



**ERGO LIFTING**  
— TECHNOLOGIES —

**WB-4400**



## STANDARD FEATURES AND EQUIPMENT

### 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 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 brushless vacuum pumps, non-lubricated positive displacement, automatic start-stop control
- Vacuum system accepts a variety of cup sizes, fully customizable
- Vacuum cups include bi-directional coil spring loaded mounts
- Includes 8 standard 20" x 12" rectangular suction cups, 550 lbs. lift per cup in shear at 100% safety factor

### CONTROL

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

### HYDRAULICS

- 24 VDC drive motor directly 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
  - Low speed dial
  - Function & 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.



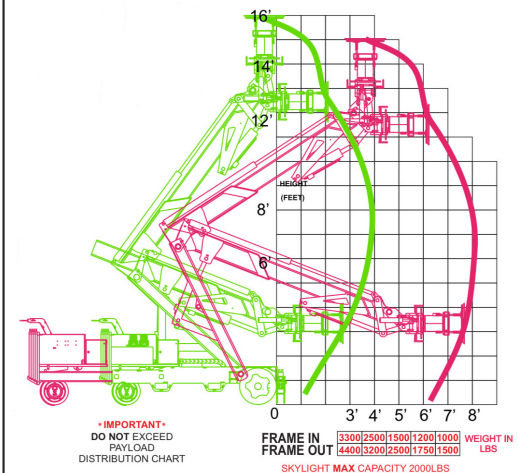
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## SPECIFICATIONS

### DIMENSIONS

WB 4400 CHARACTERISTICS	SPECIFICATIONS
Lift Capacity	4,400 lbs., 2,000 kg
Closed Chassis Length	100"
Width	42"
Height: Retracted Clearance	78"
Height: Center of Lift Hub	210"
Turning Radius	0"
Unladen Weight (including 3 standard 110 lb. counterweights)	4200 lbs.
Optional Counter Balance Plate	110 lbs.

### WB-4400 LOAD CHART 4400 LBS. MAXIMUM



### POWERED MANIPULATION FUNCTIONS

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

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

