

INTRALOGISTICS SOLUTIONS

Ver 1 Oct 2022

AUTOMATED GUIDED VEHICLES

COST-SAVING SOLUTION | INCREASE PRODUCTION EFFICIENCY

CUSTOM-MADE

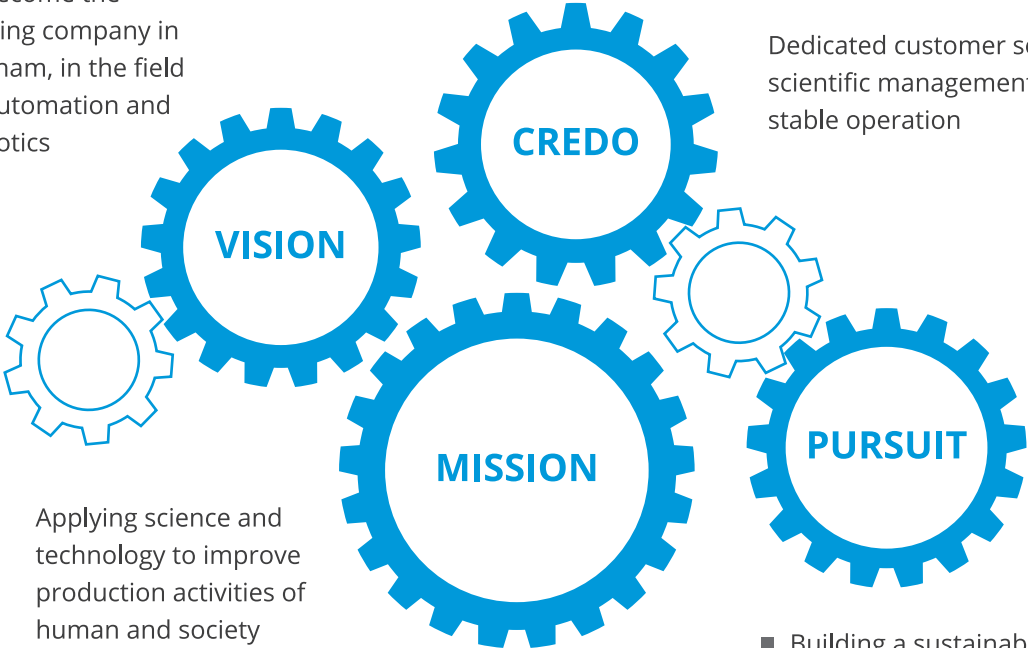
INTRODUCTION

Who we are?

As a member company of CF Group (Optimize Cargo Flows Group) - a unit with extensive experience in the field of Logistics, design, manufacturing and operation of seaports, AUBOT provides products and services in the field of automation technology to solve the problems in the management & operation of warehouses, factories, to improve the production efficiency and to reduce operating costs.

Our philosophy

Grow with solidarity to become the leading company in Vietnam, in the field of Automation and Robotics



Dedicated customer service, scientific management and stable operation

Applying science and technology to improve production activities of human and society

- Building a sustainable and faithful brand
- Strong and independent, ready to conquer challenges
- Growing with solidarity, sharing success

AUBOT is currently the AGVs supplier for Japanese Production Company in North Vietnam.

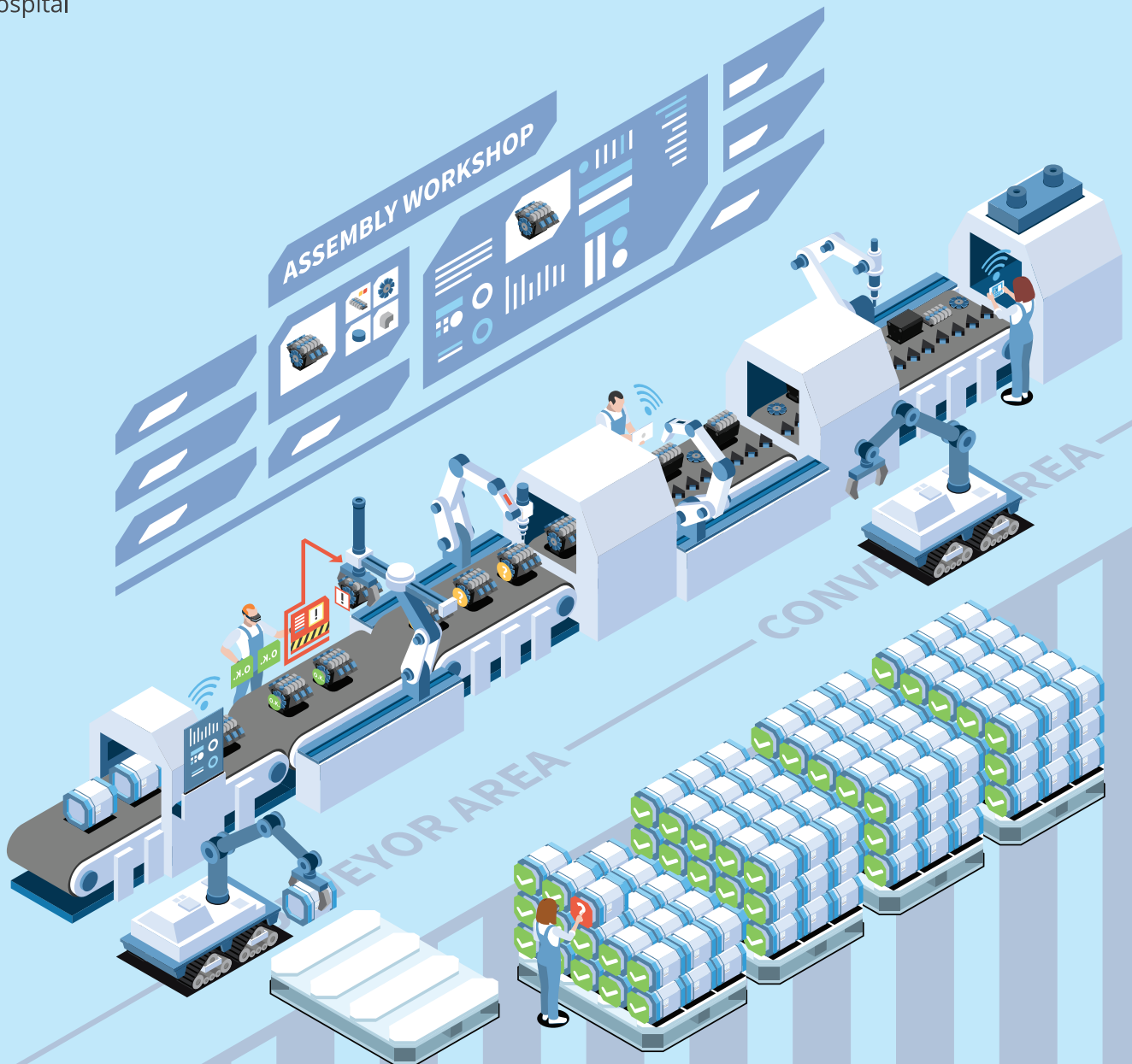
APPLICATIONS

Industries

- Distribution Center
- Warehouse
- Manufacturing Facilities
- Automotive & Vehicle Fabrication
- Print & Paper
- Food & Beverage
- Chemical Processing
- Pharmaceutical
- Hospital

Tasks

- Raw Material Delivery Such as Paper, Steel, Rubber, Plastic...
- Moving Product to Support Assembly Process
- Pallet Handling
- Trailer Load and Unload
- Roll Handling
- Linking Manufacturing Cell



FEATURES

☑ **Stable movement**

Advanced design keeps the robot moving steady in different types of terrain such as bumpy passage.

☑ **Local Professional Development Team**

R&D team which consists of experienced and talent researchers is available to serve the customer on the best schedule.

☑ **Specification Flexibility**

Products can be customized upon request of the customer based on Professionals located close to you.

☑ **Competitive Price**

Actively listening to customer to optimize solution and service with reasonable cost.

SERVICES

☑ **System consulting and providing optimal solutions**

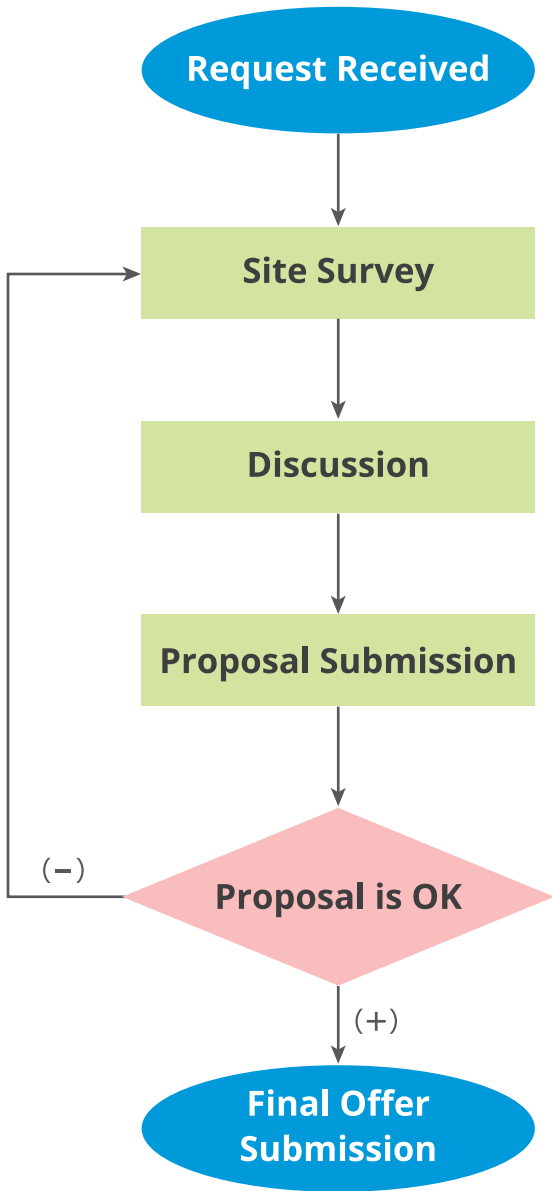
☑ **Maintenance service**

☑ **Components supply**

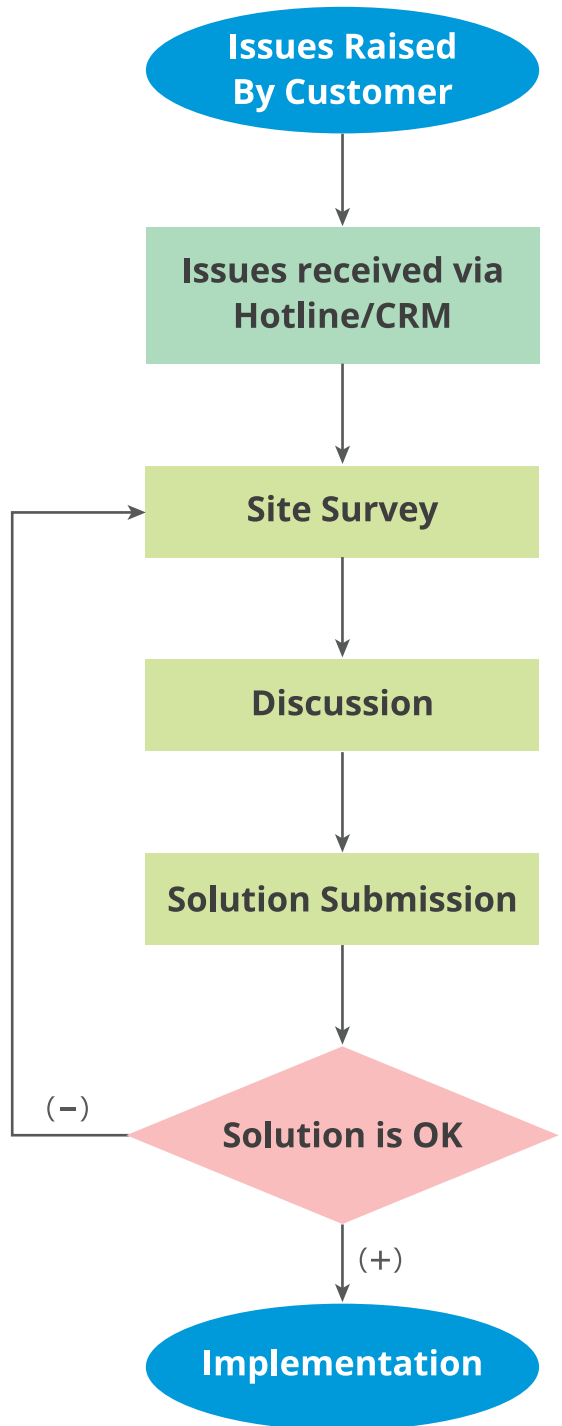
※ With a team of enthusiastic and experienced staff, we commit to provide 1 year warranty for all AUBOT products and 24/7 customer support.

WORKING PROCESS

A. BEFORE INSTALLATION



B. DURING OPERATION



T500-2 – TUGGER AGV

With an optimum design, compact size, towing capacity of 500kg, it can operate in tight spaces, 24/7. The intelligent control system can be customized according to customer's requirements. Apart from that, T500-2 also has an outstanding safety mechanism for users and equipment.



Main functions

- Advanced control system: Developed by AUBOT, using 32-bit microprocessor, flexible modular design, using CAN communication network
- Navigation: Magnetic strips. Magnetic strips can be changed, expanded easily with low costs, it can be applied flexibly within existing factory layout
- Traffic organizing system between AGVs: Wireless communication between AGVs helps avoid conflicts and determine AGV's order of movement
- Integrated RFID tag reader to organize the operation of all the AGVs in the system
- Maximum capacity of 500kg
- Customizable moving speed (up to 460 mm/s)
- Activity logs are stored via SD memory card
- Communicate with control computer or Tablet via RS485 interface
- AGV T500-2's full battery can help the vehicle to operate continuously up to minimum 8 hours

Safety mechanism

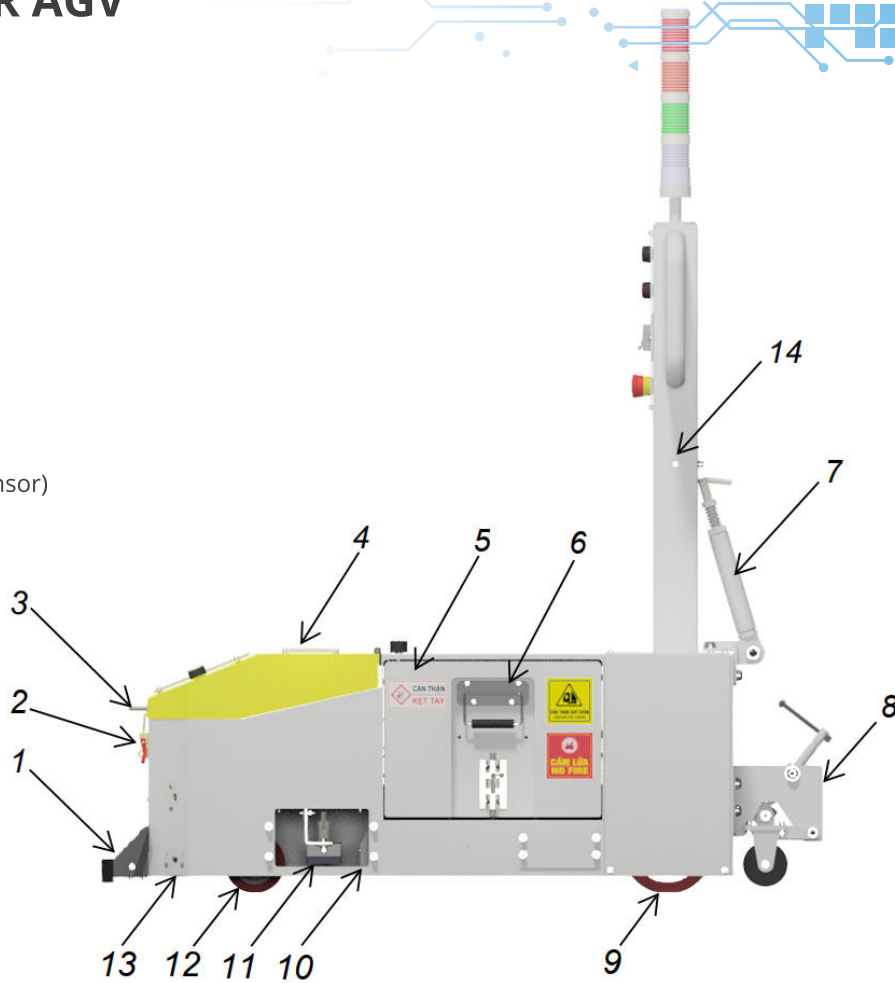
- Multi-area laser sensors with customizable scanning distance
- Physical sensor helps the AGV to stop when having contact with obstacles
- Warning system with light and sound signals
- Emergency stop button

Options and accessories

- Balancer for the battery system
- Battery charger
- Battery trolley
- Monitor and computer
- Integrated software for buyer's system
- Lifting mechanism using manual moving wheels

T500-2 – TUGGER AGV

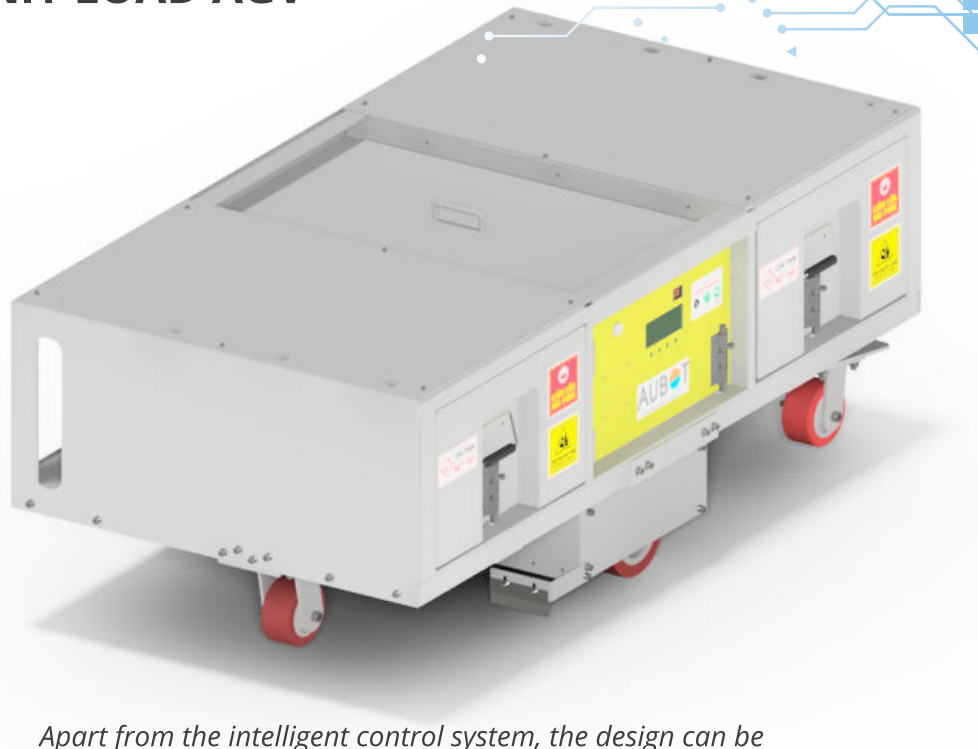
1. Anti-collision bar
2. Bonnet lock
3. Bonnet handle
4. Turn signal
5. Battery trays
6. Battery compartment
7. Towing bar
8. Manual moving wheels
9. Power wheels
10. Guide sensor (magnetic sensor)
11. RFID sensor
12. Driven wheels
13. Laser sensors
14. Control tower



Specification:

Model	T500-2
Application	Towing
Towing capacity	500kg (1000lbs)
Speed (maximal)	460 mm/s (Adjustable)
Navigation	Magnetic sensor
Castor and wheel	02 solid PU power wheel 02 solid PU driven wheel
Motors	02 motors: BLDC 200W, 24 VDC, 3000rpm
Driver	02 driver BLDC, 12-56V, 300W
Energy supply	2x12V 100 Ah
Weight	196 kg (431lbs) without load
L x W x H	1400mm x 567 mm x 1470 mm
Height over floor	30 mm
Environment	16°C – 55°C
Structure and cover	Steel frame and cover; electrostatic coating
Turning Radius	1m
Climbing slope ability	5°

C450 - UNIT LOAD AGV



Apart from the intelligent control system, the design can be customized according to customer's requirements. AGV C450 also has an outstanding safety mechanism for users and equipment.

Main functions

- Advanced control system: Developed by AUBOT, using 32-bit microprocessor, flexible modular design, using CAN communication network
- Navigation: Magnetic strips. Magnetic strips can be changed, expanded easily with low costs, it can be applied flexibly within existing factory layout
- Integrated RFID tag reader to organize the operation of all the AGVs in the system
- Customizable moving speed (up to 94mm/s)
- Maximum capacity of 450kg
- Wireless communication between AGVs helps synchronizing the operation setting of all AGVs in the production line
- Communicate with control computer or Table via RS485 interface
- Activity logs are stored via SD memory card
- All the sensors, signal lights, control box, emergency-stop button is flexibly mounted on the operating table
- AGV control interface: LCD screen and battery display panel
- Removable Engine cluster, convenient for maintenance and repair

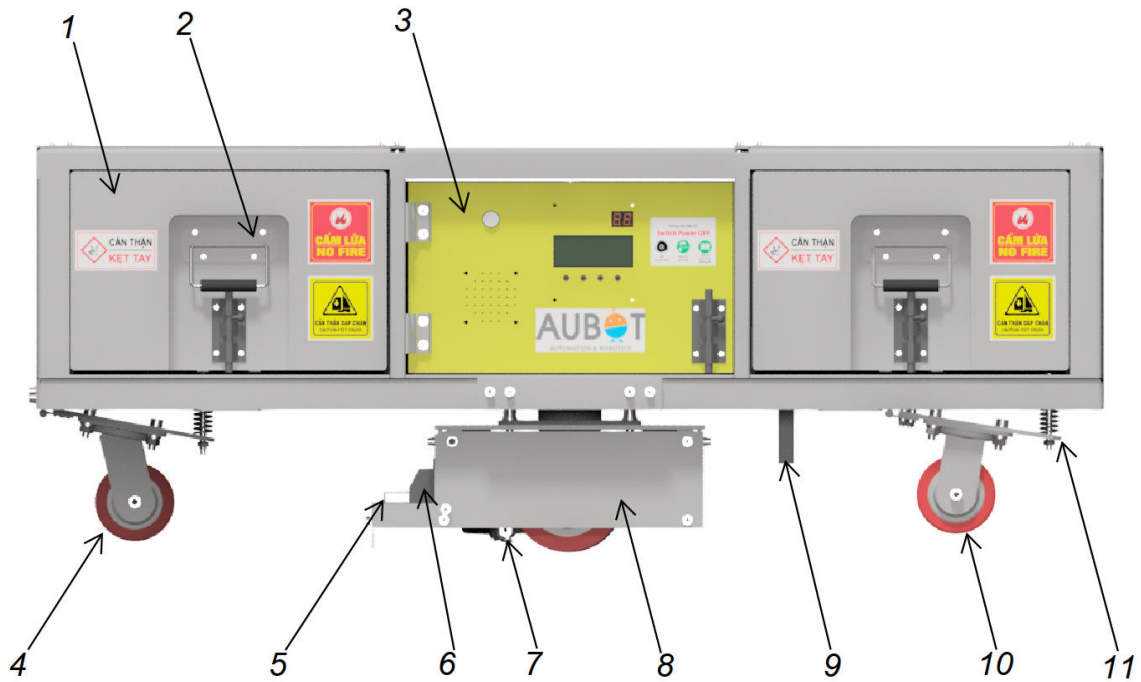
Safety mechanism

- Multi-area laser sensors with customizable scanning distance
- Physical sensor helps the AGV to stop when having contact with obstacles
- Warning system with light and sound signals
- Emergency stop button

Options and accessories

- Balancer for the battery system
- Battery Charger
- Battery trolley
- Obstacles avoidance sensors with controller
- Monitor and computer
- Integrated software for buyer's system

C450 - UNIT LOAD AGV



- 1. Battery tray
- 2. Battery compartment
- 3. Control compartment
- 4. Driven wheels
- 5. Guide sensor
- 6. RFID sensor
- 7. Main springs
- 8. Engine cluster
- 9. Restricting bar
- 10. Fixed wheels
- 11. Springs

Specification:

Model	C450
Application	Carrying in assembly line
Capacity	450kg (992.1lbs)
Speed	170mm/s (Adjustable)
Navigation	Magnetic sensor
Castor and wheels	02 Solid PU moving wheels (130mmx160mm) 03 solid PU passive wheels (50mmx115mm)
Motors	02 motors: BLDC 90W, 24 VDC, 2500rpm
Driver	01 driver, BLDC, 12-56V, 300W
Energy supply	4x12V 100Ah or 4x12V 120Ah
Weight	327kg (719lbs) without load
L x W x H	1334 mm x 700 mm x 500 mm
Height over floor	30mm
Environment	16°C - 55°C
Structure and cover	Steel frame and cover; electrostatic coating
Turning Radius	1m
Climbing slope ability	5°



AUBOT AUTOMATION AND ROBOTICS JOINT STOCK COMPANY

-  km16+200, 1A Route, Duyen Thai Industrial Cluster, Thuong Tin Dist , Hanoi
-  +84.24.32047922
-  sales@aubot.vn
-  www.aubot.vn