FORMOVA
A JBT Marel Company

Counterbalance 4500
Automated guided vehicle

Engineered for heavy lifting

Move heavy materials with precision. Eliminate manual inefficiencies.

Ideal for handling gypsum, plywood, insulation, and roofing materials, the CB4500 excels in end-of-line transfers, warehouse storage, and staging for shipping. Designed for versatility, it seamlessly moves materials between stackers, warehouses, and staging areas, ensuring efficient and reliable transport. The CB4500 is especially suited for the building materials industry.

CB4500 Features

- Handles gypsum & other building materials
- High floor clearance handles environmental challenges
- Interfaces with other automated and manual equipment
- Large tires cushion loads throughout the facility
- 360° obstacle detection for improved safety
- Flat, tapered forks prevent loads from shifting
- Load capacity 10,000 lbs (4,500 kgs) at 24" (600mm) load center*

CB4500 Benefits

- Works in harsh environments (dust, particulates)
- Reduces product damage
- Works in environments with dunnage on floor
- Load detection increases load positioning accuracy

Typical Pick/Drops

- Cell-to-cell movement in Manufacturing
- Building materials or other heavy loads
- Floor-to-floor horizontal transport
- Raw material to/from dock to point of use
- Packaging material movement
- Rework or QA processing movement

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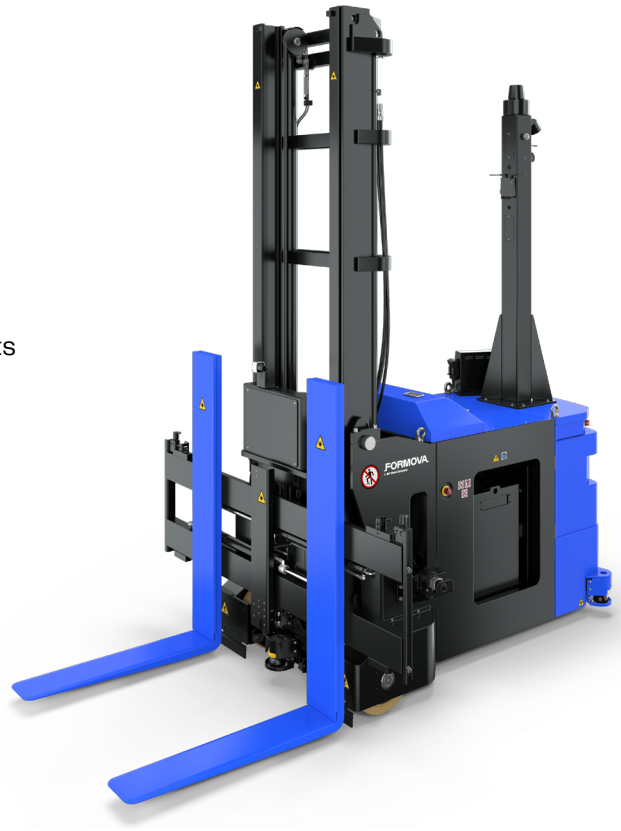
CB4500 Safety Features

- **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



mōt.OS®

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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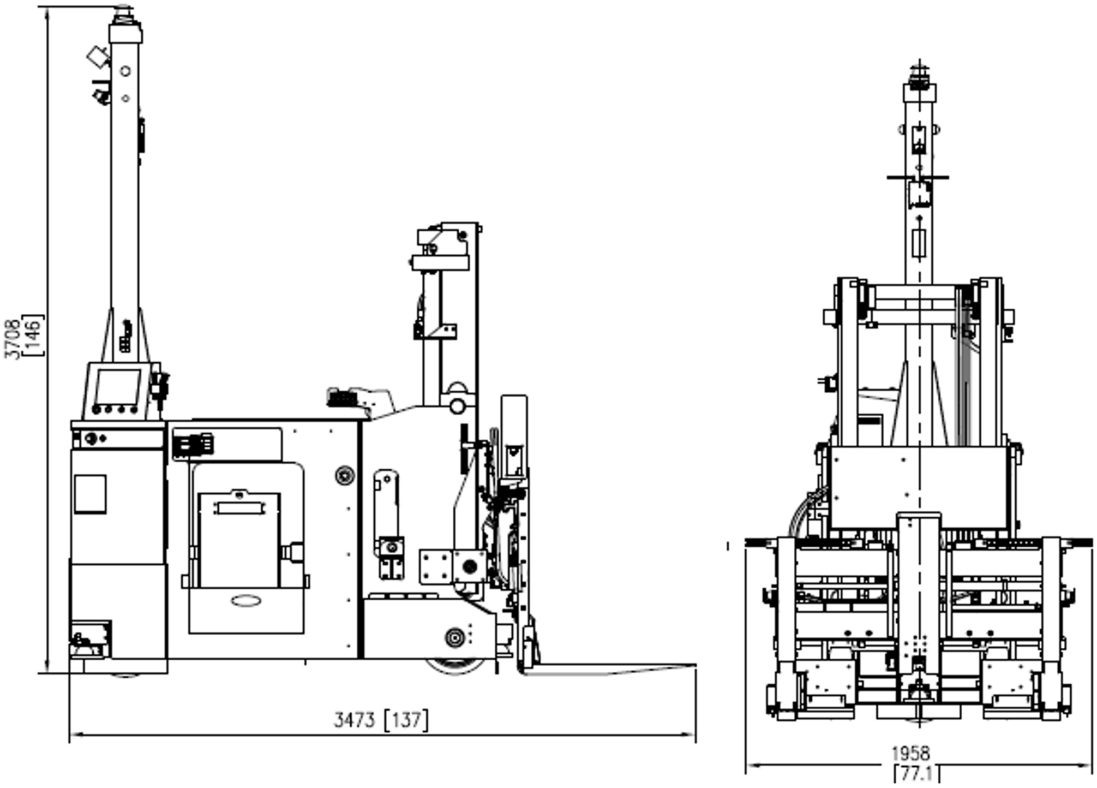

Technical Specifications*

Operating Power	48vDC	**Weight w/ Battery**	20,090 lbs	9,114 kgs
Drive	Electric	**Weight w/o Battery**	15,999 lbs	7,257 kgs
Steer	Electric	**Load Capacity**	10,000 lbs Max at 24" load center	4,500 kgs Max at 600 mm load center
Lift	Hydraulic	**Vehicle Width**	77"	1,958 mm
Braking	Regenerative Electro-Mechanical	**Vehicle Height**	146"	3,708 mm
Travel Speed	394 ft/min or 2.0 m/sec	**Vehicle Length**	137"	3,473 mm
Manual Controls	Joystick Controller	**Lift Height**	Up to 156"	Up to 3,960 mm
Navigation	Natural Feature, Laser, Rail, Deep Lane, etc.	**Lift Speed**	5.3"/second	135 mm/second

*Specifications can vary based on application