

## [Please Read: Minitaur Sales to be Discontinued \\*\\*](#)

### Ghost Minitaur

Ghost Minitaur™ is a small, highly agile, lightweight and dynamic legged R&D platform for developing commercial unmanned ground vehicles (UGVs), advanced gait and locomotion research, simulation, and machine learning.

The Minitaur is a fully operational at \$11,500 and a precursor to a portfolio of small to large scale ruggedized legged UGVs slated to be delivered in Q1 '18 for range of commercial, industrial, scientific, ISR, public safety and warfare applications.

High-speed and high-resolution encoders let the machine feel the ground directly through the motors and adapt faster than the blink of an eye. Patent-pending torque estimation means our robots are quick to react and know exactly how hard they're pushing. This helps us make robots that are safe and careful, yet strong and fast. Our motors have excellent actuator transparency, meaning they can easily conform to the environment when desired, but can also exert large torque when necessary.

### Minitaur Advantages

**Unparalleled Mobility:** walk, bound and prong over rough, varied and unstructured terrain. Climb stairs and vertical obstacles, and crouch under and jump over obstacles while operating in a range of environments including grass, rock, ice fields, sand, water, and urban debris. It even crawls inverted.

**Dynamic and Reactive Behaviors:** direct normal forces to jump over obstacles, onto ledges, climb structures or to reorient its body for a broad range of escape behaviors. The Minitaur's precise force feedback capabilities allow it to react to perturbations (ex: slipping on ice), constantly adjusting to move over virtually any type of environment.

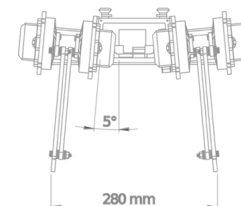
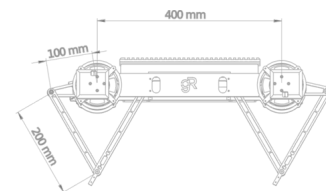
**Software Driven:** Custom controllers allow our direct-drive motors to be SDK programmed to mimic spring-damper systems with 100% software tunable active compliance. Patent-pending torque estimation means the motors can be used as sensors without additional hardware. Touchdown detection in 5ms and reactive behaviors can occur within 50ms.

### Minitaur License

Starting at \$11,500 USD, our base platform includes a fully assembled and functional Ghost Minitaur robot, SDK with ROS programmable software stack and basic gaits, joystick control, battery, documentation and support package.

Various sensors can be connected to either the robot's microcontroller (SPI, UART, I2C). Advanced gaits, computer, IMU, sensor and battery options also available.

### Customers



Ghost Robotics has been shipping the Minitaur R&D UGV platform, SDK, individual actuators and custom configurations to a broad range of customers include Carnegie Mellon Univ., Google, Florida State, Univ. of Pennsylvania, DeepMind (division of Alphabet, Inc.), Univ. of Washington, Univ. of Texas, OGMA, Arizona State, Univ. of Nevada, Princeton Univ. and U.S. Army Research Labs.



## Inquires and Sales

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