

# RIDGEBACK™

## OMNIDIRECTIONAL DEVELOPMENT PLATFORM



|                                |   |                             |   |                      |  |
|--------------------------------|---|-----------------------------|---|----------------------|--|
| <b>DIMENSIONS</b><br>L x W x H | 960 x 793 x 296 mm<br>(37.7 x 31.1 x 11.6 in) | <b>DRIVE POWER</b>          | 2000 W peak<br>800 W continuous           | <b>FEEDBACK</b>      | Encoders<br>Onboard IMU  |
| <b>WEIGHT</b>                  | 135 kg<br>(297 lbs)                           | <b>BATTERY</b>              | 24 V 100 Ah<br>AGM Battery                | <b>CONTROL MODES</b> | Kinematic Control<br>(Forward, Sideways,<br>Rotation),<br>Individual Wheel<br>Velocities |
| <b>PAYLOAD</b>                 | 100 kg<br>(220 lbs)                           | <b>USER POWER</b>           | 5 V / 12V / 24V<br>FUSED @ 10A each       | <b>DRIVERS/ APIs</b> | Packaged with ROS<br>INDIGO, GAZEBO,<br>Navigation Support<br>MOVEIT!                    |
| <b>MAXIMUM SPEED</b>           | 1.1 m/s<br>(3.6 ft/s)                         | <b>COMMUNICATION</b>        | Ethernet, USB 3.0,<br>RS232,              |                      |  |
| <b>OBSTACLE CLEARANCE</b>      | 18mm<br>(0.7 in)                              | <b>INCLUDED ACCESSORIES</b> | Onboard Computer,<br>Laser, Gyroscope     |                      |  |
| <b>OPERATING TIME</b>          | 5-8 hrs<br>with max payload                   | <b>ENCODERS</b>             | 1 per wheel, >250,000<br>Counts Per Meter |                      |  |

## SAMPLE APPLICATIONS

### MOBILE MANIPULATION



Integrate UR-5, Kinova, or other manipulators with Ridgeback. Omnidirectional steering allows precise positioning without having to back away from the work space.

### HUMAN-ROBOT INTERACTION



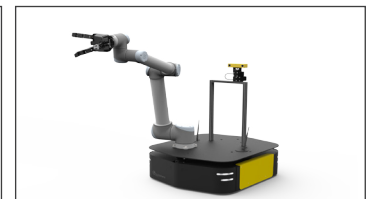
With their modular design, our robots can be outfitted with various manipulators and vision sensors for human-robot interaction and collaboration.

### MATERIALS TRANSPORT



Ridgeback is ideally suited to prototype factory applications. Front and rear laser mounts provide 360 degree coverage for safety, while on-board WIFI provides connection with facility infrastructure.

### PERCEPTION & NAVIGATION



Improve state estimation with tunable vehicle control parameters, high-resolution wheel odometry and full power system diagnostics.

## CONTACT US FOR MORE INFORMATION

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