# **RIDGEBACK**<sup>™</sup> OMNIDIRECTIONAL DEVELOPMENT PLATFORM





#### **3 DEGREES OF MOVEMENT**

Ridgeback is a midsize indoor robot platform that uses an omnidrive to move manipulators and heavy payloads with ease. The omnidirectional base provides precision positioning in dynamic environments and comes fully integrated with an onboard computer, front and optional rear laser scanners and an IMU.

#### **ROS READY**

Programming complex applications is simple with the open-source Robot Operating System (ROS). Ridgeback is supported in Gazebo Physics Simulator, RViz and MovelT! Motion planner.

#### **EASY INTEGRATION**

As with all Clearpath robots, Ridgeback is plug-and-play compatible with our extensive list of robot accessories. Payloads are easily added with flexible mounting, accessible on-board power and reconfigurable I/O. Prototyping an industrial or commercial mobile robot has never been easier.

A FEW OF THE INNOVATIVE FIRMS WHO USE OUR ROBOTS



UNIVERSITY OF

Carnegie Mellon University



Contact us today for pricing and a free 30 minute technical assessment: 1-800-301-3863

# **TECHNICAL SPECIFICATIONS**





## 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



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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