

20 Years in business

MMP-40X-EOD

Tactical/EOD Robot

KEEP IT AFFORDABLE, KEEP THEM SAFE

The MMP-40X-EOD robot system has proven to be a rugged and reliable tool for first responders, EOD techs, SWAT teams and law enforcement. It is the most capable of the Machine Lab robots with its ability to climb stairs and carry up to 35 pounds of additional payload. It can also host an assortment of tactical accessories



Applications:

- EOD Operations
- Rescue
- First Response
- Surveillance
- Tactical Operations
- Inspection
- Hazmat



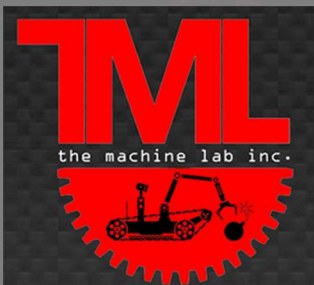
The Machine Lab prides itself in providing an unmatched price to performance ratio.



Optional accessories include a 4 or 6 axis manipulator arm, thermal camera, PTZ camera, drive camera, rear-facing camera, 2-way audio, remote detachable trailer, ribbon mast, lights, and an assortment of gripper tools. (hook, box knife, doorknob-fingers and spreader) The robot is capable of operating in harsh conditions, and can be customized to perform a wide range of tasks.

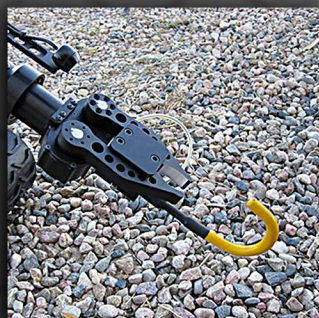
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www.themachinelab.com

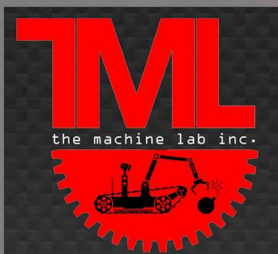


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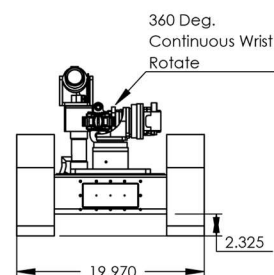
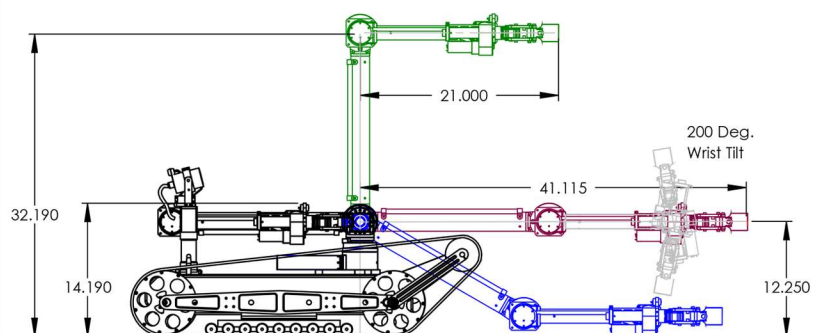
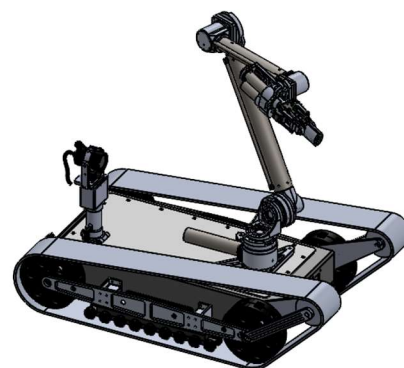
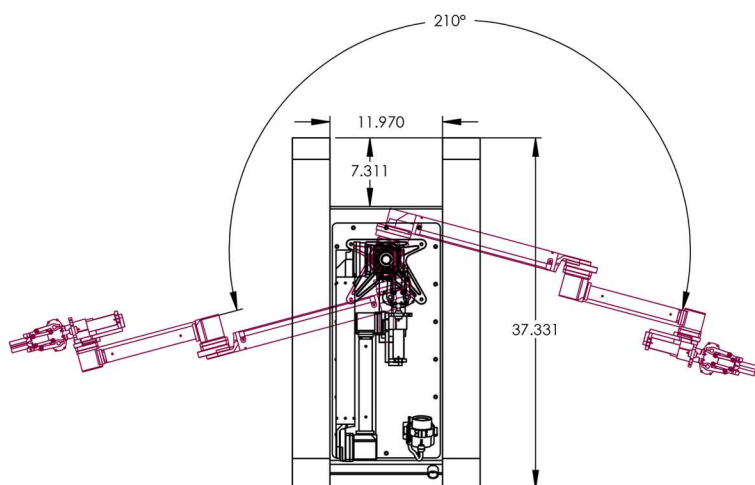


Size	38" L x 20" W x 16H (Stowed configuration with 6 Axis Arm and Camera Boom Folded Down)
Weight	Robot - 85 pounds, OCU - 5 pounds for hand-held OCU, 10 pounds for Pelican OCU)
Transport Case	Large Pelican case for robot and Pelican case for Operator Control Unit included.
Payload	35 pounds additional (140 pounds pull weight)
Drive Type	<ul style="list-style-type: none"> - Tracked tank steering, climbs 40 deg. inclines, climbs stairs. - Custom manufactured rubber tracks with aggressive chevron paddle. - Reliable in all indoor and outdoor terrain including sand, gravel, snow, concrete and carpet.
Speed	- 5 ft/sec (3.4 MPH)
Manipulator Arm Details	<ul style="list-style-type: none"> - 4 or 6 axis arms available - 6 axis manipulator arm <ul style="list-style-type: none"> - Turret with 210 deg. rotation - Shoulder with 210 deg. rotation - Elbow with 200 deg. rotation - Wrist tilt with 200 deg. rotation - Wrist rotate, 360 deg. continuous rotation - Parallel gripper with 5 inch grasp (30 pounds pinch force, HD gripper camera) - 20 pound lift at full extension of 44 inches,
Robot Details	<ul style="list-style-type: none"> - Water resistant, dust resistant - Easy swap front battery compartment, no tools necessary - All electronics modularized and field replaceable - Triangular track geometry for easy stair climbing - Reinforced axle supports - LED battery fuel gage
Audio/Video	<ul style="list-style-type: none"> - Wireless diversity audio and video on 5.8 GHz band - Up to 4 selectable cameras
Cameras	<ul style="list-style-type: none"> - Options: 4 camera video quadplexer, 2-way audio, FLIR thermal camera, P/T Zoom camera <ol style="list-style-type: none"> 1.) Foldable Pan/Tilt IR camera with IR illumination up to 30 feet 2.) Wide angle gripper camera for clear picture while manipulating objects 3.) Wide angle rear facing camera 4.) Internal protected color drive camera
LCD monitor	<ul style="list-style-type: none"> - 7" HD high nits sunlight viewable monitor (handheld OCU) - 10" HD high nits sunlight viewable monitor (Pelican case OCU)
Controller (OCU) details	<ul style="list-style-type: none"> - 2 Operator Control Unit styles available. hand-held and Pelican case - 2 axis joystick for drive - 3 axis joystick for Pan Tilt and Zoom (zoom optional) - 4-position camera selector - 5 position quadplexer view selector (quadplexer optional) - Dual 3-axis joysticks for 6-axis manipulator arm operation - Dimmable white flood light selector (flood light optional) - 2.4 GHz Spread Spectrum communications - Swappable battery (hand-held controller)
Auxiliary control channels	- 2-6 auxiliary channels for operating accessories
Range	- 2500 feet line of sight
Battery details	<ul style="list-style-type: none"> - Robot: 25.6V LiFePO4, 12.8 Ah - OCU: 12.8V LiFePO4, 3.2 Ah - LiFePO4 is a very robust and safe battery chemistry - 2 sets of batteries included
Run time	- Approximately 4-6 hours. Terrain dependent
Battery chargers (Included)	<ul style="list-style-type: none"> - 25.5V Smart charger for robot battery packs - 12.8V Smart charger for OCU battery packs
Additional accessories	Optional accessories include: IR or white light flood lights, video quadplexer, thermal camera, 100X zoom camera, gripper tools such as box knife, hook, spreader, and doorknob finger tips.



MMP-40X-E00

Tactical/EOD Robot



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DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: MACH $\pm .05$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .003$

MATERIAL

DRAWN BY
SHANE SUPPES

COMMENTS:

TITLE:
MMP-40X-HD
Tactical

SIZE DWG. NO. REV

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SCALE: 1:15 5/11/2020 SHEET 1 OF 1