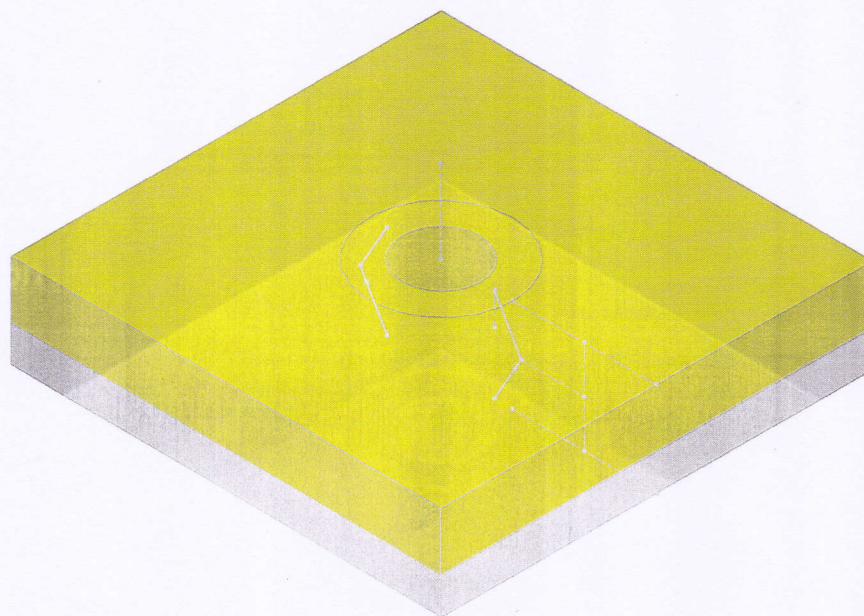


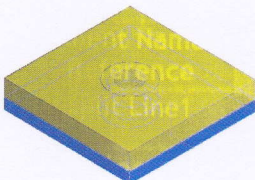
Assumptions

Model Information

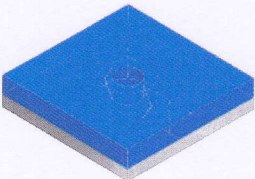


Model name: Assem1
Current Configuration: Default

Solid Bodies

Document Name and Reference	Treated As	Volumetric Properties	Document Path/Date Modified
Split Line1 	Solid Body	Mass:0.0175248 kg Volume:2.1906e-06 m ³ Density:8000 kg/m ³ Weight:0.171743 N	C:\Users\ELIRAZN\Downlo ads\14.02.2021- 2\Part1.SLDPRT Feb 14 12:20:22 2021



Split Line1 	Solid Body	Mass:0.00445131 kg Volume:3.50497e-06 m ³ Density:1270 kg/m ³ Weight:0.0436228 N	C:\Users\ELIRAZN\Downlo ads\14.02.2021- 2\Part2.SLDPRT Feb 14 10:34:46 2021
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Study Properties

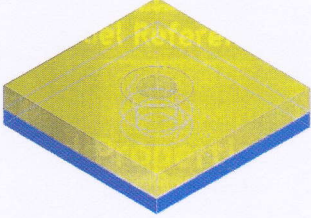
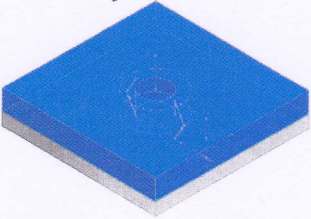
Study name	Static 3 - Changing Fixture Faces
Analysis type	Static
Mesh type	Solid Mesh
Thermal Effect:	On
Thermal option	Include temperature loads
Zero strain temperature	298 Kelvin
Include fluid pressure effects from SOLIDWORKS Flow Simulation	Off
Solver type	Intel Direct Sparse
Inplane Effect:	Off
Soft Spring:	Off
Inertial Relief:	Off
Incompatible bonding options	More accurate (slower)
Large displacement	Off
Compute free body forces	On
Friction	Off
Use Adaptive Method:	Off
Result folder	SOLIDWORKS document (C:\Users\ELIRAZN\Downloads\14.02.2021-2)

Units

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

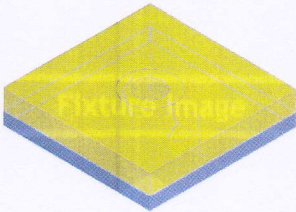


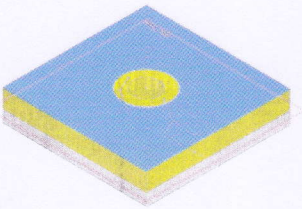
Material Properties

Model Reference	Properties	Components
	Name: AISI 304 ← Model type: Linear Elastic Isotropic Default failure criterion: Unknown Yield strength: $2.06307 \times 10^8 \text{ N/m}^2$ Tensile strength: $5.17017 \times 10^8 \text{ N/m}^2$ Elastic modulus: $1.9 \times 10^{11} \text{ N/m}^2$ ← Poisson's ratio: 0.29 Mass density: 8000 kg/m^3 Shear modulus: $7.5 \times 10^{10} \text{ N/m}^2$ Thermal expansion coefficient: $1.8 \times 10^{-5} / \text{Kelvin}$	SolidBody 1(Split Line1)(Part1-1)
Curve Data:N/A		
	Name: ULTEM 1000 ← Model type: Linear Elastic Isotropic Default failure criterion: Unknown Yield strength: $1.05 \times 10^8 \text{ N/m}^2$ Elastic modulus: $3.4 \times 10^9 \text{ N/m}^2$ ← Poisson's ratio: 0.25 Mass density: 1270 kg/m^3 Thermal expansion coefficient: $4.5 \times 10^{-5} / \text{Kelvin}$	SolidBody 1(Split Line1)(Part2-1)
Curve Data:N/A		



Loads and Fixtures


Fixture name	Fixture Image	Fixture Details			
Fixed-1		Entities: 4 face(s) Type: Fixed Geometry			
Resultant Forces					
Components	X	Y	Z	Resultant	
Reaction force(N)	7.93934e-05	-780	-5.85839e-05	780	
Reaction Moment(N.m)	0	0	0	0	

Load name	Load Image	Load Details		
Force-1		Entities: 1 face(s), 1 plane(s) Reference: Assy_Top Type: Apply force Values: ---, ---, 780 N		



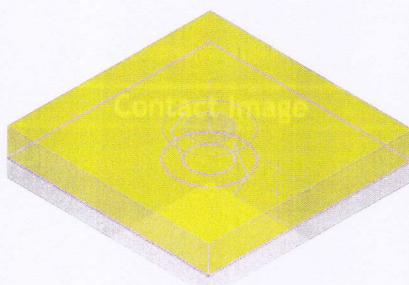
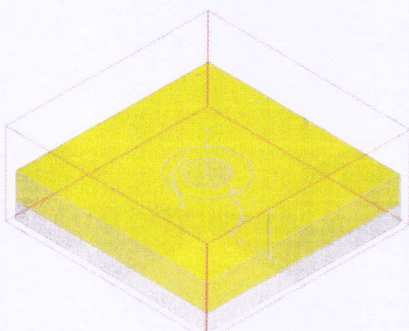
Connector Definitions

Pin/Bolt/Bearing Connector

Model Reference	Connector Details	Strength Details		
 <p>Counterbore with Nut-1</p>	<p>Entities: 2 edge(s) Type: Bolt(Head/Nut diameter)(Count erbores)</p> <p>Head diameter: 8.5 mm Nut diameter: 8.5 mm Nominal shank diameter: 5 Preload (Axial): 1500 ← Young's modulus: 1.9e+11 Poisson's ratio: 0.29 Preload units: N</p>	No Data		
Connector Forces				
Type	X-Component	Y-Component	Z-Component	Resultant
Axial Force (N)	0	1580.6 ←	0	1580.6
Shear Force (N)	0.95703	0	1.1246	1.4767
Bending moment (N.m)	0.048982	0	0.0034566	0.049104



Contact Information

Contact	Contact Image	Contact Properties		
Contact Set-1		Type: No Penetration contact pair Entites: 4 face(s) Friction Value: 0.15 Advanced: Node to surface		
Contact/Friction force				
Components	X	Y	Z	Resultant
Contact Force(N)	1.0747E-20	-2.5868E-13	9.635E-21	2.5868E-13
Friction Force(N)	2.9024E-14	2.872E-21	-1.36E-15	2.9056E-14
Global Contact		Type: No penetration (Surface to surface) Components: 1 component(s) Friction Value: 0.15		

Mesh information

Mesh type	Solid Mesh
Mesher Used:	Standard mesh
Automatic Transition:	Off
Include Mesh Auto Loops:	Off
Jacobian points	4 Points
Element Size	1.78657 mm
Tolerance	0.0893286 mm
Mesh Quality Plot	High



Sensor Details

No Data

Resultant Forces

Reaction forces

Selection set	Units	Sum X	Sum Y	Sum Z	Resultant
Entire Model	N	7.93934e-05	-780	-5.85839e-05	780

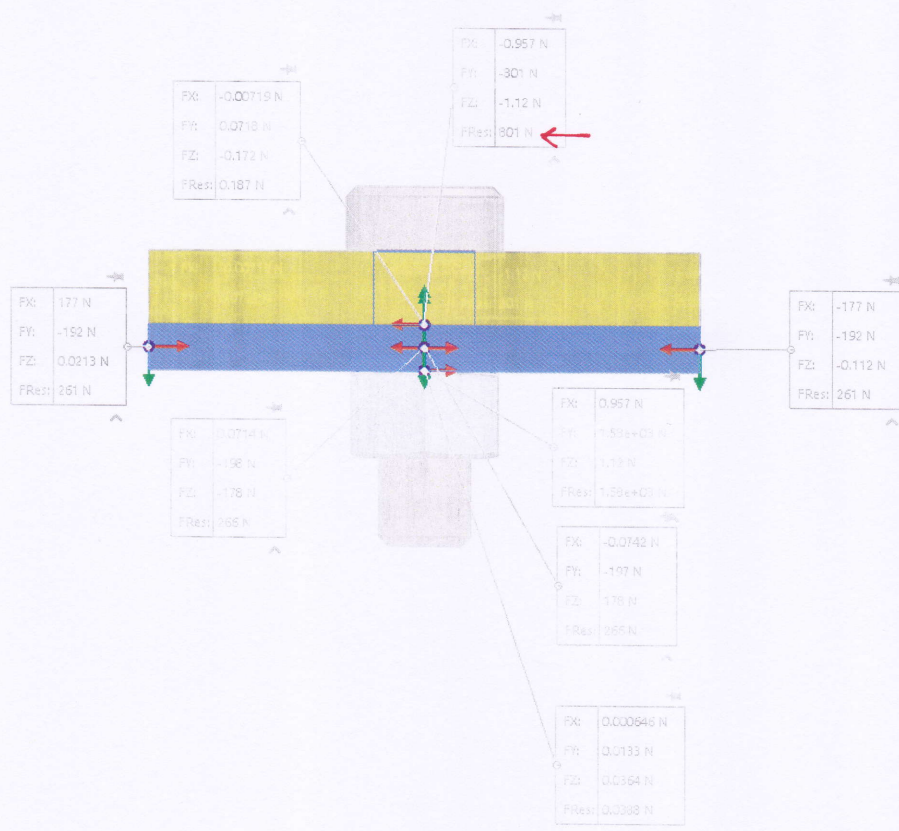
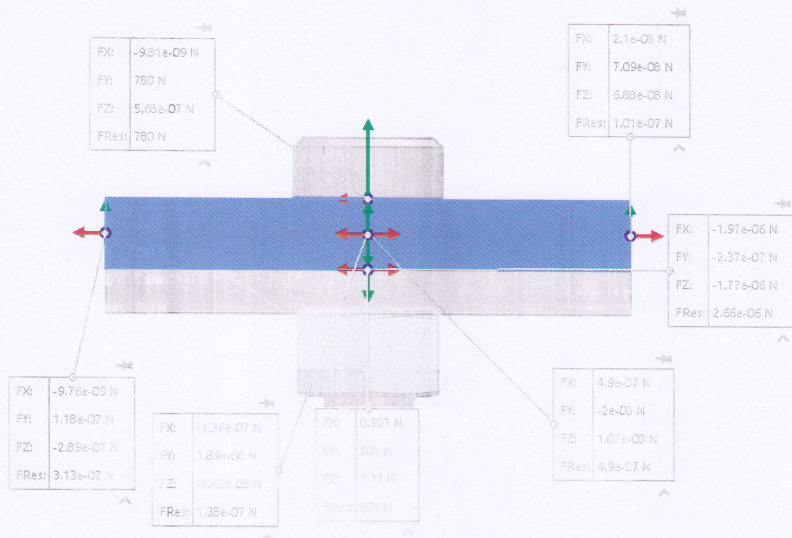
Reaction Moments

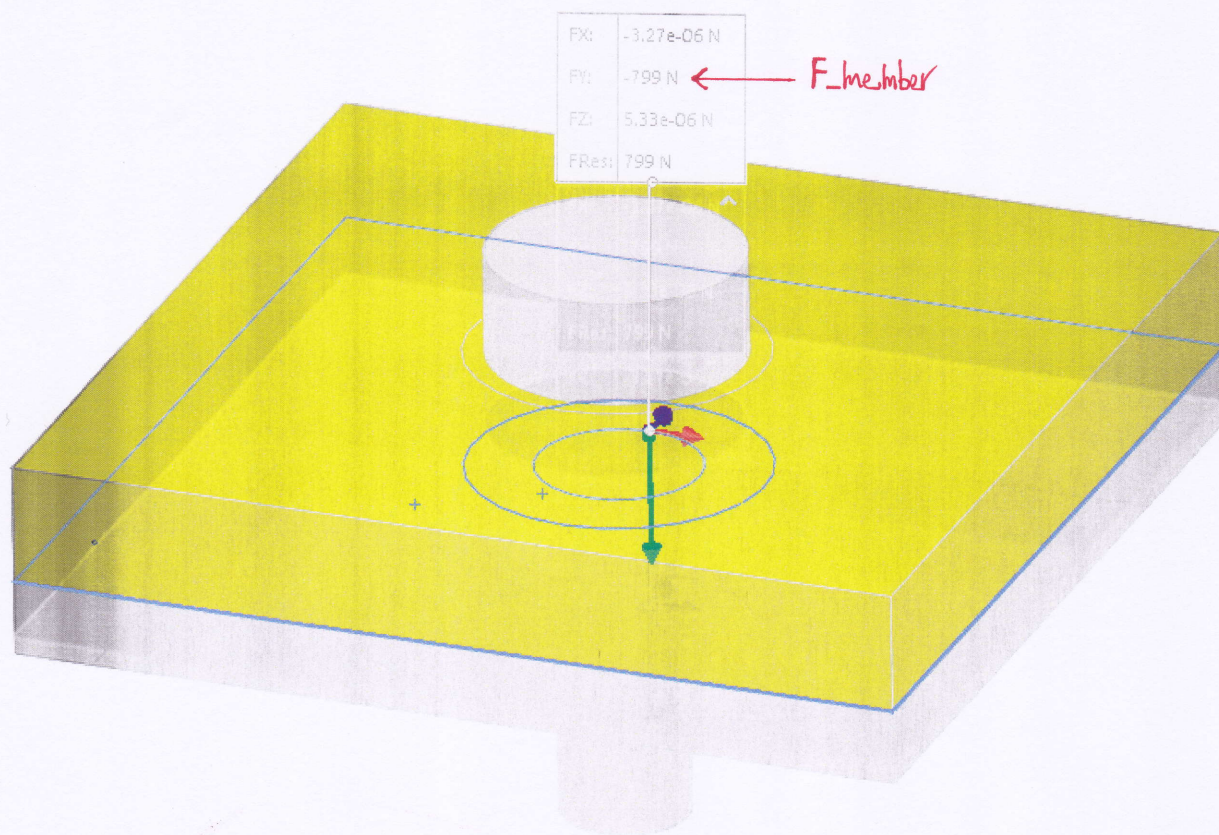
Selection set	Units	Sum X	Sum Y	Sum Z	Resultant
Entire Model	N.m	0	0	0	0

Beams

No Data







P=780N

PRELOAD=1500N