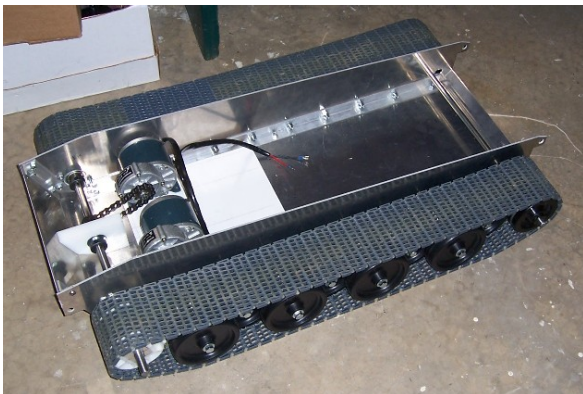


Rhino MkII

Rhino tracked platforms utilize commercial-off-the-shelf (COTS) technology to provide cost-effective, rugged and reliable mobility for research and hobby applications that require heavier payloads. The design is based on over thirty years experience in military and university robotic research and is battle-tested in hobby robot combat.



original Rhino MkI

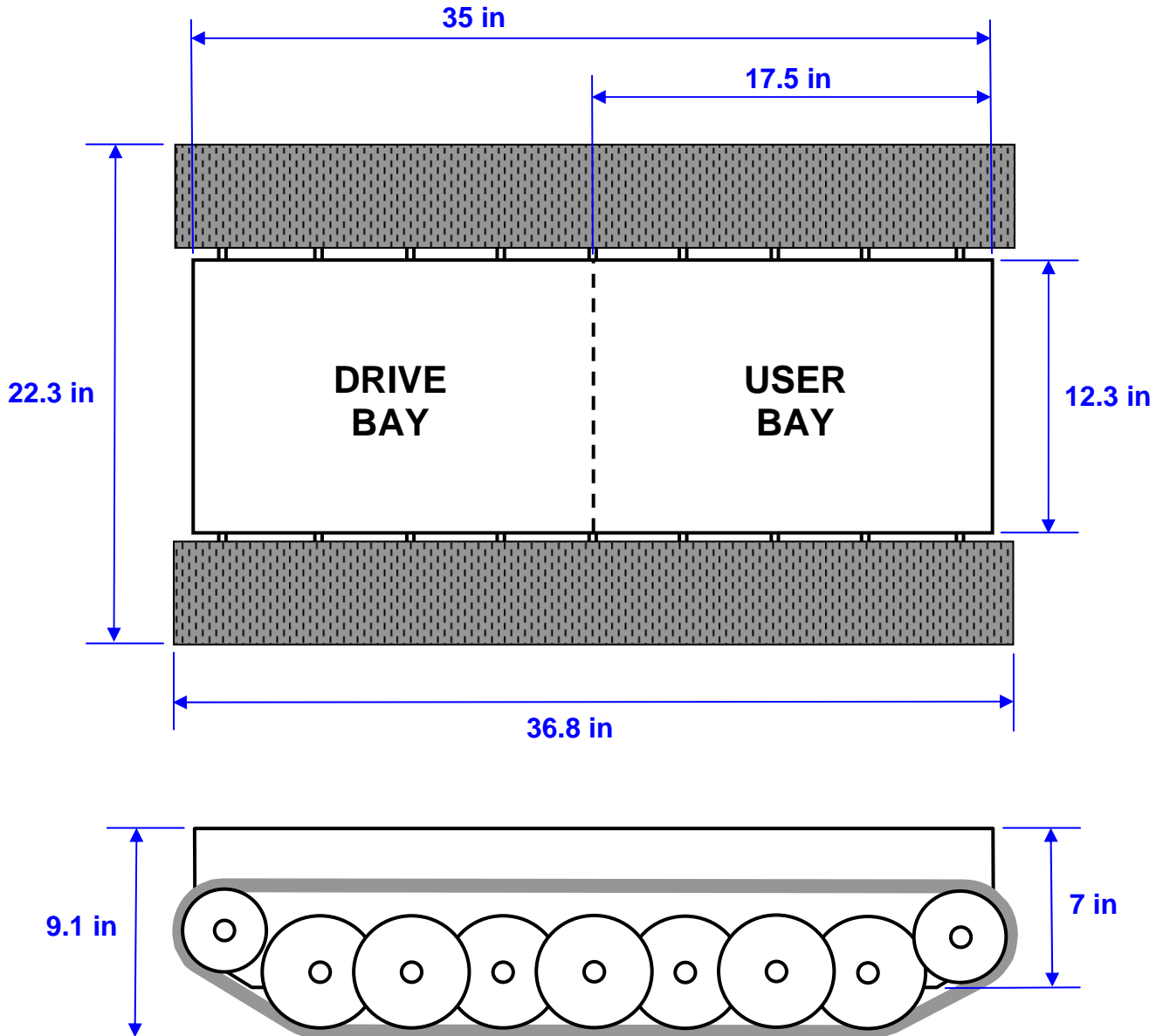


350W 24VDC motors

Length x Width x Height	36.8 x 22.3 x 9.1 inch (overall) 35 x 12.3 x 7 inch (chassis) 17.4 x 12 x 6.8 inch (user bay inside chassis)
Weight	100 lbs (approximate) 150 lbs (maximum payload) 250 lbs (maximum gross vehicle weight)
Motors	two 350W 24VDC brushed motors with 9.8/1 reducer chain drive with 1/1 ratio
Batteries	two 12VDC 22Ah sealed lead acid (SLA) primary batteries one 12VDC 2.3Ah SLA logic battery two hour run time (approximate) batteries are removable, 12VDC charger included
Tracks	4.5 inch wide commercial conveyor belt with articulated links acetal Intralox Series 900 mold-to-width with tracking tabs four acetal drive sprockets (two per side)
Suspension	interleaved polypropylene road wheels (ten per side) 3/8 inch DIA rigid axles tension idlers (two per side) loaded by gas springs
Chassis	welded aluminum lateral bulkheads for torsional stiffness
Control	differential tank steering, zero turning radius 4 mph = 5.9 ft/sec (approximate) RoboteQ ax2550 dual controller inputs - RC servo / RS232 serial / Ethernet
User requirements	fully assembled and wired user must provide radio link and servo/serial/Ethernet signals

Rhino MkII

Rhino tracked platforms have a strong rigid suspension and interleaved road wheels to carry heavier payloads than most small unmanned ground vehicles (UGVs). Overall width allows easy driving through standard doorways. Location of bulkheads may be customized to attach special payloads within the user bay or onto the top of the chassis.



Chassis geometry may be customized for special user requirements.