

Mono Mechanical Vacuum Lifters

1-pad self-powered lifting for smooth sheet metal - no electricity or compressed air

UP TO 800 KG



Mono 1-Pad Vacuum Lifter
HP-WDL800-1S / 800 kg



Mechanical Lifter - 2 Pads
Balanced lifting for wider sheets



Mechanical Lifter - 4 Pads
Multi-point support for larger plates

Technical Specifications

Mono mechanical vacuum lifter

Model	Maximum Load	Overall Dimensions	Pad Diameter	Pads
HP-WDL800-1S	800 kg	Dia. 450 x 850 mm	Dia. 450 mm	1

How the Self-Powered Cycle Works

- 01 Hook On

Attach the lifting eye directly to an overhead crane or hoist hook.
- 02 Create Vacuum

Hoist movement drives the self-cycling valve and piston to generate suction.
- 03 Safe Release

Vacuum releases only after the load is set down and the chain is fully slack.

- 01 No External Utilities

Requires no electricity, compressed air or vacuum hoses. Connect directly to a crane or hoist and begin work immediately.
- 02 Mechanical Interlock

Vacuum cannot release under chain tension. The load disengages only after it is fully set down and the chain becomes slack.
- 03 Self-Powered Cycling

Hoist raising and lowering drive the self-cycling valve and piston assembly - with no buttons or external power source.
- 04 Grade 80 Chain

An 8 mm ISO Grade 80 manganese-steel chain and wear-resistant 40Cr alloy sprocket support a long service life.
- 05 Low Maintenance

The lightweight, robust mechanical construction minimizes servicing requirements and long-term operating costs.
- 06 Independent Audio Alarm

A non-rechargeable 9V battery powers the audio warning system without an external electrical connection.

Mono Vacuum Lifter Applications

Cordless, hose-free sheet handling across cutting, shearing and fabrication workflows



Single-Pad Sheet Handling
Self-powered vacuum grip for smooth sheet metal



Steel Plate Storage
Portable lifting across warehouses and stock areas



Aluminum Sheet Loading
Precise placement on cutting and fabrication tables



Single-Operator Positioning
Easy guidance without power cords or air hoses



Shearing Machine Feeding
Stable approach and alignment at the backgauge



Cutting Machine Unloading
Fast removal of finished parts and residual sheets