

# GEOMETRIC TOLERANCING REFERENCE CHART

10-102

PER ASME Y14.5M-1994

GEOMETRIC TOLERANCE	EXAMPLE AS SHOWN ON A DRAWING	MEANING/TOLERANCE ZONE SHAPE	DATUMS USED	MMC OR LMC MODIFIER	BONUS TOL.	OVERALL BOUNDARY	COMMENTS
FLATNESS			No	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Tolerance value must be less than the size tolerance</li> <li>Rule #1 applies</li> </ul>
STRAIGHTNESS OF AN EDGE			No	Shown in example above (MMC) (see Rule #1)	Yes when $\text{M} \text{ or } \text{L}$ is used	Affected $0.01 + 0.2 + 0.2$	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Tolerance value may be greater than the size limit</li> <li>Rule #1 over-rides</li> </ul>
STRAIGHTNESS OF SURFACE			No	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Tolerance value must be less than the size tolerance</li> <li>Tolerance zone applies to each line element</li> <li>Rule #1 applies</li> </ul>
CIRCULARITY			No	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Tolerance value must be less than the size tolerance</li> <li>Part must also be within the size limits</li> <li>Rule #1 applies</li> </ul>
CIRCULARITY			No	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Tolerance value must be less than the size tolerance</li> <li>Part must also be within the size limits</li> <li>Rule #1 applies</li> </ul>
PERPENDICULARITY OF SURFACE			Yes	No Always MMC	No	Does not apply	<ul style="list-style-type: none"> <li>Also controls flatness of the surface</li> </ul>
PERPENDICULARITY OF AN EDGE TO SURFACE			Yes	Shown in example above (MMC) (see Rule #1)	Yes when $\text{M} \text{ or } \text{L}$ is used	Affected $0.04 + 0.2 + 0.2$	<ul style="list-style-type: none"> <li>Must be within the size limits</li> <li>Rule #1 applies</li> </ul>
ANGULARITY OF SURFACE TO SURFACE			Yes	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Parallelism tolerance must be used from the tolerance feature to the datum referenced</li> <li>Also controls the flatness of the surface</li> </ul>
ANGULARITY OF AN EDGE TO SURFACE			Yes	No Always MMC	No	Not Affected	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Parallelism tolerance value must be less than the size tolerance</li> <li>Also controls the flatness of the surface</li> <li>Rule #1 applies</li> </ul>
PROFILE OF A SURFACE			Yes	No Always MMC	No	Does not apply	<ul style="list-style-type: none"> <li>Tolerance zone may be bilateral or unilateral</li> <li>Essentially used in place of coordinate tolerancing</li> <li>Basic dimensioning must be used to define the true profile</li> </ul>
PROFILE OF A SURFACE			No	No Always MMC	No	Does not apply	<ul style="list-style-type: none"> <li>Controls flatness of the surface</li> <li>Unilateral tolerance zone</li> </ul>
CIRCULAR RUNOUT			Yes	No Always MMC	No	Affected $0.02 + 0.1 + 0.1$	<ul style="list-style-type: none"> <li>Applies to each circular element independently</li> <li>A composite control that controls circularity and run out</li> <li>The maximum axis offset is 1/2 of the tolerance value</li> <li>Rule #1 applies</li> </ul>
TOTAL RUNOUT			Yes	No Always MMC	No	Affected $0.02 + 0.1 + 0.1$	<ul style="list-style-type: none"> <li>Applies to entire surface continuously</li> <li>A composite control that controls straightness, taper, and run out</li> <li>The maximum axis offset is 1/2 of the tolerance value</li> <li>Rule #1 applies</li> </ul>
POSITION			Yes	Shown in example above (MMC) (see Rule #1)	Yes when $\text{M} \text{ or } \text{L}$ is used	Affected $0.2 + 0.4 + 0.4$	<ul style="list-style-type: none"> <li>Applies around tolerance zones</li> <li>(M) is used when function of part feature is assembly</li> <li>(L) is used to control a true part dimension</li> <li>Basic dimensioning must be used to establish the true position</li> <li>Rule #1 applies</li> <li>It is not a direct gage reading</li> <li>(Should only be used in high speed rotating part applications)</li> <li>Endpoints of tolerance zone must be within tolerance zone</li> <li>Rule #1 applies</li> </ul>
CONCENTRICITY			Yes	No Always MMC	No	Affected $0.02 + 0.1 + 0.1$	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Limits the location of the midpoints of two part measurements</li> <li>Rule #1 applies</li> </ul>
SYMMETRY			Yes	No Always MMC	No	Affected $0.04 + 0.4 + 0.4$	<ul style="list-style-type: none"> <li>Part must also be within size limits</li> <li>Limits the location of the midpoints of two part measurements</li> <li>Rule #1 applies</li> </ul>

# Geometric Tolerancing Cheat Sheet

**AW Rasmussen**



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