Product Profile

Smart Automatic Transportation

SmartCart[®] AGC





Daifuku's Jervis B. Webb Company continues its 50-year tradition of leading the industry in Automatic Guided Vehicle technology with SmartCart Automatic Guided Cart Model 300TT. The Model 300TT SmartCart is the top-selling AGC offering ultimate flexibility, reliability and scalability at an affordable price.

FEATURES

Low Profile: Designed to "tunnel" under mobile racks and trailers to tow them from underneath. This keeps the footprint of the AGC with trailer to a minimum.

Safe: Safety laser scanners provide detection of operators and objects.

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

Simple: CartTools[®] software provides a user friendly interface to implement/make changes. Non-invasive magnetic path and RFID transponder locations simplify deployment.

Industrial: Steel construction with powder coat and industrial enamel paint.

On-Floor: All equipment that needs to be installed to run your system can be installed on the floor, making the installation non-invasive and configurable. Infloor options are also available for ultimate durability.

Integration: If desired, standard radio communication options with Webb's System Automation Manager[™] (SAM) Software can provide Traffic Control and Interface with Plant Control System.

Hands-Off: Automatic charging to allow 24/7 hands-off operation or manual charging that can run 6-16+ hours.



OPTIONAL FEATURES:

- Reverse Guidance
- 16-Pattern Laser Bumper
- Fast Automatic Charging
- Radio Communication
- Trailer Present Sensor
- Wheel Brushes
- Music Generator



General Specifications

Weight / with batteries
Dimensions
Traction Power
Safety – Front/rear
Speed – Laser Bumper
Rated Trailer

Battery Options

Automatic Charge Fast Automatic Charge Manual Charge

Environment

Environment – Atmosphere Dust/Water-proof Floor Specs – Edges/Debris Expansion Joints Grade Rating Flatness Floor Conductivity Static Dissipative Radio Communication

Detailed Specifications

Available Wheel Loading

Drive Direction - Automatic Duty Cycle Drive Unit - Wheel Drive Type Motor Steering Brake Caster Wheels Guidance - Method Steer Angle Sensor Steering Accuracy Guide Loss Error Hunt for Path Sensor SmartSteer Accuracy HMI Display Manual Movement Minimum Path Radius Drive Stalled Detection Stopping Accuracy Distance Initiated Functions Location Method Program Method

Program Capacity Obstacle Detection Emergency Stop Wiring

860 lbs (390 kg) / 1100 lbs (500 kg) with traction weight
W: 31" (790 mm) L: 78" (1980 mm) H: 14" (355 mm)
80 lbs constant, 160 lbs starting
ANSI B56.5 compliant bumper
15 to 160 FPM, 6 speeds, 1 FPM increments
4,000 lbs (1,814 kg) @ 160 FPM
With 2% friction factor trailer wheels
Capacity reduced by 10% when reversing
1% Incline/Decline 2,600 lbs @ 100 FPM
4 – AGM 105AH 12VDC each, 210AH 24VDC battery pack
4 – AGM/TPPL 102AH 12VDC each, 204AH 24VDC battery pack
80 amp charge rate (if equipped)
140 amp charge rate (if equipped)
Up to 25 amp charge rate

0 to 40° C, 25% to 95% non-condensing humidity
No
1/4" abrupt elevation change maximum, smoothed
¼" maximum
0%
1% and ¼" variation in 5' or less
.6 coefficient of friction between wheels and floor, minimum
Less than 3.5 x $10^7 \Omega$
IEEE 802.11a/b/g, plus security encryption (if equipped)

Front add'l – 500 lbs, Rear add'l – 1000 lbs each
Weight added to module is subtracted from rated trailer
Forward and Reverse (if equipped)
100% @ 80 lbs drawbar (4,000 lbs)
Vulkolan 210 mm diameter x 70 mm wide
Gear driven steerable turntable
1000 watts 24VAC
24 VDC motor
10Nm, spring actuated (fail-safe)
6" diameter x 2" wide
Magnetic or SmartSteer navigation
Analog 10 turn potentiometer
+/- 1" from physical path
Error generated within 6" of path loss
Not offered, violates ANSI B56.5
16 millisecond data rate, 50 updates per second
+/- 3" @ 10'
3.5" color touch screen - errors & destinations
Pendant – via pendant plug receptacle, Rescue dolly
24" – 90° turn, 48" – 180° turn
Yes
1⁄2" proximity sensor, 1-1⁄2" transponder reader @ 30 fpm
Yes – in 1" increments
Transponder tags, 5 data bytes including checksum
Virtual Locations via distance initiated functions
PC and Wireless (if equipped)
5000 program steps
180°, programmable up to 2.8 meters
Front - standard. Rear included with reverse guidance option
Per NEC ampacity guidelines

CartTools[®] Software – Simple, standardized toolbox of commands that make configuration a snap.

Pendant Control – When manual movement is required, it's as simple as

driving the AGC where it needs to go. Wireless Bluetooth (optional)



Reverse Guidance – By just adding another guidance sensor and laser bumper, the 300TT can act as a shuttle cart.

SmartSteer – CartTools commanding of the AGC to intentionally leave the path. Allowing maneuvers like pivot turns and ignoring floor problems.



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

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