Standard Features and Equipment

CHASSIS
- Counterbalanced modular boom assembly
- Primary counterweight chassis mounted
- Comes with 3 secondary counterweights
- Built in battery chargers with over-charge protection
- Electrical circuit breakers

VACUUM
- Redundant vacuum pumps, non-lubricated positive displacement, automatic start-stop control
- Full Adjustable Vacuum cup frame
- Vacuum cups include bi-directional coil spring loaded mounts
- Includes 20" x 12" rectangular suction cups, 550 lbs. 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 6 to 11 feet

CONSOLE
- Controls on unit include
- Battery isolation switch
- Battery master switch
- Hour meter
- Vacuum gauge
- Hydraulic power On/Off switch
- Battery charge gauge
- Wireless remote includes
- Multi-function controls for all manipulator end effector functions
- Vacuum and release switches
- Emergency stop

SAFETY
- Strobe light operates with master battery switch
- Low vacuum level alarm, audible horn
- Safety vacuum check valves
- Console-mounted two button safety vacuum release valve
- LED vacuum status feedback

WPI-G2 Dimensions

SkyHook WPI Characteristic	Specification
Lift Capacity at minimum (6') offset	6,000 lbs.
Lift Capacity at 11' offset	4,000 lbs.
Chassis Length, without extensions	384"
Minimum Width	37"
Tare Weight, w/ 4 c/b plates, no extensions	5,950 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°	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.