F Smart Handling AGV Solutions

Automatic Guided Vehicles

M8K-PJ

Pallet Jack

The Model M8K-PJ is a pallet jack vehicle capable of automatic or manual driving modes, when the need for human interaction is required. It can move pallets up to 8,000 lbs (3628 kg), ideal for today's demanding material handling needs.

FEATURES

Safe: The M8K-PJ offers 6 laser scanners to detect obstructions and personnel.

Efficient: The M8K-PJ is battery powered and charges automatically, yielding up to 24/7 fully automatic operation.

Connected: Integrates with Plant Control Systems via Wi-fi communications and System Automation Manager™ (SAM) software providing traffic control.

Affordable: Many applications can demonstrate Return On Investment in three months or less.

Simple: CartTools[™] and AGV Tools software provide a user-friendly interface, allowing the customer to modify and expand their system.



NAVIGATION OPTIONS

Natural Feature Navigation (NFN): Environmental feature data is collected by on-vehicle sensors and used by the vehicle computer to determine location.

Laser Navigation: Field of reflective targets seen by on-vehicle sensors and used by vehicle computer to determine location.

Inertial Navigation: Odometry data and in-floor waypoints are used by the vehicle computer to determine location.

NAVIGATION ENHANCEMENTS

Enhanced Navigation: Additional sensors can be added to augment the vehicle's navigation technology.

Co-Navigation Technology: Multiple navigation packages may be used on a vehicle in challenging environments.

FEATURES AND OPTIONS

- Automatic Drop/Pick
- Wi-fi Communications 802.11 a/b/g/n/ac Sleep/Auto-wake
- Automatic Charging, 300 amps
- Front & Rear Video Camera
- Automatic Shut off
- Warning Light/Horn
- Music Generator



DAIFUKU SMART HANDLING AGV SOLUTIONS

1,650 lbs (748 kg) 64.4" (1635 mm) L x 42.8" (1087 mm) W 4,500 lbs (2041 kg) 8,000 lbs (3628 kg) requires heavier duty forks 2D Laser Safety Scanner 2D Laser Safety Scanner Forward travel
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2D Laser Safety Scanner 2D Laser Safety Scanner
2D Laser Safety Scanner
Totward davel
30.9" (784 mm)L x 13.5" (343 mm) W x 31.6" (802 mm)H
855 lbs (388 kg) / 1550 lbs (703 kg) ✓
Charge rate 140 amp
Charge rate 140 amp
Charge Rate Up to 300 amp
Up to 300 amps
During off shift/maintenance
15 (4.5 mpm) to 360 fpm (109 mpm), 1 fpm (.025 mpm) increments
15 (4.5 mpm)to 90 fpm (27.5 mpm), 1 fpm (.025 mpm) increments
0 to 104 degrees F (0 to 40 degree C), 25% to 95% non condensing
No
+/- ¼" (6.35 mm)
¼" (6.35 mm)
3%
>= 0.6
Static dissipative, less than $3.5 \times 10^7 \Omega$
IEEE 802.11 a/b/g/n/ac
✓
+/- ½" (12.7 mm)
Error generated within 6" (152 mm)of loss path
+/- ½" (12.7 mm)
, , , , , , , , , , , , , , , , , , ,
Forward & Reverse
Wheel 10" (254 mm) diameter x 4" (101.5 mm)W – Poly
Wheel to (254 min) diameter x + (101.5 min) w 1 ory
3 8 kw AC hrushless
3.8 kw AC brushless
Spring actuated (fail safe)
Spring actuated (fail safe) AC brushless
Spring actuated (fail safe) AC brushless Casters 6" (152 mm) diameter x 3" (76 mm)W – Poly
Spring actuated (fail safe) AC brushless Casters 6" (152 mm) diameter x 3" (76 mm)W – Poly 3.5" (89 mm) diameter x 6" (152 mm) W – Dyalon® A Poly
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M8K-PJ Pallet Jack

TWO LOAD CAPACITY OPTIONS
4,500 Lb 8,000 Lb
(2041 kg) (3628 kg)

TWO FORK LENGTH OPTIONS 48" (1219 mm) 96" (2438 mm)*

THREE CONTROLS OPTIONS
Standalone SAM SmartPanel

NAVIGATION
Natural Feature Navigation
Laser - Inertial



* For 96" (2438 mm) forks, consult engineering



Established in 1919, Daifuku Airport America, formerly Jervis B. Webb Company, specializes in the design, engineering, installation and support of innovative material handling systems used in the automotive, airport, beverage, warehousing and manufacturing industries. As a subsidiary of Daifuku, we form one of the largest automated material handling companies in the world, providing the widest range of solutions in the industry for companies around the globe.





DAIFUKU

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