



Simulation - Agms 46

Study name:Static 1
Analysis type:Static

Table of Contents

Description.....	1
Assumptions	2
Model Information	2
Study Properties	11
Units	12
Material Properties	13
Loads and Fixtures.....	15
Connector Definitions.....	15
Contact Information.....	16
Mesh Information	17
Sensor Details	21
Resultant Forces	22
Beams.....	22
Study Results	23
Conclusion	26

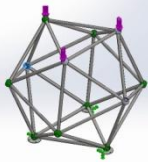
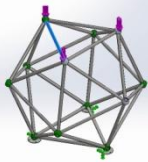
Description

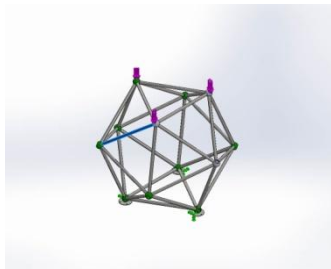
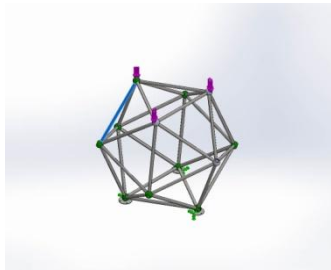
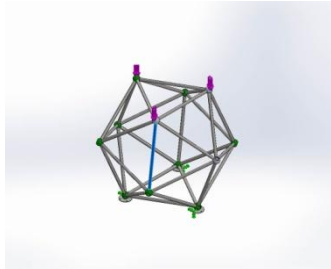
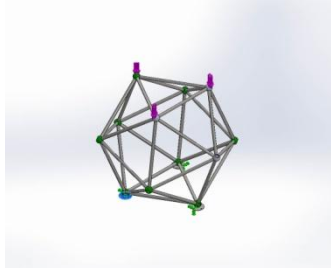
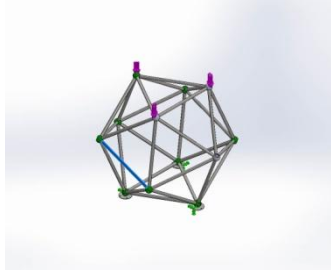
No Data

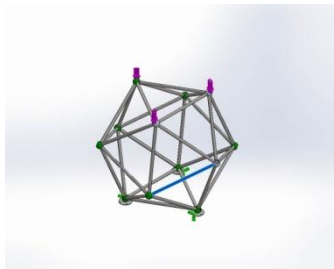
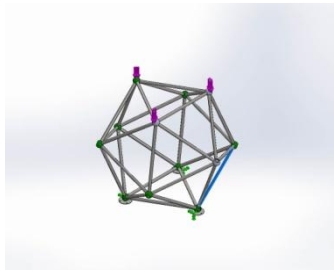
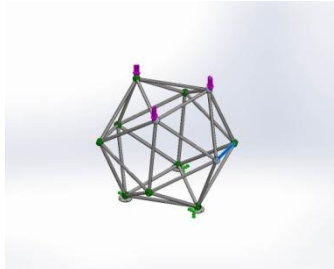
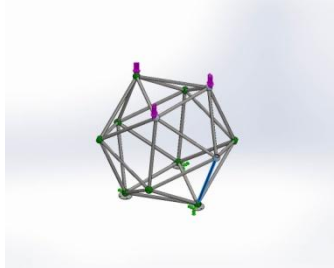
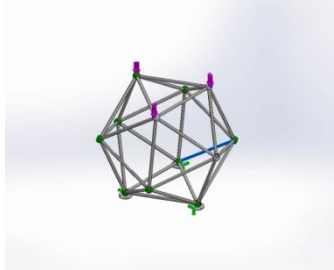


Assumptions

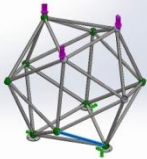
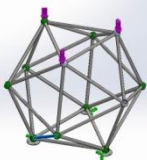
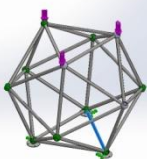
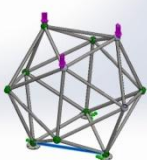
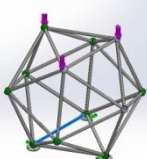
Model Information

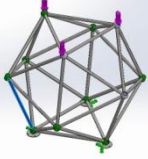
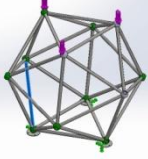
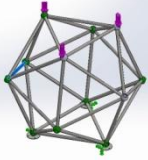
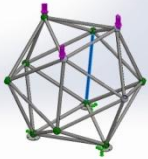
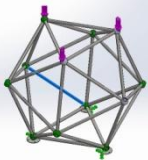
<L_MdInf_SldBd_Nm/>	Treated As	Volumetric Properties
<p data-bbox="407 533 495 562">YüzSil3</p> 	Solid Body	<p data-bbox="987 611 1300 730"> Mass: 1.50882 kg Volume: 0.00055884 m³ Density: 2699.92 kg/m³ Weight: 14.7865 N </p>
<p data-bbox="407 842 495 871">Girinti3</p> 	Solid Body	<p data-bbox="979 915 1308 1035"> Mass: 6.89336 kg Volume: 0.000883764 m³ Density: 7800 kg/m³ Weight: 67.5549 N </p>
<p data-bbox="407 1144 495 1173">Girinti3</p> 	Solid Body	<p data-bbox="979 1220 1308 1339"> Mass: 6.89958 kg Volume: 0.000884562 m³ Density: 7800 kg/m³ Weight: 67.6159 N </p>
<p data-bbox="407 1446 495 1476">Girinti4</p> 	Solid Body	<p data-bbox="979 1524 1308 1644"> Mass: 6.89422 kg Volume: 0.000883874 m³ Density: 7800 kg/m³ Weight: 67.5633 N </p>

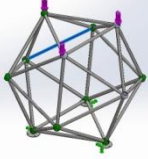
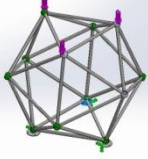
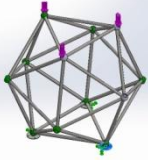
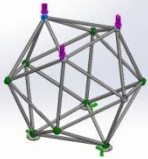
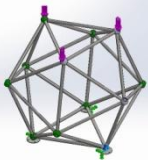
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89205 kg Volume:0.000883596 m³ Density:7800 kg/m³ Weight:67.5421 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90101 kg Volume:0.000884745 m³ Density:7800 kg/m³ Weight:67.6299 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90267 kg Volume:0.000884958 m³ Density:7800 kg/m³ Weight:67.6462 N</p>
<p>Girinti1</p> 	<p>Solid Body</p>	<p>Mass:3.28669 kg Volume:0.000421371 m³ Density:7800 kg/m³ Weight:32.2096 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90209 kg Volume:0.000884883 m³ Density:7800 kg/m³ Weight:67.6405 N</p>

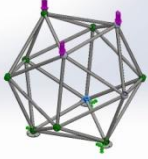
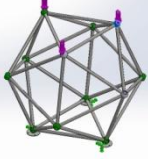
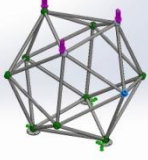
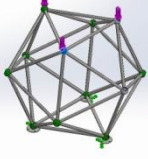
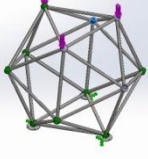
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90275 kg Volume:0.000884968 m³ Density:7800 kg/m³ Weight:67.647 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89136 kg Volume:0.000883508 m³ Density:7800 kg/m³ Weight:67.5353 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89378 kg Volume:0.000883818 m³ Density:7800 kg/m³ Weight:67.5591 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.898 kg Volume:0.000884359 m³ Density:7800 kg/m³ Weight:67.6004 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89909 kg Volume:0.000884499 m³ Density:7800 kg/m³ Weight:67.6111 N</p>

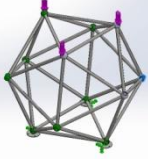
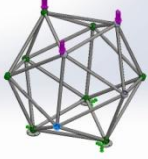
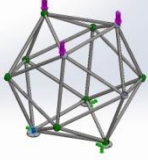
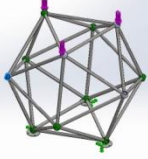
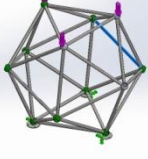


<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.9037 kg Volume:0.00088509 m³ Density:7800 kg/m³ Weight:67.6563 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90203 kg Volume:0.000884876 m³ Density:7800 kg/m³ Weight:67.6399 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89422 kg Volume:0.000883874 m³ Density:7800 kg/m³ Weight:67.5634 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89392 kg Volume:0.000883836 m³ Density:7800 kg/m³ Weight:67.5605 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89541 kg Volume:0.000884027 m³ Density:7800 kg/m³ Weight:67.575 N</p>

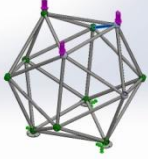
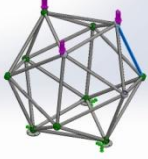
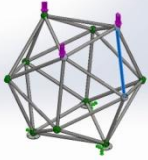
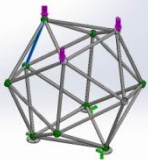
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89671 kg Volume:0.000884193 m³ Density:7800 kg/m³ Weight:67.5877 N</p>
<p>Girinti5</p> 	<p>Solid Body</p>	<p>Mass:6.89796 kg Volume:0.000884353 m³ Density:7800 kg/m³ Weight:67.6 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89342 kg Volume:0.000883771 m³ Density:7800 kg/m³ Weight:67.5555 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90173 kg Volume:0.000884838 m³ Density:7800 kg/m³ Weight:67.637 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89879 kg Volume:0.00088446 m³ Density:7800 kg/m³ Weight:67.6082 N</p>

<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90119 kg Volume:0.000884768 m³ Density:7800 kg/m³ Weight:67.6317 N</p>
<p>Girinti1</p> 	<p>Solid Body</p>	<p>Mass:3.28669 kg Volume:0.00042137 m³ Density:7800 kg/m³ Weight:32.2095 N</p>
<p>Girinti1</p> 	<p>Solid Body</p>	<p>Mass:3.28668 kg Volume:0.000421369 m³ Density:7800 kg/m³ Weight:32.2094 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50887 kg Volume:0.00055884 m³ Density:2700 kg/m³ Weight:14.7869 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50882 kg Volume:0.00055884 m³ Density:2699.92 kg/m³ Weight:14.7865 N</p>

<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass: 1.50883 kg Volume: 0.00055884 m³ Density: 2699.94 kg/m³ Weight: 14.7866 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass: 1.50883 kg Volume: 0.00055884 m³ Density: 2699.93 kg/m³ Weight: 14.7865 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass: 1.50883 kg Volume: 0.00055884 m³ Density: 2699.94 kg/m³ Weight: 14.7866 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass: 1.50883 kg Volume: 0.00055884 m³ Density: 2699.92 kg/m³ Weight: 14.7865 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass: 1.50884 kg Volume: 0.00055884 m³ Density: 2699.94 kg/m³ Weight: 14.7866 N</p>

<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50887 kg Volume:0.00055884 m³ Density:2700 kg/m³ Weight:14.7869 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50883 kg Volume:0.00055884 m³ Density:2699.93 kg/m³ Weight:14.7865 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50887 kg Volume:0.00055884 m³ Density:2699.99 kg/m³ Weight:14.7869 N</p>
<p>YüzSil3</p> 	<p>Solid Body</p>	<p>Mass:1.50883 kg Volume:0.00055884 m³ Density:2699.93 kg/m³ Weight:14.7865 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90144 kg Volume:0.000884799 m³ Density:7800 kg/m³ Weight:67.6341 N</p>



<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.90195 kg Volume:0.000884866 m³ Density:7800 kg/m³ Weight:67.6392 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89655 kg Volume:0.000884173 m³ Density:7800 kg/m³ Weight:67.5862 N</p>
<p>Girinti3</p> 	<p>Solid Body</p>	<p>Mass:6.89241 kg Volume:0.000883642 m³ Density:7800 kg/m³ Weight:67.5456 N</p>
<p>Girinti2</p> 	<p>Solid Body</p>	<p>Mass:6.89355 kg Volume:0.000883788 m³ Density:7800 kg/m³ Weight:67.5568 N</p>
<p>Girinti2</p> 	<p>Solid Body</p>	<p>Mass:6.89801 kg Volume:0.00088436 m³ Density:7800 kg/m³ Weight:67.6005 N</p>



Girinti3 	Solid Body	Mass:6.89198 kg Volume:0.000883587 m³ Density:7800 kg/m³ Weight:67.5414 N
<L_MdInf_ShIBd_Nm/>	<L_MdIn_ShIBd_Fr/>	<L_MdInf_ShIBd_VolProp/>
<L_MdInf_CpBd_Nm/>		
<L_MdInf_BmBd_Nm/>	<L_MdIn_BmBd_Fr/>	<L_MdInf_BmBd_VolProp/>

Study Properties

Study name	Static 1
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	Automatic
Inplane Effect:	Off
Soft Spring:	Off
Inertial Relief:	Off
Incompatible bonding options	More accurate (slower)
Large displacement	Off
Compute free body forces	Off
Friction	Off
Use Adaptive Method:	Off

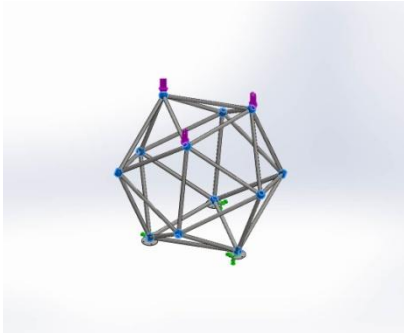
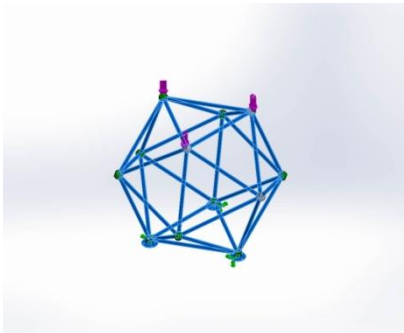


Units

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



Material Properties

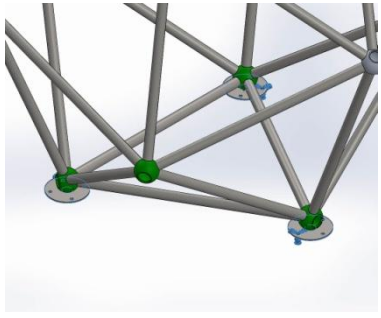
Model Reference	Properties	Components
	<p> Name: 1060 Alaşım Model type: Linear Elastic Isotropic Default failure criterion: Unknown Yield strength: 2.75742e+007 N/m² Tensile strength: 6.89356e+007 N/m² Elastic modulus: 6.9e+010 N/m² Poisson's ratio: 0.33 Mass density: 2700 kg/m³ Shear modulus: 2.7e+010 N/m² Thermal expansion coefficient: 2.4e-005 /Kelvin </p>	<p> SolidBody 1(YüzSil3)(11111Imported_90-11), SolidBody 1(YüzSil3)(Imported_90-10), SolidBody 1(YüzSil3)(Imported_90-12), SolidBody 1(YüzSil3)(Imported_90-13), SolidBody 1(YüzSil3)(Imported_90-14), SolidBody 1(YüzSil3)(Imported_90-15), SolidBody 1(YüzSil3)(Imported_90-16), SolidBody 1(YüzSil3)(Imported_90-4), SolidBody 1(YüzSil3)(Imported_90-5), SolidBody 1(YüzSil3)(Imported_90-6), SolidBody 1(YüzSil3)(Imported_90-7), SolidBody 1(YüzSil3)(Imported_90-9) </p>
Curve Data:N/A		
	<p> Name: 1.0037 (S235JR) Model type: Linear Elastic Isotropic Default failure criterion: Max von Mises Stress Yield strength: 2.35e+008 N/m² Tensile strength: 3.6e+008 N/m² Elastic modulus: 2.1e+011 N/m² Poisson's ratio: 0.28 Mass density: 7800 kg/m³ Shear modulus: 7.9e+010 N/m² Thermal expansion coefficient: 1.1e-005 /Kelvin </p>	<p> SolidBody 1(Girinti3)(Imported_100-1), SolidBody 1(Girinti3)(Imported_101-1), SolidBody 1(Girinti4)(Imported_102-1), SolidBody 1(Girinti3)(Imported_103-1), SolidBody 1(Girinti3)(Imported_104-1), SolidBody 1(Girinti3)(Imported_105-1), SolidBody 1(Girinti1)(Imported_1054-1), SolidBody 1(Girinti3)(Imported_107-1), SolidBody 1(Girinti3)(Imported_108-1), SolidBody 1(Girinti3)(Imported_109-1), SolidBody 1(Girinti3)(Imported_110-1), </p>

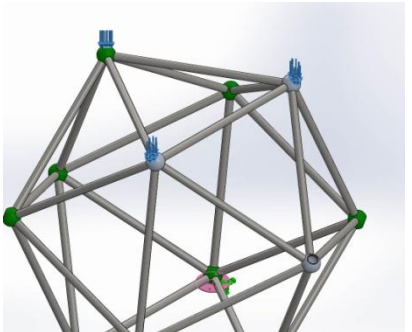


		SolidBody 1(Girinti3)(Imported_111-1), SolidBody 1(Girinti3)(Imported_113-1), SolidBody 1(Girinti3)(Imported_115-1), SolidBody 1(Girinti3)(Imported_116-1), SolidBody 1(Girinti3)(Imported_118-1), SolidBody 1(Girinti3)(Imported_119-1), SolidBody 1(Girinti3)(Imported_120-1), SolidBody 1(Girinti3)(Imported_121-1), SolidBody 1(Girinti5)(Imported_122-1), SolidBody 1(Girinti3)(Imported_123-1), SolidBody 1(Girinti3)(Imported_125-1), SolidBody 1(Girinti3)(Imported_126-1), SolidBody 1(Girinti3)(Imported_127-1), SolidBody 1(Girinti1)(Imported_128-1), SolidBody 1(Girinti1)(Imported_129-1), SolidBody 1(Girinti3)(Imported_91-1), SolidBody 1(Girinti3)(Imported_92-1), SolidBody 1(Girinti3)(Imported_93-1), SolidBody 1(Girinti3)(Imported_95-1), SolidBody 1(Girinti2)(Imported_96-1), SolidBody 1(Girinti2)(Imported_98-1), SolidBody 1(Girinti3)(Imported_99-1)
Curve Data:N/A		



Loads and Fixtures

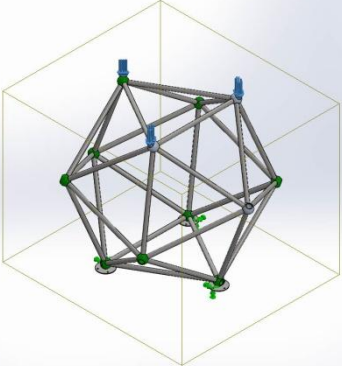
Fixture name	Fixture Image	Fixture Details		
Sabitlenmiş-1		Entities: 3 face(s) Type: Fixed Geometry		
Resultant Forces				
Components	X	Y	Z	Resultant
Reaction force(N)	-0.107291	13200.9	0.428313	13200.9
Reaction Moment(N.m)	0	0	0	0

Load name	Load Image	Load Details
Kuvvet-1		Entities: 3 face(s) Reference: Face< 1 > Type: Apply force Values: ---, ---, -13200 N Phase Angle: 0 Units: deg

Connector Definitions

No Data

Contact Information

Contact	Contact Image	Contact Properties
Global Temas		Type: Bonded Components: 1 component(s) Options: Compatible mesh



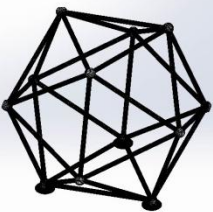
Mesh Information

Mesh type	Solid Mesh
Mesher Used:	Curvature based mesh
Jacobian points	4 Points
Maximum element size	123.123 mm
Minimum element size	24.6246 mm
Mesh Quality	High
Remesh failed parts with incompatible mesh	Off

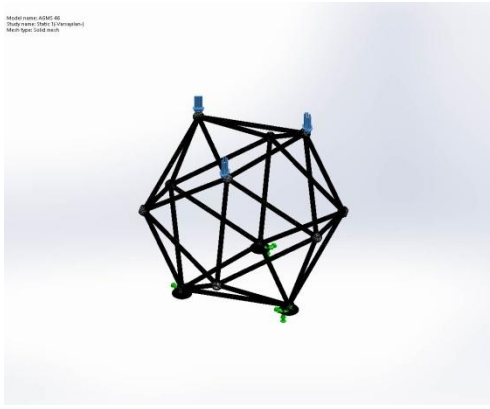
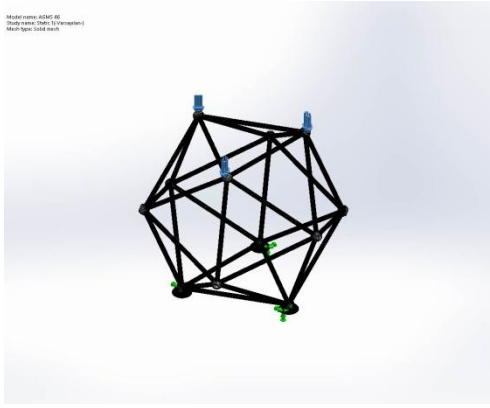
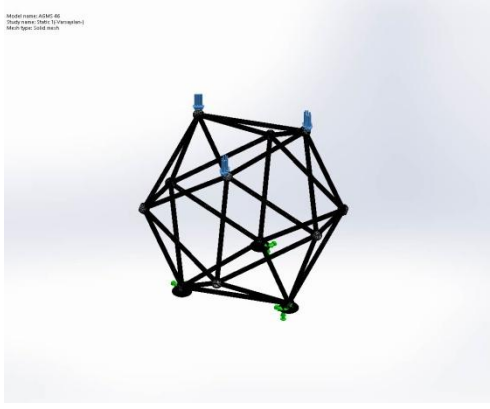
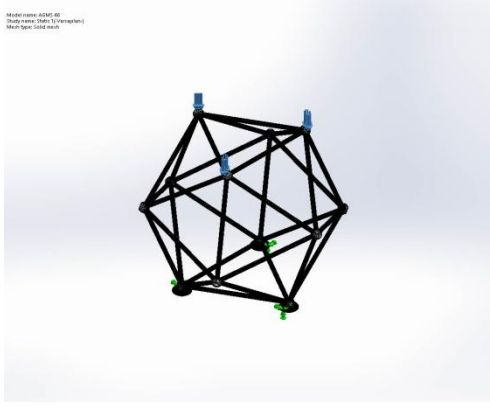
Mesh Information - Details

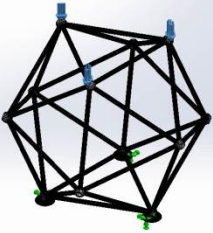
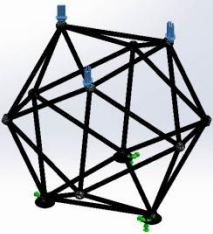
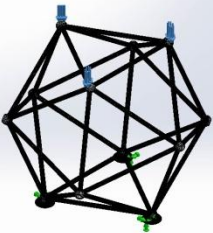
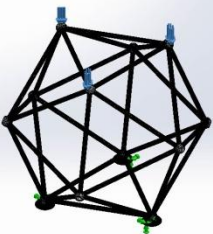
Total Nodes	1371994
Total Elements	708733
Maximum Aspect Ratio	18.976
% of elements with Aspect Ratio < 3	87.1
% of elements with Aspect Ratio > 10	0.0442
% of distorted elements(Jacobian)	0
Time to complete mesh(hh:mm:ss):	00:01:34
Information	The results are not conclusive. It varies by knitting quality.

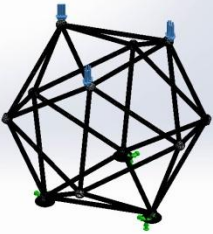
Mesh Control Information:

Mesh Control Name	Mesh Control Image	Mesh Control Details
Kontrol-1		Entities: 138 component(s) Units: mm Size: 60.4996 Ratio: 1.5



<p>Kontrol-2</p>		<p>Entities: 138 component(s) Units: mm Size: 52.4923 Ratio: 1.5</p>
<p>Kontrol-3</p>		<p>Entities: 138 component(s) Units: mm Size: 44.485 Ratio: 1.5</p>
<p>Kontrol-4</p>		<p>Entities: 138 component(s) Units: mm Size: 35.588 Ratio: 1.5</p>
<p>Kontrol-5</p>		<p>Entities: 100 component(s) Units: mm Size: 9.61741 Ratio: 1.5</p>

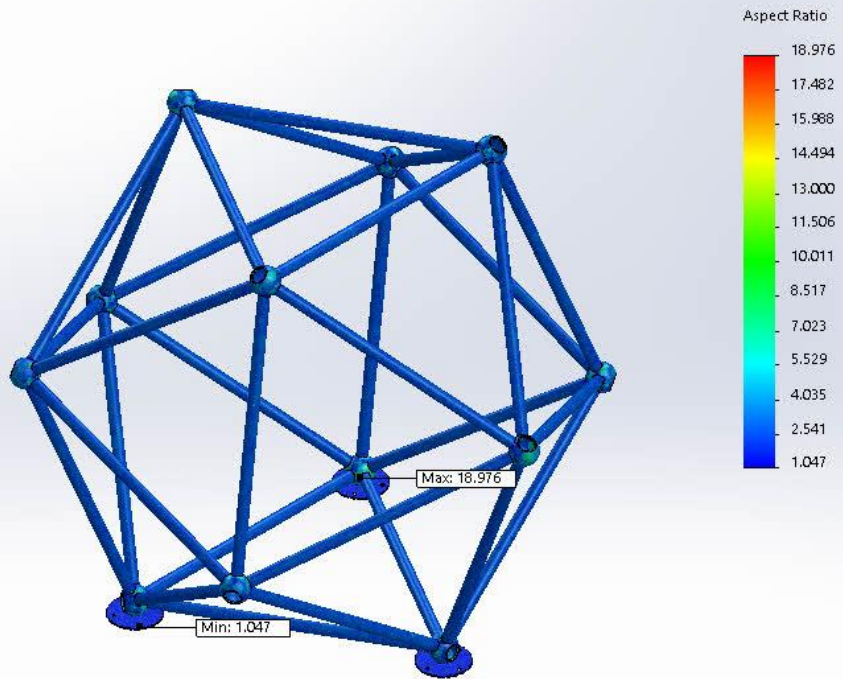
<p>Kontrol-6</p>		<p>Entities: 138 component(s) Units: mm Size: 9.61684 Ratio: 1.5</p>
<p>Kontrol-7</p>		<p>Entities: 138 component(s) Units: mm Size: 9.61684 Ratio: 1.5</p>
<p>Kontrol-8</p>		<p>Entities: 138 component(s) Units: mm Size: 9.61684 Ratio: 1.5</p>
<p>Kontrol-9</p>		<p>Entities: 138 component(s) Units: mm Size: 9.61684 Ratio: 1.5</p>

Kontrol-10		Entities: 138 component(s) Units: mm Size: 9.61684 Ratio: 1.5
------------	---	--

Mesh Quality Plots

Name	Type	Min	Max
Mesh Kalitesi1	Aspect Ratio	1.04711 Element: 115965	18.9758 Element: 561137

Model name: AGMS 46
Study name: Static 1(-Varsayilan-)
Plot type: Aspect ratio Mesh Kalitesi1



AGMS 46-Static 1-Mesh Quality-Mesh Kalitesi1

Sensor Details

No Data

Resultant Forces

Reaction Forces

Selection set	Units	Sum X	Sum Y	Sum Z	Resultant
Entire Model	N	-0.107291	13200.9	0.428313	13200.9

Reaction Moments

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

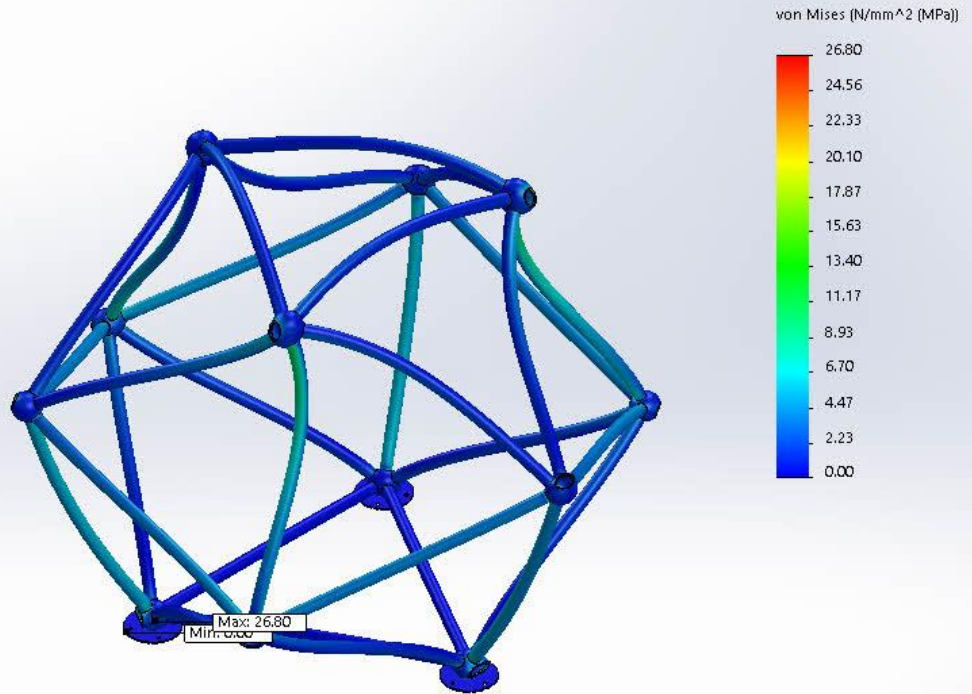
Beams

No Data

Study Results

Name	Type	Min	Max
Stres1	VON: von Mises Stress	2.17652e-006 N/mm ² (MPa) Node: 241108	26.7979 N/mm ² (MPa) Node: 1097917

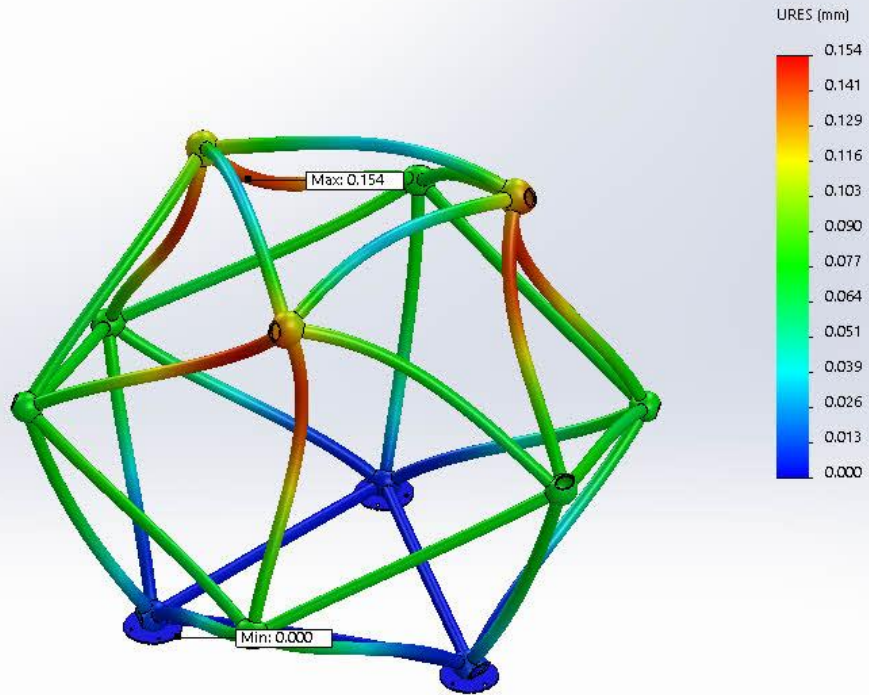
Model name: AGMS 46
 Study name: Static 1(-Varsayılan-)
 Plot type: Static nodal stress Stres1
 Deformation scale: 1982.91



AGMS 46-Static 1-Stress-Stres1

Name	Type	Min	Max
Yer deęiřtirme1	URES: Resultant Displacement	0 mm Node: 227336	0.154292 mm Node: 1260180

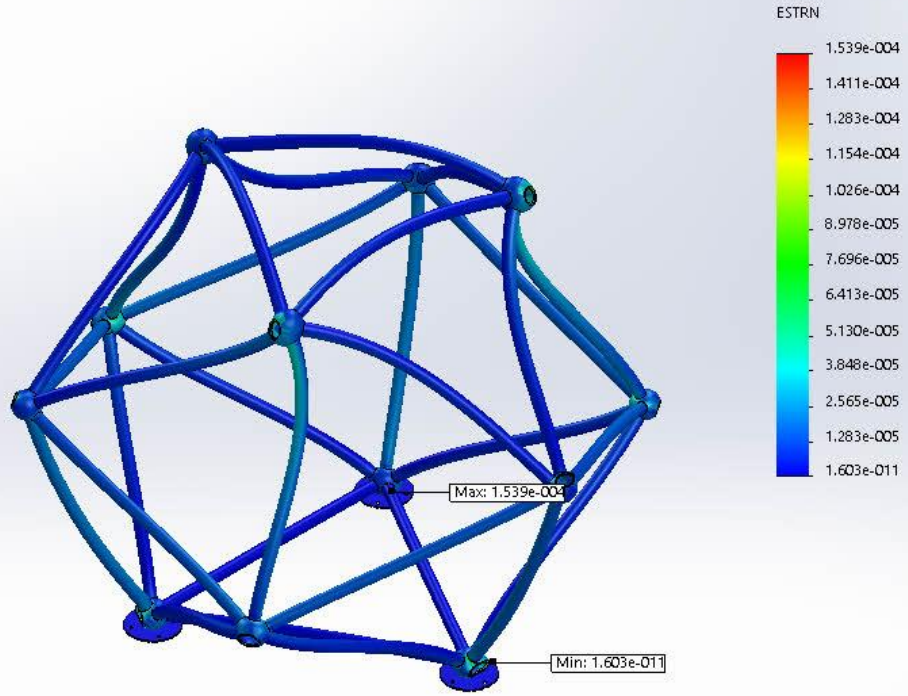
Model name: AGMS 46
 Study name: Static 1(-Varsayılan-)
 Plot type: Static displacement Yer deęiřtirme1
 Deformation scale: 1982,91



AGMS 46-Static 1-Displacement-Yer deęiřtirme1

Name	Type	Min	Max
Gerinim1	ESTRN: Equivalent Strain	1.6031e-011 Element: 546877	0.000153914 Element: 562324

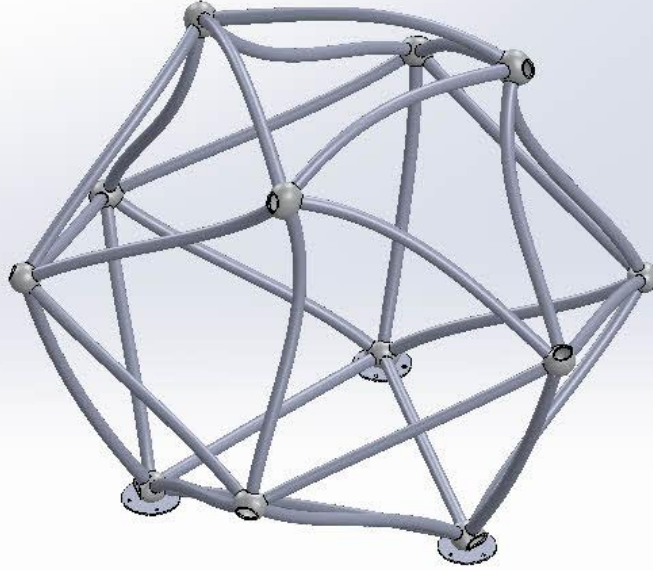
Model name: AGMS 46
Study name: Static 1(-Varsayilan-)
Plot type: Static strain Gerinim1
Deformation scale: 1982,91



AGMS 46-Static 1-Strain-Gerinim1

Name	Type
Yer deęiřtirme1{1}	Deformed Shape

Model name: AGMS 46
Study name: Static 1(-Varsayilan-)
Plot type: Deformed Shape Yer deęiřtirme1{1}
Deformation scale: 1982,91



AGMS 46-Static 1-Displacement-Yer deęiřtirme1{1}

Conclusion