|  |  |  |  |
| --- | --- | --- | --- |
|  | |  | | --- | | **Simulation of FinalAssembly**  **Date: 20 June 2021 Designer: Shubham Kumar**  **Study name:FEA Analysis**  **Analysis type:Static** | | Table of Contents  [Description 1](#_Toc75111135)  [Assumptions 2](#_Toc75111136)  [Model Information 2](#_Toc75111137)  [Study Properties 5](#_Toc75111138)  [Units 5](#_Toc75111139)  [Material Properties 6](#_Toc75111140)  [Loads and Fixtures 7](#_Toc75111141)  [Connector Definitions 8](#_Toc75111142)  [Contact Information 10](#_Toc75111143)  [Mesh information 11](#_Toc75111144)  [Sensor Details 12](#_Toc75111145)  [Resultant Forces 13](#_Toc75111146)  [Beams 13](#_Toc75111147)  [Study Results 14](#_Toc75111148)  [Conclusion 16](#_Toc75111149) | |
| Description No Data |

|  |
| --- |
| Assumptions |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model Information  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   ****Model name:** FinalAssembly**  ****Current Configuration:** Default** | | | | | ****Solid Bodies**** | | | | | ****<L\_MdInf\_SldBd\_Nm/>**** | ****Treated As**** | ****Volumetric Properties**** | ****Document Path/Date Modified**** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.00573422 kg****  ****Volume:5.35909e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0561954 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm joint.SLDPRT****  **Jun 19 14:58:07 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.00573422 kg****  ****Volume:5.35909e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0561954 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm joint.SLDPRT****  **Jun 19 14:58:07 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.00573422 kg****  ****Volume:5.35909e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0561954 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm joint.SLDPRT****  **Jun 19 14:58:07 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.00573422 kg****  ****Volume:5.35909e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0561954 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm joint.SLDPRT****  **Jun 19 14:58:07 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.0150809 kg****  ****Volume:9.42554e-006 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.147793 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm.SLDPRT****  **Jun 20 11:42:40 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.0150809 kg****  ****Volume:9.42554e-006 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.147793 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm.SLDPRT****  **Jun 20 11:42:40 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.0150809 kg****  ****Volume:9.42554e-006 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.147793 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm.SLDPRT****  **Jun 20 11:42:40 2021** | | **Cut-Extrude1** | **Solid Body** | ****Mass:0.0150809 kg****  ****Volume:9.42554e-006 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.147793 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Arm.SLDPRT****  **Jun 20 11:42:40 2021** | | **Mirror2** | **Solid Body** | ****Mass:0.0318743 kg****  ****Volume:1.99215e-005 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.312368 N**** | ****C:\Users\User\Downloads\Gimbal Connector\FEA Analysis\Carbon Fibre Plate.SLDPRT****  **Jun 20 14:10:15 2021** | | **Mirror2** | **Solid Body** | ****Mass:0.0318743 kg****  ****Volume:1.99215e-005 m^3****  ****Density:1600 kg/m^3****  ****Weight:0.312368 N**** | ****C:\Users\User\Downloads\Gimbal Connector\FEA Analysis\Carbon Fibre Plate.SLDPRT****  **Jun 20 14:10:15 2021** | | **Cut-Extrude2** | **Solid Body** | ****Mass:0.0101232 kg****  ****Volume:9.46089e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0992069 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Holder.SLDPRT****  **Jun 20 11:25:02 2021** | | **Cut-Extrude2** | **Solid Body** | ****Mass:0.0101232 kg****  ****Volume:9.46089e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0992069 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Holder.SLDPRT****  **Jun 20 11:25:02 2021** | | **Cut-Extrude2** | **Solid Body** | ****Mass:0.0101232 kg****  ****Volume:9.46089e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0992069 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Holder.SLDPRT****  **Jun 20 11:25:02 2021** | | **Cut-Extrude2** | **Solid Body** | ****Mass:0.0101232 kg****  ****Volume:9.46089e-006 m^3****  ****Density:1070 kg/m^3****  ****Weight:0.0992069 N**** | ****C:\Users\User\Downloads\Gimbal Connector\Locking Mechanism\Holder.SLDPRT****  **Jun 20 11:25:02 2021** | | ****<L\_MdInf\_ShlBd\_Nm/>**** | ****<L\_MdIn\_ShlBd\_Fr/>**** | ****<L\_MdInf\_ShlBd\_VolProp/>**** | ****<L\_MdIn\_ShlBd\_DtMd/>**** | | ****<L\_MdInf\_CpBd\_Nm/>**** | ****<L\_MdInf\_CompBd\_Props/>**** | | | | ****<L\_MdInf\_BmBd\_Nm/>**** | ****<L\_MdIn\_BmBd\_Fr/>**** | ****<L\_MdInf\_BmBd\_VolProp/>**** | ****<L\_MdIn\_BmBd\_DtMd/>**** | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study Properties  |  |  | | --- | --- | | Study name | FEA Analysis | | Analysis type | Static | | Mesh type | Solid Mesh | | Thermal Effect: | On | | Thermal option | Include temperature loads | | Zero strain temperature | 298 Kelvin | | Include fluid pressure effects from SOLIDWORKS Flow Simulation | Off | | Solver type | Direct sparse solver | | Inplane Effect: | Off | | Soft Spring: | On | | Inertial Relief: | Off | | Incompatible bonding options | Automatic | | Large displacement | Off | | Compute free body forces | On | | Friction | Off | | Use Adaptive Method: | Off | | Result folder | SOLIDWORKS document (C:\Users\User\Downloads\Gimbal Connector) | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Units  |  |  | | --- | --- | | Unit system: | SI (MKS) | | Length/Displacement | mm | | Temperature | Kelvin | | Angular velocity | Rad/sec | | Pressure/Stress | N/m^2 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Material Properties  |  |  |  | | --- | --- | --- | | ****Model Reference**** | ****Properties**** | ****Components**** | |  | |  |  | | --- | --- | | ****Name:**** | **ABS PC** | | ****Model type:**** | **Linear Elastic Isotropic** | | ****Default failure criterion:**** | **Unknown** | | ****Tensile strength:**** | **4e+007 N/m^2** | | ****Elastic modulus:**** | **2.41e+009 N/m^2** | | ****Poisson's ratio:**** | **0.3897** | | ****Mass density:**** | **1070 kg/m^3** | | ****Shear modulus:**** | **8.622e+008 N/m^2** | | **SolidBody 1(Cut-Extrude1)(Arm joint-1),**  **SolidBody 1(Cut-Extrude1)(Arm joint-2),**  **SolidBody 1(Cut-Extrude1)(Arm joint-3),**  **SolidBody 1(Cut-Extrude1)(Arm joint-4),**  **SolidBody 1(Cut-Extrude2)(Holder-1),**  **SolidBody 1(Cut-Extrude2)(Holder-2),**  **SolidBody 1(Cut-Extrude2)(Holder-3),**  **SolidBody 1(Cut-Extrude2)(Holder-4)** | | **Curve Data:N/A** | | | |  | |  |  | | --- | --- | | ****Name:**** | **STD Carbon Fibre** | | ****Model type:**** | **Linear Elastic Isotropic** | | ****Default failure criterion:**** | **Unknown** | | ****Yield strength:**** | **6.05e+010 N/m^2** | | ****Tensile strength:**** | **6e+008 N/m^2** | | ****Compressive strength:**** | **5.7e+008 N/m^2** | | ****Elastic modulus:**** | **7e+010 N/m^2** | | ****Poisson's ratio:**** | **0.1** | | ****Mass density:**** | **1600 kg/m^3** | | ****Shear modulus:**** | **5e+009 N/m^2** | | ****Thermal expansion coefficient:**** | **2.1 /Kelvin** | | **SolidBody 1(Cut-Extrude1)(Arm-1),**  **SolidBody 1(Cut-Extrude1)(Arm-2),**  **SolidBody 1(Cut-Extrude1)(Arm-3),**  **SolidBody 1(Cut-Extrude1)(Arm-4),**  **SolidBody 1(Mirror2)(Carbon Fibre Plate-1),**  **SolidBody 1(Mirror2)(Carbon Fibre Plate-2)** | | **Curve Data:N/A** | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Loads and Fixtures**  | ****Fixture name**** | ****Fixture Image**** | ****Fixture Details**** | | --- | --- | --- | | **Fixed-7** |  | |  |  | | --- | --- | | Entities: | **4 face(s)** | | Type: | **Fixed Geometry** | | | ****Resultant Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Components** | **X** | **Y** | **Z** | **Resultant** | | **Reaction force(N)** | **-4.67896e-006** | **40** | **4.20958e-007** | **40** | | **Reaction Moment(N.m)** | **0** | **0** | **0** | **0** | | | |  | ****Load name**** | ****Load Image**** | ****Load Details**** | | --- | --- | --- | | **Force-3** |  | |  |  | | --- | --- | | Entities: | **1 face(s)** | | Type: | **Apply normal force** | | Value: | **40 N** | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Connector Definitions **Pin/Bolt/Bearing Connector**   |  |  |  | | --- | --- | --- | | ****Model Reference**** | ****Connector Details**** | ****Strength Details**** | | ****Counterbore with Nut-7**** | |  |  | | --- | --- | | ****Entities:**** | **2 edge(s), 3 face(s)** | | ****Type:**** | **Bolt(Head/Nut diameter)(Counterbore)** | | ****Head diameter:**** | **7.5 mm** | | ****Nut diameter:**** | **7.5 mm** | | ****Nominal shank diameter:**** | **5** | | ****Preload (Torque):**** | **0** | | ****Young's modulus:**** | **2.1e+011** | | ****Poisson's ratio:**** | **0.28** | | ****Preload units:**** | **N.m** | | |  |  | | --- | --- | | Bolt Check: | OK | | Calculated FOS: | 45.7857 | | Desired FOS: | 3 | | | ****Connector Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **X-Component** | **Y-Component** | **Z-Component** | **Resultant** | | **Axial Force (N)** | **0** | **23.114** | **0** | **23.114** | | **Shear Force (N)** | **32.072** | **0** | **-19.076** | **37.316** | | **Bending moment (N.m)** | **0.081538** | **0** | **-0.048437** | **0.094839** | | | | | ****Counterbore with Nut-8**** | |  |  | | --- | --- | | ****Entities:**** | **2 edge(s), 3 face(s)** | | ****Type:**** | **Bolt(Head/Nut diameter)(Counterbore)** | | ****Head diameter:**** | **7.5 mm** | | ****Nut diameter:**** | **7.5 mm** | | ****Nominal shank diameter:**** | **5** | | ****Preload (Torque):**** | **0** | | ****Young's modulus:**** | **2.1e+011** | | ****Poisson's ratio:**** | **0.28** | | ****Preload units:**** | **N.m** | | **No Data** | | ****Connector Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **X-Component** | **Y-Component** | **Z-Component** | **Resultant** | | **Axial Force (N)** | **0** | **22.808** | **0** | **22.808** | | **Shear Force (N)** | **-31.799** | **0** | **-18.338** | **36.708** | | **Bending moment (N.m)** | **0.07262** | **0** | **0.041346** | **0.083565** | | | | | ****Counterbore with Nut-9**** | |  |  | | --- | --- | | ****Entities:**** | **2 edge(s), 3 face(s)** | | ****Type:**** | **Bolt(Head/Nut diameter)(Counterbore)** | | ****Head diameter:**** | **7.5 mm** | | ****Nut diameter:**** | **7.5 mm** | | ****Nominal shank diameter:**** | **5** | | ****Preload (Torque):**** | **0** | | ****Young's modulus:**** | **2.1e+011** | | ****Poisson's ratio:**** | **0.28** | | ****Preload units:**** | **N.m** | | |  |  | | --- | --- | | Bolt Check: | OK | | Calculated FOS: | 46.5994 | | Desired FOS: | 2 | | | ****Connector Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **X-Component** | **Y-Component** | **Z-Component** | **Resultant** | | **Axial Force (N)** | **0** | **23.736** | **0** | **23.736** | | **Shear Force (N)** | **31.276** | **0** | **18.458** | **36.316** | | **Bending moment (N.m)** | **-0.079573** | **0** | **-0.047391** | **0.092617** | | | | | ****Counterbore with Nut-10**** | |  |  | | --- | --- | | ****Entities:**** | **2 edge(s), 3 face(s)** | | ****Type:**** | **Bolt(Head/Nut diameter)(Counterbore)** | | ****Head diameter:**** | **7.5 mm** | | ****Nut diameter:**** | **7.5 mm** | | ****Nominal shank diameter:**** | **5** | | ****Preload (Torque):**** | **0** | | ****Young's modulus:**** | **2.1e+011** | | ****Poisson's ratio:**** | **0.28** | | ****Preload units:**** | **N.m** | | |  |  | | --- | --- | | Bolt Check: | OK | | Calculated FOS: | 45.2047 | | Desired FOS: | 2 | | | ****Connector Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Type** | **X-Component** | **Y-Component** | **Z-Component** | **Resultant** | | **Axial Force (N)** | **0** | **24.261** | **0** | **24.261** | | **Shear Force (N)** | **-31.548** | **0** | **18.956** | **36.805** | | **Bending moment (N.m)** | **-0.079709** | **0** | **0.056469** | **0.097685** | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Contact Information  | Contact | Contact Image | Contact Properties | | --- | --- | --- | | Global Contact |  | |  |  | | --- | --- | | Type: | **No penetration (Surface to surface)** | | Components: | **1 component(s)** | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mesh information  |  |  | | --- | --- | | Mesh type | Solid Mesh | | Mesher Used: | Standard mesh | | Automatic Transition: | Off | | Include Mesh Auto Loops: | Off | | Jacobian points | 4 Points | | Element Size | 4.90857 mm | | Tolerance | 0.245429 mm | | Mesh Quality Plot | High | | Remesh failed parts with incompatible mesh | Off |  Mesh information - Details  |  |  | | --- | --- | | Total Nodes | 118235 | | Total Elements | 60225 | | Maximum Aspect Ratio | 21.83 | | % of elements with Aspect Ratio < 3 | 63.5 | | % of elements with Aspect Ratio > 10 | 0.447 | | % of distorted elements(Jacobian) | 0 | | Time to complete mesh(hh;mm;ss): | 00:00:27 | | Computer name: | PHEONIX | |  | |  Mesh Control Information:  | **Mesh Control Name** | **Mesh Control Image** | **Mesh Control Details** | | --- | --- | --- | | **Control-2** |  | |  |  | | --- | --- | | Entities: | **4 Solid Body (s)** | | Units: | **mm** | | Size: | **2.24544** | | Ratio: | **1.5** | | |

|  |
| --- |
| Sensor Details No Data |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Resultant ForcesReaction forces  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N | -4.67896e-006 | 40 | 4.20958e-007 | 40 |  Reaction Moments  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N.m | 0 | 0 | 0 | 0 | |
|  |

|  |
| --- |
| Beams No Data |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study Results  | Name | Type | Min | Max | | --- | --- | --- | --- | | Stress1 | VON: von Mises Stress | 4.073e+003N/m^2  Node: 116231 | 5.444e+007N/m^2  Node: 99234 | | **FinalAssembly-FEA Analysis-Stress-Stress1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Displacement1 | URES: Resultant Displacement | 0.000e+000mm  Node: 5699 | 1.514e+000mm  Node: 100279 | | **FinalAssembly-FEA Analysis-Displacement-Displacement1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Strain1 | ESTRN: Equivalent Strain | 2.001e-007  Element: 49908 | 8.297e-004  Element: 58257 | | **FinalAssembly-FEA Analysis-Strain-Strain1** | | | |  | Name | Type | | --- | --- | | Displacement1{1} | Deformed shape | | **FinalAssembly-FEA Analysis-Displacement-Displacement1{1}** | | |

|  |
| --- |
| Conclusion |