

- **2,500 Pound Unit Load Capacity**
- **Wire-guided**
- **Speeds of 2.3 MPH or 200 FPM**

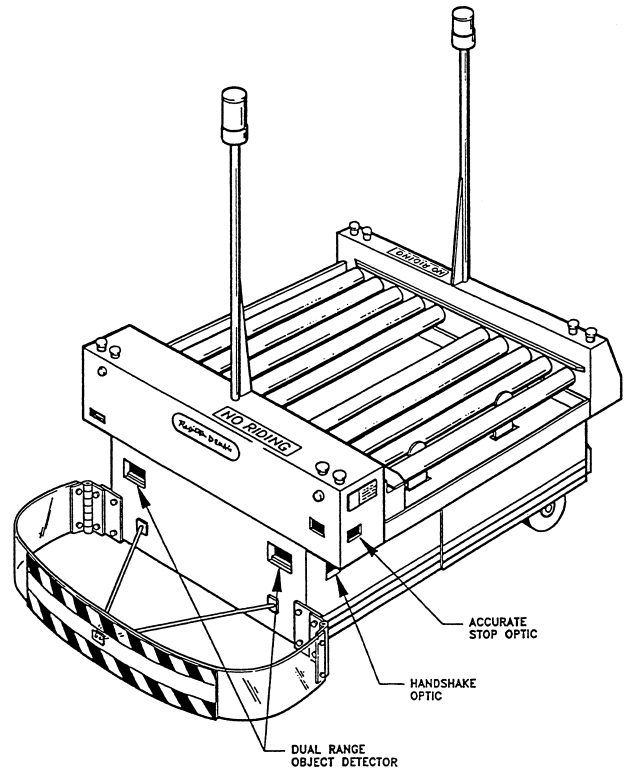
Siemens Dematic's DC-20 Automatic Guided Vehicle is a compact, wire-guided horizontal transporter that follows a pre-determined guidepath.

The DC-20 AGV is used for transporting pallets, skids, tote boxes, racks or special containers weighing up to 2,500 pounds in a manufacturing or distribution environment.

Load transfers onto and off the DC-20 are accomplished with an automatic transfer device mounted on the AGV. Available transfer devices include roller conveyor, chain conveyor, lift/lower platform, extractor mechanism and parasitic drive.

Standard Features

- Compact frame-controls, power train and battery secured under load deck.
- Fully Automatic
- Rugged steel frame construction to withstand industrial environments
- Automatic load/unload transfer deck
- Onboard routing logic (map of system path layout)
- Onboard traffic control logic (for multi-vehicle systems)
- Unified control architecture permits use of guidepath wire for guidance, traffic control and communications.
- Onboard diagnostic mode for fast, easy troubleshooting
- Remove/Enter on path anywhere without resetting system controls
- Real-time continuous RF communications anywhere on path
- Drive motor, transmission and drive wheel integrated in a single module
- Easy access and service controls—electronics mounted in tilt-out tray
- Automatically returns to battery charge area upon sensing a low battery condition



Warning and Safety Devices

- Front polycarbonate plastic bumper
- Emergency stop buttons
- Normal stop buttons
- Audio beeper while vehicle is in motion (adjustable volume)
- Start signaling horn
- Flashing warning lights while in motion
- Non-contact object detection system (optional)

Options

- Automatic charging
- Vehicle Management system control
- Dispatching via remote data entry terminal
- Host computer interface capability
- **AGView™** system monitoring and diagnostics
- Virtual path guidance control

Mechanical Specifications

Load Deck: Roller conveyor, chain conveyor, lift/lower deck, extractor mechanism, parasitic drive

Capacity: 2,500 lb max.

Drive Configuration: Motor, transmission, drive wheel in a single integrated module

Drive Motor: 1.5 HP motors, series wound

Drive Wheel: 10" OD x 4" wide rubber

Frame: .375" structural steel

Brakes: Automotive type drum and shoe design

Battery Compartment: 38.38" L x 8" w x 14.31" H

Battery Type: 405 amp hour capacity

Manual Operation: Pendant control

Speeds: 2.3 mph or 200 fpm

Approx. Weight: 2,270 lb with battery

Rear Casters: Dual 6" OD x 2-1/4" wide poly

Turning Radius: 4' nominal

Steering: Drive wheel mechanically linked to rear casters

Control Specifications

Controller: Single board computer

Electrical System: 24-volts

Speed Control: SCR

Control Panel Modes: Recirculate, maintenance, computer, onboard

Routing and Traffic Control: Onboard logic

Communications: Two-way continuous

Battery Meter: Curtis battery discharge meter

Low Battery Control: Automatic return to battery charge stop

Positioning Accuracy: $\pm 1"$

Guidance Method: 4-frequency phase detection

Guidance Type: Forward only

NOTE: Specifications are subject to change without notice based on product improvements or technical requirements.