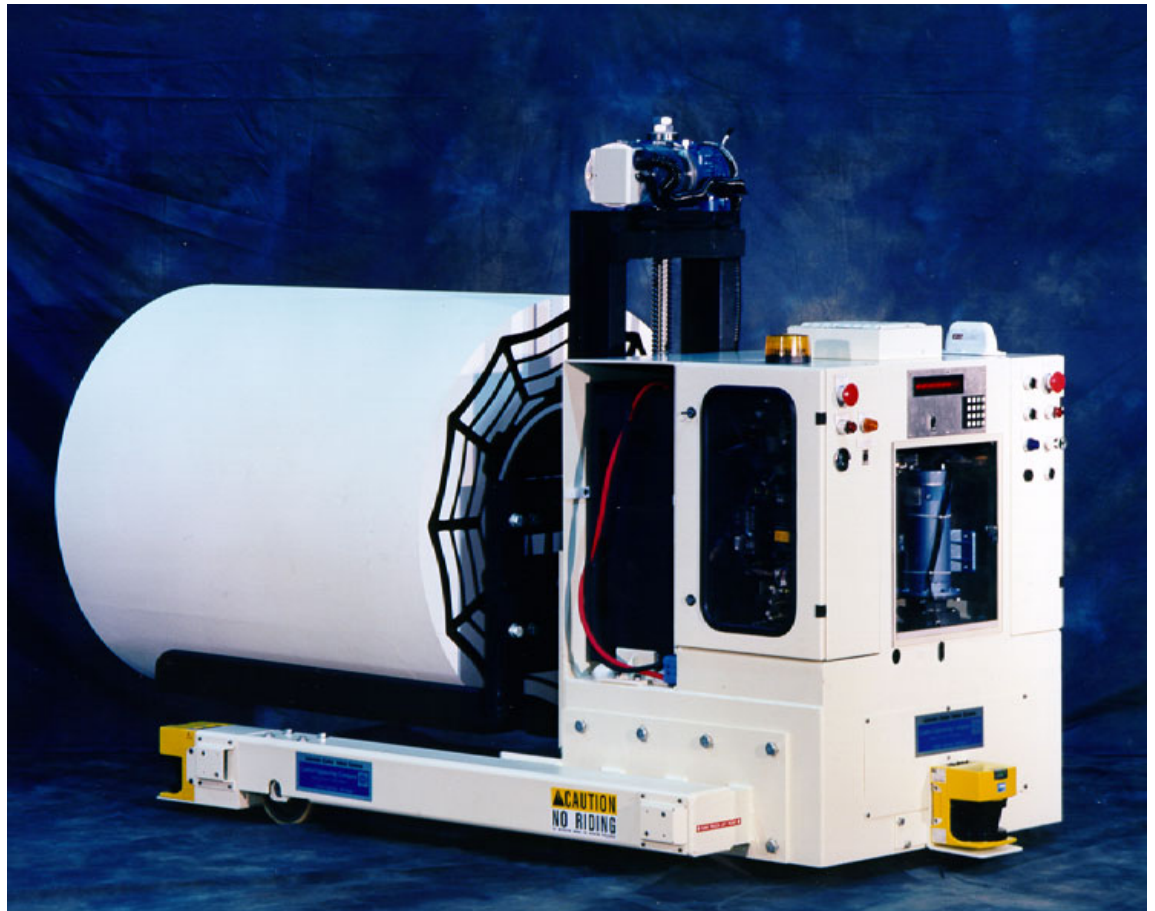
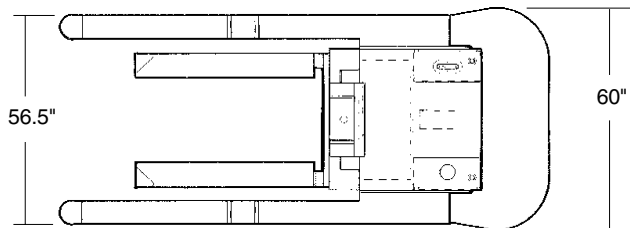


HV-3 Fork Style Vehicle Reliable Roll and Palletized Load Handling

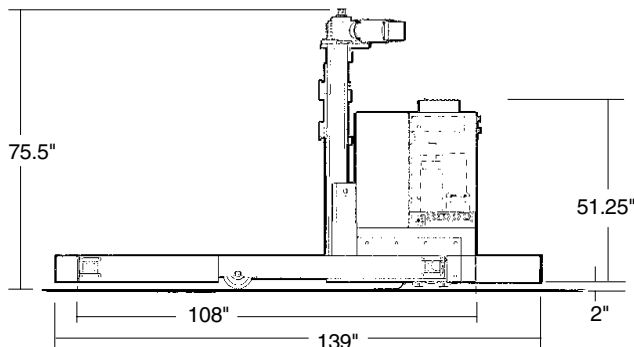


HV-3 fork type vehicles handle pallets and rolls using standard fork designs. When fitted with a conveyor deck the HV-3 can interface with conveyors at fixed or variable heights. The HV-3 features a load capacity up to 8,000 lbs. All digital control and modular design provide high reliability and ease of maintenance.

HV-3 Fork Style Vehicle



Top View



Side View

CONSTRUCTION

- Rugged 3/8" steel plate frame and all steel skin construction.
- Modular design provides easy access to all components to simplify maintenance procedures.

GUIDANCE

- Bidirectional non wire inertial guidance is standard.
- In-floor wire guidance (option).

LOCATION IDENTIFICATION

- Patented SmartMark[®] transponder devices embedded in the floor along the guidepath are sensed by the AGV to identify its exact location.

LOAD IDENTIFICATION

- Ultrasonic, optical and mechanical limit switches are used for on-board load detection.
- Bar code readers, or other specific load identification devices are optional.

COMMUNICATIONS

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

LOW POWER SLEEP MODE

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

SPECIFICATIONS

Vehicle size	10' 9" long, 4' 8" wide, 5' 2" high
Load capacity	3,000-8,000 lbs. (at 27.5" load center)
Gross vehicle weight w/battery	4475 lb
Maximum fork height (standard)	16"
Load carry height (fork height)	8-3/4"
Speed control (infinitely adjustable)	max. 220 FPM
Lift positioning accuracy	+ - 1/4"
Stopping accuracy (vehicle fleet)	+ - 1.0"
Ground clearance	2"

Performance data given is based upon specific applications and may vary with individual applications.

ON-BOARD MICROCOMPUTER

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

MANUAL VEHICLE CONTROL

- Hand held pendant controller features manual enable, steering, mode, and forward/reverse selector switches.
- Manual operation of the lift is controlled by a console mounted switch on board the AGV.

SPEED CONTROL

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

MOTOR CONTROL

- Reliable pulse width modulation controllers offer higher motor efficiency and smooth, accurate acceleration and deceleration.

DRIVE BRAKE

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

EMERGENCY FEATURES

- Continuous monitoring of guidance, speed, load, and all emergency devices.
- Patented fail-safe optic bumper is standard.
- Front bumper covers entire width of vehicle.
- Rear bumper covers width of straddle arms.
- Area between straddle arms protected by optic sensor system.
- Flashing amber warning light and travel horn.
- Manual reset emergency stop push-buttons
- Redundant computer control of brake, drives, and lift are standard safety features.

VEHICLE OPTIONS

- Laser bumper-front/rear.
- Auto-restart mechanical bumper.
- Oversized load protection.
- Increased load capacity model available.
- High tolerance positioning capability.

For Further Information, Please Contact:

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