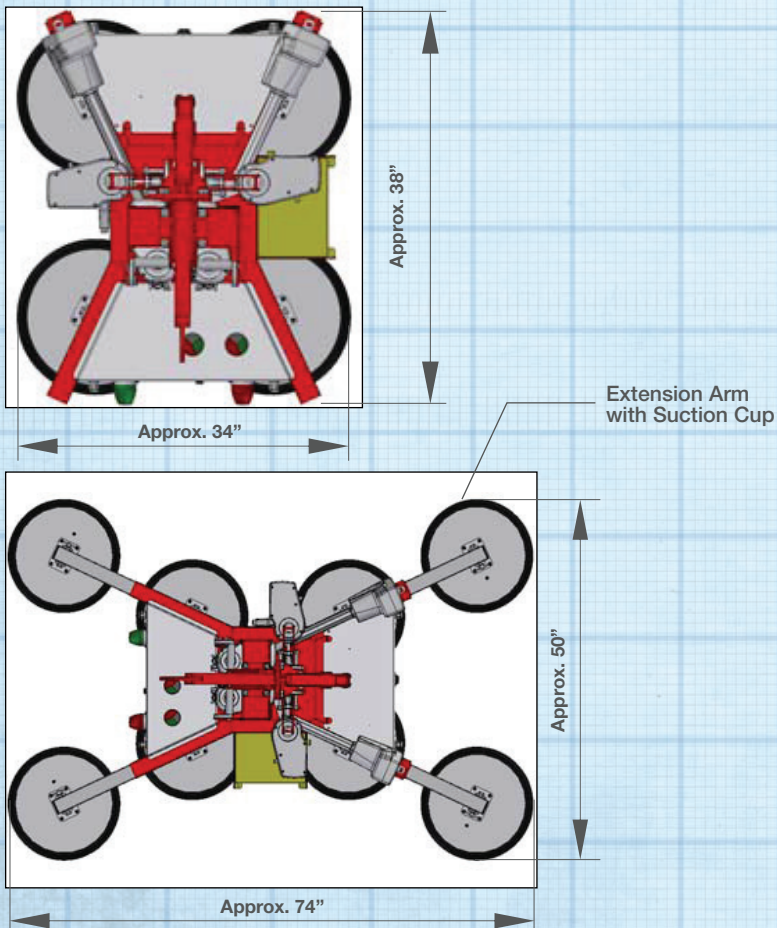
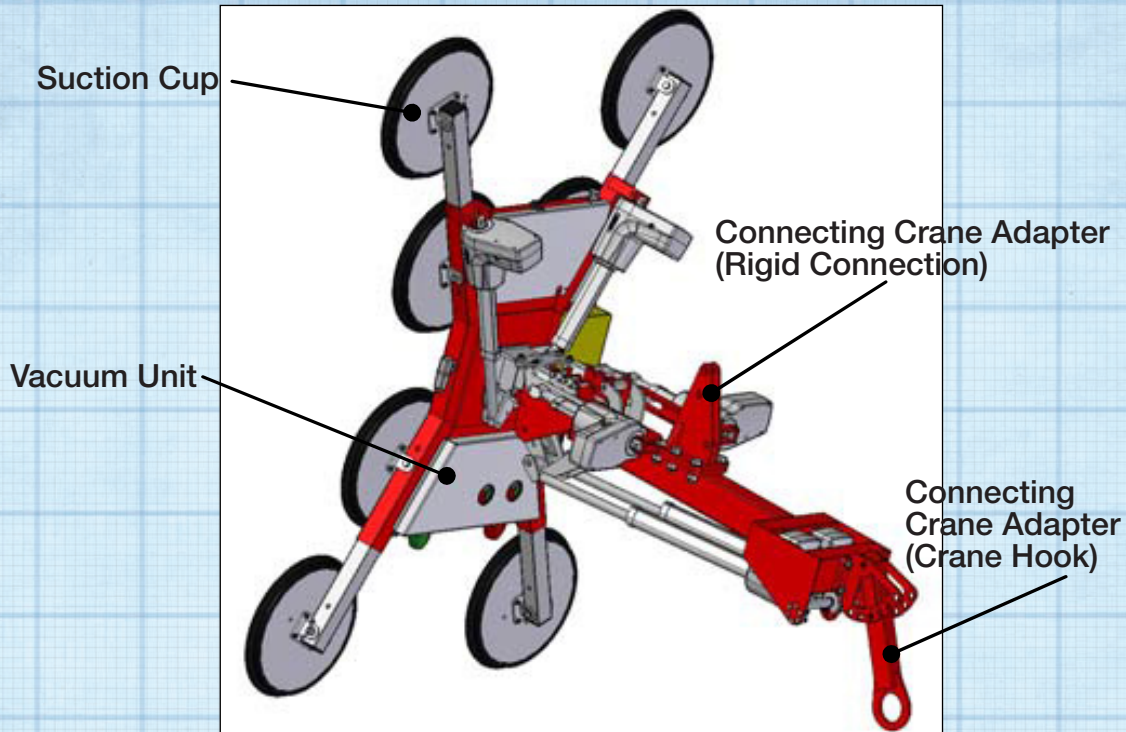


The SPYDERWEB Glass Handler is perfect for lifting and moving large format glass panels when combined with a SPYDERCRANE Mini-Crawler Crane.



DESCRIPTION

- Crane Attachment for use on construction sites
- Ability to mount at the crane hook and directly at the crane arm
- Equipped with 2 independent vacuum circuits, each with a dual safety system and integrated reserve vacuum
- Integrated gauge monitors both the vacuum and power supply
- Optical and acoustic alarms signal any deviation from the set conditions
- Electric power is supplied to the vacuum by batteries that are attached on the lower end of the crane
- Radio remote control can be used to activate the rotating, swiveling and tilting cylinder as well as the pneumatic functions
- Extension arms for handling large format panels
- Meets DIN EN 13155 requirements

Typical Application	Handling of Glass Panels used in Industrial Construction
Glass Panel Specifications	<ul style="list-style-type: none"> • Panels must be air impermeable on the suction surfaces • Must have a clean, smooth and even surface • Must not be covered by a protective film
Maximum Safe Working Load	661 lbs (4 Suction Cups Ø 16 inches) 1,323 lbs (8 Suction Cups Ø 16 inches)
Weight of Device	Approximately 375 lbs
Controls	Radio Remote Control
Power Supply	24 V Battery
Vacuum Production	Vacuum Pump

Specifications subject to change

PHOTOS



SPYDERCRANE
RETOOLING INDUSTRIES

Visit us on the web at

SPYDERCRANE.COM

Distributed by **Smiley Lifting Solutions** | 5326 W. Mohave Street | Phoenix, AZ 85043 | **800.452.5011**

SPYDERWEB Data Sheet V01

GL-CC 1000

Manipulator for lifting and moving of large-format glass-panels in combination with Mini-Crawler Cranes



2-circuit system

For construction site applications according to DIN EN 13155

Use

Handling of flat and concave or convex curved glass panes on construction sites

Hoist

Mini-Crawler Crane

Suspension

Exchangeable Crane Adapter for the connection with the booms of different Mini-Crawler Cranes

Materials Handled

Flat glass, curved glass (concave or convex, radius $\geq 5\text{m}$) and window elements

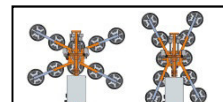
Description

The vacuum-based SPYDERWEB GL-CC 1000 Glass Handler is suitable for the handling of glass panes and window elements up to a maximum weight of 1000 kg on construction sites. Depending on the application, the SPYDERWEB can be equipped with suction frames for flat or for curved panes. In case of handling curved glass, the lifting capacity depends on the bending radius, and thus on the size of the vacuum pads used, but it is limited to a maximum of 800 kg.

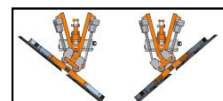
For rigid connection to booms of different Mini-Crawler Cranes, various connection adapters are available. Electric actuators are able to tilt the suction frame up to 120° , as well as rotate it up to an angle of 95° and swivel by $\pm 40^\circ$. All the functions are controlled by a wireless remote control. A 24V DC power-operated vacuum pump generates the necessary vacuum in the suction pads. Optical and acoustical signaling devices inform the operator about deviations from the nominal condition. Even in the case of a complete failure of the power supply, the vacuum within each suction pad will remain for five minutes in order to remotely maneuver the load confidently.



Tilting $0^\circ - 120^\circ$



Rotating $0^\circ - 95^\circ$

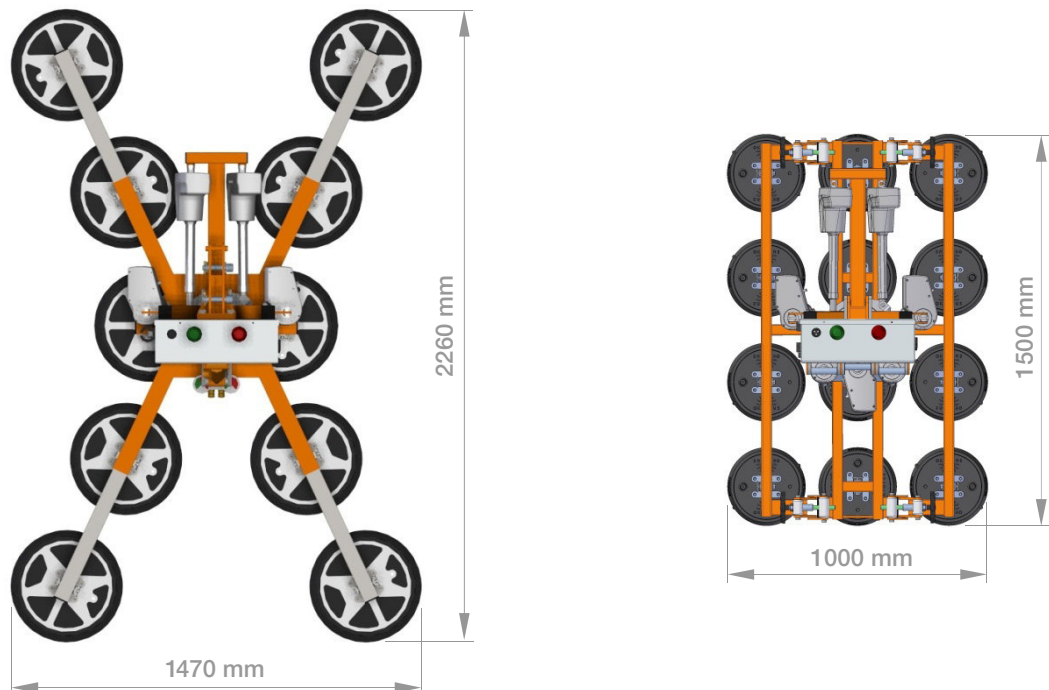


Swivelling $\pm 40^\circ$

Application Data

Working Load Limit	Flat glass maximum - 1000 kg / Curved glass maximum - 800 kg
Own Weight	For flat glass with 10 pcs. suction pads Wirth Ø400 mm approximately 200 kg for curved glass e.g. with 12 pcs. suction pads Wirth Ø300 mm approximately 210 kg
Lifting/Lowering	Flat glass maximum - 1000 kg / Curved glass maximum - 800 kg
Suction Frame Movements:	
Rotating:	0 - 95°
Tilting:	0 - 120°
Swivelling:	±40°
Suction Pads	10 pcs. Wirth Ø400 mm or 12 pcs. Wirth Ø300 mm, other pads available
Vacuum Generation	Vacuum pump
Power Supply	Quick exchange battery box with rechargeable battery, 24V
Operation	Radio remote control
Color	RAL 2011 (Deep orange), RAL 9006 (White aluminium)

Dimensions



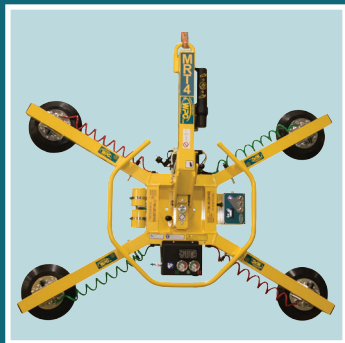
Subject to change

SPYDERCRANE



5326 W. Mohave St | Phoenix, AZ 85043
844.264.8994 | 602.442.4000

SPYDERCRANE.COM



WOOD'S POWR-GRIP® MANUAL ROTATOR/TILTER WITH DC3 DUAL VACUUM SYSTEM

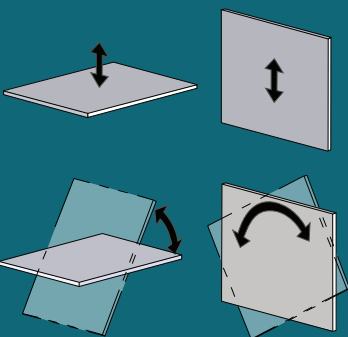
MRT411LDC3
700 lbs [320 kg]

Employing state-of-the-art technology, *Intelli-Grip™* automatically monitors vacuum and power systems to:

- Maximize productivity
- Help reduce human error
- Simplify maintenance and repairs
- Protect employees and property from harm



	MRT411LDC3
Maximum Load Capacity	700 lbs [320 kg]
Intelli-Grip™ Technology	Automatic self-testing ensures lifter is ready for use, every lift. Color display provides critically relevant information at a glance. Anticipates threats and alerts operator beforehand with clearly visible and audible warnings. Smart power management enables lifter to work longer on a single charge. Continuously monitors battery and prevents lifter from attaching to loads if energy is hazardously low. Multiple alarm levels plainly identify the severity of hazards.
Load Movement	Manual rotation, 360° edgewise, with automatic latching every 90° Manual tilt, 90° between upright and flat, with automatic latching in upright position
Standard Operating Power	12 volts DC, 5 amps
Standard Features	Intelli-Grip™ technology Dual vacuum system High-flow vacuum pump Battery and charger Battery energy gauge Low vacuum warning buzzer Power loss warning buzzer Green lift light Vacuum gauges Vacuum line filters Vacuum reserve tanks Spring-mounted vacuum pads Movable pad mounts Pad extension arms Blow-off for quick release Two-action, push-button release
Available Options	Remote control system (59906AM) Forklift adapter (95722) Adaptable length lift bar (95723) Long extension arms (95725) Individual pad shutoffs (93011) Extensions for movable pad mounts (93101 & 93101AM) Pad frame T-arm assemblies (97466) MRT4 Shipping case (53006) Alternative pad compounds, including ones for low-marking, temperature resistant and coated surface applications (special order)
Dual Vacuum System	Features two completely independent vacuum circuits. Provides vacuum system redundancy. Limits possibility of a catastrophic failure. Reduces chance of harm to personnel or equipment.



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406.628.8231 (phone)
406.628.8354 (fax)



Products are manufactured under an
ISO 9001 quality management system

Wood's Powr-Grip products are sold
through authorized dealers.

MRT411LDC3

Standard Pad Spread

Basic Configuration:	28 $\frac{1}{4}$ " x 32 $\frac{3}{4}$ " [72 x 83 cm]
Extended Configuration:	48 $\frac{1}{4}$ " x 67 $\frac{1}{2}$ " [123 x 172 cm]
Linear Configuration:	78 $\frac{1}{4}$ " x 15 $\frac{3}{4}$ " [199 x 40 cm]

Number / Size of Pads

4 / 11" [28 cm] dia. lipped

Lifter Weight

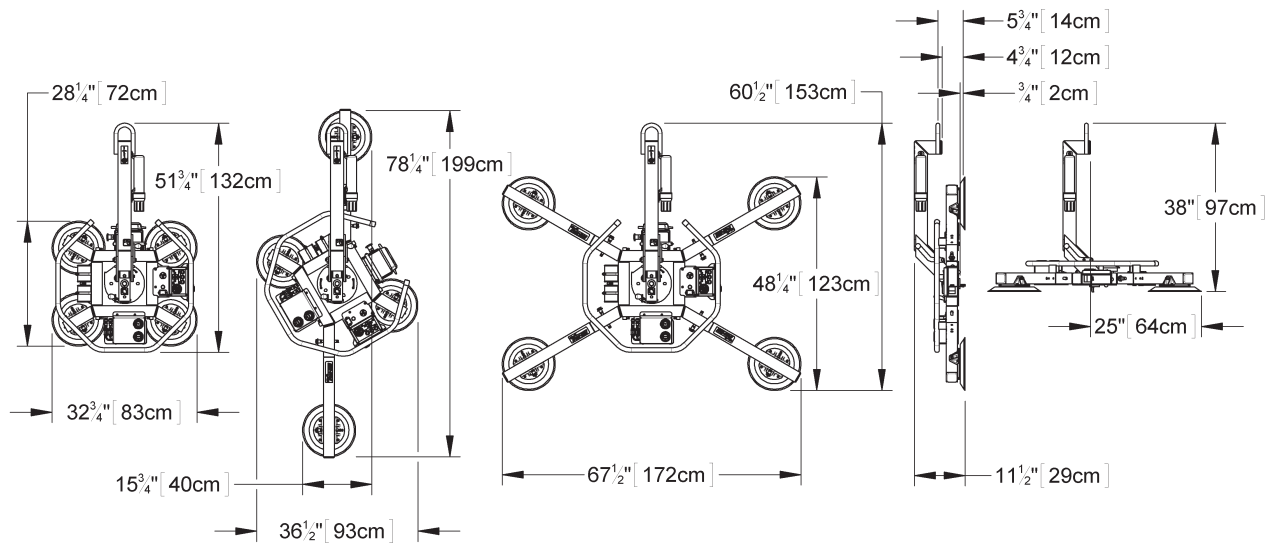
125 lbs [57 kg]

Design Standards

ASME B30.20
(BTH-1 Design Category "B", Service Class "0")
CE
AS 4991

(See www.WPG.com for more information.)

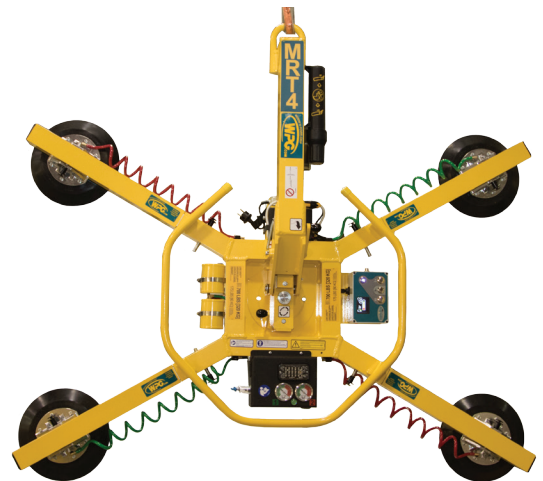
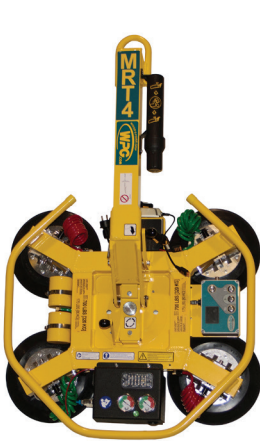
Environmental conditions can affect product performance and longevity; consult the product instructions on WPG.com or contact a Technical Sales Representative for more information. Based on product information at time of publication.



Basic Configuration

Linear Configuration

Extended Configuration

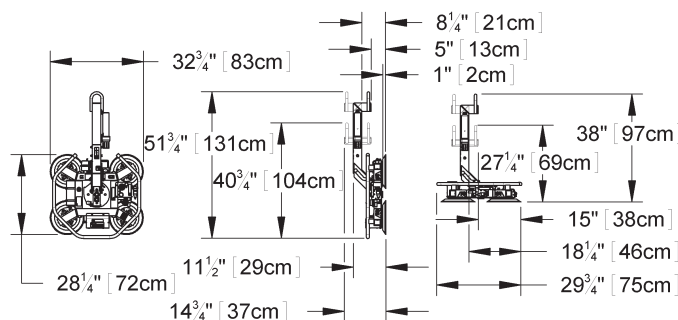
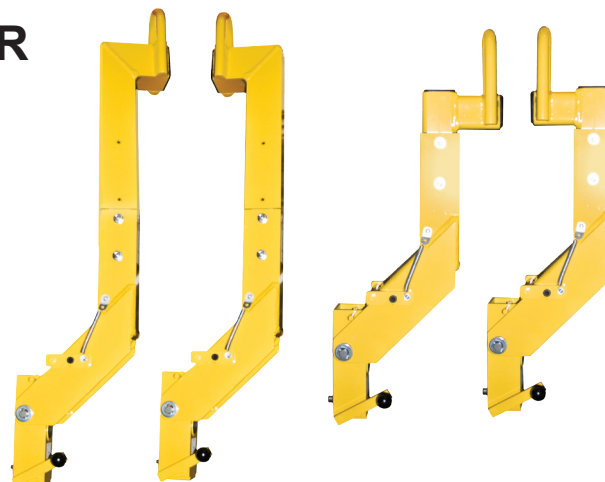


MRT OPTIONS

ADAPTABLE LENGTH LIFT BAR

Designed for applications requiring increased horizontal reach at the hook point or applications involving minimal clearance between the lifter and the hoisting equipment, such as installations under eaves or similar handling situations.

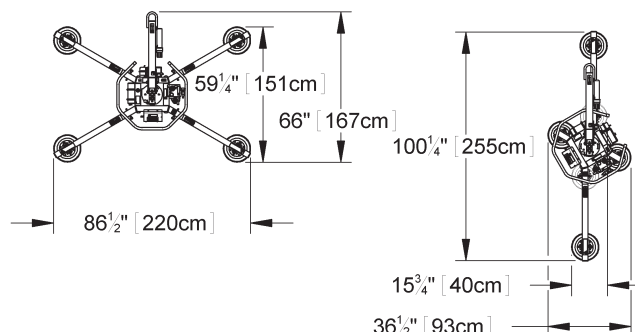
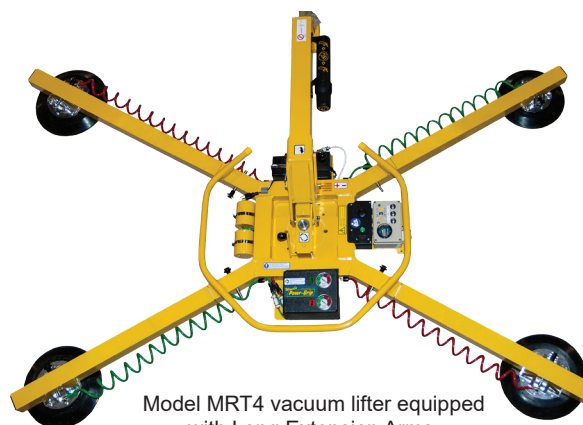
Overhead Clearance Reduction	11-3/4" [298 mm] with Shortened Configurations
Horizontal Reach Increase	7-5/8" [193 mm] with Reversed Bail Configurations
Maximum Load Capacity*	<p>Standard Configuration: 700 lbs [320 kg]</p> <p>Reversed Bail Configuration: 600 lbs [270 kg]</p> <p>Shortened Configuration: 650 lbs [295 kg]</p> <p>Shortened, Reversed Bail Configuration: 500 lbs [225 kg]</p> <p>*Net capacity cannot exceed standard lifter capacity.</p>
Lifter Weight Increase	10 lbs [5 kg]



LONG EXTENSION ARMS

Designed for applications requiring a larger pad spread to reduce overhang on large loads.

Maximum Load Capacity	500 lbs [225 kg] (with long arms installed)
Lifter Weight Increase	10 lbs [5 kg]



Pad Spread Dimensions provided are for MRT411LDC.

For MRT49DC, subtract 2-3/4" [7 cm]

For MRT4HV11DC, subtract 1-3/4" [5 cm]

FORKLIFT ADAPTER

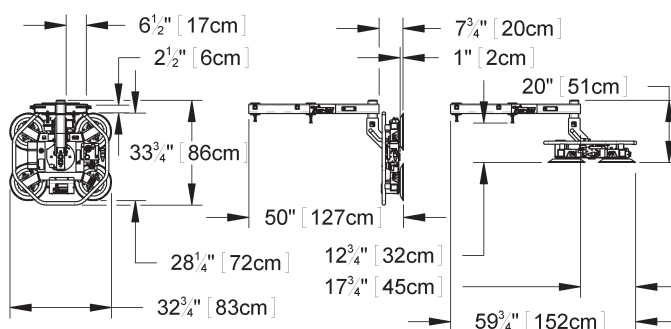
Designed for applications where a forklift is desired, such as installations under eaves and commercial, indoor applications, where using a crane is not possible.

Compatible Fork Dimensions	1-1/2" to 2-1/4" [38-57 mm] thick and 4" to 6" [102-152 mm] wide
Inside Fork Spread	4" [102 mm]
Maximum Load Capacity	700 lbs [320 kg] when used on MRT411LDC*
Maximum Load Thickness	1" [25 mm] at full capacity
Lifter Weight Increase	130 lbs [59 kg]

*The forklift must have sufficient capacity for the combined weight of the lifter and its maximum load when the load is located 8-3/4" [222 mm] outward from the fork tips or 50-3/4" [1289 mm] outward from the fork stops, whichever places the load at a greater distance from the forklift's front wheels.



Model MRT4 vacuum lifter equipped with Forklift Adapter.



SHIPPING CASE FOR MRT VACUUM LIFTER (VACUUM LIFTER AND CASE SOLD SEPARATELY)

- Designed specifically for shipping and storing Powr-Grip® MRT4 Vacuum Lifters.
- Made from 100% recycled HDPE plastic, features twin sheet, thermo-formed construction, making it very durable, as well as water-resistant.
- Special area to house extension arms for these lifters.
- Internal nylon straps to hold the lifter and extension arms firmly in place, preventing them from rattling around while in transit.
- Exterior rubber straps to hold the case securely closed during shipping.
- Handles molded into the case enable convenient handling.
- Mounting points inside the lid of the case enable the hanging of up to 4 extra vacuum pads.
- Ribbed exterior of case specifically designed for easy stacking of multiple lifters (up to 4).
- Wheels on one end make short distance movement of the lifter manageable by one individual.
- Grooves on the bottom of the case facilitate forklift handling from all four sides.





QUADRA-TILT ROTATORS 1200 & 1400 WITH DC3 DUAL VACUUM SYSTEM

MODELS: MRTA811LDC3 & MRTA810TDC3

These versatile rotator-tilters combine a compact design, innovative tilt linkage and twice the load capacity of our popular MRT4-DC lifters.

Quadra-Tilt Design

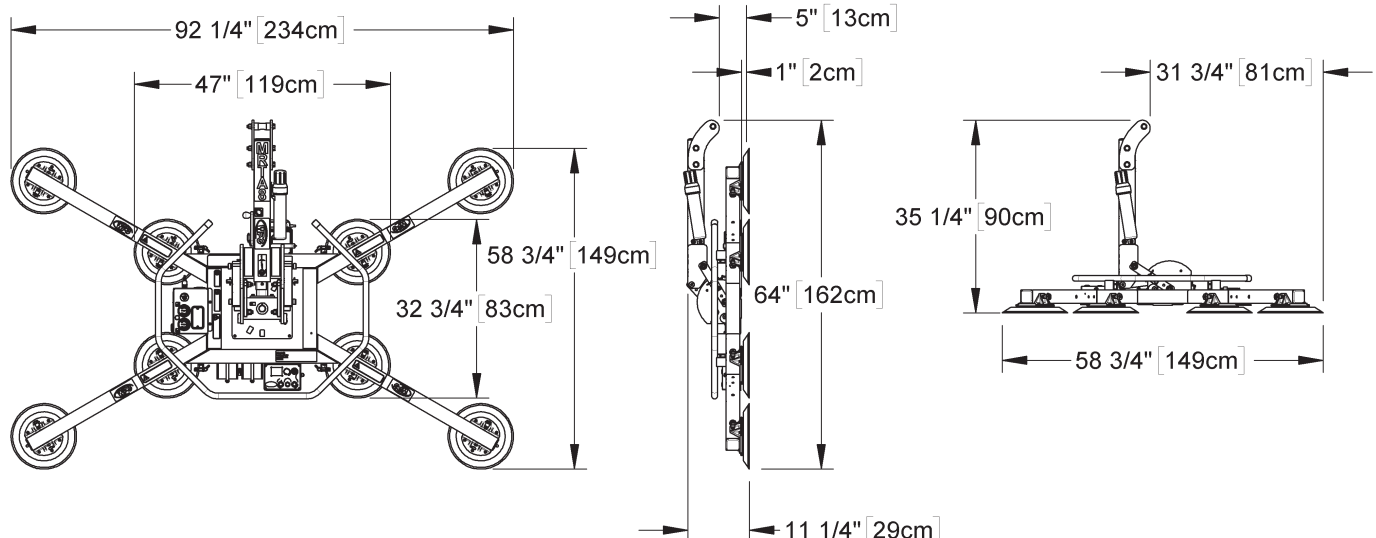
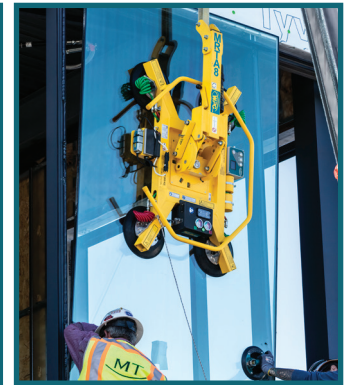
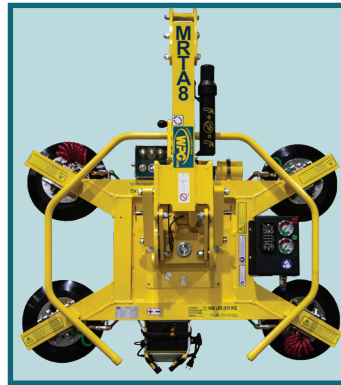
Want to tilt heavy loads without the expense of a powered tilt actuator? Quadra-Tilt enables a single operator to easily move loads between upright and flat positions.

Highly Adaptable Lift Frame

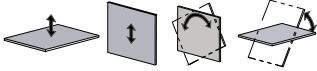
With removable extension arms and (re)movable pad mounts, this lifter can be used on almost any size or shape of load — up to 1400 lbs (635 kg)!

Intelli-Grip® Technology

This WPG-exclusive technology oversees power and vacuum systems, increasing productivity and improving safety. Download the Intelli-Grip® App to monitor the lifter from a distance!



Model MRTA811LDC3 shown here.

Model	MRTA811LDC3	MRTA810TDC3
Maximum Load Capacity	1400 lbs [635 kg]	1200 lbs [545 kg]
Standard Pad Spread	Minimum Width: 12-1/2" [32 cm] Maximum Width: 58-3/4" [149 cm] Minimum Length: 47" [119 cm] Maximum Length: 104-3/4" [266 cm]	Minimum Width: 11-1/2" [29 cm] Maximum Width: 58" [147 cm] Minimum Length: 46" [117 cm] Maximum Length: 104" [264 cm]
Number/Size of Pads	8 / 11" [28 cm] diameter, lipped pads	8 / 10" [25 cm] diameter pads with replaceable sealing rings
Load Movement	Manual rotation, 360° edgewise, with locking at each 1/4 turn Assisted manual tilt, 90° between upright and flat 	
Standard Operating Power	12 volts DC, 4.5 amps	
Lifter Weight	200 lbs [91 kg]	

STANDARD FEATURES

Intelli-Grip® Technology

Available exclusively from Powr-Grip®! Actively monitors power and vacuum systems to increase safety and productivity, using LCD-screen messages, diagnostic codes and other features

Dual Vacuum System

Features two independent air-line circuits to reduce risk of workplace accidents

Battery and Charger

Provide independent, rechargeable power source for cord-free lifter operation in any location; on-board charger features status indicator and automatic shut-off

Battery Gauge

Shows energy level in real time, to help determine when charging is needed

Notification Buzzer and Strobe Light

Alert operator of problems with power or vacuum system, with various patterns of sound and light to indicate severity; back-up battery provides independent power for buzzer

Green Lift Light

Provides visual assurance to know when vacuum is sufficient for lifting

Vacuum Gauges

Feature green and red zones to clearly indicate whether vacuum levels are sufficient for lifting

Vacuum Line Filters

Prevent liquid and other contaminants from damaging the vacuum generating system

Vacuum Reserve Tanks

Increase battery run-time by reducing pump cycles needed to maintain vacuum

Spring-Mounted Vacuum Pads

Automatically adjust to match the angle of load surfaces, easing attachment

STANDARD FEATURES

Movable Pad Mounts

Allow vacuum pads to be moved without tools, adapting the lifter to various load sizes

Extension Arms

Permit multiple lifter configurations for tool-free adaptation to many different load sizes

Quadra-Tilt System

Uses four-bar tilt linkage to reduce operator effort when transferring loads between flat and upright positions, and automatically holds loads in those positions without latches.

Tilt Locks

Provide added protection against unintentional tilt movement while installing glass in multi-story buildings or whenever the operator cannot maintain direct control over loads.

Two-Action, Blow-Off Release

Uses two separate buttons to avoid accidental release, and reverses airflow to quickly release loads without after-stick

AVAILABLE OPTIONS

Remote Control System (59906)

Controls attach, release and other powered functions up to 250' [76 m] away for installing windows and more in multi-story buildings

Forklift Adapter (95457)

Works with telehandlers on construction sites and forklifts in warehouses or wherever a crane is not practical

Pad Frame T-Arm Assemblies (97465 & 97465HV)

Adapt lifter for convenient handling of insulated metal panels or other loads with textured surfaces (sold in pairs)

Adjustable Spacers for Movable Pad Mounts (93101 & 93101AM)

Enable lifters to handle windows with mullions or other loads with surface obstructions

Alternative Vacuum Pad

10" [25 cm] diameter, concave pad (G0750) for handling curved loads
(Specifications not as listed above. Please contact us for more information)

Alternative Pad Compounds

Specially designed for heat resistance, marking resistance, coated surfaces and other purposes

Shipping Case (53007)

Provides protection for storing and shipping the lifter

MRT Dolly (98790)

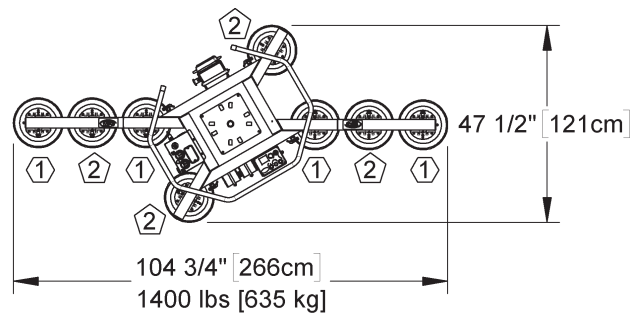
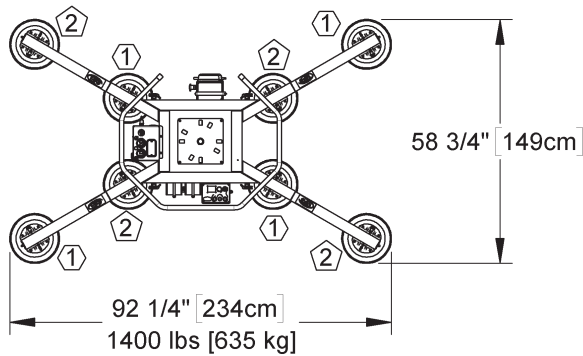
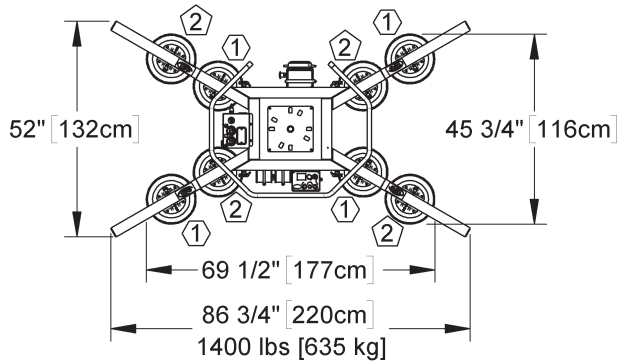
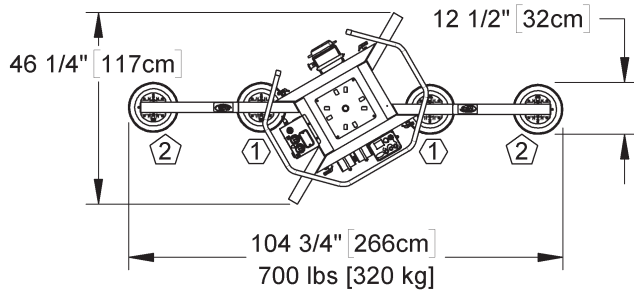
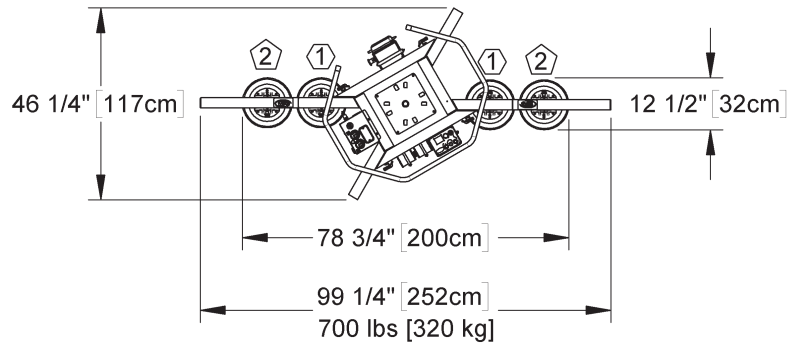
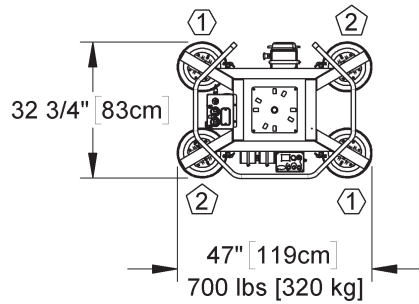
Allows for easy transport and storage of the lifter

DESIGN STANDARDS

ASME B30.20 (BTH-1 Design Category "B", Service Class "0"): Industry standards established by the American Society of Mechanical Engineers (ASME) and published by the American National Standards Institute (ANSI)

CE: Regulatory standards for health and safety required in the European Union

AS 4991: Regulatory standard required in Australia



Model MRTA811LDC3 shown here.

