Automate Material Handling with AGVs

BE EFFICIENT | ACCURATE | CONNECTED™

Fred Automated Guided Vehicles (AGVs) are built for manufacturing, distribution, and warehouse facilities to improve worker productivity and safety around materials movement, especially Point A to Point B workflows. Barcoding, Inc. designs, manufacturers, and supports the production of our robotics solutions in our Philadelphia, Pennsylvania office. For more information: www.fredagv.com.
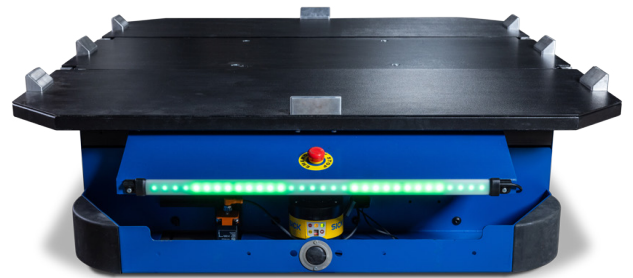
PRIMARY APPLICATIONS

Manufacturing

- Dock to Production
- End-of-Line to Shipping
- Assembly: In-line Conveyance

Warehouse

- Dock to Racks
- Racks to Shipping

SIMPLE, DURABLE AUTOMATION

Simplicity

Easy to install and maintain, no IT department involved.

Capacity

2,500 lbs. unit load: 5,000 lbs. towing. Ideal for moving pallets but built like a tank!

Navigation

Fred is guided by magnetic tape or RFID. Proven, reliable tech with precise stopping.

Safety

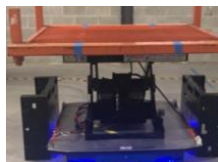Safety-rated edge sensors to avoid collisions.

"Just-Enough" Technology

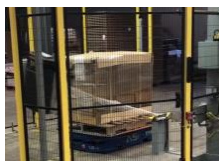No Frills, with enough tech to get the job done.

Conveyor

Towing

Lift Table

Pin Pick-Up

Stretch Wrap

"Fred allows our people to use their skills and training instead of just moving product back and forth. It's amazing that this one robot can make our team so much more efficient and productive."

—DIRECTOR OF OPERATIONS, MONARCH BRANDS

FUNCTION	Fred *(Gen 3)*	Fred Compact *(Gen 3)*
Mobile robot/AGV	Indoor transportation (carry & tow) of heavy loads	Indoor transportation of medium loads
DIMENSIONS		
Length	62.5"	42.9"
Width	44.3"	22.7"
Height	10.8" (top plate); 12.0" (pallet guide)	9.6"
Ground clearance	~1"	~1"
Weight (no load)	630 lb	200 lb.
Load surface	49.8" × 41.8"	42.9" × 22.7"
LOAD CAPACITY		
Carrying	2,500 lb.	400 lb.
Towing	5,000 lb.	N/A
PERFORMANCE		
Battery run time	8 hours	8 hours
Max speed	2.1 mph	3.0 mph
Turning radius	36"	30"
Stop accuracy	0.125" forward/backward; 0.25" left/right	0.125" forward/backward; 0.25" left/right
Allowable tape gap	0.75"	0.75"
POWER		
Battery	AGM 24V 100Ah	AGM 24V 80Ah
Charging time	8 hours (20% to 100%)	8 hours (20% to 100%)
Charger	Input: 120/230DV, 60/50 Hz Output: 24V, 12A constant	Input: 120/230DV, 60/50 Hz Output: 24V, 8A constant
Charging cycles	250 minimum	250 minimum
OPERATING ENVIRONMENT		
Ambient temperature	41°F to 104°F (5°C to 40°C) at 10–95% RH	41°F to 104°F (5°C to 40°C) at 10–95% RH
SAFETY SENSORS		
Sick S300 Mini	~180° plane protection front and back	~180° plane protection front and back
Sensing Edge	Contact safety front and back	Contact safety front and back
COMMUNICATION OPTIONS		
I/Os	16 inputs/16 outputs	None
Wireless control	Up to 100 ft. (line of sight)	Up to 100 ft. (line of sight)
Wifi	2.4 or 5 Ghz	2.4 or 5 Ghz

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