



**ERGO  
ROBOTIC  
SOLUTIONS**

**THOM 4000**



## STANDARD FEATURES AND EQUIPMENT

### CHASSIS

- Fork-mountable with safety chains
- Fork clamp screws with extended T-handles
- Built in battery chargers 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 8 standard 20" x 12" rectangular suction cups, 550 lbs. lift per cup in shear at 100% safety factor

### HYDRAULICS

- All hydraulic functions have proportionally controlled electric valves for each boom or manipulator function

### CONTROL

- 7 direction manipulator motions

### CONSOLE

- Controls on unit include
  - Battery master switch
  - Hour meter
  - Vacuum gauge
  - Battery charge gauge
- Wireless remote includes
  - Proportionally controlled buttons 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



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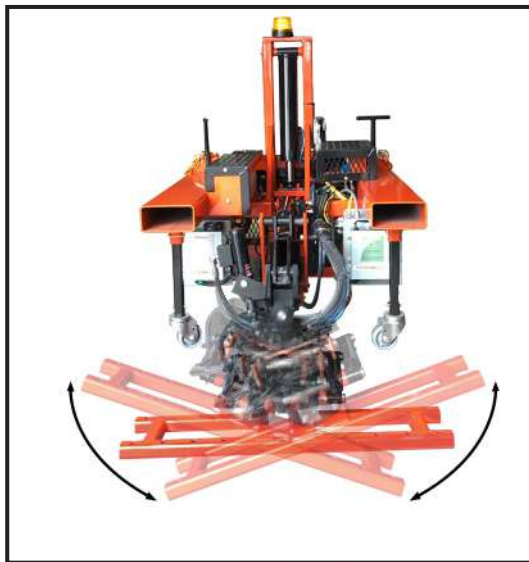
**518-796-2179**

**THOM 4000**



# THOM 4000 DIMENSIONS

THOM 4000 Characteristic	Specification
Lift Capacity	4000 lbs.
Extended Length	67" - 77"
Chassis Length	44"
Width	42"
Height	51"
Unladen Weight	1,600 lbs.
Cup Weight	2 Cup Assemblies = 60 lbs 4 Cup Assemblies with 4 Extension Bars = 230 lbs 6 Cup Assemblies with 4 Extension Bars = 290 lbs 8 Cup Assemblies with 4 Extension Bars = 350 lbs



## POWERED MANIPULATION FUNCTIONS

Control	Assembly	Direction	Viewed from
1	Boom Angle	Up 90° / Down 45° from chassis	Side Elevation
2	Boom Length	In / Out 10"	Side Elevation
3	Horizontal to Vertical Tilt	Up 90° / Down 90° from boom	Side Elevation
4	Rotate	CW / CCW 180° in total	Front Elevation
5	Swivel	Left / Right 60° total	Top Elevation
6	Side Shift	Left / Right 4" total	Front Elevation
7	EZ Pick	10" reach, out & down / up & in	Front Elevation

- All hydraulic controls are finger pressure proportional.
- 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.

