



ERGO LIFTING
— TECHNOLOGIES —

CML-4

STANDARD FEATURES AND EQUIPMENT



CHASSIS

- Adjustable boom assembly
- removable modular counterweight system
- Comes with 16 removable counterweight plates with handles
- Onboard battery charger with over charge protection
- Electrical circuit breakers

VACUUM

- Redundant vacuum pumps
- Automatic start/stop vacuum control
- On demand vacuum recharge button
- Adjustable Vacuum cup frame
- Vacuum cups with bi-directional coil springs
- Includes 20" x 12" rectangle suction cups, 550lbs lift per cup in shear with 100% safety factor

HYDRAULICS

- All hydraulic functions are proportionally controlled, with valves for each boom or manipulator function

CONTROL

- 6 direction manipulator motions
- Adjustable cantilever from 2 to 4 feet

CONSOLE

- Battery isolation switch
- Battery master switch
- Hour meter
- Vacuum gauge
- Hydraulic power On/Off switch
- Battery charge gauge
- Vacuum Indicator Lights

WIRELESS REMOTE

- Multi-function controls for all manipulator end effector functions
- Vacuum and release switches
- Emergency stop
- Vacuum gauge
- Scale

SAFETY

- Strobe light operates with master battery switch
- Low vacuum level alarm, audible horn
- Safety vacuum check valves
- Console-mounted 2 button safety vacuum release valve
- LED vacuum status feedback
- Auto level recognition sensor for release safety
- Counterbalance trolley guide BL-634 leaf chain



SPECIFICATIONS

CML-4

DIMENSIONS

SKYHOOK WPI CHARACTERISTICS	SPECIFICATIONS
Lift Capacity at Minimum Offset	4,000 lbs.
Lift Capacity at 4ft Offset	2,700 lbs.
Chassis Length, Without Extensions	115"
Tare Weight, 14 Plates, No Extensions	2,950 lbs.

POWERED MANIPULATION FUNCTIONS

CONTROL	ASSEMBLY	DIRECTION	VIEWED FROM
1	Counterbalance	In/Out	Side Elevation
2	Under Hook Connection	Up/Down	Side Elevation
3	Horizontal to Vertical Tilt	Tilt Up/Down	Side Elevation
4	Manipulator - Vacuum Cup Frame	Rotate - CW and CCW 180 Degrees	Front Elevation

- All hydraulic controls use a variable orifice proportional valve.
- The hydraulic circuits are equipped with check and counterbalance valves to prevent leak down and droop under load.
- Actuation is proportional and linear in response to control inputs.