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 100ST. The Model 100ST SmartCart is part of the top-selling family of AGCs 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. In-floor 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
- Radio Communication
- CE Labeling
- Turn Signals
- Trailer Present Sensor
- Wheel Brushes
- Music Generator
- Reverse Paddle Bumper for SmartSteer™
Emergency Stop Front
Program Method PC and Wireless (if equipped)
Virtual Locations via distance initiated functions
Drive Stalled Detection Yes
Minimum Path Radius 24" – 90° turn, 30" – 180° turn
Manual Movement Pendant – via pendant plug receptacle, Rescue dolly
HMI Display 3.5" color touch screen – errors & destinations
Hunt for Path Not offered, violates ANSI B56.5
Guide Loss Error Error generated within 6" of path loss
Steering Accuracy +/- 1" from physical path
Radio Communication IEEE 802.11a/b/g, plus security encryption (if equipped)

Detailed Specifications
Available Wheel Loading Front add'l – 200 lbs, Rear add'l – 230 lbs each
Drive Direction – Automatic Forward and Reverse (if equipped)
Duty Cycle – Wheel Velocity 150 mm max. 90 – 90 mm wide
Duty Type Gear driven turntable
Motor 150 mm 24VDC permanent magnet
Steering 24 VDC motor
Caster Wheels Solid elastomer 5" diameter x 1-3/8" wide
Drive Unit – Wheel Vulkolan 150 mm diameter x 50 mm wide
Drive Direction – Automatic Forward and Reverse (if equipped)
Weight added to module is subtracted from rated trailer
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Reverse Guidance – By just adding another guidance sensor and laser bumper, the 100ST can act as a shuttle cart.

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

Pendant Control – When manual movement is required, it’s as simple as driving the AGC, where it needs to go. Wireless Bluetooths (optional)

Dust/Water-proof No
Environment
Flatness 1% and ¼" variation in 5' or less
Grade Rating 0%
Expansion Joints ¼" maximum

Rated T railer 1950 lbs (885 kg) @ 100 FPM
Capacity reduced by 10% when reversing

Speed – Laser Bumper 15 to 160 FPM, 6 speeds, 1 FPM increments
Parking / Emergency Stop
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