Project* Page 1 of 37



Project*

First Saved	Saturday, June 22, 2024
Last Saved	Tuesday, June 25, 2024
Product Version	2024 R1
Save Project Before Solution	No
Save Project After Solution	No



Project* Page 2 of 37

Contents

- Units
- Model (A4)
 - o Geometry Imports
 - Geometry Import (A3)
 - o Geometry
 - Solid
 - o Materials
 - o Coordinate Systems
 - o Mesh
 - Mesh Controls
 - o Named Selections
 - o Static Structural (A5)
 - Analysis Settings
 - Loads
 - Solution (A6)
 - Solution Information
 - Results
 - Max Equivalent Stress Tool
 - Results
 - Max Sheer Stress Tool
 - Results
 - Fatigue Tool
 - Results
- Material Data
 - o **Chromoly**

Units

TABLE 1

Unit System	Metric (m, kg, N, s, V, A) Degrees rad/s Celsius		
Angle	Degrees		
Rotational Velocity	rad/s		
Temperature	Celsius		

Model (A4)

TABLE 2 Model (A4) > Geometry Imports

Model (AT)	ocometry imports
Object Name	Geometry Imports
State	Solved

TABLE 3

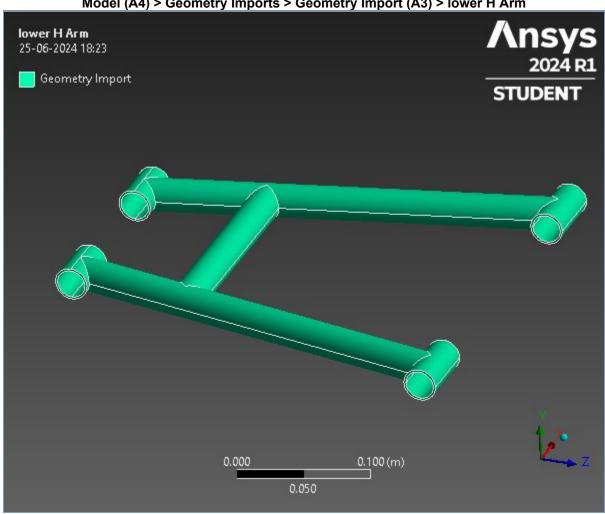
Model (A4) > Geometry Imports > Geometry Import (A3)

model (A4) > Geometry imports > Geometry import (A3)		
Object Name	Geometry Import (A3)	
State	Solved	
Definition		

Project* Page 3 of 37

Source	C:\Users\91982\Desktop\Moksha\eBAJA 2024\Suspension Lower H Arm Analysis\suspension lower h arm_files\dp0\SYS\DM\SYS.agdb	
Туре	DesignModeler	
Basic Geometry Options		
Parameters	Independent	
Parameter Key		
Advanced Geometry Options		
Compare Parts On Update	No	
Analysis Type	3-D	

FIGURE 1
Model (A4) > Geometry Imports > Geometry Import (A3) > lower H Arm



Geometry

TABLE 4 Model (A4) > Geometry

model (A+) > Content		
Object Name Geometry		
State Fully Defined		
Definition		
Source	C:\Users\91982\Desktop\Moksha\eBAJA 2024\Suspension Lower H Arm Analysis\suspension lower h arm_files\dp0\SYS\DM\SYS.agdb	
Туре	DesignModeler	

Project* Page 4 of 37

Length Unit	Meters	
Element Control	Program Controlled	
Display Style	Body Color	
2.3p.a.j 3.j.3	Bounding Box	
Length X	0.31 m	
Length Y	2.54e-002 m	
Length Z	0.33463 m	
2011941121	Properties	
Volume	1.1396e-004 m³	
Mass	0.89457 kg	
Scale Factor Value	1.	
Coale i dotei valde	Statistics	
Bodies	1	
Active Bodies	1	
Nodes	15270	
Elements	7585	
Mesh Metric	None	
West wette	Update Options	
Assign Default Material	No	
Assign Delaur Waterial	Basic Geometry Options	
Parameters	Independent	
Parameter Key	maepenaent	
Attributes	Yes	
Attribute Key	163	
Named Selections	Yes	
Named Selection Key	163	
	Yes	
Material Properties Yes Advanced Geometry Options		
Use Associativity Yes		
Coordinate Systems	Yes	
Coordinate System Key	103	
Reader Mode Saves		
Updated File	No	
Use Instances	Yes	
Smart CAD Update	Yes	
Compare Parts On		
Update	No	
Analysis Type	3-D	
Import Facet Quality	Source	
Clean Bodies On Import	No	
Stitch Surfaces On		
Import	None	
Decompose Disjoint	Yes	
Geometry	165	
Enclosure and Symmetry	Yes	
Processing	. 33	

TABLE 5 Model (A4) > Geometry > Parts

model (A4) - Scollictly - I alto		
Object Name	Solid	
State	Meshed	
Graphics Properties		
Visible	Yes	

Project* Page 5 of 37

Transparency	1	
Definition		
Suppressed	No	
Stiffness Behavior	Flexible	
Coordinate System	Default Coordinate System	
Reference Temperature	By Environment	
Treatment	None	
Ma	nterial	
Assignment	Chromoly	
Nonlinear Effects	Yes	
Thermal Strain Effects	Yes	
Bound	ding Box	
Length X	0.31 m	
Length Y	2.54e-002 m	
Length Z	0.33463 m	
	perties	
Volume	1.1396e-004 m³	
Mass	0.89457 kg	
Centroid X	0.28409 m	
Centroid Y	-4.909e-006 m	
Centroid Z	-0.16135 m	
Moment of Inertia lp1	8.7715e-003 kg·m²	
Moment of Inertia Ip2	1.6603e-002 kg·m²	
Moment of Inertia Ip3	7.9575e-003 kg·m²	
Statistics		
Nodes	15270	
Elements	7585	
Mesh Metric	None	

TABLE 6
Model (A4) > Materials

Object Name	Materials
State Fully Defined	
Statistics	
Materials	2
Material Assignments	0

Coordinate Systems

TABLE 7
Model (A4) > Coordinate Systems > Coordinate System

ao. (711) - Ooolaiiiato		
Object Name	Global Coordinate System	
State	Fully Defined	
De	finition	
Туре	Cartesian	
Coordinate System ID	0.	
Origin		
Origin X	0. m	
Origin Y	0. m	
Origin Z	0. m	
Directional Vectors		
X Axis Data	[1. 0. 0.]	

Project* Page 6 of 37

Y Axis Data	[0. 1. 0.]	
Z Axis Data	[0. 0. 1.]	
Transfer Properties		
Source		
Read Only	No	

Mesh

TABLE 8 Model (A4) > Mesh

Model (A4) > Mesn			
Object Name	Mesh		
State	Solved		
Display			
Display Style	Use Geometry Setting		
Defaults			
Physics Preference	Mechanical		
Element Order	Program Controlled		
Element Size	Default		
Sizing			
Use Adaptive Sizing	Yes		
Resolution	Default (2)		
Mesh Defeaturing	Yes		
Defeature Size	Default		
Transition	Fast		
Span Angle Center	Coarse		
Initial Size Seed	Assembly		
Bounding Box Diagonal	0.45686 m		
Average Surface Area	2.8708e-003 m ²		
Minimum Edge Length	9.353e-003 m		
Quality			
Check Mesh Quality	Mesh Quality Worksheet		
Error Limits	Standard Mechanical		
Target Element Quality	Default (5.e-002)		
Smoothing	Medium		
Mesh Metric	None		
Inflation			
Use Automatic Inflation	None		
Inflation Option	Smooth Transition		
Transition Ratio	0.272		
Maximum Layers	5		
Growth Rate	1.2		
Inflation Algorithm	Pre		
Inflation Element Type	Wedges		
View Advanced Options	No		
Advanced			
Number of CPUs for Parallel Part Meshing	Program Controlled		
Straight Sided Elements	No		
Rigid Body Behavior	Dimensionally Reduced		
Triangle Surface Mesher	Program Controlled		
Topology Checking	Yes		
Pinch Tolerance	Please Define		
Generate Pinch on Refresh	No		

Statistics		
Nodes	15270	
Elements	7585	
Show Detailed Statistics	No	

TABLE 9
Model (A4) > Mesh > Mesh Controls

Model (A+) > Mesh > Mesh oondols		
Face Sizing	Automatic Method	
Fully Defined		
Scope		
Named Selection	Geometry Selection	
Full Body		
	1 Body	
Definition		
No		
Element Size		
8.e-003 m		
	Automatic	
	Use Global Setting	
Advanced		
Default		
No		
Soft		
	Face Sizing Fully Scope Named Selection Full Body Definition Element Size 8.e-003 m Advanced Default No	

Named Selections

TABLE 10
Model (A4) > Named Selections > Named Selections

is / Nameu Selectio		
Full Body		
Fully Defined		
Geometry Selection		
48 Faces		
Definition		
Yes		
Program Controlled		
Yes		
Exclude		
Statistics		
Manual		
48 Faces		
0.1378 m²		
0		
No		

Static Structural (A5)

TABLE 11 Model (A4) > Analysis

, ,		
Object Name	Static Structural (A5)	
State	Solved	
Definition		

Project* Page 8 of 37

Physics Type	Structural	
Analysis Type	Static Structural	
Solver Target	Mechanical APDL	
Options		
Environment Temperature	22. °C	
Generate Input Only	No	

TABLE 12 Model (A4) > Static Structural (A5) > Analysis Settings

Model (A4) > Static Structural (A5) > Analysis Settings			
Object Name	Analysis Settings		
State	Fully Defined		
	Step Controls		
Number Of Steps	1.		
Current Step Number	1.		
Step End Time	1. s		
Auto Time Stepping	Program Controlled		
	Solver Controls		
Solver Type	Program Controlled		
Weak Springs	Off		
Solver Pivot Checking	Program Controlled		
Large Deflection	Off		
Inertia Relief	Off		
Quasi-Static Solution	Off		
	Rotordynamics Controls		
Coriolis Effect	Off		
	Restart Controls		
Generate Restart	Dragram Controlled		
Points	Program Controlled		
Retain Files After Full	No		
Solve			
Combine Restart Files Program Controlled			
	Nonlinear Controls		
Newton-Raphson Option	Program Controlled		
Force Convergence	Program Controlled		
Moment Convergence	Program Controlled		
Displacement	Program Controlled		
Convergence	Program Controlled		
Rotation Convergence	Program Controlled		
Line Search			
Stabilization	Program Controlled		
	Advanced		
Inverse Option	No		
Contact Split (DMP)			
Output Controls			
Stress	Yes		
Back Stress	No		
Strain	Yes		
Contact Data	Yes		
Nonlinear Data	No		
Nodal Forces	No		
Volume and Energy	Yes		
Euler Angles	Yes		

Project* Page 9 of 37

General Miscellaneous	No
Contact Miscellaneous	No
Store Results At	All Time Points
Result File Compression	Program Controlled
	Analysis Data Management
Solver Files Directory	C:\Users\91982\Desktop\Moksha\eBAJA 2024\Suspension Lower H Arm Analysis\suspension lower h arm_files\dp0\SYS\MECH\
Future Analysis	None
Scratch Solver Files Directory	
Save MAPDL db	No
Contact Summary	Program Controlled
Delete Unneeded Files	Yes
Nonlinear Solution	No
Solver Units	Active System
Solver Unit System	mks

FIGURE 2 Model (A4) > Static Structural (A5) > Figure

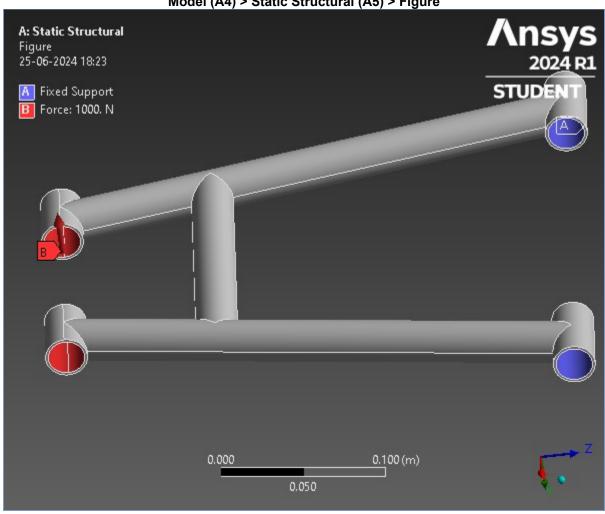


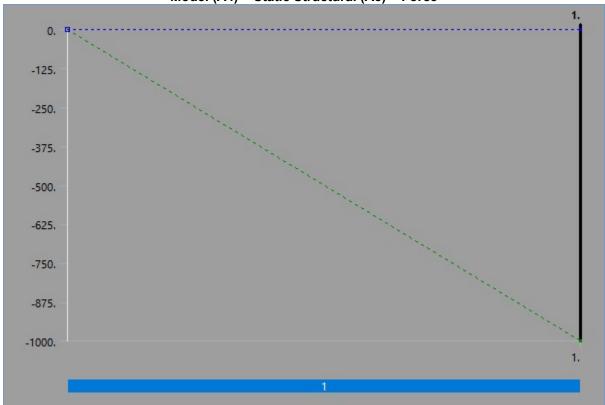
TABLE 13 Model (A4) > Static Structural (A5) > Loads

Object Name	Fixed Support	Force	

Project* Page 10 of 37

State	Fully Defined		
Scope			
Scoping Method	Geo	Geometry Selection	
Geometry	2 Faces 4 Faces		
Definition			
Туре	Fixed Support	Force	
Suppressed	No		
Define By		Components	
Applied By		Surface Effect	
Coordinate System		Global Coordinate System	
X Component		0. N (ramped)	
Y Component		-1000. N (ramped)	
Z Component		0. N (ramped)	

FIGURE 3
Model (A4) > Static Structural (A5) > Force



Solution (A6)

TABLE 14 Model (A4) > Static Structural (A5) > Solution

Object Name	Solution (A6)	
State	Solved	
Adaptive Mesh Refinement		
Max Refinement Loops	1.	
Refinement Depth	2.	
Information		
Status	Done	
MAPDL Elapsed Time	4. s	

MAPDL Memory Used	326. MB	
MAPDL Result File Size	5.125 MB	
Post Processing		
Beam Section Results	No	
On Demand Stress/Strain	No	

TABLE 15
Model (A4) > Static Structural (A5) > Solution (A6) > Solution Information

r otatio oti aotai ai (Ao) r ooia	tion (Ao) - Colution i	
Object Name	Solution Information	
State	Solved	
Solution Inform	ation	
Solution Output	Solver Output	
Newton-Raphson Residuals	0	
Identify Element Violations	0	
Update Interval	2.5 s	
Display Points	All	
FE Connection Visibility		
Activate Visibility	Yes	
Display	All FE Connectors	
Draw Connections Attached To	All Nodes	
Line Color	Connection Type	
Visible on Results	No	
Line Thickness	Single	
Display Type	Lines	

TABLE 16
Model (A4) > Static Structural (A5) > Solution (A6) > Results

	WOOD (AT)	Otatio Oti actait		ito) · itoouito	
Object Name	Equivalent Stress	Total	X Directional	Y Directional	Z Directional
Ctata	Deformation Deformation Deformation			Delormation	
State			Solved		
0		5	cope		
Scoping Method			Geometry Selection	n	
Geometry			All Bodies		
		Def	inition		
Туре	Equivalent (von- Mises) Stress	Total Deformation	Di	rectional Deformation	on
Ву			Time		
Display Time			Last		
Separate Data by Entity	No				
Calculate Time History	Yes				
Identifier					
Suppressed			No		
Orientation			X Axis	Y Axis	Z Axis
Coordinate System			Glo	bal Coordinate Sys	tem
		Integration	Point Results		
Display Option	Averaged				
Average Across Bodies	No				
		Re	sults		
Minimum	58704 Pa	0. m	-1.3008e-005 m	-3.3698e-003 m	-1.7566e-004 m

Project* Page 12 of 37

Maximum	2.6224e+008 Pa	3.3698e-003 m	1.3811e-005 m	1.1626e-005 m	1.9832e-004 m
Average	5.0257e+007 Pa	1.357e-003 m	5.4489e-007 m	-1.3522e-003 m	1.1657e-005 m
Minimum Occurs On	Solid				
Maximum Occurs On	Solid				
	Information				
Time	1. s				
Load Step	1				
Substep	1				
Iteration Number	1				

FIGURE 4
Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress

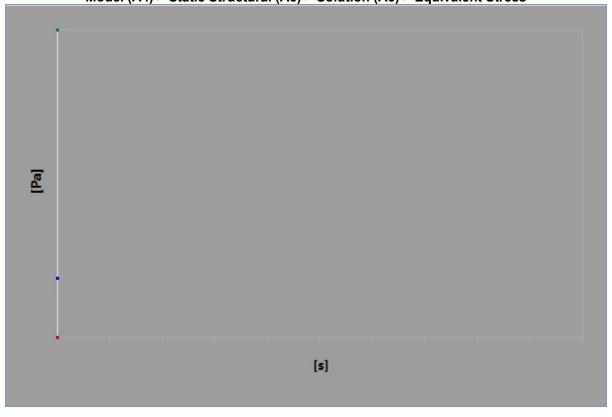


TABLE 17
Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress

	Time [s]	Minimum [Pa]	Maximum [Pa]	Average [Pa]
ſ	1.	58704	2.6224e+008	5.0257e+007

FIGURE 5
Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress > Equivalent Stress

Project* Page 13 of 37

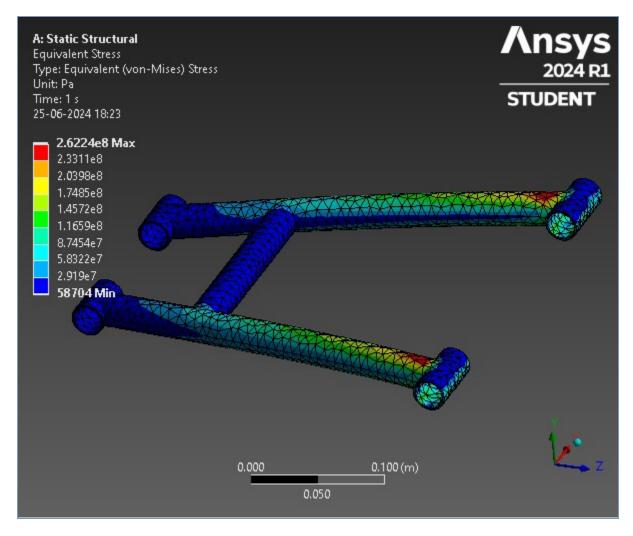


FIGURE 6
Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation

Project* Page 14 of 37

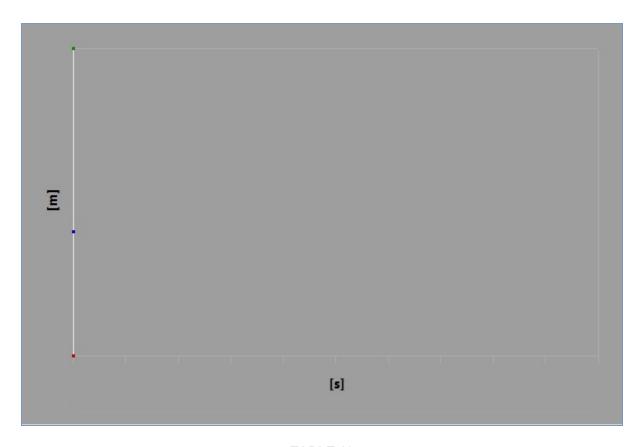


 TABLE 18

 Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation

 Time [s]
 Minimum [m]
 Maximum [m]
 Average [m]

 1.
 0.
 3.3698e-003
 1.357e-003

FIGURE 7
Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation

Project* Page 15 of 37

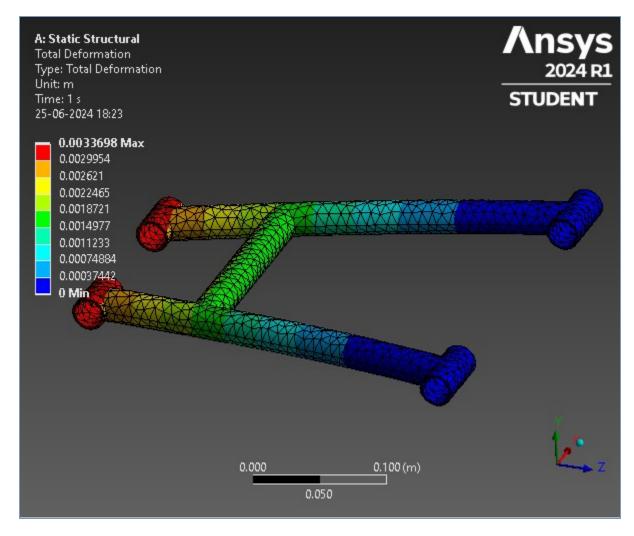


FIGURE 8
Model (A4) > Static Structural (A5) > Solution (A6) > X Directional Deformation

Project* Page 16 of 37

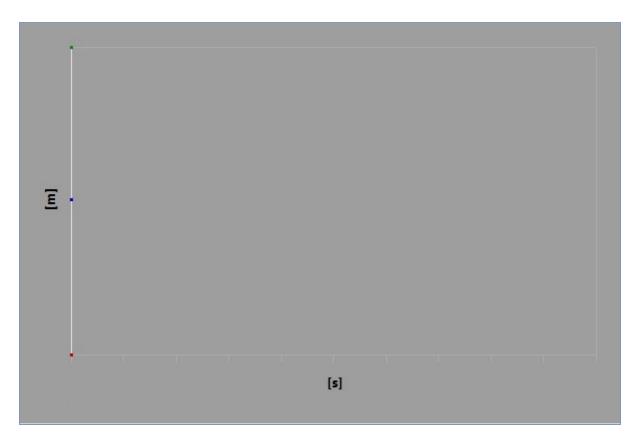


 TABLE 19

 Model (A4) > Static Structural (A5) > Solution (A6) > X Directional Deformation

 Time [s]
 Minimum [m]
 Maximum [m]
 Average [m]

 1.
 -1.3008e-005
 1.3811e-005
 5.4489e-007

FIGURE 9
Model (A4) > Static Structural (A5) > Solution (A6) > X Directional Deformation > Figure

Project* Page 17 of 37

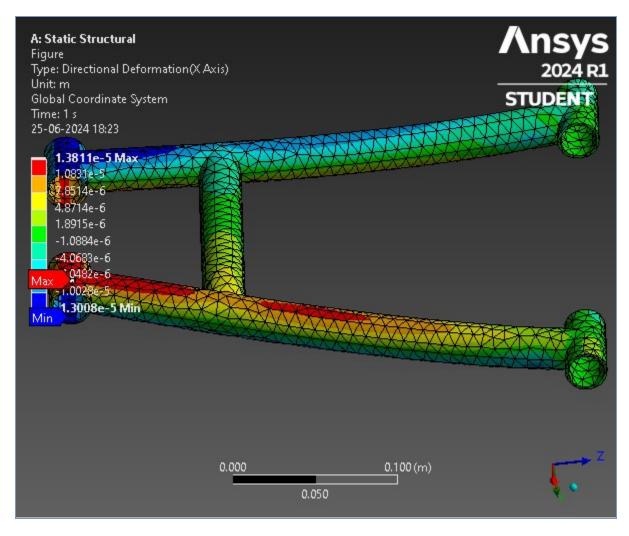


FIGURE 10
Model (A4) > Static Structural (A5) > Solution (A6) > Y Directional Deformation

Project* Page 18 of 37

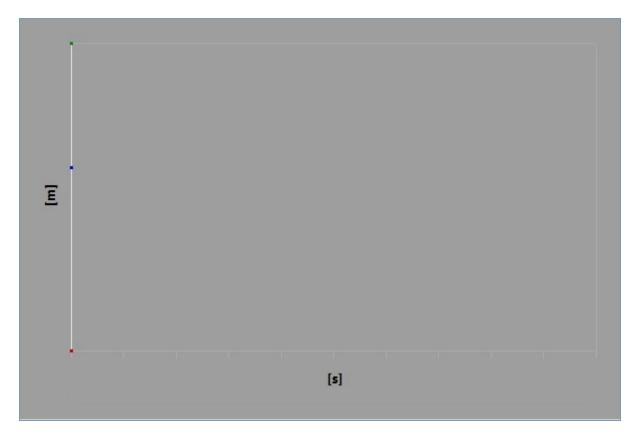


 TABLE 20

 Model (A4) > Static Structural (A5) > Solution (A6) > Y Directional Deformation

 Time [s]
 Minimum [m]
 Maximum [m]
 Average [m]

 1.
 -3.3698e-003
 1.1626e-005
 -1.3522e-003

FIGURE 11
Model (A4) > Static Structural (A5) > Solution (A6) > Y Directional Deformation > Figure

Project* Page 19 of 37

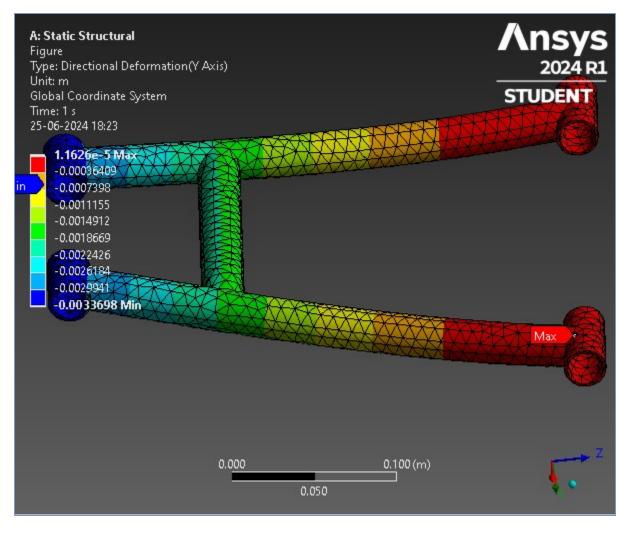


FIGURE 12
Model (A4) > Static Structural (A5) > Solution (A6) > Z Directional Deformation

Project* Page 20 of 37

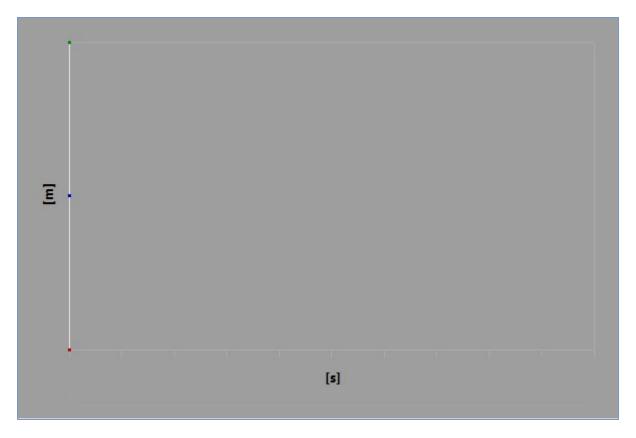


 TABLE 21

 Model (A4) > Static Structural (A5) > Solution (A6) > Z Directional Deformation

 Time [s]
 Minimum [m]
 Maximum [m]
 Average [m]

 1.
 -1.7566e-004
 1.9832e-004
 1.1657e-005

FIGURE 13
Model (A4) > Static Structural (A5) > Solution (A6) > Z Directional Deformation > Figure

Project* Page 21 of 37

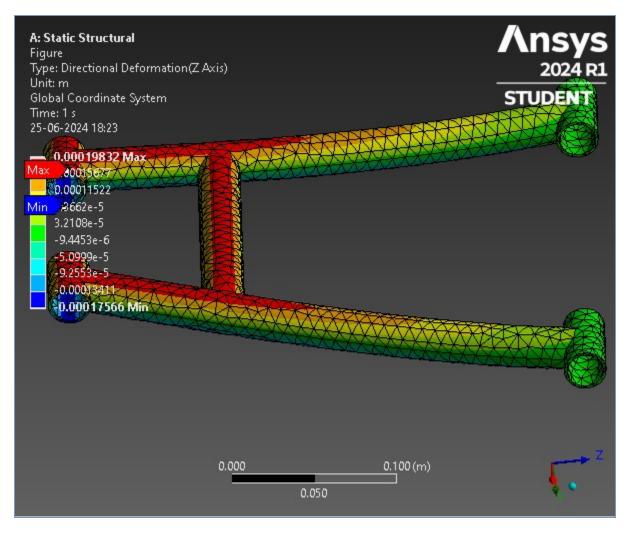


TABLE 22
Model (A4) > Static Structural (A5) > Solution (A6) > Stress Safety Tools

Otatic Otractarar (Auj - Goldtioli (Auj - Giless		
Object Name	Max Equivalent Stress Tool		
State	Solved		
Definition			
Theory Max Equivalent Stress			
Stress Limit Type	Tensile Yield Per Material		

TABLE 23
Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Results

2	· · · ·	
Object Name	Safety Factor	Safety Margin
State	Sol	lved
	Scope	
Scoping Method	Geometry	/ Selection
Geometry	All B	odies
Definition		
Туре	Safety Factor Safety Margi	
Ву	Time	
Display Time	La	ast
Separate Data by Entity	No	
Calculate Time History	Yes	
Identifier	r	
Suppressed	No	

Project* Page 22 of 37

Integration Point Results			
Display Option	Aver	aged	
Average Across Bodies	N	lo	
R	Results		
Minimum	2.7455 1.7455		
Minimum Occurs On	Solid		
Info	ormation		
Time	1. s		
Load Step	1		
Substep	1		
Iteration Number	1		

FIGURE 14

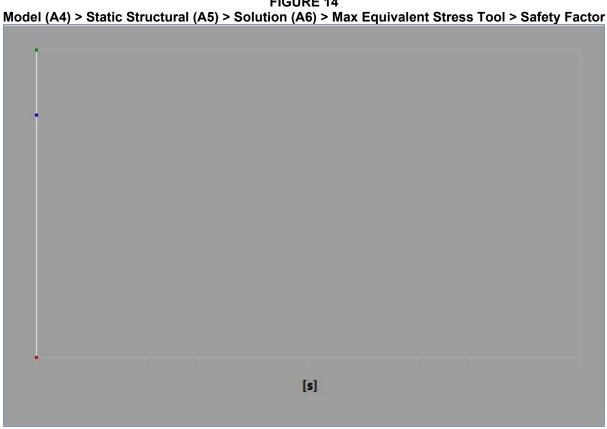


TABLE 24 Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Safety Factor

Time [s]	Minimum	Maximum	Average
1.	2.7455	15.	12.393

FIGURE 15

Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Safety Factor > Figure

Project* Page 23 of 37

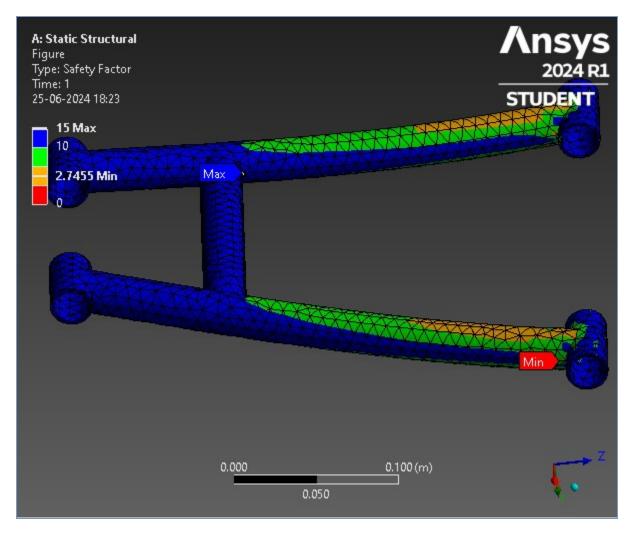


FIGURE 16
Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Safety Margin

Project* Page 24 of 37

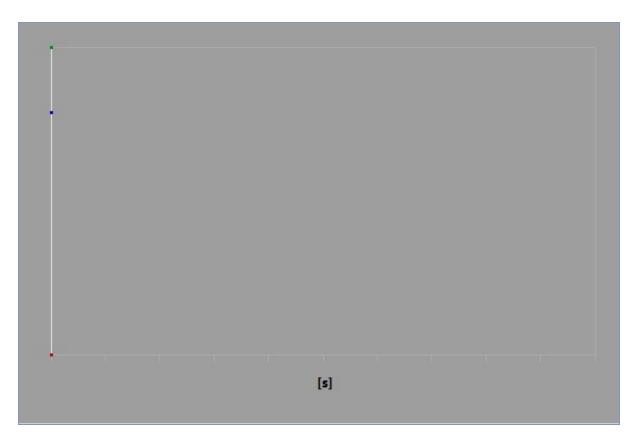


TABLE 25

Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Safety Margin

Time [s] Minimum Maximum Average

1. 1.7455 14. 11.393

FIGURE 17
Model (A4) > Static Structural (A5) > Solution (A6) > Max Equivalent Stress Tool > Safety Margin > Figure

Project* Page 25 of 37

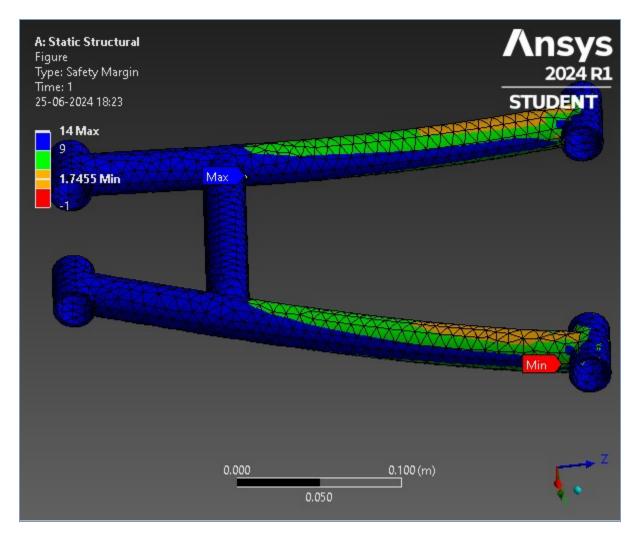


TABLE 26
Model (A4) > Static Structural (A5) > Solution (A6) > Stress Safety Tools

Object Name	Max Sheer Stress Tool		
State	Solved		
Definition			
Theory	Max Shear Stress		
Factor	0.5		
Stress Limit Type	Tensile Yield Per Material		

TABLE 27
Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Results

Object Name	Safety Factor	Safety Margin	
State	Sol	lved	
	Scope		
Scoping Method	Geometry	/ Selection	
Geometry	All Bodies		
Definition			
Type Safety Factor Sa		Safety Margin	
Ву	Ti	me	
Display Time	La	ast	
Separate Data by Entity	/ No		
Calculate Time History	Yes		
Identifier			

Project* Page 26 of 37

Suppressed No			
Integration Point Results			
Display Option	Aver	aged	
Average Across Bodies	١	lo	
Results			
Minimum	2.7121 1.7121		
Minimum Occurs On	Solid		
Info	ormation		
Time	1	. S	
Load Step	1		
Substep	1		
Iteration Number	1		

FIGURE 18
Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Factor

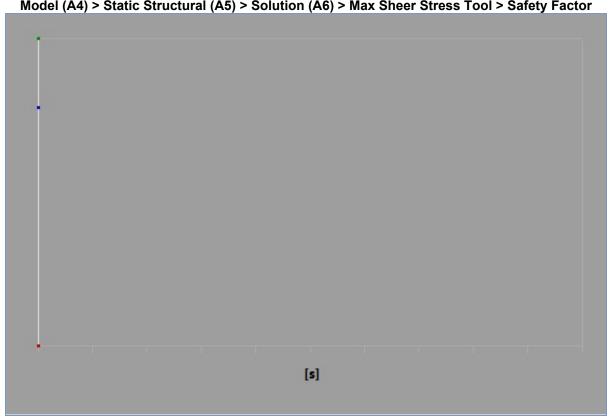


TABLE 28

Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Factor

Time [s] Minimum Maximum Average

Time [s]	Minimum	Maximum	Average
1.	2.7121	15.	12.257

FIGURE 19
Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Factor > Figure

Project* Page 27 of 37

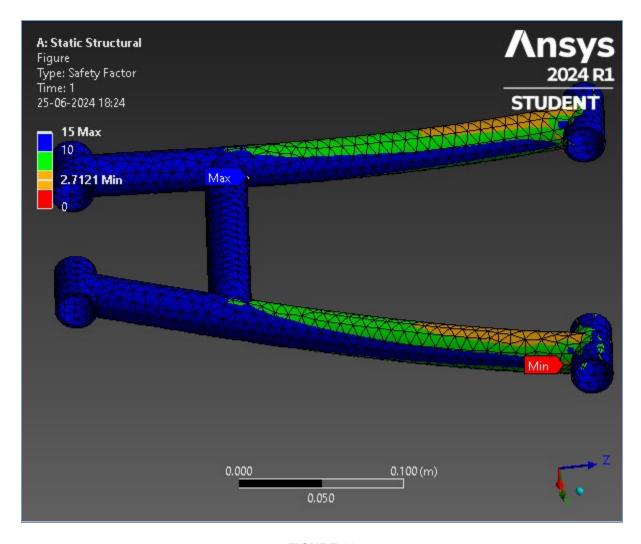


FIGURE 20 Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Margin

Project* Page 28 of 37

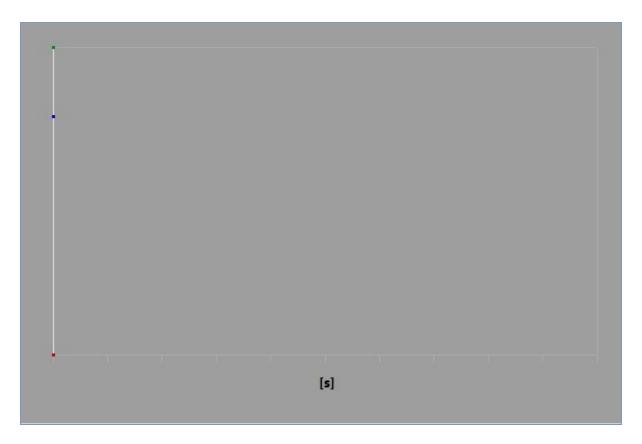


TABLE 29

Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Margin

Time [s] Minimum Maximum Average

1. 1.7121 14. 11.257

FIGURE 21
Model (A4) > Static Structural (A5) > Solution (A6) > Max Sheer Stress Tool > Safety Margin > Figure

Project* Page 29 of 37

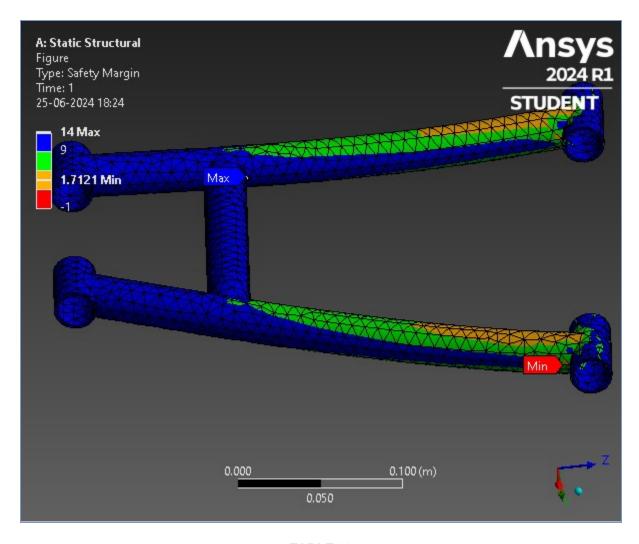


TABLE 30
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tools

Object Name	Fatigue Tool		
State	Solved		
Domain			
Domain Type	Time		
Materia	als		
Fatigue Strength Factor (Kf)	1.		
Loading			
Туре	Fully Reversed		
Scale Factor	1.		
Definition			
Display Time	End Time		
Options			
Analysis Type	Stress Life		
Mean Stress Theory	None		
Stress Component	Equivalent (von-Mises)		
Life Units			
Units Name	cycles		
1 cycle is equal to	1. cycles		

FIGURE 22 Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool

Project* Page 30 of 37

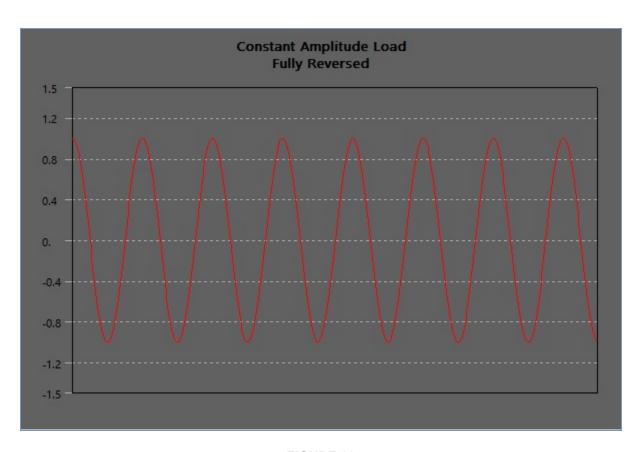


FIGURE 23 Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool

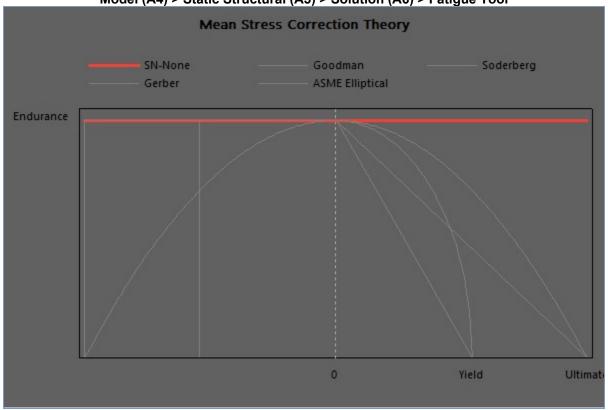


TABLE 31

Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Results

Object Name	Equivalent Alternating Stress Life		Safety Factor
State	Solved		
	Scope		
Scoping Method	Geom	etry Selection	
Geometry	All Bodies	48 Faces	All Bodies
	Definition		
Туре	Equivalent Alternating Stress	Life	Safety Factor
Identifier			
Suppressed			
Design Life		1.e+009 cycles	
Results			
Minimum	58704 Pa	2.7144e+006 cycles	0.83891
Maximum	2.6224e+008 Pa		
Average	5.0257e+007 Pa		
Minimum Occurs On		Solid	
Maximum Occurs On	Solid		

FIGURE 24
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Equivalent Alternating Stress

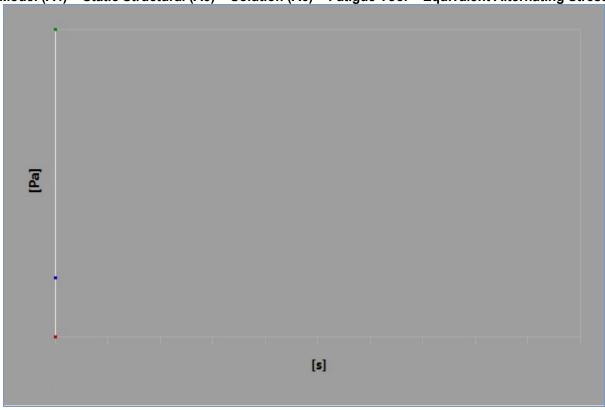


TABLE 32

Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Equivalent Alternating Stress

Time [s] Minimum [Pa] Maximum [Pa] Average [Pa]

1. 58704 2.6224e+008 5.0257e+007

FIGURE 25
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Equivalent Alternating Stress > Figure

Project* Page 32 of 37

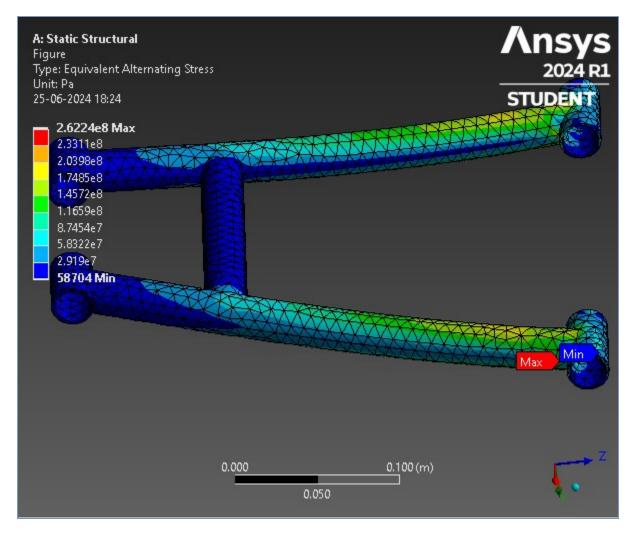


FIGURE 26
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Life

Project* Page 33 of 37

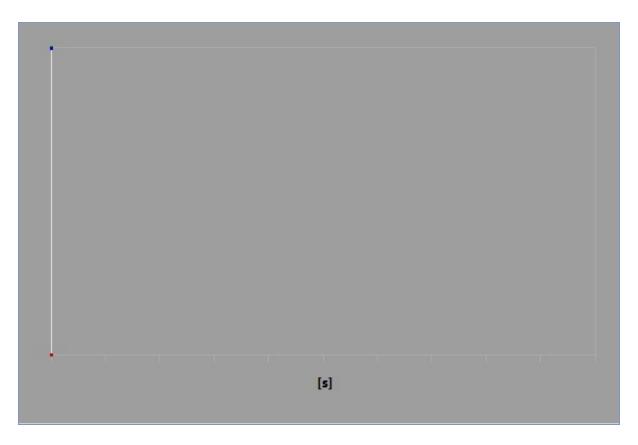


TABLE 33
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Life

Time [s]	Minimum	Maximum	Average
1.	2.7144e+006	1.e+008	9.9593e+007

FIGURE 27
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Life > Figure

Project* Page 34 of 37

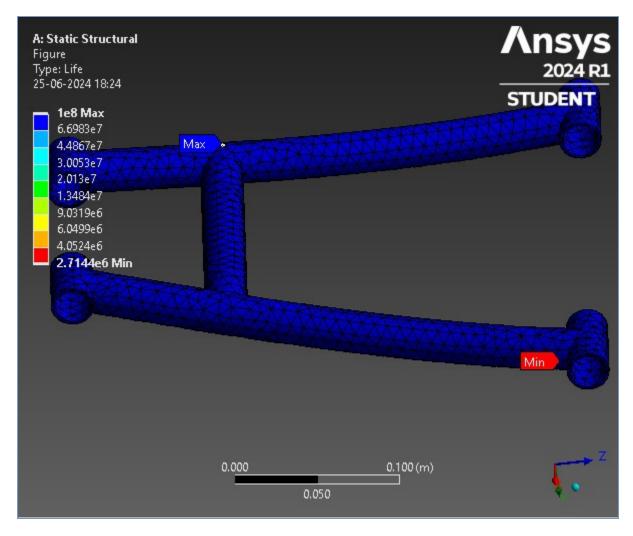


FIGURE 28
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Safety Factor

Project* Page 35 of 37

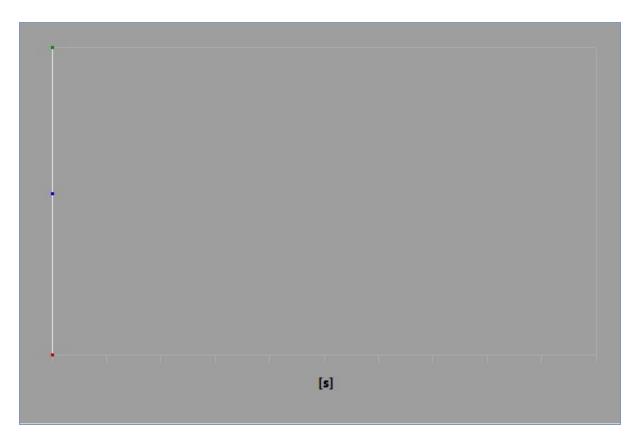


TABLE 34

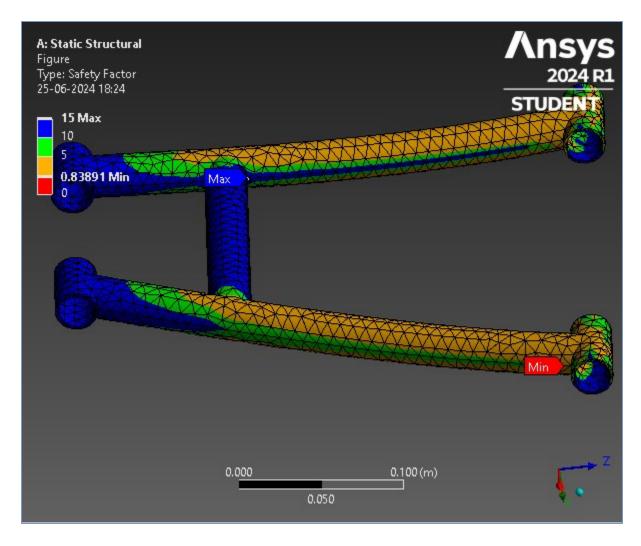
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Safety Factor

Time [s] Minimum Maximum Average

1. 0.83891 15. 8.2828

FIGURE 29
Model (A4) > Static Structural (A5) > Solution (A6) > Fatigue Tool > Safety Factor > Figure

Project* Page 36 of 37



Material Data

Chromoly

TABLE 35 Chromoly > Constants

Density	7850 kg m^-3
Coefficient of Thermal Expansion	1.12e+007 C^-1

TABLE 36 Chromoly > Color

Red	Green	Blue
181	155	130

TABLE 37 Chromoly > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa	Temperature C
2.056e+011	0.285	1.5938e+011	8.e+010	

TABLE 38 Chromoly > Tensile Yield Strength

Tensile Yield Strength Pa

Project* Page 37 of 37

7.2e+008

TABLE 39 Chromoly > Tensile Ultimate Strength Tensile Ultimate Strength Pa

8.4e+008

TABLE 40 Chromoly > S-N Curve

Alternating Stress Pa	Cycles
3.e+008	1.e+006
2.2e+008	1.e+007
2.2e+008	1.e+008