

CF1500

Counterbalance Fork 1,500 kg Pallet Capacity

The CF1500 is a counterbalance fork AGV built on Daifuku's robust AGV technology.

With a capacity of 1500 kg (3,300 lbs), the CF1500 efficiently moves loads from floor, racks, conveyors, and load stands.

FEATURES

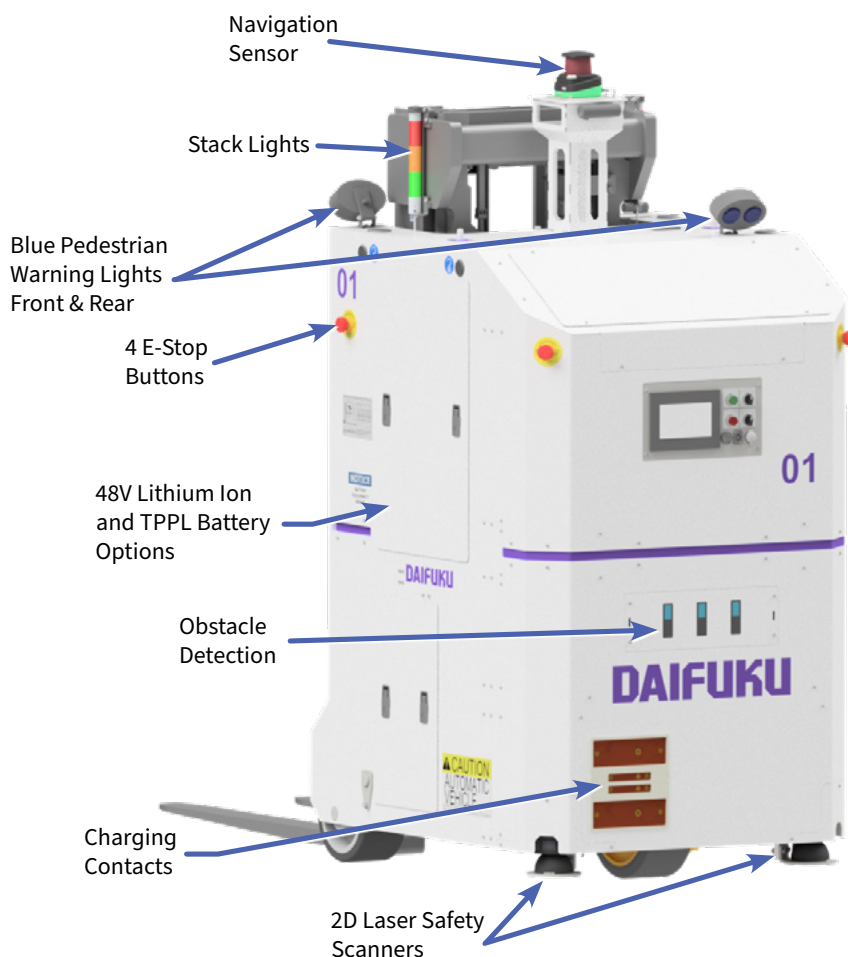
Safe: The CF1500 includes 3 laser scanners to detect obstructions and personnel. Blue pedestrian warning lights shine front and back to alert employees of approaching vehicles.

Productive: 24/7 operation with intelligent 9.6 kW fast opportunity charging. Your AGV will spend less time charging and more time working.

Connected: Integrates with Plant Control Systems via Wi-Fi communications and System Automation Manager™ (SAM) software providing AGV fleet management.

Affordable: Many applications can demonstrate Return On Investment in as few as six months.

Simple: AGV Tools software provide a user-friendly interface, allowing the customer to modify and expand their systems.



NAVIGATION OPTIONS

Natural Feature Navigation (NFN):

The AGV determines its location using LIDAR to identify structures in the environment and match their locations to a virtual map of the facility.

Laser Navigation:

The AGVs navigation scanner measures angles and distances to reflective targets to determine the AGVs precise location.

Inertial navigation is included with every NFN or Laser AGV to ensure navigation success regardless of application environment.

FEATURES	OPTIONS
<ul style="list-style-type: none"> • Automatic Fast Charging • Warning Light/Horn • Automatic Shut off • Auto-Sleep/Auto-wake 	<ul style="list-style-type: none"> • Floor Charging • Load Height Detection • Vertical Plane Side Scanners

Smart Handling AGV Solutions

General Specifications

Weight without batteries	4000 kg (8,818 lbs)
Dimensions	L: 1216 mm (48") less forks W: 1031 mm (41") H: 2128 mm (84")
Load Capacity	1500 kg (3,300 lbs) at 600 mm (23") load center
Lift Height	4 m (157") reduced capacity above 2 m (79")
Safety	3 safety laser scanners, optional (2) vertical plane scanners on sides
Drive Speed	109 m/min (357 FPM) forks trailing, 73 m/min (240 FPM) forks leading
Lift Speed	100mm/s (4"/s), variable
Battery Options	48V Li-Ion 222Ah or 48V 332Ah, TPPL
Automatic Charge Rate	200 amp maximum, optional 300 amp

Environment

Atmosphere	0 to 40° C, 25% to 95% non-condensing humidity
IP Rating	31
Floor Specs – Edges/Debris	6 mm (.25") abrupt elevation change maximum, smoothed
Expansion Joints	6 mm (.25") maximum
Grade Rating	0% standard, other grades upon application review
Flatness	1% and 6 mm (.25") variation in 1524 mm (5') or less
Friction	0.6 coefficient of friction between wheels and floor, minimum
Floor Conductivity	Static dissipative, less than $3.5 \times 10^7 \Omega$
Radio Communication	Wi-Fi 6/6e VDA 5050 Compliant

Detailed Specifications

Drive Direction – Automatic	Forward and Reverse
Drive Wheel	340 mm X 140 mm (13.4" dia X 5.5") Poly
Drive Type	Single steer drive
Motor	AC 4.4 kW
Brake	Spring actuated (fail-safe)
Load Wheels	Two tires, 254 mm X 127 mm (10" X 5") poly
Fork Positioning	Manual
Fork Side Shift	No
Navigation	Natural Feature Navigation or Laser Navigation, or Inertial Navigation
Positioning Accuracy	+/- 13 mm (.5")
HMI Display	175 mm (7") color touch screen
Manual Movement	Plug in pendant
Drive Stalled Detection	Yes
Program Method	AGVTools™ software
Obstacle Detection	Up to 9 m (30'), speed and location adaptive
Emergency Stop	4 – emergency stop buttons
Standards Compliance	ANSI B56.5-2024, RIA 15.08, EN/ISO 3691-4, UL 3100, CE, UKCA, CSA

AGV SOFTWARE

Simple, standardized toolbox of commands that make configuration a snap.

