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|  | |  | | --- | | **Simulation of Assembly objek 1**  **Date: 16 August 2023 Designer: Solidworks**  **Study name: Static 11q**  **Analysis type: Static** | | Table of Contents  [Description 1](#_Toc143110943)  [Assumptions 3](#_Toc143110944)  [Model Information 3](#_Toc143110945)  [Study Properties 10](#_Toc143110946)  [Units 10](#_Toc143110947)  [Material Properties 11](#_Toc143110948)  [Loads and Fixtures 13](#_Toc143110949)  [Connector Definitions 13](#_Toc143110950)  [Contact Information 14](#_Toc143110951)  [Mesh information 15](#_Toc143110952)  [Sensor Details 16](#_Toc143110953)  [Resultant Forces 16](#_Toc143110954)  [Beams 16](#_Toc143110955)  [Study Results 16](#_Toc143110956)  [Conclusion 16](#_Toc143110957) | |
| Description No Data |

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| Assumptions |

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| Model Information  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   **Model name: Assembly objek 1**  **Current Configuration: Default** | | | | | **Solid Bodies** | | | | | **Document Name and Reference** | **Treated As** | **Volumetric Properties** | **Document Path/Date Modified** | | **Cut-Extrude2** | **Solid Body** | **Mass:344.376 kg**  **Volume:0.698532 m^3**  **Density:493 kg/m^3**  **Weight:3374.89 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\A o1.SLDPRT**  **Jun 27 10:08:33 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:344.376 kg**  **Volume:0.698532 m^3**  **Density:493 kg/m^3**  **Weight:3374.89 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\A o1.SLDPRT**  **Jun 27 10:08:33 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:661.41 kg**  **Volume:1.3416 m^3**  **Density:493 kg/m^3**  **Weight:6481.82 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\B o1.SLDPRT**  **Jun 27 10:09:24 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:661.41 kg**  **Volume:1.3416 m^3**  **Density:493 kg/m^3**  **Weight:6481.82 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\B o1.SLDPRT**  **Jun 27 10:09:24 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:611.154 kg**  **Volume:1.23966 m^3**  **Density:493 kg/m^3**  **Weight:5989.31 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\C o1.SLDPRT**  **Jun 24 07:21:26 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:611.154 kg**  **Volume:1.23966 m^3**  **Density:493 kg/m^3**  **Weight:5989.31 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\C o1.SLDPRT**  **Jun 24 07:21:26 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:611.154 kg**  **Volume:1.23966 m^3**  **Density:493 kg/m^3**  **Weight:5989.31 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\C o1.SLDPRT**  **Jun 24 07:21:26 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:611.154 kg**  **Volume:1.23966 m^3**  **Density:493 kg/m^3**  **Weight:5989.31 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\C o1.SLDPRT**  **Jun 24 07:21:26 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:1055.35 kg**  **Volume:2.14067 m^3**  **Density:493 kg/m^3**  **Weight:10342.4 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D o1.SLDPRT**  **Jun 24 07:24:14 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:1055.35 kg**  **Volume:2.14067 m^3**  **Density:493 kg/m^3**  **Weight:10342.4 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D o1.SLDPRT**  **Jun 24 07:24:14 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:1055.35 kg**  **Volume:2.14067 m^3**  **Density:493 kg/m^3**  **Weight:10342.4 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN 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TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.56 kg**  **Volume:8.28374 m^3**  **Density:492.961 kg/m^3**  **Weight:40018.9 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.56 kg**  **Volume:8.28374 m^3**  **Density:492.961 kg/m^3**  **Weight:40018.9 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.54 kg**  **Volume:8.28374 m^3**  **Density:492.959 kg/m^3**  **Weight:40018.7 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.54 kg**  **Volume:8.28374 m^3**  **Density:492.959 kg/m^3**  **Weight:40018.7 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.56 kg**  **Volume:8.28374 m^3**  **Density:492.961 kg/m^3**  **Weight:40018.9 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.88 kg**  **Volume:8.28374 m^3**  **Density:493 kg/m^3**  **Weight:40022.1 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.56 kg**  **Volume:8.28374 m^3**  **Density:492.961 kg/m^3**  **Weight:40018.9 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.54 kg**  **Volume:8.28374 m^3**  **Density:492.959 kg/m^3**  **Weight:40018.7 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Chamfer2** | **Solid Body** | **Mass:4083.54 kg**  **Volume:8.28374 m^3**  **Density:492.959 kg/m^3**  **Weight:40018.7 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\D1 o1.SLDPRT**  **Jun 24 10:54:51 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:591.015 kg**  **Volume:1.19881 m^3**  **Density:493 kg/m^3**  **Weight:5791.95 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\E o1.SLDPRT**  **Jun 24 09:03:39 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:591.015 kg**  **Volume:1.19881 m^3**  **Density:493 kg/m^3**  **Weight:5791.95 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\E o1.SLDPRT**  **Jun 24 09:03:39 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:591.015 kg**  **Volume:1.19881 m^3**  **Density:493 kg/m^3**  **Weight:5791.95 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\E o1.SLDPRT**  **Jun 24 09:03:39 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:591.015 kg**  **Volume:1.19881 m^3**  **Density:493 kg/m^3**  **Weight:5791.95 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\E o1.SLDPRT**  **Jun 24 09:03:39 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:629.7 kg**  **Volume:1.27728 m^3**  **Density:493 kg/m^3**  **Weight:6171.06 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\F o1.SLDPRT**  **Jun 24 07:26:50 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:629.7 kg**  **Volume:1.27728 m^3**  **Density:493 kg/m^3**  **Weight:6171.06 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\F o1.SLDPRT**  **Jun 24 07:26:50 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:327.866 kg**  **Volume:0.665042 m^3**  **Density:493 kg/m^3**  **Weight:3213.09 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\G o1.SLDPRT**  **Jun 24 09:14:14 2023** | | **Cut-Extrude2** | **Solid Body** | **Mass:327.866 kg**  **Volume:0.665042 m^3**  **Density:493 kg/m^3**  **Weight:3213.09 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\G o1.SLDPRT**  **Jun 24 09:14:14 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1\brancing.SLDPRT**  **Jun 24 08:18:22 2023** | | **Mirror1** | **Solid Body** | **Mass:68.1002 kg**  **Volume:0.138134 m^3**  **Density:493 kg/m^3**  **Weight:667.382 N** | **D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN 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| Study Properties  |  |  | | --- | --- | | **Study name** | Static 11q | | **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** | FFEPlus | | **Inplane Effect:** | Off | | **Soft Spring:** | Off | | **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 (D:\Data Dokumen\SKRIPSI\BISMILLAH KEKUATAN TANGKI\SEMHAS\solid\objek 1) | |

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

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| Material Properties  |  |  |  | | --- | --- | --- | | **Model Reference** | **Properties** | **Components** | |  | |  |  | | --- | --- | | **Name:** | **Custom Plastic** | | **Model type:** | **Linear Elastic Isotropic** | | **Default failure criterion:** | **Max von Mises Stress** | | **Yield strength:** | **2.05e+008 N/m^2** | | **Tensile strength:** | **3.8e+008 N/m^2** | | **Compressive strength:** | **0 N/m^2** | | **Elastic modulus:** | **2e+011 N/m^2** | | **Poisson's ratio:** | **0.4** | | **Mass density:** | **493 kg/m^3** | | **Shear modulus:** | **5e+011 N/m^2** | | **Thermal expansion coefficient:** | **0 /Kelvin** | | **SolidBody 1(Cut-Extrude2)(A o1-1),**  **SolidBody 1(Cut-Extrude2)(A o1-2),**  **SolidBody 1(Cut-Extrude2)(B o1-1),**  **SolidBody 1(Cut-Extrude2)(B o1-2),**  **SolidBody 1(Cut-Extrude2)(C o1-1),**  **SolidBody 1(Cut-Extrude2)(C o1-2),**  **SolidBody 1(Cut-Extrude2)(C o1-3),**  **SolidBody 1(Cut-Extrude2)(C o1-4),**  **SolidBody 1(Cut-Extrude2)(D o1-1),**  **SolidBody 1(Cut-Extrude2)(D o1-10),**  **SolidBody 1(Cut-Extrude2)(D o1-2),**  **SolidBody 1(Cut-Extrude2)(D o1-3),**  **SolidBody 1(Cut-Extrude2)(D o1-4),**  **SolidBody 1(Cut-Extrude2)(D o1-5),**  **SolidBody 1(Cut-Extrude2)(D o1-6),**  **SolidBody 1(Cut-Extrude2)(D o1-7),**  **SolidBody 1(Cut-Extrude2)(D o1-8),**  **SolidBody 1(Cut-Extrude2)(D o1-9),**  **SolidBody 1(Chamfer2)(D1 o1-1),**  **SolidBody 1(Chamfer2)(D1 o1-10),**  **SolidBody 1(Chamfer2)(D1 o1-2),**  **SolidBody 1(Chamfer2)(D1 o1-3),**  **SolidBody 1(Chamfer2)(D1 o1-4),**  **SolidBody 1(Chamfer2)(D1 o1-5),**  **SolidBody 1(Chamfer2)(D1 o1-6),**  **SolidBody 1(Chamfer2)(D1 o1-7),**  **SolidBody 1(Chamfer2)(D1 o1-8),**  **SolidBody 1(Chamfer2)(D1 o1-9),**  **SolidBody 1(Cut-Extrude2)(E o1-1),**  **SolidBody 1(Cut-Extrude2)(E o1-2),**  **SolidBody 1(Cut-Extrude2)(E o1-3),**  **SolidBody 1(Cut-Extrude2)(E o1-4),**  **SolidBody 1(Cut-Extrude2)(F o1-1),**  **SolidBody 1(Cut-Extrude2)(F o1-2),**  **SolidBody 1(Cut-Extrude2)(G o1-1),**  **SolidBody 1(Cut-Extrude2)(G o1-2),**  **SolidBody 1(Mirror1)(brancing-1),**  **SolidBody 1(Mirror1)(brancing-10),**  **SolidBody 1(Mirror1)(brancing-2),**  **SolidBody 1(Mirror1)(brancing-3),**  **SolidBody 1(Mirror1)(brancing-4),**  **SolidBody 1(Mirror1)(brancing-5),**  **SolidBody 1(Mirror1)(brancing-6),**  **SolidBody 1(Mirror1)(brancing-7),**  **SolidBody 1(Mirror1)(brancing-8),**  **SolidBody 1(Mirror1)(brancing-9)** | | **Curve Data:N/A** | | | |

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| **Loads and Fixtures**  | **Fixture name** | **Fixture Image** | **Fixture Details** | | --- | --- | --- | | **Fixed-1** |  | |  |  | | --- | --- | | **Entities:** | **50 face(s)** | | **Type:** | **Fixed Geometry** | |  | **Load name** | **Load Image** | **Load Details** | | --- | --- | --- | | **Pressure-1** |  | |  |  | | --- | --- | | **Entities:** | **42 face(s)** | | **Type:** | **Normal to selected face** | | **Value:** | **0.7995** | | **Units:** | **N/mm^2 (MPa)** | | **Phase Angle:** | **0** | | **Units:** | **deg** | | | **Pressure-2** |  | |  |  | | --- | --- | | **Entities:** | **4 face(s)** | | **Type:** | **Normal to selected face** | | **Value:** | **0.7995** | | **Units:** | **N/mm^2 (MPa)** | | **Phase Angle:** | **0** | | **Units:** | **deg** | | |

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| Connector Definitions No Data |

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| Contact Information  | **Contact** | **Contact Image** | **Contact Properties** | | --- | --- | --- | | Global Contact |  | |  |  | | --- | --- | | **Type:** | **Bonded** | | **Components:** | **1 component(s)** | | **Options:** | **Incompatible mesh** | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Mesh information  |  |  | | --- | --- | | **Mesh type** | Solid Mesh | | **Mesher Used:** | Standard mesh | | **Automatic Transition:** | Off | | **Include Mesh Auto Loops:** | Off | | **Jacobian points** | 4 Points | | **Element Size** | 484.399 mm | | **Tolerance** | 24.22 mm | | **Mesh Quality Plot** | High | | **Remesh failed parts with incompatible mesh** | On |  Mesh information - Details  |  |  | | --- | --- | | **Total Nodes** | 84159 | | **Total Elements** | 37787 | | **Maximum Aspect Ratio** | 63.171 | | **% of elements with Aspect Ratio < 3** | 14.5 | | **% of elements with Aspect Ratio > 10** | 6.81 | | **% of distorted elements(Jacobian)** | 0 | | **Time to complete mesh(hh;mm;ss):** | 00:00:16 | | **Computer name:** |  | |  | | |

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| Sensor Details No Data |

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| Resultant Forces No Data |
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| Beams No Data |

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| Study Results No Data |

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| Conclusion |