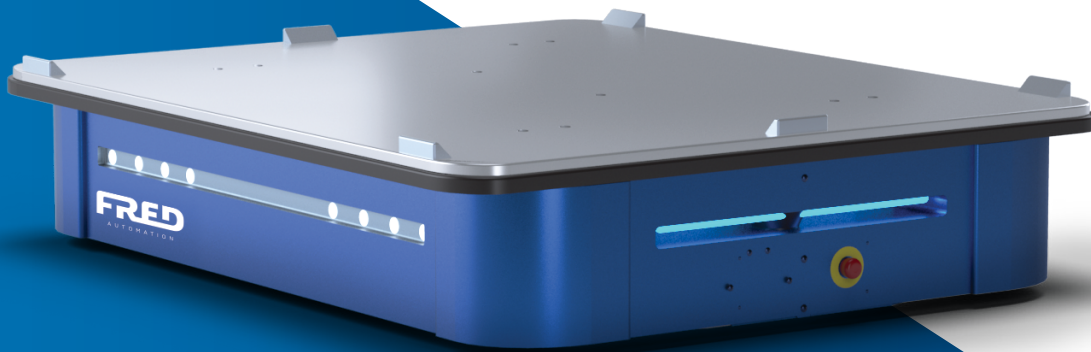
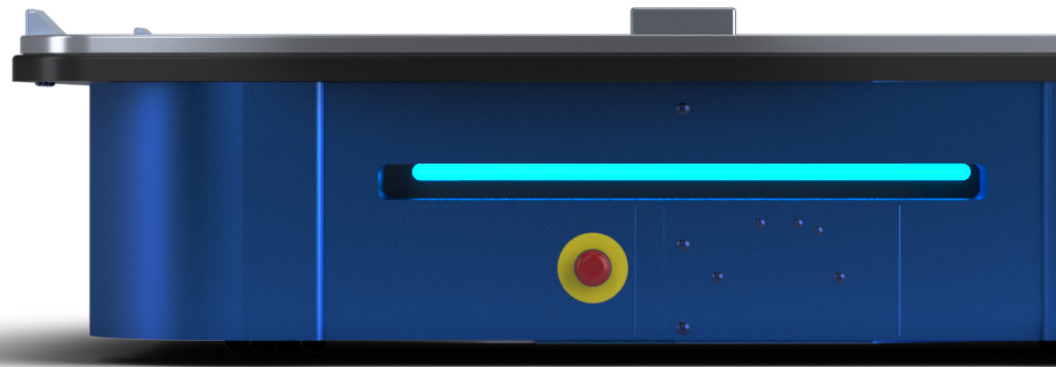


# Simple, Durable Automation

The barrier to entry for AGVs has been broken.  
Introducing **FRED** and **FREDDiE**.



**FRED**  
AUTOMATION



## **FRED and FREDDiE Are Mobile Productivity Powerhouses**

- Works hard and without breaks, 24/7/365
- Solves labor-shortage issues and employee-training investments
- Employees no longer need to transport materials, freeing them up for other tasks
- Handles dangerous tasks to help reduce workers' compensation claims
- Frees up significant space for additional manufacturing lines or warehousing
- Drives near-instant business results thanks to the quickest ROIs you can find from any AGV on the market

## **FRED and FREDDiE Are Remarkably Simple to Set Up, Use and Maintain**

- Guided by easy-to-install magnetic tape so you'll be up and running in under two hours
- Path adjustments are even quicker and easier than initial setup
- Doesn't use WiFi, GPS or Bluetooth, so there are never any connectivity issues or hacking concerns
- No programming, expensive IT support or software maintenance agreements required
- Safety lasers scan for objects or people in path to bring to an immediate stop, then continue when clear

## **FRED and FREDDiE Are Extremely Flexible in Their Abilities to Solve Your Challenges**

- Works in any warehouse or indoor space to serve many applications
- A variety of customizable ways to move goods on and off platform
- Manage a multitude of load types with up to 2,500 lb carrying and 5,000 lb towing capacities (FRED)
- Reconfigure paths at any time to free up floor space or change projects
- Low profiles make them suitable for jobs forklifts, pallet trucks, tuggers and even other AGVs aren't



## **FRED and FREDDiE Are Built Like Tanks—Inside and Out**

- Powered by the industry's most robust wheel drives to decrease maintenance, breakdowns and downtime
- Heavy-duty steel construction and smart design make them nearly impervious to damage
- Super-strong, large, long-lasting wheels easily handle the rigors of repetitive motion
- Even with far less maintenance they can outlast forklifts, tuggers, conveyors and other AGVs

## **Automation's Only ROI Guarantee**

With FRED and FREDDiE's proven track records of rapid ROIs, we offer all qualified customers a two-week trial at our cost. No barriers. No risks. Only game-changing results.

**Contact Doug Fastuca at 215-661-1002 to learn more and schedule your trial today.**

**[fredagv.com](http://fredagv.com)**

Simplified automation is changing the game for commercial applications nationwide.

FUNCTION	FRED	FREDDIE
Mobile robot/AGV	Indoor transportation (carry & tow) of heavy loads	Indoor transportation of medium loads

DIMENSIONS		
Length	52.3"	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)	540 lb.	200 lb. (est.)
Load surface	49.8" x 41.8"	42.9" x 22.7"

LOAD CAPACITY		
Carrying	2,500 lb.	400 lb. (est.)
Towing	5,000 lb.	N/A

PERFORMANCE		
Operating battery life	8 hours	8 hours
Max speed	2.1 mph	3.0 mph (est.)
Turning radius	36"	30" (est.)
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: 120/230V, 60/50 Hz / Output: 24V, 12A constant	Input: 120/230V, 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
IP Class	IP21	IP21
Compliance standards	ANSI B56.5	ANSI B56.5

SAFETY SENSORS		
Sick S300 Mini	~180° protection front and back	~180° protection front and back

COMMUNICATION OPTIONS		
I/Os	Up to 3 inputs / Up to 2 outputs (3 total)	None
Wireless control	Up to 100 ft. (line of sight)	Up to 100 ft. (line of sight)
IR	Up to 3.3 ft. (line of sight)	Up to 3.3 ft. (line of sight)

## **FRED Sales**

**Doug Fastuca**

**215-661-1002**

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