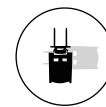




11023.11lb
Rated Load Capacity



51.18in
Min. Turning Radius



3D SLAM
Positioning Method

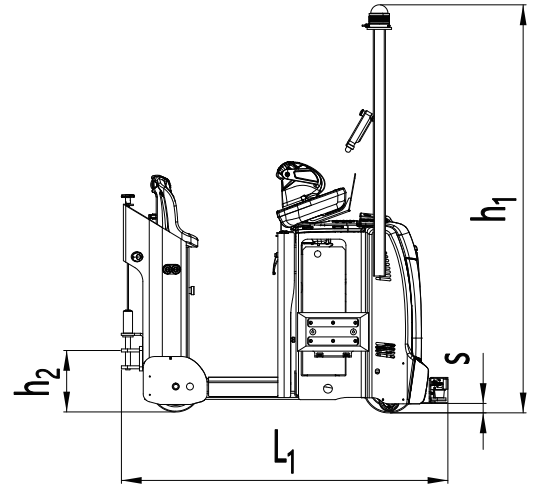
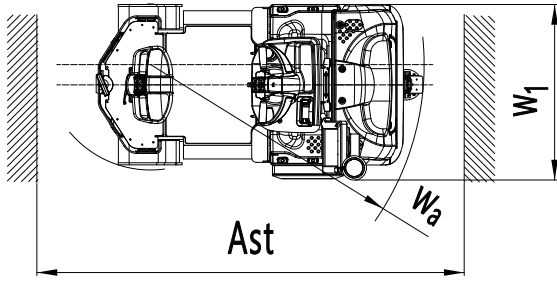
VNQ50(VL)-01 Autonomous Tow Tractor



Autonomous tractor is based on 3D SLAM navigation, It's maintenance is convenient. High parking Accuracy with high efficiency. 3D laser is capable of detecting high-level obstacles for safer transportation. IPX4 waterproof grade.



VNQ50(VL)-01



TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|---|
| Body Weight | 2204.62lb (1000kg) |
| Rated Load Capacity | 11023.11lb (5000kg) |
| Center Height of Traction Pin | 11.42/13.58/15.75in (290/345/400mm) |
| Positioning Method | 3D SLAM navigation |
| Position Accuracy | $\pm 1.97in/\pm 0.5^\circ$ ($\pm 50mm/\pm 0.5^\circ$) |
| Min. Turning Radius | 51.18in (1300mm) |

| | |
|-------------------------------|---------------------------------------|
| Vehicle Dimensions (l1/b1/h1) | 64.96x33.86x78.74in (1650x860x2000mm) |
| Type of Operation | Automatic / Manual Seated |
| Battery Type | Lithium iron phosphate |
| Voltage/Battery Capacity | 24V/270Ah |
| Charging Mode | Manual/ Automatic Charging |

MOTION PERFORMANCE

| | |
|--|------------------------------------|
| Max. Straight Forward Speed (Full-Load/Empty-Load) | 2.90mph , 2.90mph (2.0m/s, 2.0m/s) |
|--|------------------------------------|

| | |
|---|------------------------------------|
| Max. Forward Turning Speed (Full-Load/Empty-Load) | 0.67mph , 1.34mph (0.3m/s, 0.6m/s) |
|---|------------------------------------|

ENVIRONMENTAL REQUIREMENT

| | |
|---------------------|------------------------------------|
| Working Temperature | -5°C ~ 40°C |
| Working Humidity | 20% ~ 95% |
| Ground Flatness | $\pm 0.20in/m^2$ ($\pm 5mm/m^2$) |

| | |
|---|---------------------|
| Max. Climbing Capability (Full-Load/Empty-Load) | 5%, 24% (2.8°, 13°) |
| Max. Groove Width | 1.18in (30mm) |
| Max. Step Height | 0.79in (20mm) |

SAFETY PROTECTION

| | |
|-------|--|
| Front | Laser Scanner Protection + Anti-Collision Bumper |
| Top | Laser Scanner Protection |

| | |
|-------|--|
| Side | Laser Scanner Protection + Anti-Collision Bumper |
| Other | Emergency Stop Button + Acousto-Optic Alarm |

* Other available options: 5G communication, battery heating, UWB safety system, dash cam, RFID reader, etc.
 Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.