### ZALPHA AGV

**Automated Guided Vehicle**

**Specifications**

<table>
<thead>
<tr>
<th>Zalpha-Δ-01</th>
<th>Zalpha-Δ-03</th>
<th>Zalpha-Δ-05</th>
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</thead>
<tbody>
<tr>
<td>Payload (KG)</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td>Max speed (m/min)</td>
<td>60</td>
<td>60</td>
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<tr>
<td>Run time (hours)</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Recharge time (hours)</td>
<td>4</td>
<td>8</td>
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</table>

#### Navigation method option
- Magnetic (MG)
- Tractless (TS)

#### Base dimension (W x L x H) mm
- Standard: W550 x L750 x H200 (Panel: H800)
- Extended: W550 x L1030 x H200 (Panel: H800)
- Low Bed: W550 x L1030 x H200

#### Stopping accuracy
- MG: ±10mm
- TS: ±100mm

#### Turning radius
- Zero (0)

#### Drive method
- Differential

#### Charging method
- Automatic and Manual Charging Available

#### Mode
- Standard or Fleet Management System (FMS)

#### Safety features
- 5m adjustable range Laser Scanner x1
- Bumper Switch x2
- Emergency Switch x1
- External Safety Input

#### Safety indicator
- Color LED Lighting, Music Playback and Alarm

#### Motor type
- Industrial Servo Motor with Closed Loop Drive

#### Onboard interface
- 7 inch Capacitive Touchscreen

#### Battery
- LiFePo4 Battery, 25.6V

#### WiFi frequency
- 2.4GHz

#### Operating system
- NavWiz

#### Customisable I/O
- 8 Inputs and 8 Outputs

#### Payload handler
- Not Included
**Features**

- **Modular**
  - Zalpha is built with modular parts, making it easy for servicing and maintenance.

- **Safety**
  - Equipped with redundant safety features such as laser sensor, bumper, emergency button, etc.

- **Differential Driven**
  - Zero turning radius

- **NavWiz Map**
  - Allows user to draw and plan topological map for Zalpha

- **NavWiz Task**
  - Zalpha programming software using simple flowchart system

- **Auto Charging**
  - Automatically charges itself to ensure 24-hour continuous operation

- **Bi-Directional**
  - Able to move both forward and reverse

- **Sixteen I/O**
  - Additional 8 inputs and 8 outputs to meet user’s applications

- **Internet of Thing**
  - Zalpha is IoT-enabled to meet industry 4.0 requirements

 Automated Guided Vehicle (AGV) is a mobile robot that can automatically navigate and transport materials from one location to another. It is suitable for (not limited to) manufacturing, textile, automotive, food & beverage, warehousing, hospital operations, etc. Zalpha AGV is a modern AGV equipped with the latest technologies. Its modular design is flexible and easy to maintain. Powered by NavWiz system, the usage and programming of an AGV has never been this easy and simple.