

Manipulator or End Effectors Worksheet



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This is general guide to assisting you with specifying a Manipulator or End Effectors.
It is not comprehensive but provides a good starting point.

Describe the product(s) to be manipulated:	Weight (lbs.): Height: Width: Length: I.D.: O.D.: Is the load evenly distributed? Describe: Can you provide a picture or drawing?
Describe the application(s):	Can you provide a picture or drawing?
Cycles:	Per minute _____ hour _____ day _____ In use how many hours per day: _____
Reach required:	Max Reach: Inches From Center Line of Manipulator _____ Min. Reach: Inches From Center Line of Manipulator _____ What is the distance you need to move the part? _____ Inches/Feet
Min/Max height required:	Minimum Height: Distance to Bottom of Product at Lowest Position: Maximum Height: Distance to Bottom of Product at Highest Position: Are there any obstructions, equipment, personnel in the movement path?

<p>Part Positioning:</p> <p>Does the part need to be rotated, turned 90 degrees or other angle?</p> <p>Does the part need to be picked up in a certain way and/or placed in a specific orientation?</p> <p>Is the part sensitive to compression, bending, etc. that would require special handling?</p>	<p>Describe in detail:</p> <p>Describe:</p> <p>Describe:</p>
<p>Mounting:</p>	<p>Floor Mount: _____ Specify OAH of the ceiling/space: _____</p> <p>Overhead mount: (Bridge System / Fixed Position). Specify dimension if known: Capacity _____ Runway length _____</p> <p>Bridge Width _____</p> <p>Note: We can provide products as required for bridge systems.</p> <p>Mobile or Pedestal Mount. Describe: Do you want to use a Forklift, pallet jack, other? (specify)</p> <p>Mobulator(TM)AC option (call for details) or see www.advancedmanipulator.com</p>
<p>Describe the operating environment:</p>	<p>Corrosive, Abrasive, Hot, Cold, Dusty, Clean Room, Explosive. Specify requirements:</p>
<p>Utilities Available:</p>	<p>Electrical: _____, Air _____ PSI, Other _____</p>
<p>Controls</p>	<p>How do you want the operator to control the movement?</p> <p>Remote control handle</p> <p>Zero-Gravity</p> <p>Fixed handle with push buttons</p> <p>Other: Specify</p>
<p>Other challenges / considerations</p>	<p>Describe:</p>
<p>Installation:</p>	<p>Do you need installation assistance?</p>

Many options for part manipulation and positioning are available. We can flip complete windows and doors for assembly, hold parts for sub-assembly and error-proofing, handle paper rolls, provide torque arms for tooling and many other special products. Contact us with your unique application. We would be glad to help.