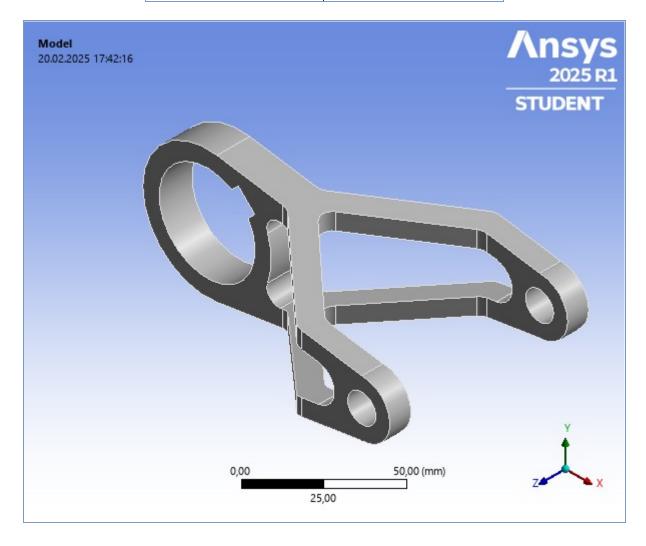
Project\* Page 1 of 18



# **Project\***

First Saved	Thursday, February 20, 2025
Last Saved	Thursday, February 20, 2025
Product Version	2025 R1
Save Project Before Solution	No
Save Project After Solution	No



Project\* Page 2 of 18

### **Contents**

- Units
- Model (A4)
  - o Geometry Imports
    - Geometry Import (A3)
  - o **Geometry** 
    - Part 1
  - o Materials
  - o Coordinate Systems
  - o Mesh
  - o Static Structural (A5)
    - Analysis Settings
    - Standard Earth Gravity
    - Loads
    - Solution (A6)
      - Solution Information
      - Results
      - Stress Tool
        - Safety Factor

# **Report Not Finalized**

**Not all objects described below are in a finalized state.** As a result, data may be incomplete, obsolete or in error. <u>View first state problem</u>. To finalize this report, edit objects as needed and solve the analyses.

#### **Units**

#### **TABLE 1**

Unit System	Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

# Model (A4)

FIGURE 1 Model (A4) > Figure Project\* Page 3 of 18

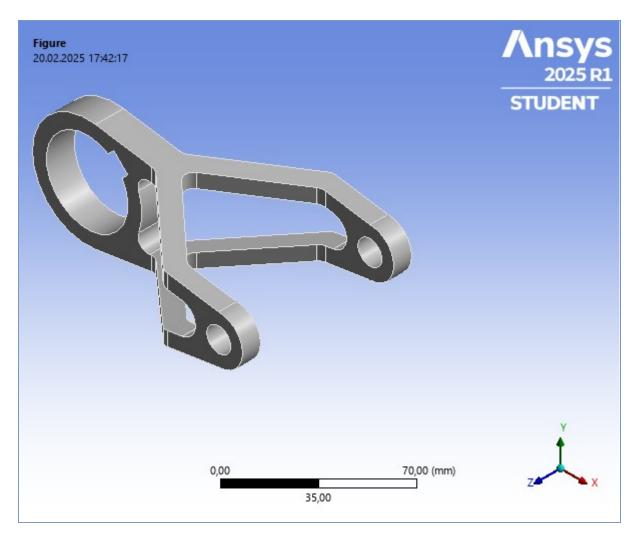


TABLE 2

Model (A4) > Geometry Imports
Object Name Geometry Imports
State Solved

TABLE 3

WOUGH (AT)	> Geometry Imports > Geometry Import (A3)
Object Name	Geometry Import (A3)
State	Solved
Definition	
Source	C:\Users\hsnyl\OneDrive\Masaüstü\bilg. dest. tasarım\ödev2 \Parça1.x_t
Туре	Parasolid
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

Project\* Page 4 of 18

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	Underdefined	
Definition		
Source	C:\Users\hsnyl\OneDrive\Masaüstü\bilg. dest. tasarım\ödev2 \Parça1.x_t	
Туре	Parasolid	
Length Unit	Meters	
Element Control	Program Controlled	
Display Style	Body Color	
	Bounding Box	
Length X	141,15 mm	
Length Y	55, mm	
Length Z	85, mm	
<u> </u>	Properties	
Volume	43662 mm <sup>3</sup>	
Mass		
Scale Factor Value	1,	
Statistics		
Bodies	1	
Active Bodies	1	
Nodes	3897	
Elements	1816	
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	
· · · · · · · · · · · · · · · · · · ·	Yes	
Use Instances	r es	

Project\* Page 5 of 18

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 > Parts

Woder (A4) > Geometry > Farts			
Object Name	Part 1		
State	Underdefined		
	Properties		
Visible	Yes		
Transparency	1		
	inition		
Suppressed	No		
Stiffness Behavior	Flexible		
Coordinate System	Default Coordinate System		
Reference Temperature	By Environment		
Treatment	None		
Material			
Assignment			
Nonlinear Effects	Yes		
Thermal Strain Effects	Yes		
Bound	ding Box		
Length X	141,15 mm		
Length Y	55, mm		
Length Z	85, mm		
Pro	perties		
Volume	43662 mm³		
Centroid X	11,217 mm		
Centroid Y	27,315 mm		
Centroid Z	-5,7711e-002 mm		
Moment of Inertia Ip1			
Moment of Inertia Ip2			
Moment of Inertia lp3			
Sta	tistics		
Nodes	3897		
Elements	1816		
Mesh Metric	None		

TABLE 6
Model (A4) > Materials

MIOGOI (AT) - MI	attriais
Object Name	Materials
State	Fully Defined
Statistics	
Materials	1
Material Assignments	0

## **Coordinate Systems**

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

Project\* Page 6 of 18

Object Name	Global Coordinate System	
State	Fully Defined	
Definition		
Туре	Cartesian	
Coordinate System ID	0,	
Origin		
Origin X	0, mm	
Origin Y	0, mm	
Origin Z	0, mm	
Direction	onal 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	

### Mesh

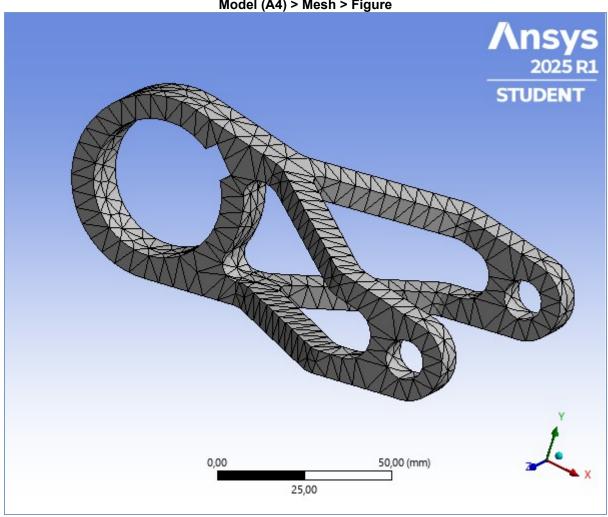
TABLE 8 Model (A4) > Mesh

Object Name         Mesh           State         Solved           Display           Display         Use Geometry Setting           Defaults           Physics Preference         Mechanical           Element Order         Program Controlled           Element Size         5, mm           Sizing           Use Adaptive Sizing         Yes           Resolution         Default (2)           Mesh Defeaturing         Yes           Default         Program Controlled           Element Size         5, mm           Mesh Defeaturing         Yes           Default (2)         Default (2)           Mesh Defeaturing         Yes           Default         Coarse           Initial Size Seed         Assembly           Bounding Box Diagonal         173,71 mm           Average Surface Area         427,88 mm²           Minimum Edge Length         1,1334 mm           Quality           Check Mesh Quality         Yes, Errors           Aggressive Mechanical         Default (5,e-002)           Smoothing         Medium           Mesh Metric         None	Wodel (A4) > West	1
Display Display Style Display Style Defaults Physics Preference Element Order Element Size Sizing Use Adaptive Sizing Use Adaptive Sizing Pefaults Transition Span Angle Center Initial Size Seed Mechanical Program Controlled Element Size Fessolution Default (2) Mesh Defeaturing Yes Defeature Size Default Transition Fast Span Angle Center Coarse Initial Size Seed Assembly Bounding Box Diagonal Average Surface Area Minimum Edge Length Check Mesh Quality Check Mesh Quality Target Element Quality Target Element Quality Medium Mesh Metric None Inflation Use Automatic Inflation Inflation Option Transition Ratio Transition Ratio O,272 Maximum Layers Growth Rate Inflation Element Type View Advanced Options No		Mesh
Display Style Defaults Physics Preference Element Order Element Size Sizing Use Adaptive Sizing Use Adaptive Sizing Pefaults Press Pefault (2) Mesh Defeaturing Pefault Transition Span Angle Center Initial Size Seed Mesh Dayages Minimum Edge Length Average Surface Area Minimum Edge Length Target Element Quality Mesh Metric Transition None Inflation Use Automatic Inflation Transition Press Maximum Layers Growth Advanced Options Ves Genter Outcometer Mechanical Default (2) Mesh Mechanical Default (2) Mesh Defeaturing Yes Default (2) Mesh Mechanical Coarse Assembly As	State	Solved
Physics Preference   Mechanical   Element Order   Program Controlled   Element Size   5, mm   Sizing   Yes   Resolution   Default (2)   Mesh Defeaturing   Yes   Defeature Size   Default   Transition   Fast   Span Angle Center   Coarse   Initial Size Seed   Assembly   Bounding Box Diagonal   173,71 mm   Average Surface Area   427,88 mm²   Minimum Edge Length   1,1334 mm   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 Quality   O,272   Maximum Layers   5   Growth Rate   1,2   Inflation Element Type   Wedges   View Advanced Options   No	Display	
Physics Preference Element Order Element Size Sizing Use Adaptive Sizing Acesolution Default (2) Mesh Defeaturing Default Transition Fast Span Angle Center Initial Size Seed Assembly Bounding Box Diagonal Average Surface Area Minimum Edge Length Auriget Element Quality Check Mesh Quality Check Mesh Quality Target Element Quality Mesh Metric Transition None Inflation Use Automatic Inflation Transition Algorithm Pre Inflation Element Type Ves Default (2) Mesh Pyes Default (2) Mesh Mesh Default (2) Default (2) Mesh Mesh Metric None Transition Algorithm Pre Inflation Element Type View Advanced Options No	Display Style	Use Geometry Setting
Element Order Element Size Sizing Use Adaptive Sizing Wes Resolution Default (2) Mesh Defeaturing Transition Span Angle Center Initial Size Seed Minimum Edge Length Aggressive Mechanical Target Element Quality Target Element Quality Mesh Metric Transition Mesh Metric More More More More More More More More	Defaults	
Element Size   5, mm   Sizing   Use Adaptive Sizing   Yes   Resolution   Default (2)   Mesh Defeaturing   Yes   Default   Transition   Fast   Span Angle Center   Coarse   Initial Size Seed   Assembly   Bounding Box Diagonal   173,71 mm   Average Surface Area   427,88 mm²   Minimum Edge Length   1,1334 mm   Quality   Yes, Errors   Error Limits   Aggressive Mechanical   Target Element Quality   Default (5,e-002)   Smoothing   Medium   Mesh Metric   None   Inflation   Use Automatic Inflation   Smooth Transition   Transition Ratio   0,272   Maximum Layers   5   Growth Rate   1,2   Inflation Element Type   Wedges   View Advanced Options   No	Physics Preference	Mechanical
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 173,71 mm Average Surface Area 427,88 mm² Minimum Edge Length 1,1334 mm 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 Element Type Wedges View Advanced Options No	Element Order	Program Controlled
Use Adaptive Sizing Resolution Default (2)  Mesh Defeaturing Yes  Defeature Size Default  Transition Fast  Span Angle Center Coarse  Initial Size Seed Assembly  Bounding Box Diagonal 173,71 mm  Average Surface Area 427,88 mm²  Minimum Edge Length 1,1334 mm  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 Element Type Wedges  View Advanced Options No	Element Size	5, mm
Resolution Default (2)  Mesh Defeaturing Yes  Defeature Size Default  Transition Fast  Span Angle Center Coarse  Initial Size Seed Assembly  Bounding Box Diagonal 173,71 mm  Average Surface Area 427,88 mm²  Minimum Edge Length 1,1334 mm  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 Element Type Wedges  View Advanced Options No	Sizing	
Mesh Defeaturing Defeature Size Default Transition Fast Span Angle Center Coarse Initial Size Seed Assembly Bounding Box Diagonal Average Surface Area Minimum Edge Length Quality Check Mesh Quality Target Element Quality Mesh Metric Mesh Metric Inflation Use Automatic Inflation Transition Ratio Transition Algorithm Told Inflation Algorithm Tree Inflation Algorithm Inflation Algorithm Inflation Element Type View Advanced Options No Default  Ves Voarse Default Assembly	Use Adaptive Sizing	Yes
Defeature Size Transition Fast Span Angle Center Coarse Initial Size Seed Assembly Bounding Box Diagonal 173,71 mm Average Surface Area 427,88 mm² Minimum Edge Length 1,1334 mm  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 Element Type Wedges View Advanced Options No	Resolution	Default (2)
Transition Fast Span Angle Center Coarse Initial Size Seed Assembly Bounding Box Diagonal 173,71 mm Average Surface Area 427,88 mm² Minimum Edge Length 1,1334 mm  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 Element Type Wedges View Advanced Options No	Mesh Defeaturing	Yes
Span Angle Center Initial Size Seed Assembly Bounding Box Diagonal 173,71 mm Average Surface Area 427,88 mm² Minimum Edge Length 1,1334 mm  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 Element Type Wedges View Advanced Options No	Defeature Size	Default
Initial Size Seed Assembly Bounding Box Diagonal 173,71 mm  Average Surface Area 427,88 mm² Minimum Edge Length 1,1334 mm  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 Element Type Wedges View Advanced Options No	Transition	Fast
Bounding Box Diagonal 173,71 mm  Average Surface Area 427,88 mm²  Minimum Edge Length 1,1334 mm  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 Element Type Wedges  View Advanced Options No	Span Angle Center	Coarse
Average Surface Area Minimum Edge Length 1,1334 mm  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 Element Type Wedges View Advanced Options No	Initial Size Seed	Assembly
Minimum Edge Length 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 Element Type Wedges View Advanced Options No	Bounding Box Diagonal	173,71 mm
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	Average Surface Area	427,88 mm <sup>2</sup>
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		1,1334 mm
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		
Target Element Quality Smoothing Medium Mesh Metric Inflation Use Automatic Inflation Inflation Option Transition Ratio Transition Ratio Transition Ratio Transition Rate Inflation Algorithm Inflation Element Type View Advanced Options  Noedium None None Smooth Transition Transition Transition Agorithm Pre Unflation Element Type Vedges	Check Mesh Quality	
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	Error Limits	Aggressive Mechanical
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	Target Element Quality	Default (5,e-002)
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	Smoothing	Medium
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	Mesh Metric	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	Inflation	
Transition Ratio         0,272           Maximum Layers         5           Growth Rate         1,2           Inflation Algorithm         Pre           Inflation Element Type         Wedges           View Advanced Options         No	Use Automatic Inflation	
Maximum Layers 5 Growth Rate 1,2 Inflation Algorithm Pre Inflation Element Type Wedges View Advanced Options No	Inflation Option	Smooth Transition
Growth Rate 1,2 Inflation Algorithm Pre Inflation Element Type Wedges View Advanced Options No	Transition Ratio	0,272
Inflation Algorithm Pre Inflation Element Type Wedges View Advanced Options No	Maximum Layers	
Inflation Element Type Wedges View Advanced Options No	Growth Rate	1,2
View Advanced Options No	Inflation Algorithm	Pre
	Inflation Element Type	Wedges
Advanced	View Advanced Options	No
	Advanced	

Project\* Page 7 of 18

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	
Automatic Method	S	
Sheet Body Method	Quad Dominant	
Sweepable Body Method	Sweep	
Statistics		
Nodes	3897	
Elements	1816	
Show Detailed Statistics	No	

FIGURE 2 Model (A4) > Mesh > Figure



# **Static Structural (A5)**

TABLE 9 Model (A4) > Analysis

· · · · · · · · · · · · · · · · · · ·		
Object Name	Static Structural (A5)	
State	Solved	
Definition		
Physics Type	Structural	
Analysis Type	Static Structural	

Project\* Page 8 of 18

Solver Target	Mechanical APDL
Options	
Environment Temperature	22, °C
Generate Input Only	No

TABLE 10
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	
Quaer states seration	Rotordynamics Controls	
Coriolis Effect	Off	
Conolio Encoc	Restart Controls	
Generate Restart Points	Program Controlled	
Retain Files After Full	9	
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	
1	Advanced	
Inverse Option	No	
Contact Split (DMP)	Program Controlled	
	Output Controls	
Output Selection	None	
Stress	Yes	
Back Stress	No No	
Strain	Yes	
Contact Data	Yes	
Nonlinear Data	No 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	
Tresuit File Compression	Analysis Data Management	
	C:\Users\hsnyl\AppData\Local\Temp\WB_hsnyl_13220_2\wbnew_files\dp0	
Solver Files Directory	\SYS\MECH\	

Project\* Page 9 of 18

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	nmm

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

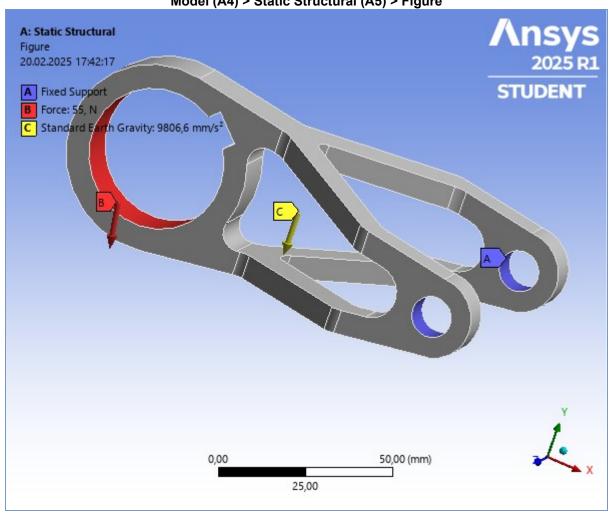
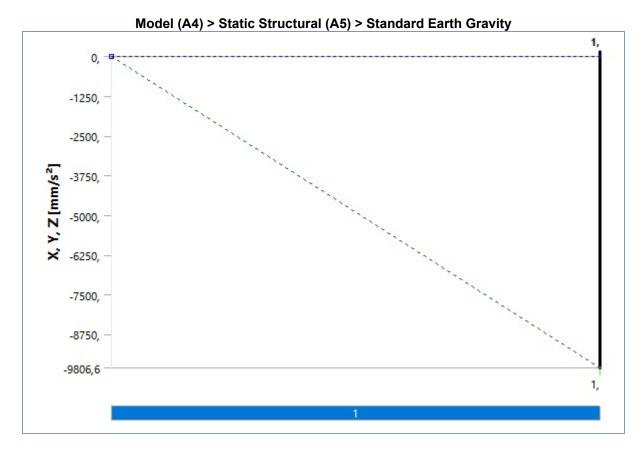


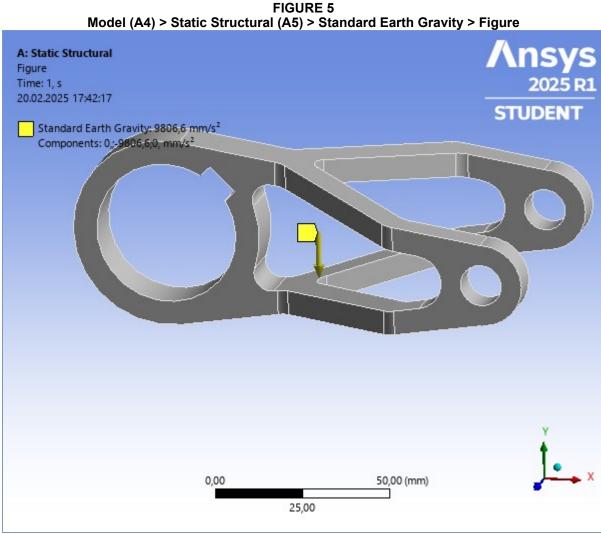
TABLE 11
Model (A4) > Static Structural (A5) > Accelerations

Object Name	Standard Earth Gravity
State	Fully Defined
	Scope
Geometry	All Bodies
D	efinition
Coordinate System	Global Coordinate System
X Component	0, mm/s² (ramped)
Y Component	-9806,6 mm/s² (ramped)
Z Component	0, mm/s² (ramped)
Suppressed	No
Direction	-Y Direction

FIGURE 4

Project\* Page 10 of 18





Project\* Page 11 of 18

TABLE 12 Model (A4) > Static Structural (A5) > Loads

Fixed Support	Force
Fully [	Defined
Scope	
Geometry	Selection
2 Faces	1 Face
Definition	
Fixed Support	Force
N	lo
	Vector
	Surface Effect
	55, N (ramped)
	Defined
	Fully Description Fixed Support

FIGURE 6
Model (A4) > Static Structural (A5) > Fixed Support > Figure

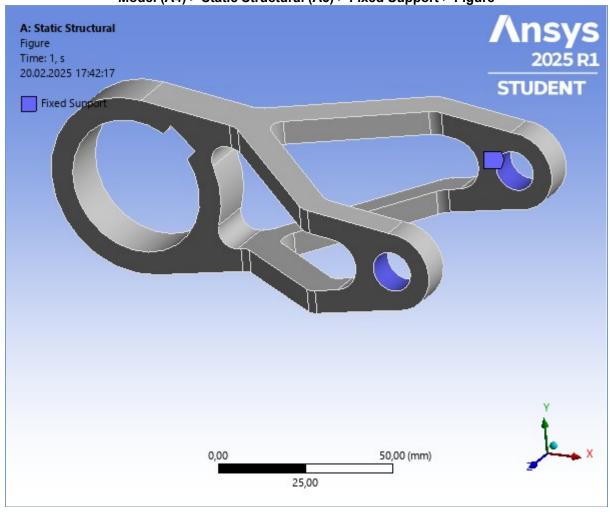
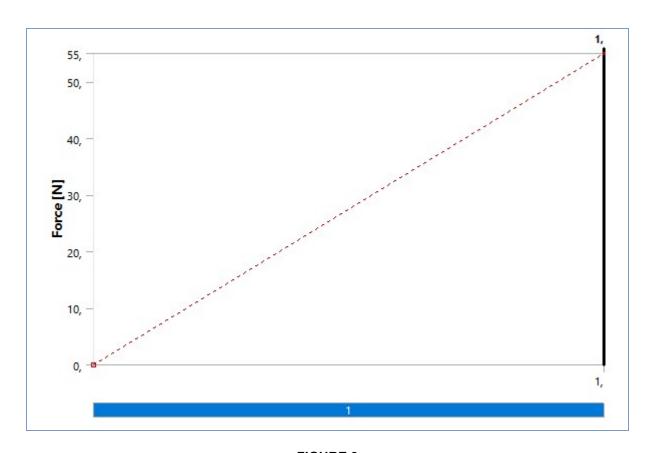
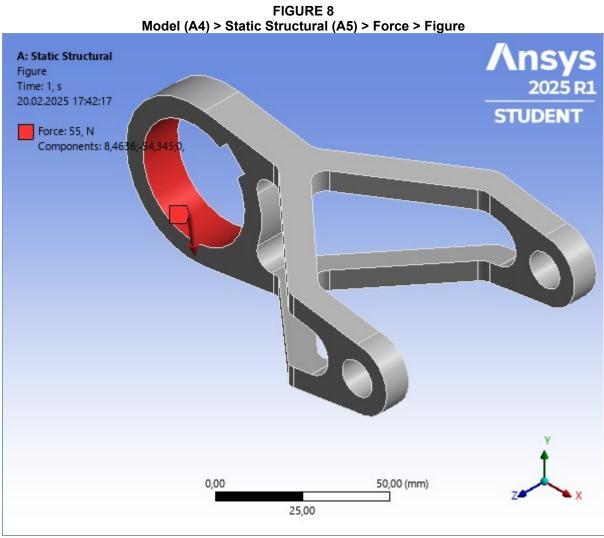


FIGURE 7
Model (A4) > Static Structural (A5) > Force

Project\* Page 12 of 18





Project\* Page 13 of 18

### Solution (A6)

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

Object Name	Solution (A6)
State	Underdefined
Adaptive Mesh Ref	inement
Max Refinement Loops	1,
Refinement Depth	2,
Information	
Status	Done
MAPDL Elapsed Time	3, s
MAPDL Memory Used	191, MB
MAPDL Result File Size	1,5 MB
Post Processi	ng
Beam Section Results	No
On Demand Stress/Strain	No

TABLE 14
Model (A4) > Static Structural (A5) > Solution (A6) > Solution Information

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 V	isibility
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
Diopidy Type	Lii100

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

Object Name	Total Deformation	Maximum Principal Stress
State	Solved	
	Scope	
Scoping Method	Geom	netry Selection
Geometry	P	All Bodies
	Definition	
Туре	<b>Total Deformation</b>	Maximum Principal Stress
Ву		Time
Display Time	Last	
Separate Data by Entity	No	
Calculate Time History	Yes	
Identifier		
Suppressed	No	
	Results	
Minimum	0, mm -1,5418 MPa	
Maximum	3,7748e-002 mm	13,532 MPa
Average	1,5985e-002 mm	1,4514 MPa
Minimum Occurs On	Part 1	

Maximum Occurs On	Ī	Part 1
	Information	
Time		1, s
Load Step		1
Substep		1
Iteration Number		1
Int	tegration Point Resu	ults
Display Option		Averaged
Average Across Bodies		No

FIGURE 9
Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation

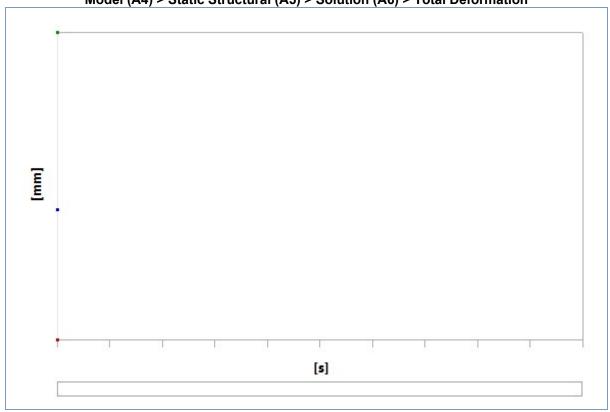


TABLE 16

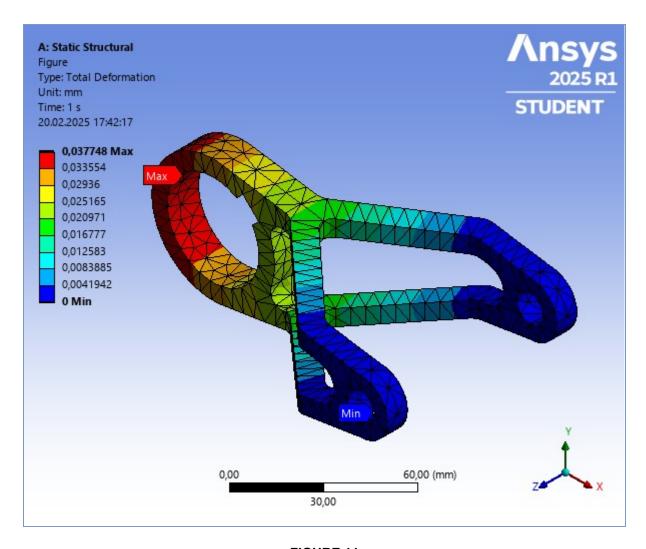
Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation

Time [s] Minimum [mm] Average [mm]

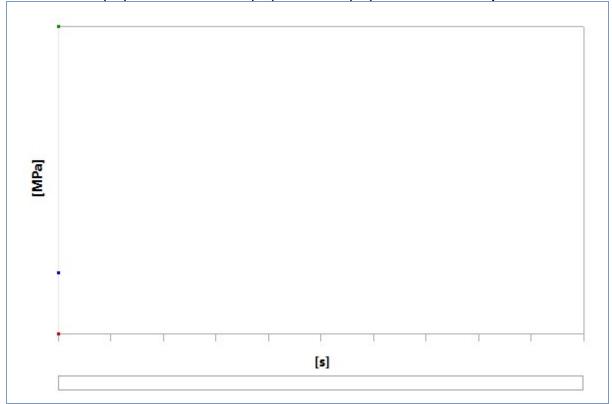
Time [s]	Minimum [mm]	Maximum [mm]	Average [mm]
1,	0,	3,7748e-002	1,5985e-002

FIGURE 10
Model (A4) > Static Structural (A5) > Solution (A6) > Total Deformation > Figure

Project\* Page 15 of 18







Project\* Page 16 of 18

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

٠.				
	Time [s]	Minimum [MPa]	Maximum [MPa]	Average [MPa]
	1,	-1,5418	13,532	1,4514

FIGURE 12
Model (A4) > Static Structural (A5) > Solution (A6) > Maximum Principal Stress > Figure

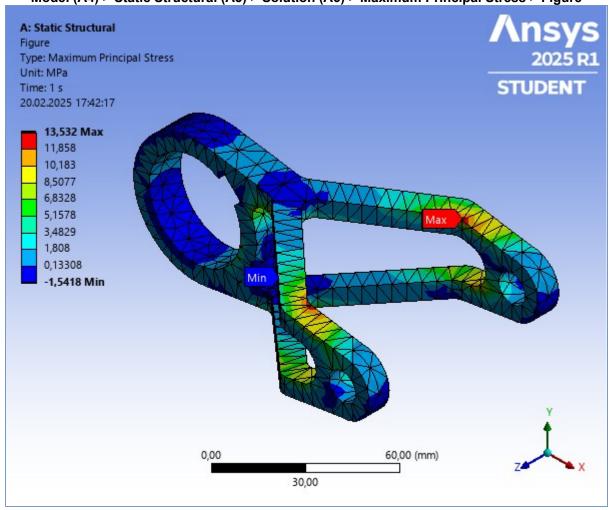


TABLE 18
Model (A4) > Static Structural (A5) > Solution (A6) > Stress Safety Tools

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

TABLE 19
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					
Туре	Safety Factor				
Ву	Time				
Display Time	Last				
Separate Data by Entity	No				
	· · · · · · · · · · · · · · · · · · ·				

Project\* Page 17 of 18

Calculate Time History	Yes			
Identifier				
Suppressed	No			
Integration Point Results				
Display Option	Averaged			
Average Across Bodies	No			
Results				
Minimum	> 10			
Minimum Occurs On	Part 1			
Information				
Time	1, s			
Load Step	1			
Substep	1			
Iteration Number	1			

FIGURE 13
Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Safety Factor

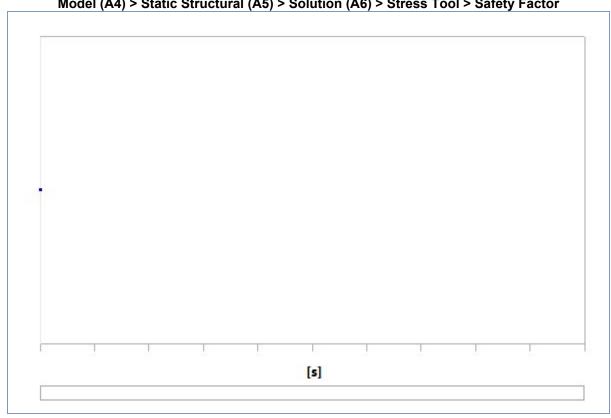


TABLE 20

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

Time [s] Minimum Maximum Average

_				
	Time [s]	Minimum	Maximum	Average
	1,	15,	15,	15,

FIGURE 14
Model (A4) > Static Structural (A5) > Solution (A6) > Stress Tool > Safety Factor > Figure

Project\* Page 18 of 18

