

ERGO LIFTING
— TECHNOLOGIES —

STANDARD FEATURES AND EQUIPMENT

WB-2200

DRIVE

- Solid rubber tires
- Rear wheel drive steering in a tricycle configuration
- 24 VDC battery electric drive
- Pulse width modulation (PWM) solid state digital speed and directional control
- Electric chassis drive includes transmission and automatic brakes
- Steering tiller includes directional and speed controls, and a belly button switch

CHASSIS

- Counterbalanced fixed boom assembly
- Slide-out counterweight chassis mounted with optional extra plates (110 lbs. each)
- Built in 40 Amp battery charger with linear rate control, 110 volt, 60 hz. single phase
- Electrical circuit breakers

VACUUM

- Redundant vacuum pumps, non-lubricated positive displacement, automatic start-stop control
- Vacuum frame accepts variety of cup sizes, fully adjustable
- Vacuum cartridges include bi-directional coil spring loaded mounts
- Includes 4 standard 20" x 12" rectangular suction cups, 550 lbs. lift per cup in shear at 100% safety factor

* Optional add-on feature



CONTROL

- 9 standard direction manipulator motions
- Forward reach to 7" frame/mullion depth

HYDRAULICS

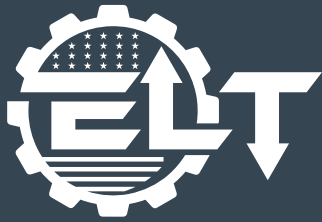
- 2.8 HP, DC drive motor direct coupled to hydraulic pump
- All hydraulic functions are proportionally controlled.

CONSOLE

- Wireless Control
- Console items include:
 - Multi function controls for all manipulator end effector functions
 - Vacuum release switches
 - Emergency stop
 - Hi-low dial & vacuum readout on wireless controller

SAFETY

- Speed and directional controls handlebar mounted separate from boom/manipulator controls
- Low vacuum level alarm, audible horn
- Safety vacuum check valves
- Console-mounted dual switch vacuum release
- Anti-tipping mechanism automatically prevents forward extension of load prior to unbalanced situation; forward tipping is prevented.

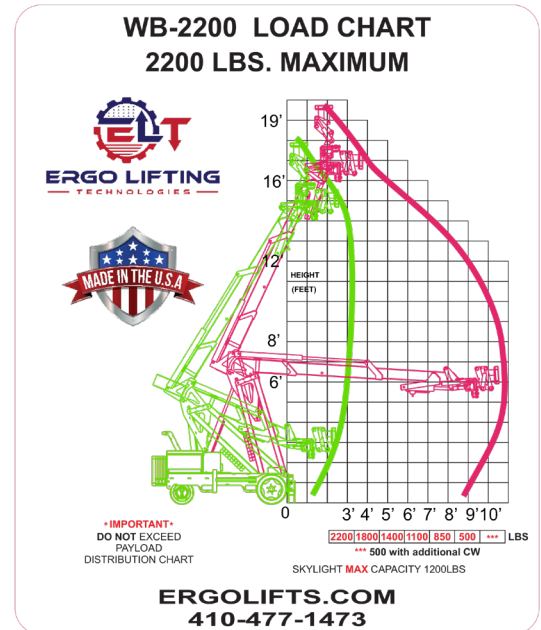


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SPECIFICATIONS

DIMENSIONS

WB 2200 CHARACTERISTICS	SPECIFICATIONS
Lift Capacity	2,200 lbs.
Closed Chassis Length	86"
Width	34"
Height: Retracted Clearance	78"
Height: Center of Lift Hub	198"
Turning Radius	0"
Unladen Weight (including 3 standard 110 lb. counterweights)	3800 lbs.
Optional Counter Balance Plate	110 lbs.



POWERED MANIPULATION FUNCTIONS

CONTROL	ASSEMBLY	DIRECTION	VIEWED FROM
1	Boom Camber	Pivots Forward and Backward	Side Elevation
2	Boom	Raise-Lower	Side Elevation
3	Boom	Telescoping Extend-Retract	Side Elevation
4	Crab	Up and Down	Front Elevation
5	Manipulator - Vacuum Cup Frame	Vertical Angular Tilt	Side Elevation
6	Manipulator - Vacuum Cup Frame	Horizontal Angular Tilt	Top Plan
7*	Manipulator - Vacuum Cup Frame	Lateral Side Shift, 2" Left & 2" Right, 4" Total	Front Elevation
8	Manipulator - Vacuum Cup Frame	EZ Set: 11" Reach, Out & Down / Up & In	Front Elevation
9	Manipulator - Vacuum Cup Frame	Rotate - CW and CCW 180°	Front Elevation

- All hydraulic controls use fine metering valves.
- The hydraulic circuits are equipped counterbalance valves to prevent leak down and droop under load.

