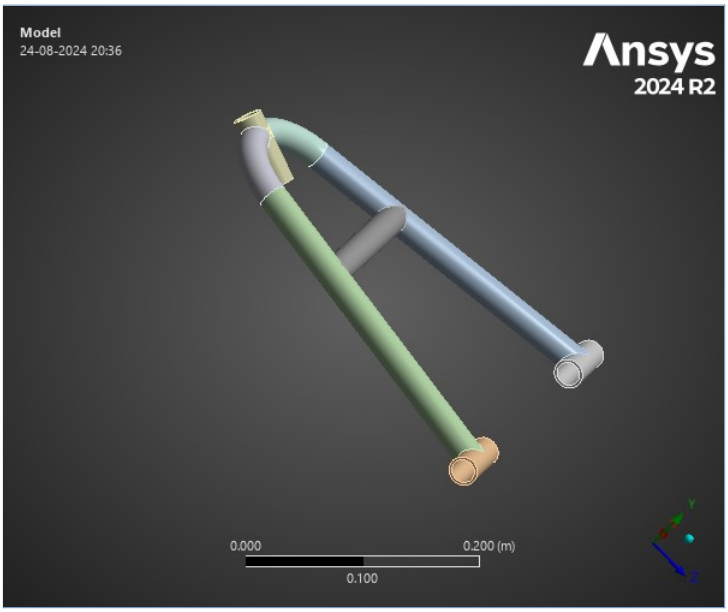
# Project*

| | |
|---|---|
| First Saved | Saturday, August 24, 2024 |
| Last Saved | Saturday, August 24, 2024 |
| Product Version | 2024 R2 |
| Save Project Before Solution | No |
| Save Project After Solution | No |



## Contents



## 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**

| Object Name | *Geometry Imports* |
|---|---|
| State | Solved |

**TABLE 3**
**Model (A4) > Geometry Imports > Geometry Import (A3)**

| | |
|---|---|
| Object Name | *Geometry Import (A3)* |
| State | Solved |
| **Definition** | |
| Source | C:\Users\Hrishi\Downloads\Front Lower A Arm\Front Lower A Arm.SLDPRT |
| Type | SOLIDWORKS |
| **Basic Geometry Options** | |
| Solid Bodies | Yes |
| Surface Bodies | Yes |
| Line Bodies | No |
| Parameters | Independent |
| Parameter Key | ANS;DS |
| Attributes | No |
| Named Selections | No |
| Material Properties | No |
| **Advanced Geometry Options** | |
| Use Associativity | Yes |
| Coordinate Systems | No |
| Reader Mode Saves Updated File | No |
| Use Instances | Yes |
| Smart CAD Update | Yes |
| Compare Parts On Update | No |
| Analysis Type | 3-D |
| Mixed Import Resolution | None |
| Import Facet Quality | Source |
| Clean Bodies On Import | No |
| Stitch Surfaces On Import | None |
| Decompose Disjoint Geometry | Yes |
| Enclosure and Symmetry Processing | Yes |

### *Geometry*

**TABLE 4**
**Model (A4) > Geometry**

| | |
|---|---|
| Object Name | *Geometry* |
| State | Fully Defined |
| **Definition** | |
| Source | C:\Users\Hrishi\Downloads\Front Lower A Arm\Front Lower A Arm.SLDPRT |
| Type | SOLIDWORKS |
| Length Unit | Meters |

| | |
|---|---|
| Element Control | Program Controlled |
| Display Style | Body Color |
| **Bounding Box** | |
| Length X | 0.36 m |
| Length Y | 4.6146e-002 m |
| Length Z | 0.36584 m |
| **Properties** | |
| Volume | 1.9447e-004 m³ |
| Mass | 1.5266 kg |
| Scale Factor Value | 1. |
| **Statistics** | |
| Bodies | 10 |
| Active Bodies | 10 |
| Nodes | 35299 |
| Elements | 17260 |
| Mesh Metric | None |
| **Update Options** | |
| Assign Default Material | No |
| **Basic Geometry Options** | |
| Solid Bodies | Yes |
| Surface Bodies | Yes |
| Line Bodies | No |
| Parameters | Independent |
| Parameter Key | ANS;DS |
| Attributes | No |
| Named Selections | No |
| Material Properties | No |
| **Advanced Geometry Options** | |
| Use Associativity | Yes |
| Coordinate Systems | No |
| Reader Mode Saves Updated File | No |
| Use Instances | Yes |
| Smart CAD Update | Yes |
| Compare Parts On Update | No |
| Analysis Type | 3-D |
| Mixed Import Resolution | None |
| Import Facet Quality | Source |
| Clean Bodies On Import | No |
| Stitch Surfaces On Import | None |
| Decompose Disjoint Geometry | Yes |
| Enclosure and Symmetry Processing | Yes |

**TABLE 5**
**Model (A4) > Geometry > Body Groups**

| | |
|---|---|
| Object Name | *Front Lower A Arm* |
| State | Meshed |
| **Graphics Properties** | |
| Visible | Yes |
| **Definition** | |
| Suppressed | No |
| Assignment | Moksha |
| Coordinate System | Default Coordinate System |
| **Bounding Box** | |
| Length X | 0.36 m |
| Length Y | 4.6146e-002 m |
| Length Z | 0.36584 m |
| **Properties** | |
| Volume | 1.9447e-004 m³ |
| Mass | 1.5266 kg |
| Centroid X | 0.29985 m |
| Centroid Y | -3.0095e-004 m |
| Centroid Z | -0.17365 m |
| Moment of Inertia Ip1 | 1.7543e-002 kg·m² |
| Moment of Inertia Ip2 | 3.1776e-002 kg·m² |
| Moment of Inertia Ip3 | 1.4445e-002 kg·m² |
| **Statistics** | |
| Nodes | 35299 |
| Elements | 17260 |
| Mesh Metric | None |

**TABLE 6**
**Model (A4) > Geometry > Front Lower A Arm > Parts**

| Object Name | *Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[8]* | *Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[5]* | *Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[1]* | *Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNES (1)[7]* |
|---|---|---|---|---|
| State | Meshed | | | |
| **Graphics Properties** | | | | |
| Visible | Yes | | | |
| Transparency | 1 | | | |
| **Definition** | | | | |
| Suppressed | No | | | |
| Stiffness Behavior | Flexible | | | |
| Coordinate System | Default Coordinate System | | | |
| Reference Temperature | By Environment | | | |
| Treatment | None | | | |
| **Material** | | | | |

| | | | | |
|---|---|---|---|---|
| Assignment | | | | Moksha |
| Nonlinear Effects | | | | Yes |
| Thermal Strain Effects | | | | Yes |
| | | | | **Bounding Box** |
| Length X | 6.e-002 m | 0.10759 m | | 6.e-002 m |
| Length Y | 2.54e-002 m | | | |
| Length Z | 2.54e-002 m | 0.28753 m | | 2.54e-002 m |
| | | | | **Properties** |
| Volume | 1.0791e-005 m³ | 5.1586e-005 m³ | 5.1585e-005 m³ | 1.0791e-005 m³ |
| Mass | 8.4712e-002 kg | 0.40495 kg | 0.40494 kg | 8.4712e-002 kg |
| Centroid X | 0.44985 m | 0.40551 m | 0.1942 m | 0.14985 m |
| Centroid Y | 3.8158e-018 m | 6.5074e-006 m | -6.5111e-006 m | 3.6958e-019 m |
| Centroid Z | 1.5392e-006 m | -0.14653 m | | 1.5392e-006 m |
| Moment of Inertia Ip1 | 1.1176e-005 kg·m² | 2.7795e-003 kg·m² | | 1.1176e-005 kg·m² |
| Moment of Inertia Ip2 | 3.0953e-005 kg·m² | 2.7793e-003 kg·m² | | 3.0953e-005 kg·m² |
| Moment of Inertia Ip3 | 3.0955e-005 kg·m² | 5.2787e-005 kg·m² | | 3.0955e-005 kg·m² |
| | | | | **Statistics** |
| Nodes | 2029 | 9550 | 9595 | 2039 |
| Elements | 976 | 4730 | 4750 | 980 |
| Mesh Metric | | | | None |

**TABLE 7**
**Model (A4) > Materials**

| Object Name | *Materials* |
|---|---|
| State | Fully Defined |
| **Statistics** | |
| Materials | 2 |
| Material Assignments | 0 |

## *Coordinate Systems*

**TABLE 8**
**Model (A4) > Coordinate Systems > Coordinate System**

| Object Name | *Global Coordinate System* |
|---|---|
| State | Fully Defined |
| **Definition** | |
| Type | 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. ] |
| Y Axis Data | [ 0. 1. 0. ] |
| Z Axis Data | [ 0. 0. 1. ] |
| **Transfer Properties** | |
| Source | |
| Read Only | No |

## *Connections*

**TABLE 9**
**Model (A4) > Connections**

| Object Name | *Connections* |
|---|---|
| State | Fully Defined |
| **Auto Detection** | |
| Generate Automatic Connection On Refresh | Yes |
| **Transparency** | |
| Enabled | Yes |
| **Statistics** | |
| Contacts | 12 |
| Active Contacts | 12 |
| Joints | 0 |
| Active Joints | 0 |
| Beams | 0 |
| Active Beams | 0 |
| Bearings | 0 |
| Active Bearings | 0 |
| Springs | 0 |
| Active Springs | 0 |
| Body Interactions | 0 |
| Active Body Interactions | 0 |

**TABLE 10**
**Model (A4) > Connections > Contacts**

| Object Name | *Contacts* |
|---|---|
| State | Fully Defined |
| **Definition** | |
| Connection Type | Contact |
| **Scope** | |
| Scoping Method | Geometry Selection |
| Geometry | All Bodies |
| **Auto Detection** | |
| Tolerance Type | Slider |
| Tolerance Slider | 0. |
| Tolerance Value | 1.2883e-003 m |
| Use Range | No |
| Face/Face | Yes |
| Face-Face Angle Tolerance | 75. ° |
| Face Overlap Tolerance | Off |
| Cylindrical Faces | Include |
| Face/Edge | No |
| Edge/Edge | No |
| Priority | Include All |
| Group By | Bodies |
| Search Across | Bodies |
| **Statistics** | |
| Connections | 12 |
| Active Connections | 12 |

**TABLE 11**
**Model (A4) > Connections > Contacts > Contact Regions**

| Object Name | *Contact Region* | *Contact Region 2* | *Contact Region 3* | *Contact Region 4* | *Contact Region 5* | *Contact Re* |
|---|---|---|---|---|---|---|
| State | Fully Defined | | | | | |
| **Scope** | | | | | | |
| Scoping Method | Geometry Selection | | | | | |
| Contact | 1 Face | | | | | |
| Target | 1 Face | | | | | |
| Contact Bodies | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[8] | | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1)[5] | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1) | | |
| Target Bodies | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[5] | Cut-Extrude3 [1] | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[6] | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS (1)[7] | Cut-Extrude3 [2] | Al round t 25.4MM_OD_2.5MM_W (1)[6 |
| Protected | No | | | | | |
| **Definition** | | | | | | |
| Type | Bonded | | | | | |
| Scope Mode | Automatic | | | | | |
| Behavior | Program Controlled | | | | | |
| Trim Contact | Program Controlled | | | | | |
| Trim Tolerance | 1.2883e-003 m | | | | | |
| Contact APDL Name | | | | | | |
| Target APDL Name | | | | | | |
| Suppressed | No | | | | | |
| **Display** | | | | | | |
| Element Normals | No | | | | | |
| **Advanced** | | | | | | |
| Formulation | Program Controlled | | | | | |
| Small Sliding | Program Controlled | | | | | |
| Detection Method | Program Controlled | | | | | |
| Penetration Tolerance | Program Controlled | | | | | |
| Elastic Slip Tolerance | Program Controlled | | | | | |
| Normal Stiffness | Program Controlled | | | | | |
| Update Stiffness | Program Controlled | | | | | |
| Pinball Region | Program Controlled | | | | | |
| **Geometric Modification** | | | | | | |
| Contact Geometry Correction | None | | | | | |
| Target Geometry Correction | None | | | | | |

**TABLE 12**
**Model (A4) > Connections > Contacts > Contact Regions**

| Object Name | *Contact Region 12* |
|---|---|
| State | Fully Defined |

| Scope | |
|---|---|
| Scoping Method | Geometry Selection |
| Contact | 1 Face |
| Target | 1 Face |
| Contact Bodies | Cut-Extrude3[2] |
| Target Bodies | Cut-Extrude1[4] |
| Protected | No |
| **Definition** | |
| Type | Bonded |
| Scope Mode | Automatic |
| Behavior | Program Controlled |
| Trim Contact | Program Controlled |
| Trim Tolerance | 1.2883e-003 m |
| Contact APDL Name | |
| Target APDL Name | |
| Suppressed | No |
| **Display** | |
| Element Normals | No |
| **Advanced** | |
| Formulation | Program Controlled |
| Small Sliding | Program Controlled |
| Detection Method | Program Controlled |
| Penetration Tolerance | Program Controlled |
| Elastic Slip Tolerance | Program Controlled |
| Normal Stiffness | Program Controlled |
| Update Stiffness | Program Controlled |
| Pinball Region | Program Controlled |
| **Geometric Modification** | |
| Contact Geometry Correction | None |
| Target Geometry Correction | None |

## *Mesh*

**TABLE 13**
**Model (A4) > Mesh**

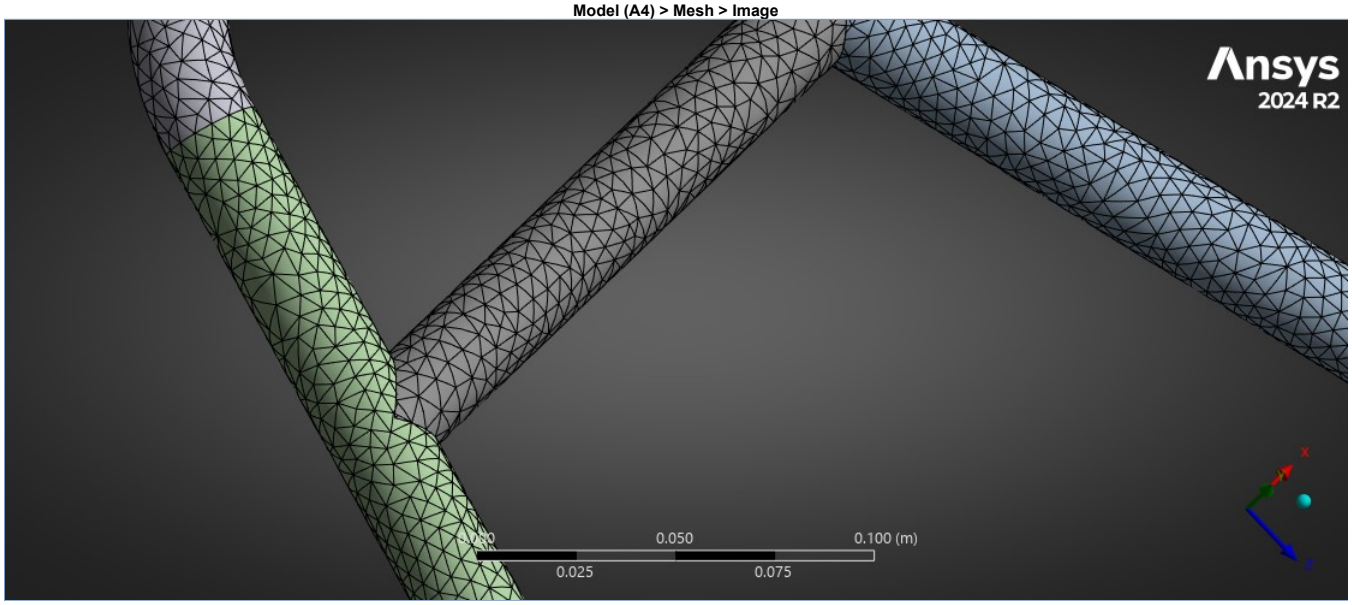
| Object Name | *Mesh* |
|---|---|
| State | Solved |
| **Display** | |
| Display Style | Use Geometry Setting |
| **Defaults** | |
| Physics Preference | Mechanical |
| Element Order | Program Controlled |
| Element Size | 5.e-003 m |
| **Sizing** | |
| Use Adaptive Sizing | Yes |
| Resolution | Default (2) |
| Mesh Defeaturing | Yes |
| Defeature Size | Default |
| Transition | Fast |
| Span Angle Center | Coarse |
| Initial Size Seed | Assembly |
| Bounding Box Diagonal | 0.51533 m |
| Average Surface Area | 3.282e-003 m² |
| Minimum Edge Length | 3.5562e-003 m |
| **Quality** | |
| Check Mesh Quality | Yes, Errors |
| Error Limits | Aggressive 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 | 35299 |
| Elements | 17260 |
| Show Detailed Statistics | No |

**TABLE 14**
**Model (A4) > Mesh > Mesh Controls**

| Object Name | *Patch Conforming Method* |
|---|---|
| State | Fully Defined |
| **Scope** | |
| Scoping Method | Geometry Selection |

| | |
|---|---|
| Geometry | 10 Bodies |
| **Definition** | |
| Suppressed | No |
| Method | Tetrahedrons |
| Algorithm | Patch Conforming |
| Element Order | Use Global Setting |
| **Advanced Improve Options** | |
| Aggressive Thin Face Collapse | Program Controlled |
| Automatic Node Movement | Program Controlled |
| **Refinement Options** | |
| Refine at Thin Section | No |

**FIGURE 1**
**Model (A4) > Mesh > Image**




## Static Structural (A5)

**TABLE 15**
**Model (A4) > Analysis**

| | |
|---|---|
| Object Name | *Static Structural (A5)* |
| State | Solved |
| **Definition** | |
| Physics Type | Structural |
| Analysis Type | Static Structural |
| Solver Target | Mechanical APDL |
| **Options** | |
| Environment Temperature | 22. °C |
| Generate Input Only | No |

**TABLE 16**
**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 Points | Program Controlled |
| Retain Files After Full Solve | No |
| Combine Restart Files | Program Controlled |
| **Nonlinear Controls** | |
| Newton-Raphson Option | Program Controlled |
| Force Convergence | Program Controlled |
| Moment Convergence | Program Controlled |
| Displacement Convergence | Program Controlled |
| Rotation Convergence | Program Controlled |
| Line Search | Program Controlled |
| Stabilization | Program Controlled |

| Advanced | |
|---|---|
| Inverse Option | No |
| Contact Split (DMP) | Program Controlled |
| **Output Controls** | |
| Output Selection | None |
| Stress | Yes |
| Back Stress | No |
| Strain | Yes |
| Contact Data | Yes |
| Nonlinear Data | No |
| Nodal Forces | No |
| Volume and Energy | Yes |
| Euler Angles | Yes |
| 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\Hrishi\AppData\Local\Temp\WB_Hrishi_28520_2\wbnew_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) > Image**

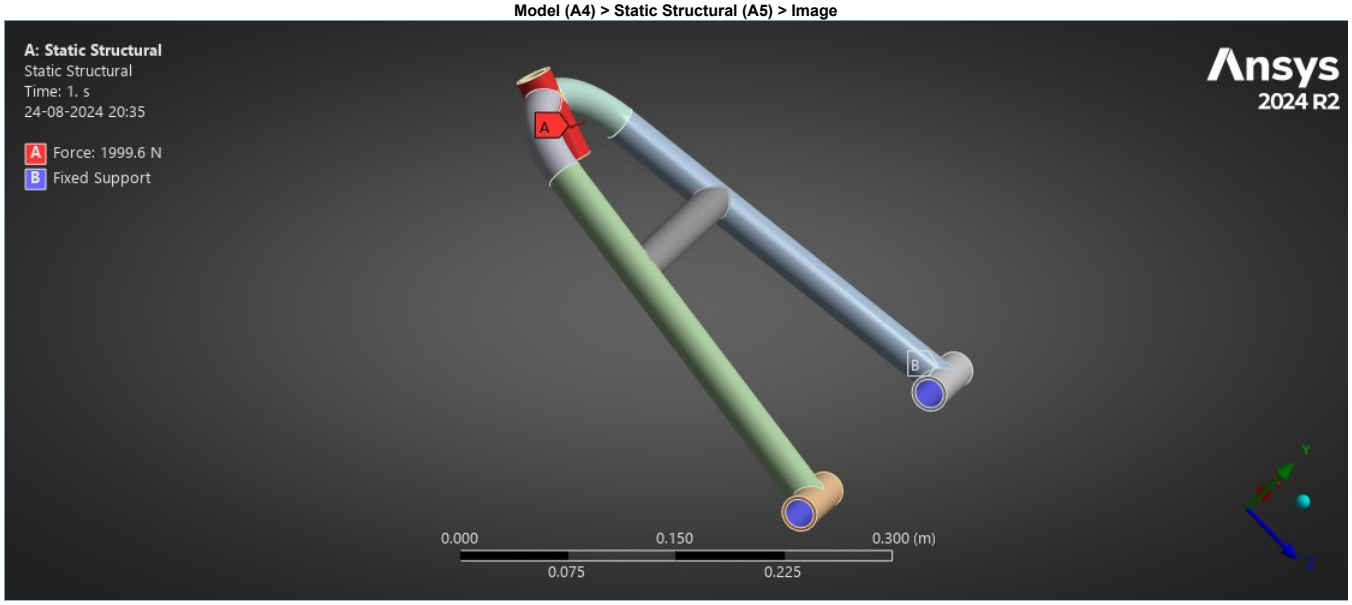
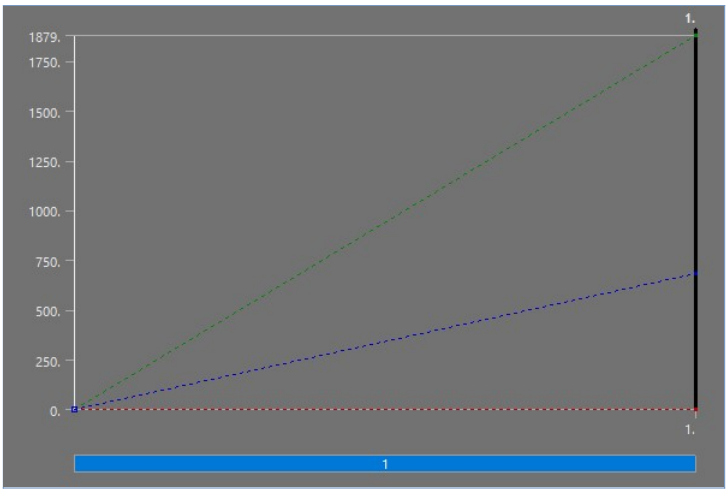



**TABLE 17**
**Model (A4) > Static Structural (A5) > Loads**

| Object Name | *Force* | *Fixed Support* |
|---|---|---|
| State | Fully Defined | |
| **Scope** | | |
| Scoping Method | Geometry Selection | |
| Geometry | 1 Face | 2 Faces |
| **Definition** | | |
| Type | Force | Fixed Support |
| Define By | Components | |
| Applied By | Surface Effect | |
| Coordinate System | Global Coordinate System | |
| X Component | 0. N (ramped) | |
| Y Component | 1879. N (ramped) | |
| Z Component | 684. N (ramped) | |
| Suppressed | No | |

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




### *Solution (A6)*

**TABLE 18**
**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 | 5. s |
| MAPDL Memory Used | 719. MB |
| MAPDL Result File Size | 11.75 MB |
| **Post Processing** | |
| Beam Section Results | No |
| On Demand Stress/Strain | No |

**TABLE 19**
**Model (A4) > Static Structural (A5) > Solution (A6) > Solution Information**

| Object Name | *Solution Information* |
|---|---|
| State | Solved |
| **Solution Information** | |
| 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 20**
**Model (A4) > Static Structural (A5) > Solution (A6) > Results**

| Object Name | *Total Deformation* | *Equivalent Stress* |
|---|---|---|
| State | Solved | |
| **Scope** | | |
| Scoping Method | Geometry Selection | |
| Geometry | All Bodies | |
| **Definition** | | |
| Type | Total Deformation | Equivalent (von-Mises) Stress |
| By | Time | |
| Display Time | Last | |
| Separate Data by Entity | No | |
| Calculate Time History | Yes | |
| Identifier | | |
| Suppressed | No | |
| **Results** | | |
| Minimum | 0. m | 147.28 Pa |
| Maximum | 4.978e-003 m | 2.9792e+008 Pa |
| Average | 1.8398e-003 m | 6.51e+007 Pa |
| Minimum Occurs On | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1)[8] | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1)[7] |
| Maximum Occurs On | Al round tubing 25.4MM_OD_3MM_WALL_THICKNESS(1) | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1)[5] |
| **Information** | | |
| Time | 1. s | |
| Load Step | 1 | |
| Substep | 1 | |
| Iteration Number | 1 | |
| **Integration Point Results** | | |

| | | |
|---|---|---|
| Display Option | | Averaged |
| Average Across Bodies | | No |

**FIGURE 4**
**Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation**

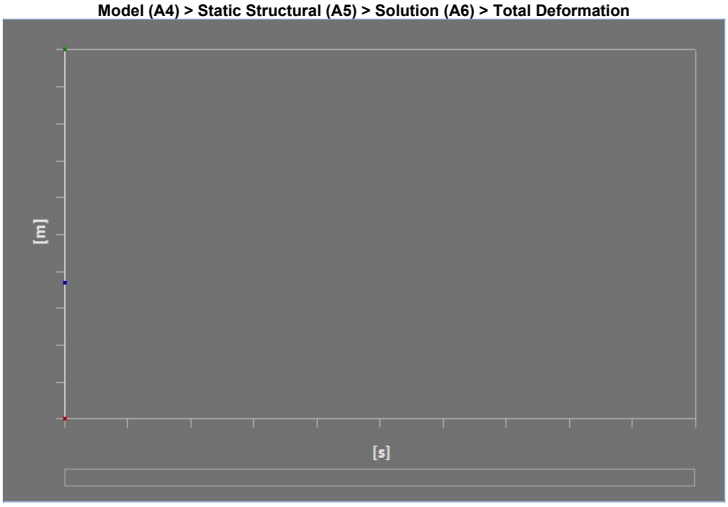



**TABLE 21**
**Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation**

| Time [s] | Minimum [m] | Maximum [m] | Average [m] |
|---|---|---|---|
| 1. | 0. | 4.978e-003 | 1.8398e-003 |

**FIGURE 5**
**Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation > Image**

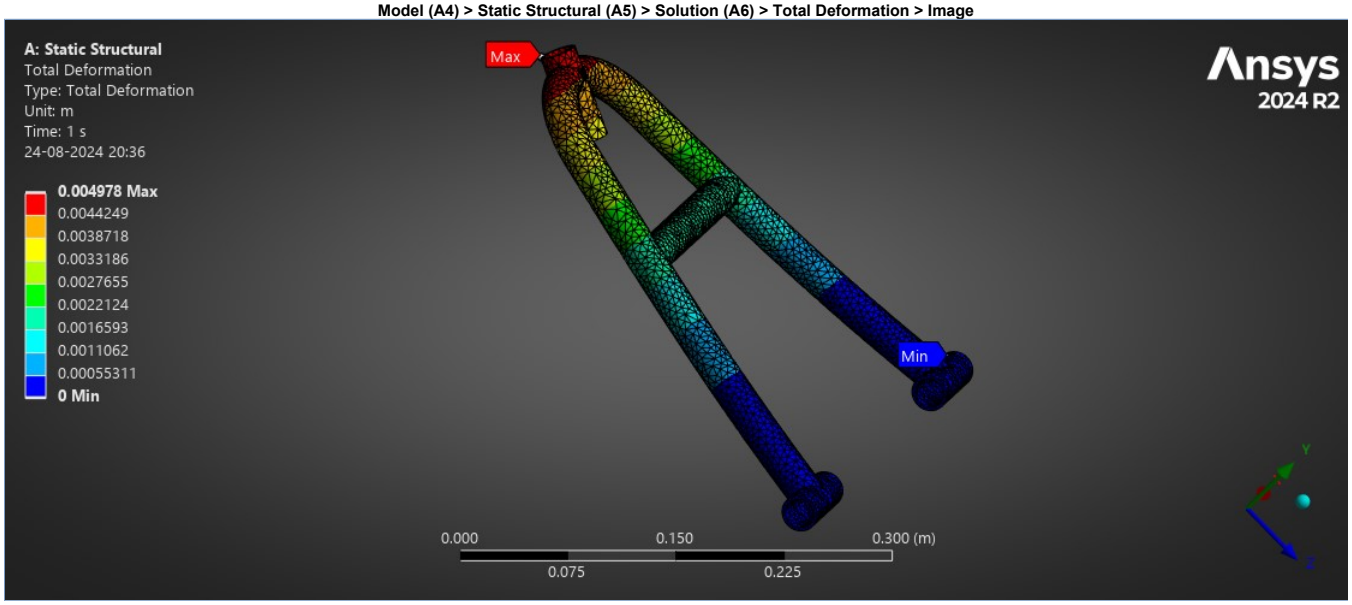



**FIGURE 6**
**Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress**

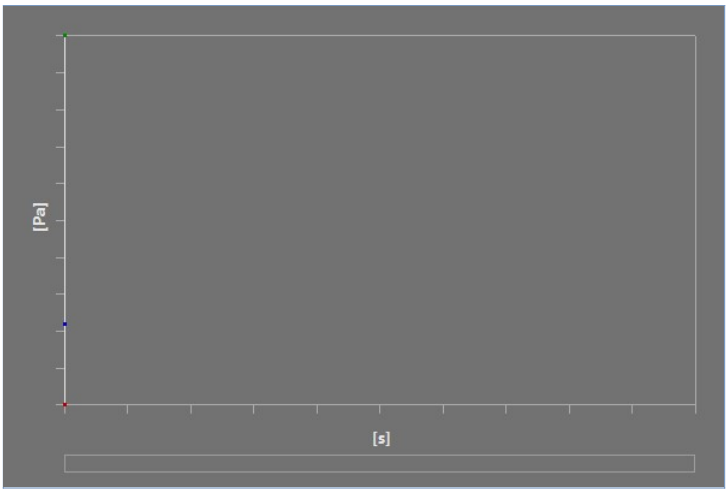



**TABLE 22**
**Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress**

| Time [s] | Minimum [Pa] | Maximum [Pa] | Average [Pa] |
|---|---|---|---|
| 1. | 147.28 | 2.9792e+008 | 6.51e+007 |

**FIGURE 7**
**Model (A4) > Static Structural (A5) > Solution (A6) > Equivalent Stress > Image**

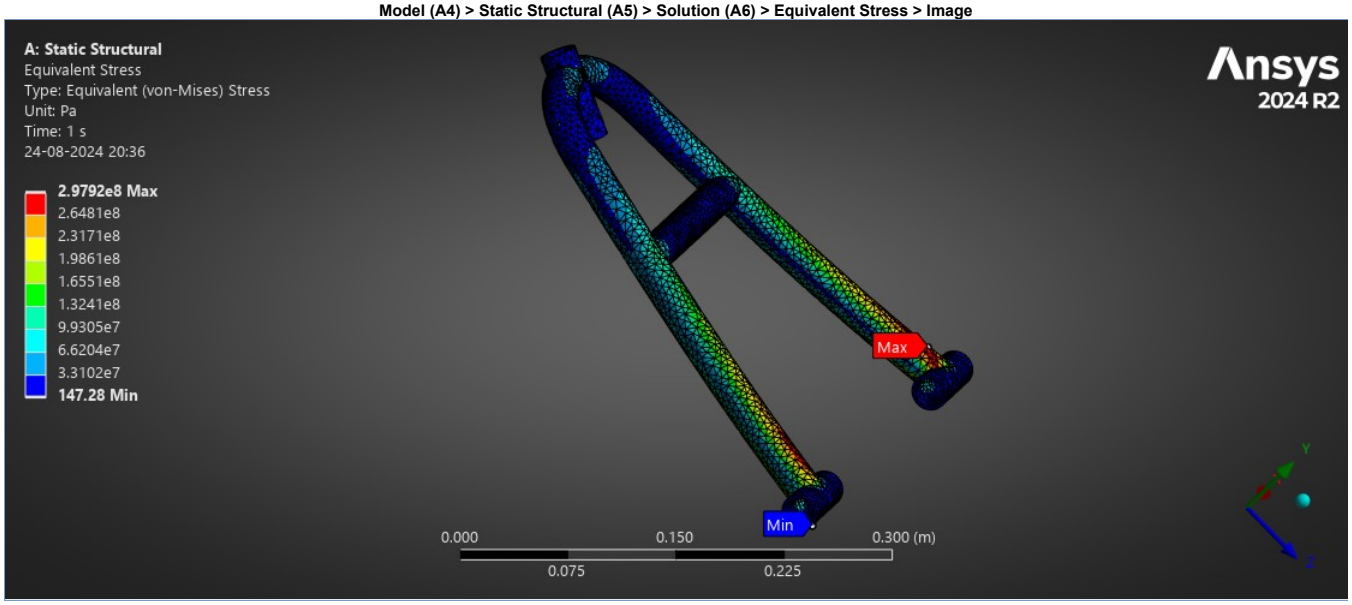



**TABLE 23**
**Model (A4) > Static Structural (A5) > Solution (A6) > Stress Safety Tools**

| Object Name | *Stress Tool* |
|---|---|
| State | Solved |
| **Definition** | |
| Theory | Max Equivalent Stress |
| Stress Limit Type | Tensile Yield Per Material |

**TABLE 24**
**Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Results**

| Object Name | *Safety Factor* |
|---|---|
| State | Solved |
| **Scope** | |
| Scoping Method | Geometry Selection |
| Geometry | All Bodies |
| **Definition** | |
| Type | Safety Factor |
| By | Time |
| Display Time | Last |
| Separate Data by Entity | No |
| Calculate Time History | Yes |
| Identifier | |
| Suppressed | No |
| **Integration Point Results** | |
| Display Option | Averaged |
| Average Across Bodies | No |
| **Results** | |
| Minimum | 1.5441 |

| | |
|---|---|
| Minimum Occurs On | Al round tubing 25.4MM_OD_2.5MM_WALL_THICKNESS(1)[5] |
| **Information** | |
| Time | 1. s |
| Load Step | 1 |
| Substep | 1 |
| Iteration Number | 1 |

**FIGURE 8**
**Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Safety Factor**

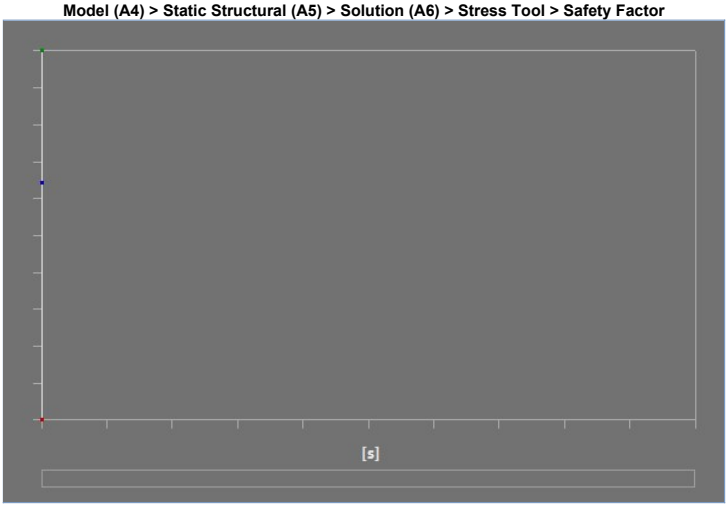
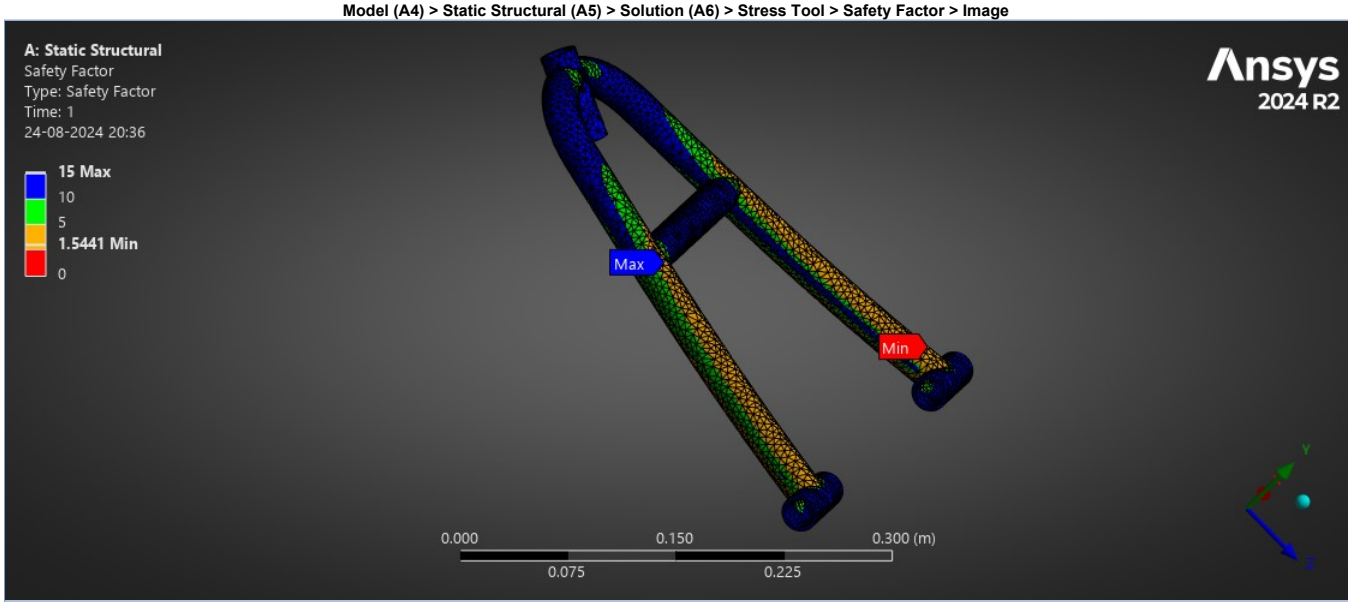



**TABLE 25**
**Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Safety Factor**

| Time [s] | Minimum | Maximum | Average |
|---|---|---|---|
| 1. | 1.5441 | 15. | 10.173 |

**FIGURE 9**
**Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Safety Factor > Image**




## Material Data

### *Moksha*

**TABLE 26**
**Moksha > Constants**

| | |
|---|---|
| Density | 7850 kg m^-3 |

**TABLE 27**
**Moksha > Color**

| Red | Green | Blue |
|---|---|---|
| 109 | 157 | 209 |

**TABLE 28**
**Moksha > Isotropic Elasticity**

| Young's Modulus Pa | Poisson's Ratio | Bulk Modulus Pa | Shear Modulus Pa | Temperature C |
|---|---|---|---|---|
| 2.016e+011 | 0.26 | 1.4e+011 | 8.e+010 | |

**TABLE 29**
**Moksha > Tensile Yield Strength**

| Tensile Yield Strength Pa |
| --- |
| 4.6e+008 |

**TABLE 30**
**Moksha > Tensile Ultimate Strength**

| Tensile Ultimate Strength Pa |
| --- |
| 5.6e+008 |