

Counterbalance 1500 Automated guided vehicle

Versatile load handling



Flexible medium-duty floor-to-rack solution

Ideal for handling pallets, racks, and rolls, our counterbalance automated guided vehicles (AGVs) excel in floor-to-floor transfers. However, they are not limited to floor operations and can interface with plant equipment like racks, conveyors, and AS/RS. Our counterbalance vehicles also provide excellent versatility. The lift mast, mounted at the very end of the vehicle, keeps the AGV clear of loads and minimizes vehicle width. This allows the AGV to handle multiple load types without complications.

CB1500 Features

- Interfaces with racks, conveyors, AS/RS, and other plant equipment
- Compatible with various fork attachments, such as double forks
- Variable speeds available
- Small footprint for optimal maneuverability
- Navigates tight spaces
- Lift height to 17 ft (5 m)
- Load capacity 3,300 lbs (1,500 kgs) at 24" (600 mm) load center*

CB1500 Benefits

- Hydraulic lift provides fast movement of heavy loads
- Versatile horizontal and vertical load movement
- Ideal for load stacking and de-stacking
- Counterbalance design assures rack face access for loads
- Clean, sustainable battery power source with automatic charging
- Load detection increases load positioning accuracy

Typical Pick/Drops

- Receiving dock to warehouse floor or racking
- Work in process from cell to cell
- Work in process to warehouse
- Warehouse to production floor or fixed conveyor
- Production to shipping floor or staging for Automatic Trailer Loader

CB1500 Safety Features

- **Obstacle detection sensors**
Full 360° protection with safety-rated lasers
- **Look-down sensor**
Sees objects in vehicle's path above floor level
- **Warning lights**
Amber turn signals, blue running lights, and red emergency lights
- **Blue AGV-approaching warning light**
Shows AGV path and warns personnel in the area
- **Emergency stop buttons**
Red buttons stop the vehicle immediately
- **Load detection and positioning sensors**
Enhance safety by improving pick-up and drop-off accuracy
- **Manual safety reset button**
Human intervention is required to confirm vehicle OK status
- **Battery restraint plate sensor**
Confirms battery is safely confined within vehicle frame



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One Operating System. Total Control.

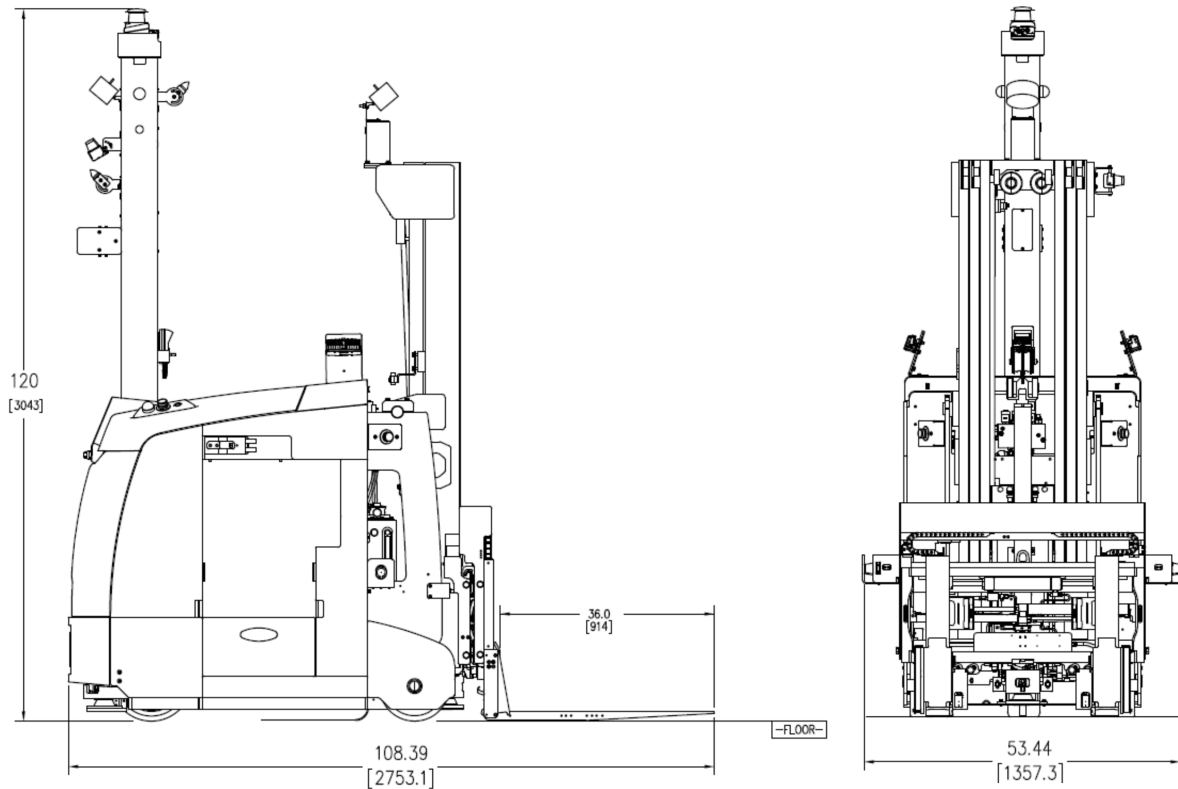
Designed to power FORMOVA vehicles at scale, mōt.OS® is the heart of our total automation intelligence offering, helping maximize the life cycle value of your system.

It allows you to control multiple fleets from multiple manufacturers in a single coordinated platform, giving you a clearer view of your operation and greater control over how everything moves.

The result: smarter decisions, smoother flow, and automation that is **SIMPLE, SCALABLE, and SUSTAINABLE.**

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Technical Specifications*

Operating Power	48vDC	Weight w/ Battery	9,580 lbs	4,354 kgs
Drive	Electric	Weight w/o Battery	7,037 lbs	3,198 kgs
Steer	Electric	Load Capacity	3,300 lbs Max at 24" load center	1,500 kgs Max at 600 mm load center
Lift	Hydraulic	Vehicle Width	44.29"	1,125 mm
Braking	Regenerative Electro-Mechanical	Vehicle Height	120"	3,043 mm
Travel Speed	394 ft/min or 2.0 m/sec	Vehicle Length	108.4"	2,753 mm
Manual Controls	Joystick Controller	Lift Height	Up to 201"	Up to 5,100 mm
Navigation	Natural Feature, Laser, Rail, Deep Lane, etc.	Lift Speed	7.9"/second	200 mm/second

*Specifications can vary based on application