



MMP-15-Basic

Mobile Robot Platform

Get Your Ideas Rolling

20 Years in business



The MMP-15 robot platform has proven to be a rugged and reliable workhorse for research, education, product development and mobile video applications.

It can carry up to 15 pounds of additional payload through rough terrain. The MMP-15 can tackle sand, gravel, rocks, mud, snow, carpet and rough concrete.



Applications:

- Education
- Inspection
- Remote filming
- Autonomous navigation
- Sensor data acquisition
- Research & Development



A modular 80/20 rail system can easily be implemented to mount equipment, sensors, laptops or mechanical accessories. (sold separately)



All of The Machine Lab's basic platforms come with motors, proportional motor controllers, batteries, quadrature encoders, external charge jack and LED fuel gage. The MMP-15 also has accessible on board power distribution with 5V and 12V, 3 amp regulated outputs to power other devices such as radio receivers, micro controllers, video equipment servos or sensors or other equipment.

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Mobile Robot Platform

Size	19" L x 17"W x 5.75H
Weight	15 pounds with battery
Payload	15 pounds additional
Drive Type	- 2 or 4 Motor drive, DC brushed planetary gearmotors with dual quadrature encoders. - Tracked tank steering, climbs 40 deg. inclines. - Custom manufactured rubber tracks with aggressive mini-chevron paddle. - Reliable in all indoor and outdoor terrain including sand, gravel, snow, concrete and carpet.
Speed	- 5 ft/sec (3.4 MPH)
Electronics Box Motor Controller Control Protocol Encoders Power Distribution Connectors External Charge Jack Fuel Gage	- Sealed waterproof enclosure with removable lid. - Dual Channel 25 Amp fully proportional speed control with encoder feedback inputs. - Hobby-type PWM, Analog potentiometer 0-5V, RS-232, Packetized RS-232 Serial, USB - Dual quadrature optical encoders - Regulated outputs for 5V and 12V, 3 amps each. - High quality screw on type multi-pin Woodhead connectors/cables, comes with mating cables. - Easy access external charge jack and power switch with protective shroud. - External 8 segment LED battery fuel gage.
Robot Details	- Water resistant, dust resistant - Easy swap rear battery compartment, no tools necessary - All electronics modularized and field replaceable - Aluminum chassis - Recessed front cut out ideal for a tilt camera or sensors that need protection
Battery Details	- 25.6V LiFePO4, 6.4 Ah - LiFePO4 is a very robust and safe battery chemistry - 1 battery included
Run Time	- Approximately 2 hours. Terrain dependent
Battery Charger	- 25.6V Smart charger included.
Additional accessories	80/20 rail system for mounting electronics, laptops, sensors, mechanical components. Futaba 6 channel radio controller

