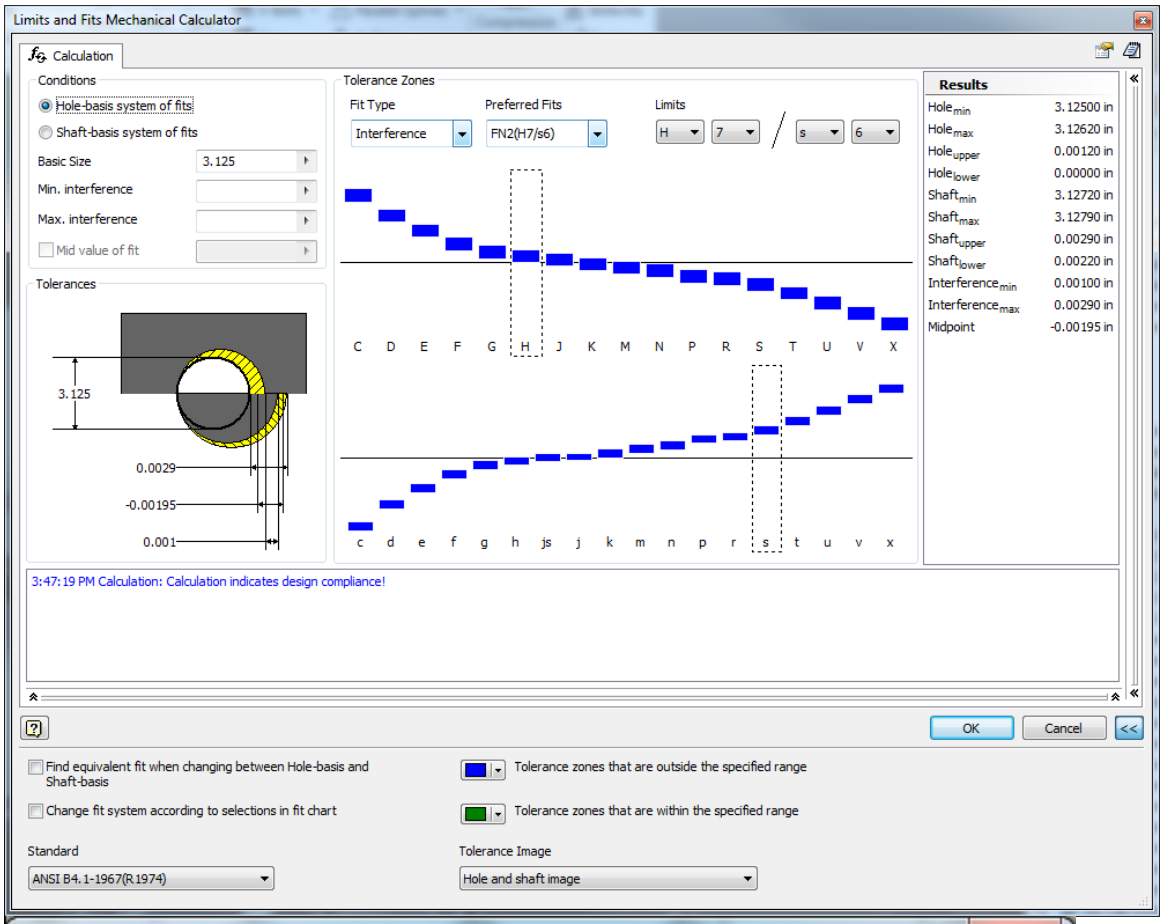
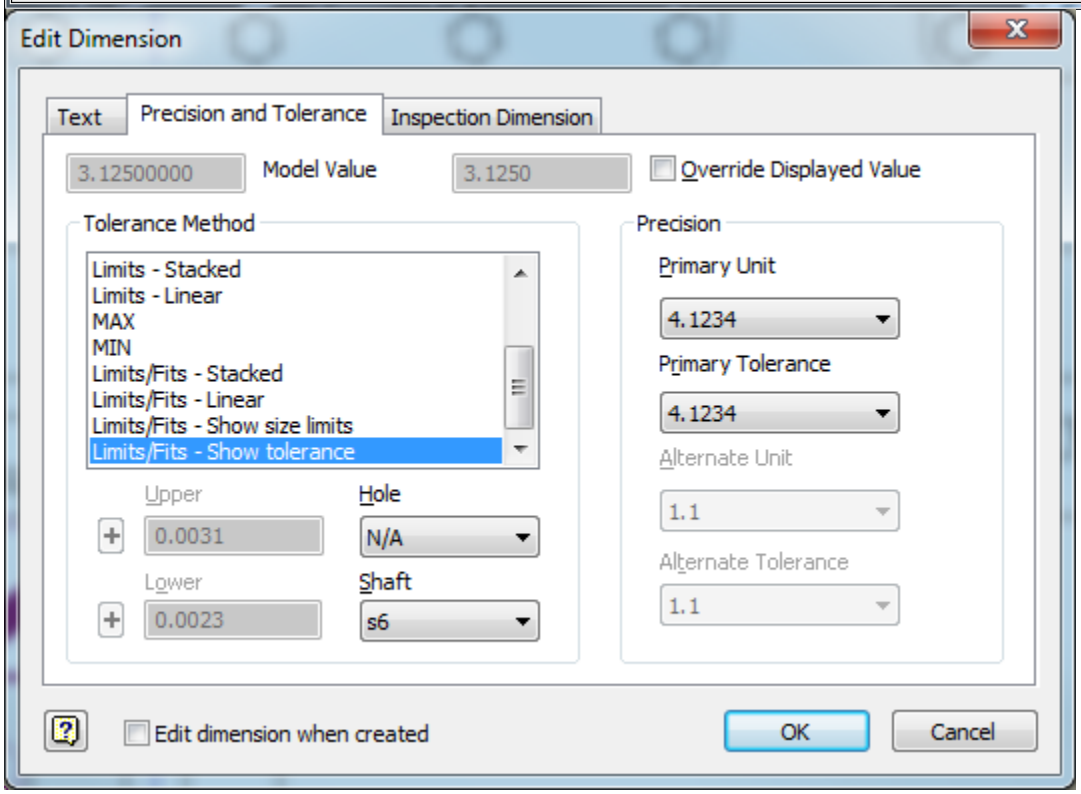

Limits and Fits Mechanical Calculator
Calculation
Conditions
Hole-basis system of fits
Shaft-basis system of fits
Basic Size
3.125
Min. interference
Max. interference
Mid value of fit
Tolerances
3.125
0.0029
-0.00195
0.001
Tolerance Zones
Fit Type
Interference
Preferred Fits
FN2(H7/s6)
Limits
H
7
s
6
C D E F G H J K M N P R S T U V X
c d e f g h js j k m n p r s t u v x
Results
Hole min 3.12500 in
Hole max 3.12620 in
Hole upper 0.00120 in
Hole lower 0.00000 in
Shaft min 3.12720 in
Shaft max 3.12790 in
Shaft upper 0.00290 in
Shaft lower 0.00220 in
Interference min 0.00100 in
Interference max 0.00290 in
Midpoint -0.00195 in
3:47:19 PM Calculation: Calculation indicates design compliance!
OK
Cancel
Find equivalent fit when changing between Hole-basis and Shaft-basis
Change fit system according to selections in fit chart
Tolerance zones that are outside the specified range
Tolerance zones that are within the specified range
Standard
ANSI B4.1-1967(R1974)
Tolerance Image
Hole and shaft image


Edit Dimension
Text
Precision and Tolerance
Inspection Dimension
3.12500000
Model Value
3.1250
Override Displayed Value
Tolerance Method
Limits - Stacked
Limits - Linear
MAX
MIN
Limits/Fits - Stacked
Limits/Fits - Linear
Limits/Fits - Show size limits
Limits/Fits - Show tolerance
Upper
0.0031
Hole
N/A
Lower
0.0023
Shaft
s6
Precision
Primary Unit
4.1234
Primary Tolerance
4.1234
Alternate Unit
1.1
Alternate Tolerance
1.1
Edit dimension when created
OK
Cancel