Established in 1919, Jervis B. Webb Company specializes in the design, engineering, installation and support of innovative material handling systems used in the automotive, airport, beverage, warehousing and manufacturing industries. As a subsidiary of Daifuku Co., Ltd., we form one of the largest automated material handling companies in the world, providing the widest range of solutions in the industry for companies around the globe.
A Smart Move
with Fast Payback

When You Can’t Afford To Stop Moving
24/7 Technology

The SmartCart® Automatic Guided Cart (AGC) is a flexible and cost-effective material handling solution from Daifuku’s Jervis B. Webb Company. It is ideal for moving products on an assembly line or transporting goods throughout a plant or warehouse. Because it is automatic and durable, SmartCart AGC provides reliable and consistent point-to-point movement of everything from small parts to heavy pallets.

What makes SmartCart AGCs so flexible and cost-effective?

SmartCart AGCs are guided by magnetic tape, which allows you to quickly install or modify the guidepath in as little as a few hours. In addition, SmartCart AGC has numerous load handling options to meet your specific needs. Over time, the load handling carrier can be replaced to accommodate different products, protecting your initial investment.

Furthermore, SmartCart AGC is much cleaner and quieter than traditional conveyors. With a SmartCart AGC system, you have the ability to add SmartCart AGCs if you need to increase capacity or remove them if you want to reduce capacity.

Best of all, the affordability and flexibility of SmartCart AGC allows you to reap immediate benefits by delivering a fast and impressive payback in as little as three months.

SmartCart AGC
Advantages:

- Affordability with a fast payback
- Flexibility with numerous models and options to meet your specific needs
- Magnetic tape navigation
- No building modifications required
- Easy to install
- Easy to configure
- Easy to modify
- Real-time traffic control
- SmartSteer provides the ability to leave guidepath to perform tasks
- Ergonomic options
In addition to AGCs, Webb offers a wide variety of Automatic Guided Vehicles (AGVs) that can handle loads up to 130,000 lb (58,900 kg). Our wide selection enables us to provide you with the most cost-effective and efficient solution that meets your needs. Webb was also the first to develop an Automatic Trailer Loading vehicle, SmartLoader®, which loads trailers and stacks pallets automatically with no trailer modifications needed. For more information on our AGVs and/or SmartLoader, contact a Webb sales engineer.

Load handling frame
Load capacity is directly affected by size and weight of material handling structure or automation. All stated capacities are based on a maximum of 50% duty cycle. For higher duty cycles, consult a Webb sales engineer.

Top of Roll
Best stopping accuracy is achieved by stopping on a proximity sensor from 30 fpm (9 mpm) or less.

A prime area for cost savings in manufacturing plants is through in-process inventory reduction. Simply by adding or removing SmartCart AGCs from the line, assembly production rates can be increased or decreased on demand. This is a substantial benefit over conventional conveyor methods, which require the assembly line to be designed and installed up front for the maximum potential production rate. And, because of their flexibility, SmartCart AGCs are an excellent choice for companies adhering to continuous improvement initiatives.

To fully automate a warehouse, SmartCart AGCs can be integrated with our Automatic Trailer Loading vehicle, SmartLoader®, and/or an Automated Storage and Retrieval System (AS/RS). This adds reliability, dependability and predictability to day-to-day processes. SmartCart AGCs can also dramatically improve warehouse and plant safety.

The Old Way
The SmartCart Way

All SmartCart products have 24VDC battery packs.
Model 100 SmartCart AGC products have 24 VDC drive motors.
Model 300 SmartCart AGC products have 24 VAC drive motors.
Maximum travel speed 160 fpm (49rpm)
CE Labeling and Category 3 Safety Circuits are available on all Model 100 SmartCart AGCs.
CSA Inspection is available on all SmartCart AGCs products.

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Scalable Material Handling: SmartCart AGC allows you to increase throughput by simply adding AGCs.
Easy Installation: SmartCart AGCs can be installed in as little as a few hours; conveyor system installations can take weeks or months to complete.
Easy Modification: Changes to the SmartCart AGC guideway can be made in as little as a few hours, while conveyor system modifications can be very costly and take weeks or months to complete.
No building modifications are required with SmartCart AGCs.

Reducing Costs: In cases where transportation of products is repetitive, SmartCart AGCs can dramatically reduce operational expenses such as labor, benefits and lost time.
Continuous Operation: In most applications, SmartCart AGCs operate two shifts a day without charging. Opportunity charging allows SmartCart AGC systems to operate 24/7.
Improved Safety/Damage Reduction: SmartCart AGCs remain on a designated path at a predictable speed and use a safety bumper, reducing the likelihood of injury or damage.
Types of applications for SmartCart AGCs include:

Assembly
moving products through production processes

Kitting
collecting parts for assembly

Transportation
loading pallets and loose parts

Staging
delivering pallets for production processes

Warehousing
moving products from stretch wrappers to docks or storage

Order Picking
moving ordered products to trailer-loading area for distribution

Parts/Just-In-Time (JIT) Delivery
towing trailers of parts/materials to consumption points

Transfer/Shuttle
transfers loads across high traffic aisles

SmartCart AGCs are improving productivity in almost every industry including automotive, agricultural equipment, furniture, healthcare, food and beverage, as well as in numerous warehouses and distribution centers.

SmartCart AGC customers include:

- Chrysler
- General Motors
- Johnson Controls
- Harley-Davidson
- Polaris
- John Deere
- Yamaha
- Nissan

Features and options include:

- CartTools® software for SmartCart AGC configuration
- Magnetic tape or bar magnet guidepath
- SmartSteer™ technology
- Transponder location sensing
- Precision stopping proximity sensor
- Six selectable speeds from 15 (4.5) to 160 fpm (49 mpm)
- Automatic restart front bumper
- Laser bumper
- Pendant control
- Wireless pendant control
- Color HMI display
- Opportunity charging
- Fast charging
- Battery level monitoring
- Stopping - with pushbutton release, timed release or remote release
- Automatic load transfer controls

The Model 300 is available in numerous options. The Model 300 Tugger has a 6,000 lb (2,722 kg) towing capacity based on a trailer friction factor of two percent. The Tugger is available with an auto hitch, which allows for automatic coupling and decoupling with trailers.

The Model 300TT with Load Handling Frame (LHF) can handle live loads up to 4,000 lb (1,814 kg) depending on the type of carrier. The 300TT can be equipped with a customized carrier designed to meet your unique needs. Carrier options include a scissor lift, which lifts and lowers products to improve ergonomics for assembly operations.

The Model 300 also includes options for a Single Roller Conveyor, which is useful for delivering pallets, as large as 48” (1218 mm), to and from roller conveyor systems. The Model 300 Single Conveyor AGC can transport a load up to 3,200 lb (1,451 kg).

Webb frequently provides non-standardized material handling options that have included:

- Powered forks
- Dual conveyor decks
- Scissor lifts

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Webb offers numerous SmartCart® AGC models and options, allowing you to find the SmartCart AGC that best fits your needs.

**CE OPTION**
This option provides a SmartCart that is CE certified, which means it has met all European Union (EU) consumer safety, health, or environmental requirements. The CE SmartCart AGC includes a redundant circuit on the laser bumper, turn signals, and metal skirts. The CE certification can be available on all SmartCart AGC models.

**CSA INSPECTION OPTION**
This CSA Model Code SPE-1000 Special Inspection Service option is provided to comply with Canadian regulations for electrical equipment. This inspection is an accepted form of approval for electrical products used in Canada.

**Model 100**
The Model 100 SmartCart AGC is available in two options for towing and assembly applications. The 100 Tugger/Tunnel (TT) is lower to the ground than the standard 100 Tugger, allowing it to “tunnel” under a customized carrier and tow it to another location. The Model 100 TT is available with an auto hitch, which allows for automatic coupling and decoupling with trailers and customized carriers. It is perfect for parts delivery, parts kitting, order picking and pallet delivery. The Model 100 ST “Short Tunnel”, provides a smaller footprint by shortening the vehicle length 19 inches. Both products have the same towing rating while the 100TT is more stable being heavier and better suited to tow loads. This vehicle is to be used only for tunneling and unit load applications, it cannot be used as a tugger.

The 100TT and 100ST can be equipped with a Load Handling Frame (LHF) to make it ideal for assembly applications. Making the LHF easily removable from the AGC allows for a minimization of space required while still allowing the maximum accessibility to the AGC for maintenance. Customized load handling carriers are designed to meet your unique needs, including load handling frames supported by swivel casters for added stability in narrow aisles, depending on the type of carrier, the 100TT and 100ST can handle live loads up to 1,700 lb (771kg).

**Designed for the Way You Do Business**

**Here’s What Customers & Industry Experts are Saying about SmartCart AGCs**

“The advantage of being able to just pick up the magnetic tape and change the layout in a matter of minutes allows us to change an entire line over a weekend. When you look at the bang for the buck, you can’t beat these SmartCarts.”

Dave Werkheiser | Manufacturing Engineer | John Deere

“SmartCart is an excellent example of standardizing the (automatic guided vehicles) and employing new technology to make them more cost-effective.”

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“With the carts, all we have to do is prep the floor and put down some magnetic tape to reconfigure the path. We can do that over a weekend or a holiday shut down.”

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* “Automatic Cart Makes it Easier to Handle Parts” The Detroit News, January 11, 2005
Intuitive Navigation

Webb’s SmartCart® AGC provides multiple navigation options to meet the specific needs of your environment. The most widely used option is magnetic tape, which is installed by merely cleaning the floor and applying the tape. Transponder tags can be placed on the floor to indicate locations where SmartCart AGCs are to perform assigned tasks. Various tasks such as stopping, increasing/decreasing speed, lifting and lowering can be performed at different locations. To modify the guideway, you can simply pull up the magnetic tape and reapply it in another location (along with any transponder tags).

In high-traffic areas where magnetic tape could be damaged, a bar magnet strip can be embedded into the floor in place of the magnetic tape. Another alternative, Webb’s new SmartSteer™ technology allows you to program a SmartCart AGC to intentionally leave the navigation path and perform functions such as:

- crossing an aisle
- completing a three-point turn
- full reversing
- returning to the guideway.

Best of all, SmartSteer functionality is now standard on all SmartCart AGC models.

Simple Configuration

Setting up your SmartCart AGC system is simple with CartTools®. Webb’s easy-to-use software configuration tool, CartTools lets you specify the tasks you want a SmartCart AGC to perform at various locations in your system. These functions include stopping, changing speed, triggering outputs, checking inputs, lifting, lowering and diverging from the guideway.

Real-Time Traffic Control

For real-time control and monitoring of multiple SmartCart AGCs within a system, you have the option to add System Automation Manager (SAM) software. The SAM uses a wireless Ethernet LAN (802.11a/b/g) connection to collect data from all SmartCart AGCs in the system. The SAM also interfaces with all major upper level PLC systems (A/B/Rockwell, Mitsubishi, Omron, and Siemens) for destination and routing logic. Additionally, the SAM provides status reporting and special functions, including the option to integrate with Warehouse Management Systems.

User-Friendly Interface

With the SAM, you can load a bitmap (.BMP) image of your entire SmartCart AGC system into SmartView™, a standard program that allows you to add new SmartCart locations anywhere on the bitmap. As a result, you can easily visualize changes to the guideway before making them. Each SmartCart AGC also features color graphic displays that show vehicle status and allow you to change the destination and manually control the vehicle. Smart-panel consoles provide remote interaction with SmartCart AGCs and system I/O.

Effective Data Collection

SmartCart AGC systems that utilize SAM, collect and retain system data in a SQL database which can be retrieved on-demand with the SmartReports report tool. This allows you to examine the system’s trends that might indicate service needed on the guideway or SmartCart AGCs.
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Model 100

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Types of applications for SmartCart AGCs include:

- **Assembly**: moving products through production processes
- **Kitting**: collecting parts for assembly
- **Transportation**: loading pallets and loose parts
- **Staging**: delivering pallets for production processes
- **Warehousing**: moving products from stretch wrappers to docks or storage
- **Order Picking**: moving ordered products to trailer-loading area for distribution
- **Parts/Just-In-Time (JIT) Delivery**: towing trailers of parts/materials to consumption points
- **Transfer/Shuttle**: transfers loads across high traffic aisles

SmartCart AGC customers include:
- Chrysler
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- John Deere
- Yamaha
- Nissan

Endless Industries, Applications & Customers

SmartCart® AGCs are improving productivity in almost every industry including automotive, agricultural equipment, furniture, healthcare, food and beverage, as well as in numerous warehouses and distribution centers.

The Model 300 SmartCart AGC is available in numerous options. The standard Model 300 Tugger has a 6,000 lb (2,722 kg) towing capacity based on a trailer friction factor of two percent. The Tugger is available with an auto hitch, which allows for automatic coupling and decoupling with trailers.

The Model 300TT with Load Handling Frame (LHF) can handle live loads up to 4,000 lb (1,814 kg) depending on the type of carrier. The 300TT can be equipped with a customized carrier designed to meet your unique needs. Carrier options include a scissor lift, which lifts and lowers products to improve ergonomics for assembly operations.

The Model 300 also includes options for a Single Roller Conveyor, which is useful for delivering pallets, as large as 48” (1218 mm), to and from roller conveyor systems. The Model 300 Single Conveyor AGC can transport a load up to 3,200 lb (1,451 kg).

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- Powered forks
- Dual conveyor decks
- Scissor lifts

Features and options include:
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- SmartSteer™ technology
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- Precision stopping proximity sensor
- Six selectable speeds from 15 (4.5) to 160 fpm (49 mpm)
- Automatic restart front bumper
- Laser bumper
- Pendant control
- Wireless pendant control
- Color HMI display
- Opportunity charging
- Fast charging
- Battery level monitoring
- Stopping - with pushbutton release, timed release or remote release
- Automatic load transfer controls
SmartCart® AGC Model Specifications

Model 100TT
Model 100ST
- Load capacity 1,950 lbs (907 kg)
- Reverse guidance travel speed 160 fpm (49rpm)

Model 300TT
Model 300ST
- Load capacity 6,000 lbs (2,722 kg)
- Reverse guidance travel speed 160 fpm (49rpm)

Model 300TT
Tugger/Tunnel
- Load capacity 4,000 lbs (1,814 kg)
- Reverse guidance travel speed 160 fpm (49rpm)

Model 300SC
Single Conveyor
- Load capacity 3,200 lbs (1,451 kg)
- Transfer speed to 45 fpm (14 mpm)
- Transfer height 18" to 31" (457mm - 787mm)

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Increase Productivity, while Reducing Costs

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SmartCart AGC Strengths VS. Conventional Conveyor Systems
- Scalable Material Handling: SmartCart AGC allows you to increase throughput by simply adding AGCs.
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SmartCart AGC Strengths VS. Manual Transport
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