

## AGV K50



### 1. CHARACTERISTICS

- Designed to transport pallets and loads
- Able to follow cyclic fixed or conditional routes and interact with other AGV's, machines and people.
- The incorporated safety system allows it to share spaces and routes with people and other vehicles (Directive 2006/42/CE).
- Able to be controlled and monitored by Kivnon Fleet Manager.
- Able to connect to upper-level maintenance controls and process systems.
- No AGV specialist required for implementation and start-up.
- Easy diagnosis. Touchscreen informs about alerts or alarms, battery status and AGV destination.
- Able of recharging its batteries with opportunity charges.
- Able to work 24/7 with opportunity charges.

### 2. INSTALLATION REQUIREMENTS



- Install only indoors or covered outside areas<sup>1</sup>.
- The floor must be in good conditions<sup>2</sup> and free from slippery substances.

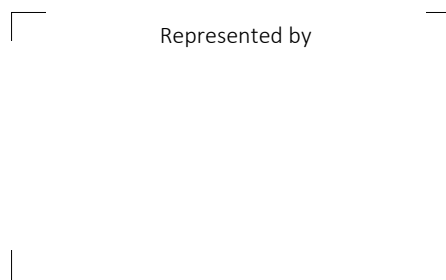
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<sup>1</sup> For covered outside areas that may be influenced by weather conditions, consult your supplier.

<sup>2</sup> For further information about floor characteristics, refer to the document "Floor requirements for AGV".

### 3. TECHNICAL DATA

	K50-S2002	K50-S3002
<b>K50</b> PALLET TRUCK		
<b>Mobility</b>	Bidirectional, in-Place Rotation	
<b>Load transport system</b>	Hydraulic elevation and fixed forks	
<b>Maximum payload</b>	2000 kg (4409.24 lbs)	3000 kg (6613.86 lbs)
<b>Lifting height</b>	205 mm (8.07 in)	204 mm (8.03 in)
<b>Dimensions [L x W x H]</b>	1730 x 942 x 1920 mm (68.11 x 37.08 x 75.59 in)	1740 x 950 x 2118 mm (65.50 x 37.40 x 83.38 in)
<b>Weight</b>	650 kg (1433 lbs)	720 kg (1587.33 lbs)
<b>Fork size [L x W x H]</b>	70 x 200 x 1250 mm (2.75 x 7.87 x 49.21 in)	70 x 208 x 1230 mm (2.75 x 8.18 x 48.42 in)
<b>Min fork ground clearance</b>	85 mm (3.34 in)	84 mm (3.30 in)
<b>Min turning radius</b>	1360 mm (53.54 in)	
<b>Operating Speed</b>	Full load: 1.2 m/s (39.37 ft/s) No load: 1.2 m/s (39.37 ft/s)	Full load: 1.0 m/s (32.80 ft/s) No load: 1.2 m/s (39.37 ft/s)
<b>Gradeability</b>	Full load: 3% No load: 5%	
<b>Navigation system</b>	LSLAM + VSLAM <sup>3</sup>	
<b>Positioning accuracy</b>	± 10 mm, ±1°	
<b>Fork lifting speed</b>	Full load: 25 mm/s (0.98 in/s) No load: 25 mm/s (0.98 in/s)	Full load: 19 mm/s (0.98 in/s) No load: 33 mm/s (0.98 in/s)
<b>Fork lowering speed</b>	Full load: 30 mm/s (1.18 in/s) No load: 25 mm/s (0.98 in/s)	Full load: 40 mm/s (1.57 in/s) No load: 19 mm/s (0.98 in/s)
<b>Charging time</b>	≤ 3 h.	
<b>Batteries</b>	48 V / 67 Ah	48 V / 105 Ah
<b>Battery charging</b>	Opportunity charging and on-board charging connector	
<b>Charging time</b>	≤ 3 h.	
<b>Safety systems</b>	1 x Safety PLC, 360° Safety scanner protection, 2 x Emergency stop buttons Collision Bar on the vehicle body, Pallet contact detection, Fork tip collision detectors	
<b>Display</b>	Touchscreen ≈ 25,4 cm (10 in)	
<b>Communication</b>	WiFi 2,4 / 5 GHz communication (802.11 a/b/g/h/n)	
<b>Optional equipment</b>	Dash cam	



<sup>3</sup> VSLAM used for obstacle avoidance and pallet tracking.