### Design Considerations

**Name** ____________________________  **Date** __________

**Company** ____________________________  **State** ________

**Phone** ____________________________  **Email** ____________________________

### System Requirements

<table>
<thead>
<tr>
<th>Axis</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>Φ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Dimensions</td>
<td>length x width (in or mm)</td>
<td>Max. Accel</td>
<td>(in/sec^2 or m/sec^2)</td>
<td></td>
</tr>
<tr>
<td>Load Weight</td>
<td>(lbs or kg)</td>
<td>Duty Cycle</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Travel Length</td>
<td>(in or mm)</td>
<td>Table Life</td>
<td>(millions of inches or Km)</td>
<td></td>
</tr>
<tr>
<td>Repeatability</td>
<td>(in or mm)</td>
<td>Motor Frame Size</td>
<td>(NEMA 23, 34, 42, other)</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>(Overall - in or mm)</td>
<td>Limit Switch Type</td>
<td>(mech, reed, hall, prox)</td>
<td></td>
</tr>
<tr>
<td>Maximum Speed</td>
<td>(in/sec or mm/sec)</td>
<td>Waycovers</td>
<td>(Yes or No)</td>
<td></td>
</tr>
<tr>
<td>Most Difficult Move Profile</td>
<td>Distance (in or mm)</td>
<td>Encoder</td>
<td>(linear, rotary, &amp; resolution)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Time (sec)</td>
<td>Power-off Brake</td>
<td>(Yes or No)</td>
<td></td>
</tr>
</tbody>
</table>

### Special Requirements

- □ High Temperature
- □ Vacuum Rated
- □ Maximum Smoothness
- □ Clean Room
- □ High Moisture
- □ Low Audible Noise
- □ Motor Wrap
- □ Other (explain below)

### Moment Loads

**Horizontal Application**

\[ d_3 = \]  
\[ W \]

\[ d_4 = \]  

**Side Mounted Application**

\[ d_3 = \]  
\[ W \]

\[ d_4 = \]  

\[ W \]

**Vertical Application**

\[ d_3 = \]  

\[ W \]

\[ d_4 = \]  

\[ W \]

Load Weight (W) ____________ (lbs or kg)

### Application Details

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