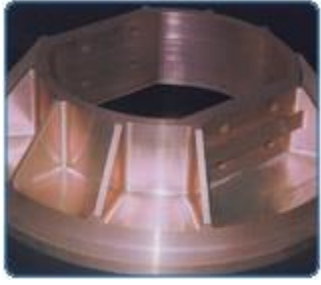


# CNC Milling & Turning of an Aluminum Gimbal Mounting Adapter for the Homeland Security Industry



A customer in Maryland associated with the Homeland Security industry turned to **Link Gear & Machine** to custom manufacture a mounting adapter for a very complex piece of machinery. This gimbal mounting adapter was machined out of 7075 aluminum using both our Mazak CNC and Kitamura CNC to execute the necessary milling and turning. Per the CAD and print drawing specifications, our machinists held a  $+.002"/-.000"$  tolerance to ensure the proper installation and positioning of the component within the larger assembly. The mounting adapter was anodized per MIL-C-5541B: Chemical Conversion Coatings on Aluminum and Aluminum Alloys, to provide additional corrosion protection to the component. The part was shipped to Maryland for installation in the full product assembly.

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<b>Product Name</b>	Aluminum Gimbal Mounting Adapter	
<b>Product Description</b>	This aluminum gimbal mounting adapter is used within a homeland security application.	
<b>Capabilities Applied/Processes</b>	CNC Milling <ul style="list-style-type: none"> <li>■ Mill Pockets</li> <li>■ Bore</li> <li>■ Mill Keys</li> <li>■ Drill</li> </ul> CNC Turning	<b>Secondary:</b> Anodizing <ul style="list-style-type: none"> <li>■ Anodize Per MIL-C-5541B Class C</li> </ul>
<b>Equipment Used to Manufacture Part</b>	Mazak CNC Kitamura CNC	
<b>Overall Part Dimensions</b>	O.D.: Ø15.750" Height: 4.25"	
<b>Tightest Tolerances</b>	$+.002"/-.000"$ Parallelism of .002"	Perpendicularity of .001"
<b>Material Used</b>	7075 Aluminum	
<b>Max Material Finish</b>	32 RMS	
<b>In process testing/inspection performed</b>	Yes	
<b>Estimated Part Weight</b>	30#	
<b>Industry for Use</b>	Homeland Security	
<b>Standards Met</b>	Customer supplied print, 2D CAD Drawing	
<b>Delivery Location</b>	Maryland	