The features illustrated on the tool are not features of size, and should not be controlled. The tool size tool is a tolerance zone consisting of the space between a maximum material condition boundary of the perfect form and a minimum material condition boundary of the perfect form, which is the surface swept by the necessary perfect form. The surface requires a tolerance zone consisting of the space between a maximum material condition size = the extreme maximum material condition size, the least material condition size = the extreme least material condition size, the uncontrolled actual maximum envelope of an actual feature, the uncontrolled actual maximum size = the extreme LMC value of 0.020, the LMC envelope of the actual feature, the LMC sphere of 0.980, the LMC sphere of 0.600, the LMC sphere of 0.500, 1.000 = 0.155, 1.250 = 0.05, 2.000 = 0.05, a surface swept by the LMC sphere, and a surface swept by the LMC sphere.
Introduction

Datum Reference Frame Construction Process

- Definitions:
  - Datum Feature Simulator
  - Datum Reference Frame

Example Table:

<table>
<thead>
<tr>
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<th>X</th>
<th>C</th>
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</thead>
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<td>X</td>
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<td>X</td>
<td>(X)</td>
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<tr>
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<td>--</td>
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</tr>
<tr>
<td>Z</td>
<td>Y</td>
<td>X</td>
<td>R</td>
<td>P</td>
</tr>
</tbody>
</table>

Examples of Datum Feature Simulators:

- Datum C
- Datum B
- Datum A

Datum Reference Frame:

- X, Y, Z axes
- Datum at origin

Construction Process:

1. Define datum feature simulators
2. Establish datum reference frame
3. Construct parts to these datums

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Tolerance Zone Expansion & Mobilization