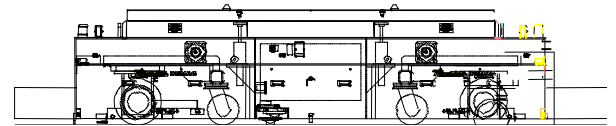
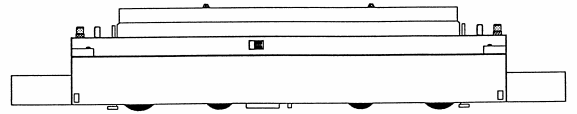


Mechanical Equipment Model DC-200 AGV Heavy Duty Unit Load Carrier

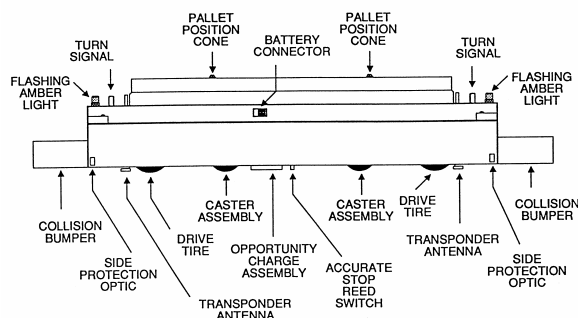
- **10,000 to 20,000 Pounds Capacity**
- **Wire-guided**
- **Automatic or Manual Operation**



The DC-200 automatic guided vehicle is designed for rugged heavy-duty application in steel, aluminum, and metal fabrication facilities and mills. Coils, ingots, sheets, frames and rods of metal products can be transported between work cells, receiving, manufacturing, and shipping automatically. Additionally, dies can be transported to support stamping and cutting operations in mills or metal fabrication facilities.

The DC-200 can also be used in the paper industry. Parent rolls can be transported from a material staging area or warehouse to the converting line. The deck of the AGV is designed to transport roll stock horizontally safely through the warehouse and converting operations.

The AGV chassis is a modular design allowing the unit to be customized for special loads. Each end of the DC-200 steers independently. This allows optimal maneuverability in tight areas. The AGV can 'crab' steer or slide diagonally if necessary for special station line-up requirements. The AGV deck can be designed and engineered for coils, rolls, sheet stock, or palletized material.



Standard Features

- Front and rear polycarbonate plastic bumper
- Emergency/normal stop buttons
- Audio beeper while in motion (adjustable volume)
- Start signaling horn
- Flashing warning lights while in motion
- Dual range infrared optics object detection system
- Alarm beeper to warn operator of incorrect input to display
- Side mounted safety optics

Warning and Safety Devices

- Bi-directional guidance with 'crab' steering
- Automatic charging
- Vehicle Manager system control
- Dispatching via remote data entry terminal
- Host computer interface capability
- Virtual path guidance control

Battery

- Standard battery allows for eight to ten hours of operation (approximately one shift) depending upon duty cycle
- Optional automatic charging

Mechanical Equipment
Model DC-200 AGV Heavy Duty Unit Load Carrier

Mechanical Specifications

Load Deck: Application specific - Lift Deck or Conveyor

Capacity: 10,000-20,000 pounds

Drive Configuration: Planetary Gear

Drive Motor: (2) 4 HP 24V DC series wound

Drive Wheel: (4) 28"OD x 10"W x 22"ID urethane

Frame: Structural steel and 1/2" plate

Brakes: (2) 40-ft. lb. 48V DC fail-safe

Battery Compartment: 64.5"L x 28"W x 30"H

Battery Type: 48 volts, up to 1300 amp hour capacity

Manual Operation: Pendant control - two ports - one at each end of the AGV

Approx. Weight: 15,000 lb. without battery

Variable Speeds: Loaded, 130-fpm max.
Unloaded, 200-fpm max.

On-Board Display: Touch sensitive keypad with character display

Charging System: Battery change-out or fully automated opportunity charging

Min. Turning Radius: 10'

Steering: Two-wheel independent steering

Control Specifications

Controller: Intel based microprocessor

Electrical System: 48 volt power, 1300 AHC max., 5,000 lb. weight of battery

Communications: Two-way continuous. Can be upgraded to RF.

Battery System: Heavy-duty industrial grade battery with discharge meter

Positioning Accuracy: ± 1" Longitudinal, ± 1" Latitudinal in stands

Guidance Method: Wire based

