

AGV/LGV



AGV improves the working environment and the transportation environment with the design that meets the customer's demand

AGV(automated guided vehicle)

AGV (Automated guided vehicle) is a type of transit system that moves along the path designated by its own drive force by the controller. Unlike Conveyor or Rail type vehicle, it is possible to set orbit to any direction and it is easy to combine transfer device depending on the purpose so it has the advantage of easy connection with peripheral devices and modification for system expansion. SMC has developed AGV with its know-how accumulated for a long time and supplied over 30 sites and over 350 AGVs to domestic and international markets. There are more than 20 different AGV models for transporting 1,000kgs.

Basic Specification

- ✓ Load weight: Max. 3,000 Kg
- ✓ Speed : Max 90m/min
- ✓ Guide : Guidance Line (underground, magnetic)
- ✓ Communication: Wireless LAN
- ✓ Charging : Automatic Charging
- ✓ Type : Conveyor, Fork, or Stacker

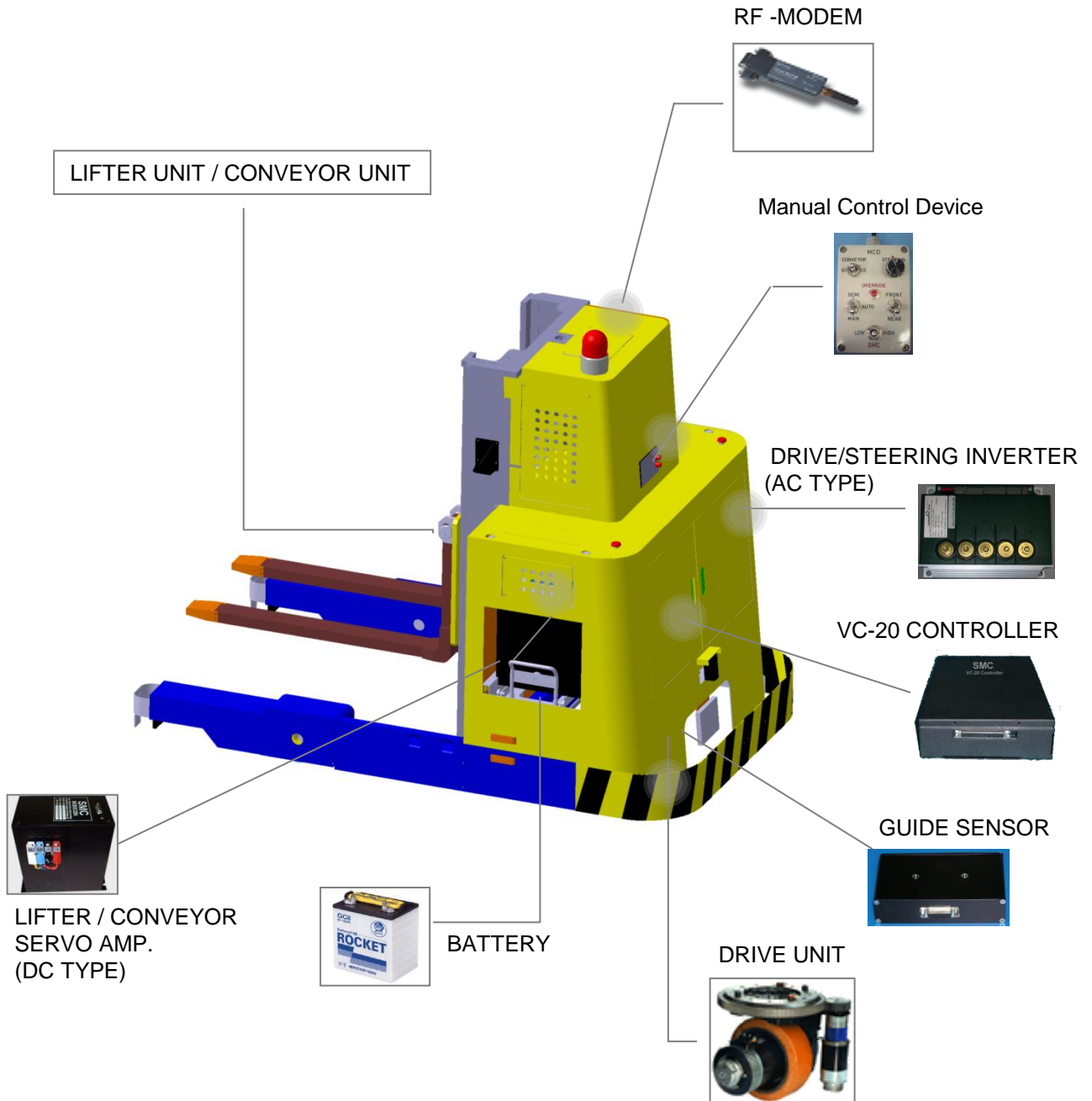
Benefit

- ✓ Transport different weights, sizes, and volumes over complicate route and long distance
- ✓ Material handling type in loading/unloading process can be customized, such as conveyor or fork, which provides flexible automated transport solution.
- ✓ Easy to modify and extend route
- ✓ Safe and clean working condition



Components

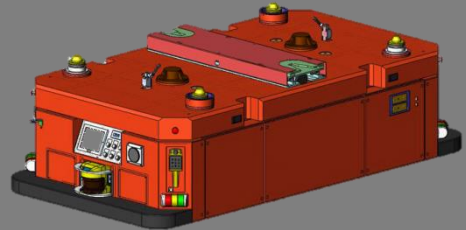
Various types of AGV such as Chain Conveyor type, Rear - Fork type, Roller Conveyor type, Stacker - Crane type can be manufactured according to the type of product for loading.



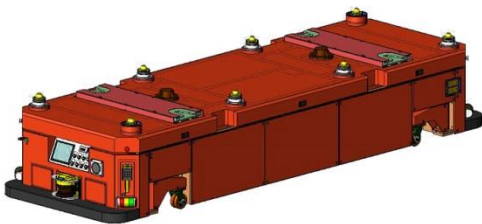
Application model



- ✓ Model No : NFMA-1000-S
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Magnetic Vehicle
- ✓ Type : SD Single Forklift
- ✓ Carrying Product : Material Loading Cart
- ✓ Maximum Load : 1,000 Kg
- ✓ Transfer device : Hydraulic Drive Fork Mast



- ✓ Model No : NMAL-1000-Q
- ✓ Solution : Solution : NDC8 Suite
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : QUAD Vehicle
- ✓ Carrying Product : Airplane Front / Middle / Back Fuselage
- ✓ Maximum Load : 1,000 Kg
- ✓ Transfer device : Motor driven lifter



- ✓ Model No : NMAL-3000-Q
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Magnetic
- ✓ Type : QUAD Vehicle
- ✓ Carrying Product : Airplane Fuselage
- ✓ Maximum Load : 3,000 Kg
- ✓ Transfer device : Motor driven lifter



- ✓ Model No : NMAL-7000-M
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : Multi-Wheeler
- ✓ Carrying Product : Helicopter Fuselage
- ✓ Maximum Load : 7,000 Kg
- ✓ Transfer device : Motor driven lifter

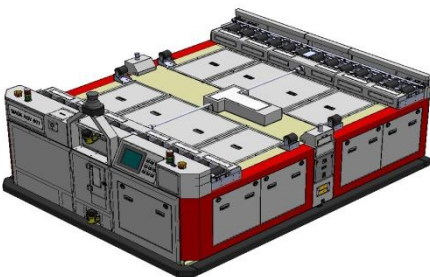
Application model



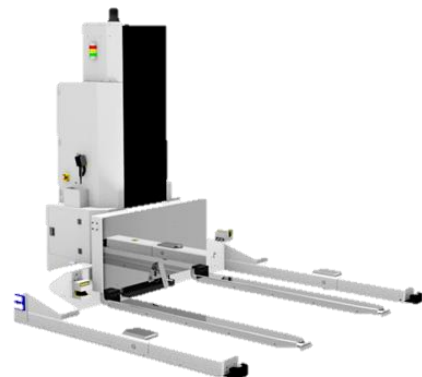
- ✓ Model No : NLAF-500-Q
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Laser
- ✓ Vehicle Type : QUAD Vehicle
- ✓ Carrying Product : A-350 Wing Components
- ✓ Maximum Load : 500 Kg
- ✓ Transfer device : Telescopic Forkt



- ✓ Model No : NFLA-1000-Q
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Laser
- ✓ Vehicle Type : QUAD Double Forklift
- ✓ Carrying Product : A-350 Wing Components
- ✓ Maximum Load : 1,000 Kg
- ✓ Transfer device : Hydraulic Drive Fork Mast



- ✓ Model No : NLAC-500-Q
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Laser
- ✓ Vehicle Type : QUAD Vehicle
- ✓ Carrying Product : Mask
- ✓ Maximum Load : 500 Kg
- ✓ Transfer device : Roller Conveyor



- ✓ Model No : NFLA-3000-S
- ✓ Solution : NDC8 Suite
- ✓ Path Guidance Method : Laser
- ✓ Vehicle Type : SD Single Forklift
- ✓ Carrying Product : Display Panel Crate
- ✓ Maximum Load : 3,000 Kg
- ✓ Transfer device : Motor Drive Fork Mast

Application model



- ✓ Model No : PMAT-60T-D
- ✓ Solution : PLC
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : Two-wheeler
- ✓ Carrying Product : Coil
- ✓ Maximum Load : 60 Tons



- ✓ Model No : PFMA-1000-Q
- ✓ Solution : PLC
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : Quad Side Forklift
- ✓ Carrying Product : ITO Film
- ✓ Maximum Load : 1,000 Kg
- ✓ Transfer device : Motor driven lifter



- ✓ Model No : PLAL-35T-S
- ✓ Solution : PLC
- ✓ Path Guidance Method : Laser
- ✓ Vehicle Type : SD Vehicle
- ✓ Carrying Product : Coil
- ✓ Maximum Load : 35 Tons
- ✓ Transfer device : Hydraulic



- ✓ Model No : PMAT-55T-D
- ✓ Solution : PLC
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : : Two-wheeler
- ✓ Carrying Product : Body Mold
- ✓ Maximum Load : 55Tons

Application model



- ✓ Model No : PMAT-200-D
- ✓ Solution : PLC
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : Two-wheeler
- ✓ Carrying Product : Car Bumper
- ✓ Maximum Load : 200 Kg
- ✓ Transfer device : Pin Cylinder



- ✓ Model No : PFLA-1500-S
- ✓ Solution : PLC
- ✓ Path Guidance Method : Magnetic
- ✓ Vehicle Type : SD Single Forklift
- ✓ Carrying Product : Raw Tire Material
- ✓ Maximum Load : 1,500 Kg
- ✓ Transfer device : Hydraulic



LGV(Laser Guided Vehicle)

SMC manufactures Laser Guided Vehicle (LGV) operated by LGV controller, which communicate data via laser frequency and travels on predictive route. Hence, LGV does not need any rail, guide tape attachment or visible guidance to find it's destination.

- ✓ LGV is economical when one or more of the following conditions apply:
- ✓ Area with large passage
- ✓ Complicated Route Network
- ✓ Less number of vehicles
- ✓ Frequent route changes
- ✓ A lot of temporary transport and storage area

Basic Specification

- ✓ Load capacity: Max.3,000kg
- ✓ Guide type: Laser
- ✓ Communication: Wireless LAN
- ✓ Charging : Automatic
- ✓ Type varies upon load shape

Benefit

- ✓ Ensure energy efficiency
- ✓ Provide reliable operation
- ✓ Provide customized installation to production fields without modification of existing floor plan
- ✓ Flexible & adaptable to route changes



Components

