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
- Transponder Reader
- 4-Pattern Laser Bumper
- E-Stop
- Warning Light
- Warning Horn
- Tow Pin – Max Towing 1950 lbs
- 36AH Battery Pack
- Operator HMI
- Pendant Control Plug
- Wheel Brushes
- Music Generator
- Reverse Paddle Bumper for SmartSteer™

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**General Specifications**

- **Weight / with batteries**: 325 lbs (147 kg) / 270 lbs (122 kg)
- **Dimensions**: 90.20" x 510 mm x 33.5" (990 mm) H x 11.5" (290 mm)
- **Travel Power**: 40 lbs constant, 80 lbs starting
- **Safety – Front/rear**: ANSI B56.5 compliant bumper
- **Speed – Lower Bumper**: 15 to 160 FPM, 3.5” sq, 3.5’ increments
- **Rear Paddle Bumper**: Minimum 30 FPM (if equipped)
- **Rated Trolley**: 1990 lbs (900 kg) at 100 FPM
- **With 2% friction factor trailer wheels**: 1990 lbs (900 kg) at 160 FPM
- **Capacity reduced by 10% when reversing**: 1% Incline/Decline 850 lbs @ 100 FPM
- **Automatic Battery Charge**: 60 amp charge rate (if equipped)
- **Manual Charge**: Up to 25 amp charge rate, via manual plug

**Environment**

- **Environment – Atmosphere**: 0° to 40° C, 25% to 95% non-condensing humidity
- **Dust/Water-proof**: No
- **Floor Space – Edge/Continent**: 1/4” abrupt change deviation maximum, smoothed
- **Expansion Joints**: 1” maximum
- **Grade Rating**: 1%
- **Humidity**: 1% and 3/4” variation in 5’ or less
- **Floor Conductivity**: 0.6 coefficient of friction between wheels and floor, minimum
- **Static Disruptive**: Less than 3.5 x 107 Ω
- **Automatic Battery Charge**: 48 amp charge rate (if equipped)

**Dust/Water-proof**: No

**Environment – Atmosphere**: 0° to 40° C, 25% to 95% non-condensing humidity

**Drive Stalled Detection**: Yes

**Minimum Path Radius**: 24” – 90° turn, 30” – 180° turn

**Drive Stalled Detection**: Yes

**Stopping Accuracy**: Yes – 1” increments

**Virtual Locations**: Via wireless signal

**HMI Display**: 16” color touch screen – errors & destinations

**E-Stop**: Front/rear – ANSI B56.5 compliant bumper

**Motor**: 130 watts 24VDC permanent magnet

**Drive Type**: Gear driven steerable turntable

**Reverse Guide**: By just adding another guidance sensor and laser bumper, the 100ST can act as a shuttle cart.

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

**HAZARD**: Smart Steer – CartTools commanding of the AGC to intentionally leave the path. Allowing maneuvers like pivot turns and ignoring floor problems. **

**HAZARD**: Smart Steer – CartTools commanding of the AGC to intentionally leave the path. Allowing maneuvers like pivot turns and ignoring floor problems.