

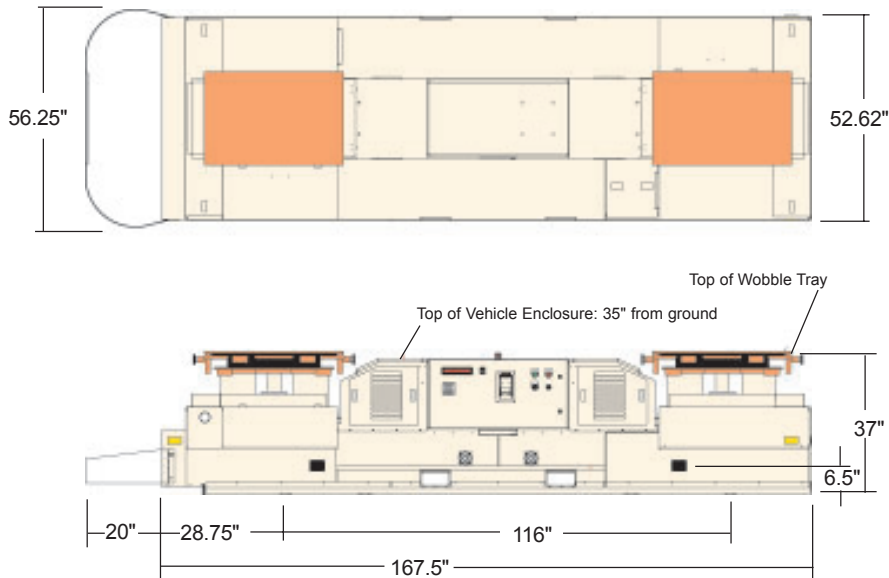
## The Perfect Marriage... AGVs and Automotive Assembly Operations



Jervis B. Webb Company's on-board assembly AGVs are the new standard for streamlining chassis assembly and chassis-to-body marriage operations. Current applications support complete sub-assembly build up as well as brake fill and test operations prior to chassis/body marriage. There are over 130 vehicles currently in operation and more are slated to go on-line in the future. A rugged design provides a flexible platform for guidepath system changes and model year changeover plans.



## Assembly / Marriage Vehicle



### Vehicle Specifications

Load capacity (including tool trays) .....	4,500 lb
Gross vehicle weight w/battery, lifts and tool trays .....	8,000 lb
Speed control (infinitely adjustable) .....	Max 180 FPM
Stopping accuracy (vehicle fleet) .....	+/- 1.0"
Ground clearance .....	Min. 0.5"

Based on base AGV design utilizing the Fori Model 850A lift or equal.

*Performance data given is based upon specific applications and may vary with individual applications. Consult factory for additional / alternative specifications.*

### Standard Features

- Rugged steel frame and all steel skin construction.
- Modular design provides easy access to all components to simplify maintenance procedures.
- Two 48 VDC power packs including four maintenance-free batteries.
- Automatic battery charging via floor mounted contacts and off-board 48VDC charger.
- Slide out stainless steel battery compartment for quick battery exchange.
- Overhead chassis/body marriage speed synchronization via patented optic device.
- Allen-Bradley push-button controls and operator lights.
- Two Operator interface lift control boxes mounted on tool trays
- Synchronized hydraulic flow for front/rear lifts without lift height monitoring devices.

### Guidance

- Inertial (non-wire) guidance package is standard.
- In-floor wire guidance package (option).

### Communications

- Continuous high speed bidirectional radio communications with the Vehicle System Manager.

### Low Power Sleep Mode (Option)

- Automatically enters and recovers from power saving state to conserve battery power during extended idle periods.

### On-Board Microcomputer

- The Vehicle Control Computer (VCC-2) is equipped with a 32 character display and over 270 diagnostic aids.
- Featuring the most advanced diagnostics available, and full word text based display messages - no cryptic codes.

### Manual Vehicle Control

- Hand held pendant controller features manual enable steering, mode, and forward/reverse selector switches.
- Lifts are manually controlled using tool tray mounted push-button boxes.

### Speed Control

- Infinitely adjustable speed control for smooth automatic starts and stops.

### Drive Brake

- Fail-safe, spring set, electrically released operation.

### Emergency Features

- Continuous monitoring of guidance, speed, and all emergency devices.
- Patented fail-safe optic bumper is standard.
- Front bumper covers entire width of vehicle and is designed to stop the vehicle within bumper collapse distance.
- Flashing amber warning lights and travel horn.
- Manual reset emergency stop push-buttons.
- Redundant computer control of brake, drives, and all moving assemblies.

### Vehicle Options Priced Separately

- Laser bumper-front/rear
- Side optics
- Platform optics
- Lift height monitoring devices or synchronized front/rear lift controls (closed loop)
- Super kit roller deck on front of AGV
- Other custom features to meet application requirements

### Lift and Tooling Package Priced Separately

- Two Fori lifts P/N 850-A or equal
- Lift accumulator tanks and lift valves
- Wobble plates, tooling plates, cheese plates, and tooling details
- Overhead synchronization targets and overhead carrier details

### Typical System Options Priced Separately

- Guidepath and in-floor SmartMark™ codes
- Vehicle System Manager computer controls, system design, engineering, and commissioning.

**For Further Information, Please Contact:**

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MATERIAL HANDLING SYSTEM SPECIALISTS

