JACKAL

CHIRONIX

CLEARPATH

SMALL. FAST. RUGGED. DRIVE RESEARCH FORWARD

READY TO GO RIGHT OUT OF THE BOX

With an on-board computer, GPS and IMU fully integrated with ROS, Jackal has out-of-the-box autonomous capability. With wireless connectivity via Bluetooth and WiFi, Jackal is ready to go as soon as you turn it on!

MADE FOR THE GREAT OUTDOORS

Jackal's chassis is made entirely from welded aluminum and provides IP65 protection when the main bulkhead is sealed (optional). The high torque 4x4 drivetrain gives Jackal maximum traction, with enough on-board power available to traverse obstacles or unconsolidated terrain.

SMALL SIZE, BIG CAPABILITY

Swap payloads off Jackal's customizable mounting plate. As with all Clearpath robots, Jackal is compatible with many robot accessories to quickly expand your research and development.

Additionally, users receive end-toend visibility of Jackal's operation with the comprehensive ROS API.

SPECIFICATIONS

DIMENSIONS (LxWxH)	**508 x 430 x 250 mm** **20 x 17 x 10 in**
WEIGHT	**17kg** **37lb**
PAYLOAD A: all terrain; B: maximum	**A: 10 kg / 22 lb** **B: 20 kg / 44 lb**
MAXIMUM SPEED	**2.0 m/s** **6.6 ft/s**
CLEARANCE	**65 mm** **2.6 in**
OPERATING TIME	**2 hrs maximum** **8 hrs typical**
ENCODERS	**78,000 pulses/m** **Quadature**
BATTERY	**270 Watt hours** **Lithium Ion**
USER POWER	**5V @ 5A** **12V @ 10A** **Vbat (24V Norm) @ 20A**
STEERING MODE	**Differential**
DRIVE POWER	**500 W**
DRIVERS/ APIS	**Packaged with ROS Kinetic, Mathworks**
CONTROL MODES	**Open-loop** **Wheel Velocity** **Kinematic Commands**
FEEDBACK	**Battery+Motor Current Wheel Velocity** **Integrated GPS, Gyroscope and Accelerometer**