

MANP-6-DOF Manipulator Arm KEEP IT SIMPLE, KEEP THEM SAFE

20 Years in business

The MMP-6-OOF robot manipulator arm . It is the most capable of The Machine Lab's manipulator arms with its precise zero-backlash feedback positioning, and wide range of motion. It is extremely light-weight at 24 pounds and can lift 20 pounds at a full extension of 48 inches.



The arm has a low power consumption and can be outfitted with a variety of interchangeable gripper tools such as additional cameras, hooks, glass breaker, spreaders, door knob grips, and box knife.





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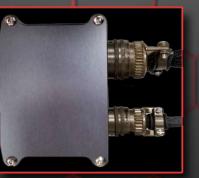




| Size | 48" reach |
|-------------------------|--|
| Weight | 24 pounds |
| Transport Case | Pelican case for transport or storage. |
| Payload | Can lift 20 pounds at full extension. |
| Drive Type | High precision coreless brushed DC planetary gearmotors primary drive Harmonic gearheads with no backlash Torque limiters on each joint Absolute position feedback, closed loop |
| Manipulator Arm Details | - 6 axis manipulator arm - Turret with 210 deg. rotation - Shoulder with 210 deg. rotation - Elbow with 200 deg. rotation - Wrist rotate with 360 deg. continuous rotation - Wrist tilt with 200 deg. rotation - Parallel gripper with 5 inch grasp, 30 pounds pinch force |
| Arm Controller | - 6 channel controller with closed loop feedback - 12 - 28 Volt operation, 11 amp max draw - Aluminum CNC machined housing with MIL spec connectors - Control protocol: PWM, USB - Small size: 4" x 3" x 3" |
| Camera | Color micro bullet camera mounted above gripper NTSC output, 1200 lines Video feed accessible through control box Powered via control box |
| Materials | - CNC 6061 and 7075 aluminum - 4130 chromoly tubes - All stainless steel hardware |
| Accessories | Gripper finger tips are easily removeable with no tools. They can be replaced in seconds with tools such as hooks, cutting knife, cable cutter, door knob gripper or spreaders. Droppable tool blocks also available |







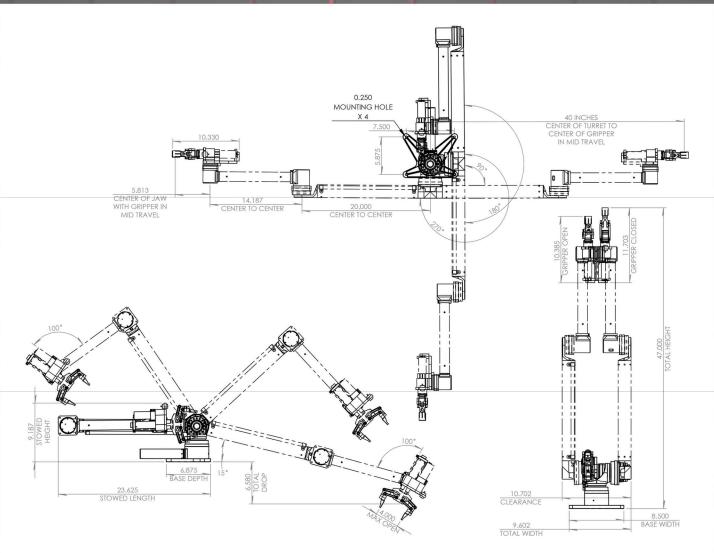


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