DAIFUKU

Product Profile

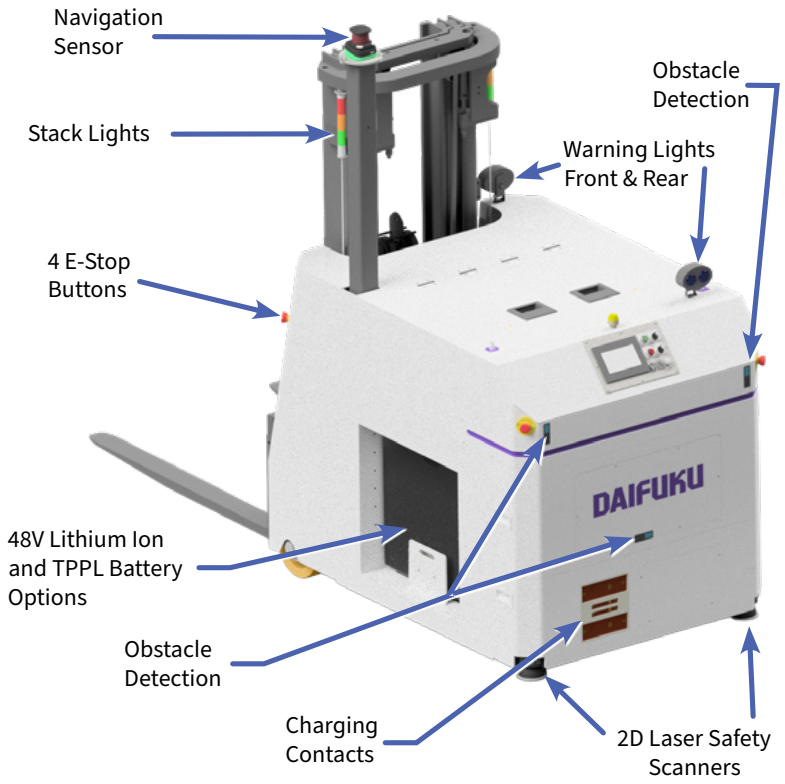
Automatic Guided Vehicles

CF2000

Counterbalance Fork 2,000 kg Pallet Capacity

The CF2000 is a medium load range counterbalance fork AGV built on Daifuku's robust AGV technology.

With a capacity of 2000 kg (4,400 lbs), the CF2000 is ready to move heavy loads.



FEATURES

Safe: The CF2000 includes 3 laser scanners to detect obstructions and personnel. Blue pedestrian warning lights front and back.

Productive: 24/7 operation with intelligent 14kW fast opportunity charging. Your AGV spends 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
• Automatic Fast Charging	• Front & Rear Event Camera
• Adjustable Forks	• Floor Charging
• Warning Light/Horn	• Vertical Plane Side Scanners
• Automatic Shut off	
• Auto-Sleep/Auto-wake	

Smart Handling
AGV Solutions

DAIFUKU

SMART HANDLING AGV SOLUTIONS

General Specifications	
Weight without batteries	4808 kg (10,600 lbs)
Dimensions	L: 1864 mm (73") less forks W: 1209 mm (48") H: 2429 mm (96")
Load Capacity	2000 kg (4,400 lbs) at 600 mm (23") load center
Lift Height	6 m (236") reduced capacity above 4 m (157"), optional 8 m (315")
Safety	3 safety laser scanners, optional (2) vertical plane scanners on sides
Speed	109 m/min (357 FPM) forks trailing
Battery Options	48V Li-Ion 550Ah or 48V 660Ah, TPPL
Automatic Charge Rate	300 amp maximum
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 based on 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 x 10^7 Ω
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
Load Wheels	250 mm X 170 mm (9.8" X 6.7")
Drive Type	Single drive
Motor	AC 4.8 kW
Brake	Spring actuated (fail-safe)
Fork Positioning	Optional
Fork Side Shift	Hydraulic
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	Easy to use 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.

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* For any applications greater than these specifications, please contact Engineering.

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