

4WD Autonomous Outdoor Robot Development Platform for Material Handling (HK1500) – Datasheet

SuperDroid Robots

FEATURES

- The HK1000-V2 is a heavy-duty robotic platform built for autonomous development.
- High ground clearance, high payload capacity, and powerful motors make this robot a workhorse.
- We can add ROS packages, LIDAR, IMU, GPS, RTK and more at your request. Whether you need to work outdoors or indoors, we've got you covered!
- The HK1000-V2 uses differential steering (movement is based on two separately driven wheels placed on either side of the robot body).
- It can thus change its direction by varying the relative rate of rotation of its wheels and "pivot turn" in place. See the Specifications and Configuration tab for more details about the HK1000-V2.

SPECIFICATIONS

Dimensions and Frame	
Dimensions (LxWxH):	36.5 x 26.5 x 22 inches.
Weight:	Approximately 160lbs.
Capacity:	Payload of approximately 200lbs.
Speed and Drive	
Axle Mount:	Direct Mount (DM) - the axles are mounted directly to the motor shaft.
Drive Method:	Direct Drive.
Speed:	~3 mph (75 RPM motors and 13" wheels).
Batteries and Power	
Battery	35 amp hour lead acid batteries with a 4 amp hour charger.
Upgrade Option 1	35 amp hour lead acid batteries with an upgraded charger.
Upgrade Option 2	42 amp hour LiFePO4 batteries with (Qty 2) 4 amp chargers.
Payload Capacity	
No extra Payload	<ul style="list-style-type: none">• running robot at ½ to ¾ speed for max efficiency<ul style="list-style-type: none">○ Drive straight – 3-4 amps○ Pivot Turn concrete - 8-10 amps○ Gradual Turn – 4-5 amps○ Uphill (loading dock ramp) - 5-6 amps
150 lb payload	<ul style="list-style-type: none">• running robot at ½ to ¾ speed for max efficiency<ul style="list-style-type: none">○ Drive straight – 8-10 amps○ Pivot Turn concrete - 25-30 amps○ Gradual Turn – 12-15 amps○ Uphill (loading dock ramp) - 15-20 amps



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