

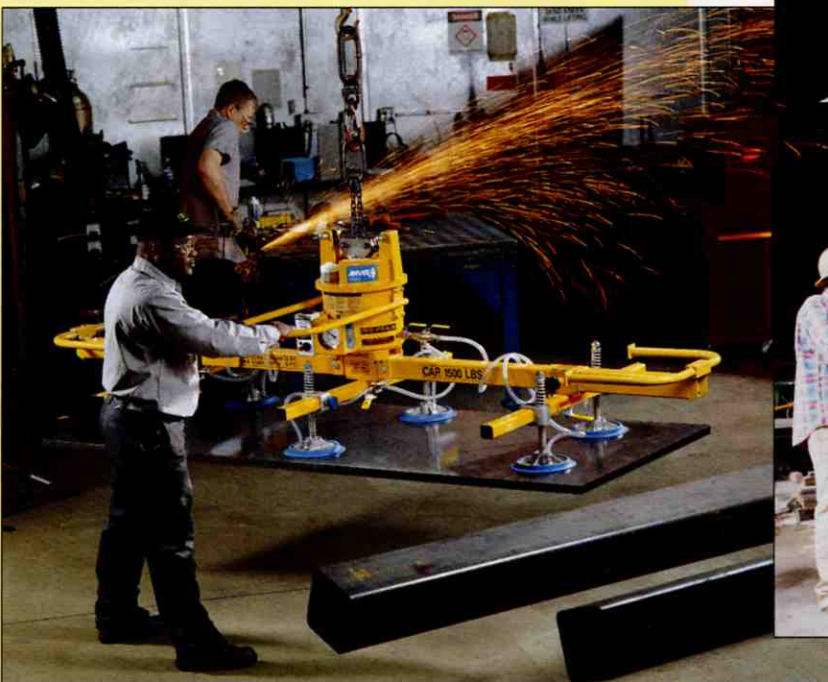
Mechanical Vacuum Lifters

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.





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.

