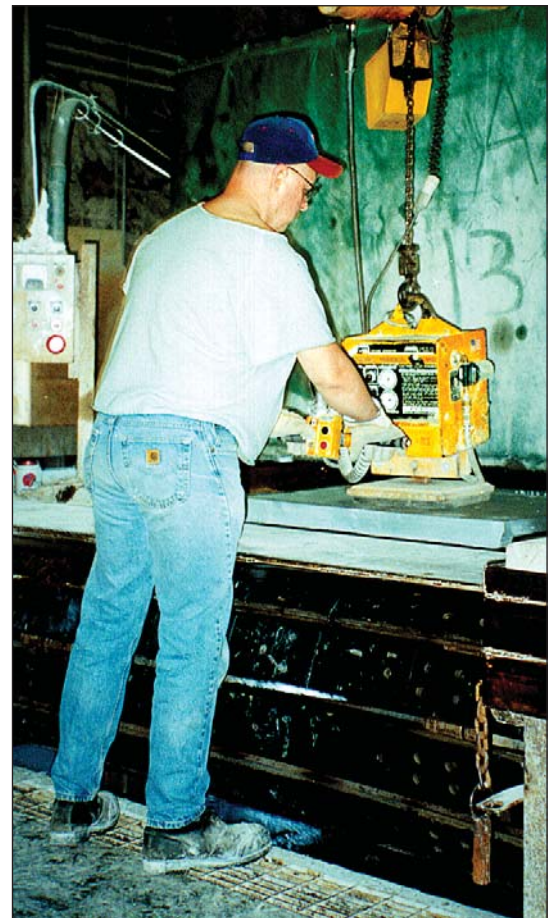


ANVER builds a wide selection of Vacuum Lifters with Special Features for Specific Applications



Anver Design and Componentry Materials Make the Difference!

The Vacuum Lifters that we build for handling stone, glass and plastic are designed to meet the special requirements of those industries. We individually design and carefully choose the componentry that goes into every application, so you can be assured that your workplace will be a safe, efficient, and productive one.



From tilters that insure safe, one-person manipulation of awkward loads, to specially prepared foam Pads to handle even the roughest, most uneven surface, to custom ergonomic systems that function perfectly in the most difficult work environments, our Applications Engineers will work with you to ensure that you receive the ideal system for your particular load handling needs.

Vacuum Coil Lifters

For Damage-Free Coil Handling, Lifting, and Tilting

- Designed for handling all types of coils: metal, film, paper or plastic, in a horizontal or vertical position.
- Multi-chambered heads can handle different diameter and size loads independently, making these lifters extremely versatile. They leave no damage or marks.
- Lifting capacities of up to 32,000 lb (14,500 kg).
- Available as complete systems or as attachments for automatic pick-and-place or crane based systems.



For More Technical Information on our Vacuum Coil Lifters, Visit: www.anver.com

Specialized Vacuum Lifters

Heavy-Duty Construction for Loads of All Types



- Rugged, heavy-duty construction using oversized lift frame, pads, vacuum stations, filters, lights, etc.
- Lifting capacities of up to 60,000 lb (28,000 kg).
- Suitable for indoor and outdoor use, including dirt floors.
- Built-In Special options, such as controls, on each pad, radio control tie-in, dual point pickup, etc.



Vacuum Handcups for Lifting & Holding

A Complete Selection for All Your Material Handling Needs

- Manual, Pump-Action and Air-Powered Handcups.
- Made of Aluminum or plastic for durability.
- Designed for sheet metal, glass, plastic or stone handling. Available in various capacities, cup sizes, handle styles.
- From simple one-piece all-rubber to top-selling pump action models.
- Largest selection (100+!) of specialized vacuum hand cups and hand suction cups in the industry, all field proven for long life and reliability.
- Shipped from stock via FedEx®. Check our website for a detailed product listing.



Model HC-S108, S109, S110 - The Top Selling Pump-Style Handcups



Model 602.1 - Top Selling Lever-Style Handcup



Model 602.2 - Excellent for Automobile Glass

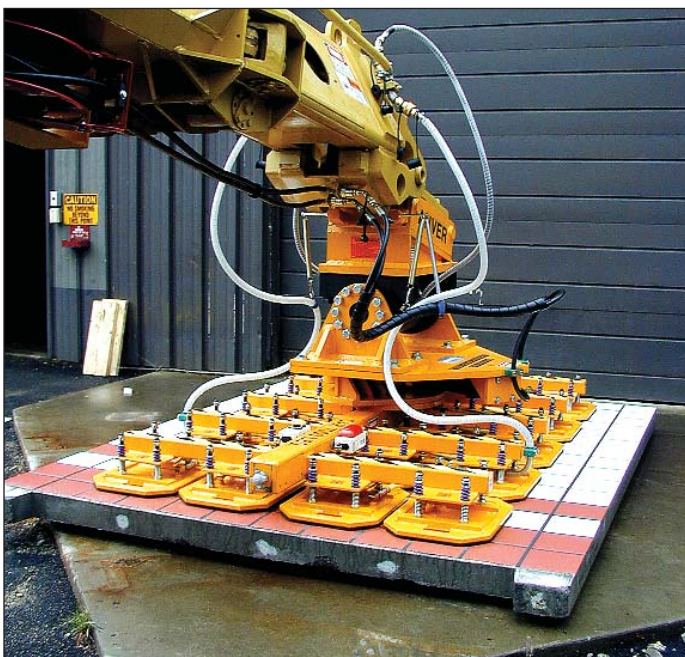
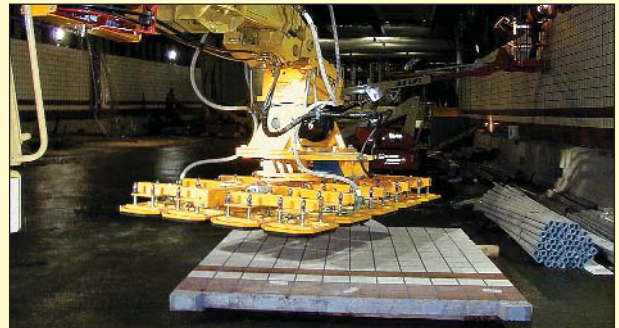


For a Concise Model Overview see our Website: www.anver.com

Worksite Vacuum Attachments

Vacuum End-Effector Systems from ANVER

The ANVER Vacuum End-Effector System for Gradall® Excavators bolts onto their standard boom extension mounting pattern, and is powered by the Gradall's own hydraulic and electrical systems to provide motorized tilt and rotation, controlled from inside the cab. Capable of lifting 8,500+ pound panels in the horizontal and vertical planes, this end-effector permits front surface final placement and removal without the use of hooks, slings, or chains.



Call Your Local Dealer or Anver at 800-654-3500 for Details.

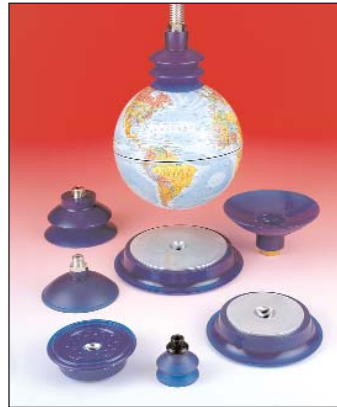
A Complete Range of Vacuum

Vacuum Suction Cups and Suspensions • Vacuum Pumps • Vac

The ANVER Vacuum

ANVER offers you a full range of vacuum components, from miniature vacuum suction cups, both air and electric powered vacuum pumps and vacuum generators, to our complete vacuum stations and systems.

Since our establishment in 1968, we have become the North American leader in the field of vacuum handling



ANVER's Vacuum Components Group offers a Huge Selection!

Material Handling Components

Vacuum Hand Cups • Bottling Grabs • Vacuum System Accessories

Component Solution

technology by consistently offering only the highest quality vacuum components and technology at the lowest prices.

Our extensive experience in the field of vacuum handling technology allows us to design and manufacture products that will be productive and trouble-free, providing you with the lasting value you demand.



Call Your Local Dealer or Anver at 800-654-3500 for Details.



Visit us at: www.anver.com



Continuing A Tradition of Innovation + Quality...

ANVER began as a custom builder of specialized vacuum equipment in 1968. Over the years we have developed into a full-service manufacturer of all types of vacuum products, from miniature vacuum cups to complete Mill-Duty Vacuum Lifting Systems. Vacuum handling is all we do. In both size and diversity of products, we are by far the leading North American source for Vacuum Material Handling Equipment.

This brochure provides an overview of our company and some, but by no means all, of our vacuum lifting products. We are always adding new designs and features.

Unlike our competitors, we are full-service vacuum equipment specialists, involved in all aspects of the field. We are mold-makers, rubber molders, component manufacturers, equipment builders, machine shop, custom design house, and consulting firm...all in one. As our customer, you will receive not only the best in quality, but also the most up-to-date vacuum engineering in the industry.

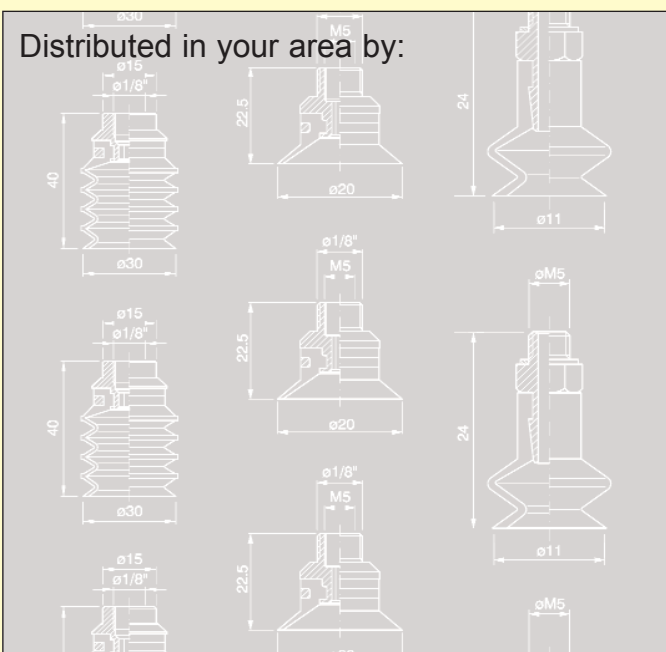
I trust you will find ANVER to be an excellent source for your vacuum needs, and an enjoyable company to do business with. We are large enough to consistently offer top quality and economical pricing yet small enough to offer excellent service and technical expertise.

Call us and you will see why our innovative products, and dedicated, skilled employees and progressive company culture have made us the leader in the field of vacuum handling technology.

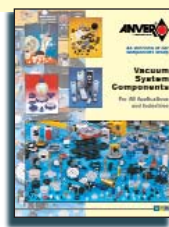
Sincerely,
Franck Vernooij
President, ANVER Corp.



Distributed in your area by:



Free Literature + Expert Advice



Contact us for Free Literature on any of our Products:

- Vacuum Components
- Vacuum Tube Lift Systems
- Vacuum Lifters
- Ergonomic Lifting Systems
- Hand Vacuum Cups
- Vacuum Automation Components
- Bottling Components



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