

ANALISIS_MECANISMO2

MESH:

Entity	Size
Nodes	5261
Elements	16840

ELEMENT TYPE:

Connectivity	Statistics
SPIDER	764 (4,54%)
BAR	231 (1,37%)
TE4	15845 (94,09%)

ELEMENT QUALITY:

Criterion	Good	Poor	Bad	Worst	Average
Stretch	15840 (99,97%)	5 (0,03%)	0 (0,00%)	0,291	0,611
Aspect Ratio	16058 (99,89%)	7 (0,04%)	11 (0,07%)	1000000,000	686,229

Materials.1

Material	F-0222
Young's modulus	2,05e+011N_m2
Poisson's ratio	0,3
Density	7830kg_m3
Yield strength	2,5e+008N_m2
Coefficient of thermal expansion	1,17e-005_Kdeg

Static Case

Boundary Conditions

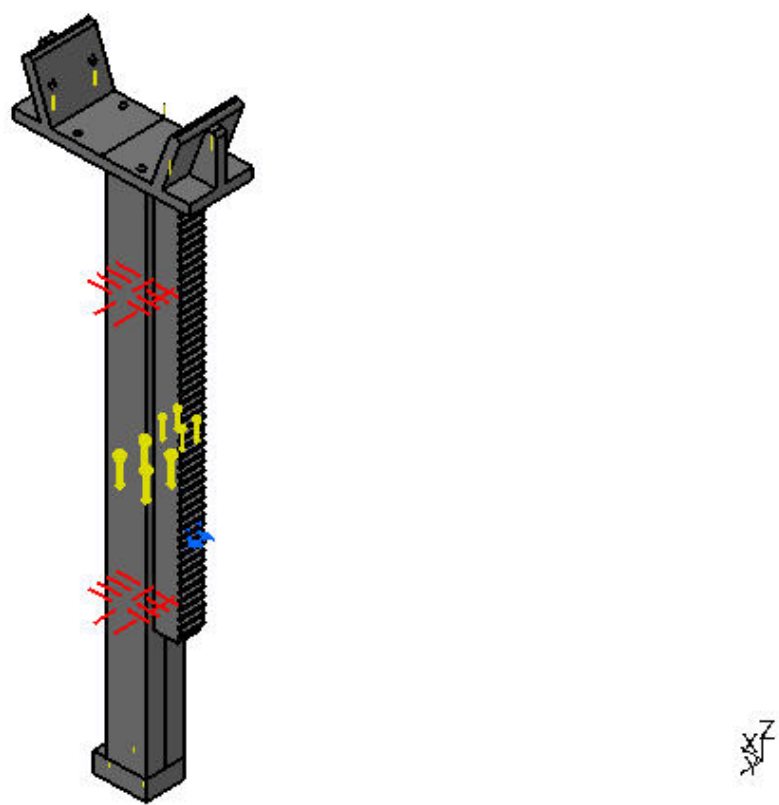


Figure 1

STRUCTURE Computation

Number of nodes	:	5261
Number of elements	:	16840
Number of D.O.F.	:	17169
Number of Contact relations	:	302
Number of coefficients	:	1148
Number of Kinematic relations	:	4158
Number of coefficients	:	14223

Linear tetrahedron	:	15845
Contact join	:	302
Solid to shell fastened join	:	462
Rigid spider	:	231

RESTRAINT Computation

Name: Restraints.1

Number of S.P.C : 283

LOAD Computation

Name: Loads.1

Applied load resultant :

Fx	=	0	.	000e+000	N
Fy	=	0	.	000e+000	N
Fz	=	-9	.	586e+002	N
Mx	=	1	.	905e+002	Nxm
My	=	-6	.	052e+001	Nxm
Mz	=	0	.	000e+000	Nxm

STRUCTURAL MASS Computation

Name: StructuralMassSet.1

Number of lines	:	17169	
Number of coefficients	:	264567	
Number of blocks	:	1	
Maximum number of coefficients per bloc	:	264567	
Total matrix size	:	3	. 09 Mb

Structural mass : 4.581e+000 kg

Inertia center coordinates

Xg	:	-6	.	710e+001	mm
Yg	:	-2	.	067e+002	mm
Zg	:	-1	.	677e+001	mm

Inertia tensor at origin: kgxm2

2.822e-001	-6.356e-002	-4.952e-003
-6.356e-002	1.088e-001	-1.724e-002
-4.952e-003	-1.724e-002	2.189e-001

STIFFNESS Computation

Number of lines	:	17169
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Number of coefficients : 264567
 Number of blocks : 1
 Maximum number of coefficients per bloc : 264567
 Total matrix size : 3 . 09 Mb

SINGULARITY Computation

Restraint: Restraints.1

Number of local singularities : 0
 Number of singularities in translation : 0
 Number of singularities in rotation : 0
 Generated constraint type : MPC

CONSTRAINT Computation

Restraint: Restraints.1

Number of constraints : 4441
 Number of coefficients : 0
 Number of factorized constraints : 3431
 Number of coefficients : 22151
 Number of deferred constraints : 0

FACTORIZED Computation

Method : SPARSE
 Number of factorized degrees : 13738
 Number of supernodes : 2918
 Number of overhead indices : 110815
 Number of coefficients : 1099154
 Maximum front width : 464
 Maximum front size : 107880
 Size of the factorized matrix (Mb) : 8 . 38588
 Number of blocks : 2
 Number of Mflops for factorization : 1 . 881e+002
 Number of Mflops for solve : 4 . 465e+000
 Minimum relative pivot : 7 . 109e-005

Minimum and maximum pivot

Value	Dof	Node	x (mm)	y (mm)	z (mm)
2.0355e+006	Tx	4702	-1.2165e+002	-1.9830e+002	1.7021e+002
1.8974e+010	Ty	4689	-8.2439e+001	-2.1367e+002	1.6079e+002

5.3729e+006	Rx	5229	-4.7937e+001	-2.0530e+002	-2.5847e+002
1.7206e+009	Rx	5174	-7.7937e+001	-2.1705e+002	-1.4690e+002

Minimum pivot

Value	Dof	Node	x (mm)	y (mm)	z (mm)
2.0778e+006	Tx	4735	-1.1283e+002	-2.0609e+002	1.8285e+002
2.1250e+006	Ty	4732	-1.1424e+002	-2.0992e+002	1.8773e+002
2.1731e+006	Ty	4735	-1.1283e+002	-2.0609e+002	1.8285e+002
2.2087e+006	Ty	4701	-1.1326e+002	-1.9830e+002	1.6183e+002
2.2345e+006	Ty	4696	-9.2294e+001	-2.1926e+002	1.5763e+002
2.2648e+006	Tz	4732	-1.1424e+002	-2.0992e+002	1.8773e+002
2.3877e+006	Tx	4733	-1.1303e+002	-2.1973e+002	1.8280e+002
2.5522e+006	Tz	4733	-1.1303e+002	-2.1973e+002	1.8280e+002
2.5725e+006	Tz	4705	-1.1253e+002	-1.7713e+002	1.8324e+002

Value	Dof	Node	x (mm)	y (mm)	z (mm)
2.7909e+007	Rx	5170	-7.7937e+001	-2.1705e+002	-1.1775e+002
2.3040e+008	Rx	5167	-7.7937e+001	-2.1705e+002	-8.8598e+001
3.3739e+008	Rx	5169	-7.7937e+001	-2.1705e+002	-1.0317e+002
5.0069e+008	Rx	5114	-7.7937e+001	-2.0830e+002	-1.6147e+002
5.0340e+008	Rx	5160	-7.7937e+001	-2.1705e+002	-4.4873e+001
5.0528e+008	Rx	5090	-7.7937e+001	-1.9955e+002	-1.4690e+002
5.0631e+008	Rx	5162	-7.7937e+001	-2.1705e+002	-5.9448e+001
5.1700e+008	Rx	5151	-7.7937e+001	-2.1705e+002	2.8002e+001
5.2491e+008	Rx	5080	-7.7937e+001	-1.9955e+002	-7.4023e+001

Translational pivot distribution

Value	Percentage
10.E6 --> 10.E7	1.3860e-001
10.E7 --> 10.E8	2.9178e-002

10.E8 --> 10.E9	3.9609e+001
10.E9 --> 10.E10	5.9953e+001
10.E10 --> 10.E11	2.6990e-001

Rotational pivot distribution

Value	Percentage
10.E6 --> 10.E7	3.4483e+000
10.E7 --> 10.E8	3.4483e+000
10.E8 --> 10.E9	8.6207e+001
10.E9 --> 10.E10	6.8966e+000

DIRECT METHOD Computation

Name: Static Case Solution.1

Restraint: Restraints.1

Structural mass is taken into account

Load: Loads.1

Strain Energy : 5.865e-004 J

Contact analysis

(
Contact join
)

Contact Element	Contact Force N	Initial Clearance mm	Final Clearance mm
15846	No Contact	0.0000e+000	0.0000e+000
15847	1.1637e+002	0.0000e+000	0.0000e+000
15848	5.8598e+001	0.0000e+000	0.0000e+000

15849	No Contact	0.0000e+000	0.0000e+000
15850	No Contact	0.0000e+000	0.0000e+000
15851	No Contact	0.0000e+000	0.0000e+000
15852	No Contact	0.0000e+000	0.0000e+000
15853	No Contact	0.0000e+000	0.0000e+000
15854	No Contact	0.0000e+000	0.0000e+000
15855	No Contact	0.0000e+000	0.0000e+000
15856	No Contact	0.0000e+000	1.8860e-006
15857	No Contact	0.0000e+000	0.0000e+000
15858	1.1912e+002	0.0000e+000	0.0000e+000
15859	No Contact	0.0000e+000	0.0000e+000
15860	No Contact	0.0000e+000	0.0000e+000
15861	No Contact	0.0000e+000	0.0000e+000
15862	No Contact	0.0000e+000	0.0000e+000
15863	No Contact	0.0000e+000	0.0000e+000
15864	No Contact	0.0000e+000	0.0000e+000
15865	No Contact	0.0000e+000	0.0000e+000
15866	No Contact	0.0000e+000	0.0000e+000
15867	No Contact	0.0000e+000	0.0000e+000
15868	No Contact	0.0000e+000	0.0000e+000
15869	No Contact	0.0000e+000	0.0000e+000
15870	No Contact	0.0000e+000	0.0000e+000
15871	No Contact	0.0000e+000	0.0000e+000
15872	No Contact	0.0000e+000	3.4267e-007
15873	No Contact	0.0000e+000	0.0000e+000
15874	No Contact	0.0000e+000	0.0000e+000
15875	No Contact	0.0000e+000	0.0000e+000
15876	No Contact	0.0000e+000	0.0000e+000
15877	No Contact	0.0000e+000	0.0000e+000
15878	No Contact	0.0000e+000	1.9446e-006
15879	No Contact	0.0000e+000	6.6225e-007

15880	No Contact	0.0000e+000	7.1031e-008
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15882	No Contact	0.0000e+000	0.0000e+000
15883	No Contact	0.0000e+000	1.8627e-006
15884	No Contact	0.0000e+000	0.0000e+000
15885	No Contact	0.0000e+000	0.0000e+000
15886	1.6106e+002	0.0000e+000	0.0000e+000
15887	No Contact	0.0000e+000	6.8790e-006
15888	No Contact	0.0000e+000	0.0000e+000
15889	No Contact	0.0000e+000	0.0000e+000
15890	No Contact	0.0000e+000	5.9542e-008
15891	No Contact	0.0000e+000	1.3464e-005
15892	No Contact	0.0000e+000	0.0000e+000
15893	No Contact	0.0000e+000	0.0000e+000
15894	No Contact	0.0000e+000	0.0000e+000
15895	3.1723e+001	0.0000e+000	0.0000e+000
15896	1.0374e+002	0.0000e+000	0.0000e+000
15897	No Contact	0.0000e+000	0.0000e+000
15898	No Contact	0.0000e+000	0.0000e+000
15899	6.0095e+000	0.0000e+000	0.0000e+000
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15901	No Contact	0.0000e+000	0.0000e+000
15902	2.2076e+001	0.0000e+000	0.0000e+000
15903	No Contact	0.0000e+000	2.3134e-007
15904	No Contact	0.0000e+000	0.0000e+000
15905	No Contact	0.0000e+000	0.0000e+000
15906	2.4859e-015	0.0000e+000	0.0000e+000
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15908	No Contact	0.0000e+000	3.2985e-007
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15917	No Contact	0.0000e+000	0.0000e+000
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15923	No Contact	0.0000e+000	1.7339e-006
15924	No Contact	0.0000e+000	1.9240e-006
15925	No Contact	0.0000e+000	5.3255e-008
15926	No Contact	0.0000e+000	0.0000e+000
15927	No Contact	0.0000e+000	0.0000e+000
15928	No Contact	0.0000e+000	1.5699e-006
15929	No Contact	0.0000e+000	0.0000e+000
15930	No Contact	0.0000e+000	0.0000e+000
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15936	No Contact	0.0000e+000	0.0000e+000
15937	No Contact	0.0000e+000	0.0000e+000
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15939	No Contact	0.0000e+000	0.0000e+000
15940	No Contact	0.0000e+000	0.0000e+000
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15943	No Contact	0.0000e+000	0.0000e+000
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15998	No Contact	0.0000e+000	8.2761e-006
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16001	No Contact	0.0000e+000	0.0000e+000
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16004	No Contact	0.0000e+000	1.3798e-006
16005	No Contact	0.0000e+000	2.4218e-006
16006	No Contact	0.0000e+000	3.3992e-006

16007	No Contact	0.0000e+000	3.4031e-006
16008	No Contact	0.0000e+000	4.3689e-006
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16011	No Contact	0.0000e+000	6.3024e-006
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16014	No Contact	0.0000e+000	8.1604e-006
16015	No Contact	0.0000e+000	9.1359e-006
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16048	No Contact	0.0000e+000	1.0182e-005
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16057	No Contact	0.0000e+000	5.4203e-006
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16059	No Contact	0.0000e+000	7.2635e-006
16060	No Contact	0.0000e+000	8.1861e-006
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16063	No Contact	0.0000e+000	5.1358e-007
16064	3.1176e-017	0.0000e+000	0.0000e+000
16065	No Contact	0.0000e+000	1.4030e-006
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16068	No Contact	0.0000e+000	3.3569e-006
16069	No Contact	0.0000e+000	4.3308e-006
16070	No Contact	0.0000e+000	4.4048e-006

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16072	No Contact	0.0000e+000	5.3018e-006
16073	No Contact	0.0000e+000	6.2667e-006
16074	No Contact	0.0000e+000	6.3020e-006
16075	No Contact	0.0000e+000	7.2441e-006
16076	No Contact	0.0000e+000	7.2083e-006
16077	No Contact	0.0000e+000	0.0000e+000
16078	No Contact	0.0000e+000	0.0000e+000
16079	No Contact	0.0000e+000	0.0000e+000
16080	No Contact	0.0000e+000	0.0000e+000
16081	No Contact	0.0000e+000	1.3329e-006
16082	No Contact	0.0000e+000	1.4128e-006
16083	No Contact	0.0000e+000	2.3847e-006
16084	No Contact	0.0000e+000	1.3006e-006
16085	No Contact	0.0000e+000	2.3594e-006
16086	No Contact	0.0000e+000	3.3454e-006
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16091	No Contact	0.0000e+000	6.2485e-006
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16093	No Contact	0.0000e+000	6.3044e-006
16094	No Contact	0.0000e+000	7.2099e-006
16095	No Contact	0.0000e+000	7.2329e-006
16096	No Contact	0.0000e+000	0.0000e+000
16097	No Contact	0.0000e+000	0.0000e+000
16098	No Contact	0.0000e+000	0.0000e+000
16099	No Contact	0.0000e+000	5.1203e-007
16100	No Contact	0.0000e+000	1.3278e-006
16101	No Contact	0.0000e+000	2.3776e-006

16102	No Contact	0.0000e+000	1.4037e-006
16103	No Contact	0.0000e+000	2.3654e-006
16104	No Contact	0.0000e+000	3.3406e-006
16105	No Contact	0.0000e+000	4.3003e-006
16106	No Contact	0.0000e+000	3.3256e-006
16107	No Contact	0.0000e+000	4.2542e-006
16108	No Contact	0.0000e+000	5.2680e-006
16109	No Contact	0.0000e+000	6.3004e-006
16110	No Contact	0.0000e+000	5.2734e-006
16111	No Contact	0.0000e+000	6.2105e-006
16112	No Contact	0.0000e+000	7.1728e-006
16113	No Contact	0.0000e+000	7.1658e-006
16114	2.2418e-001	0.0000e+000	0.0000e+000
16115	4.0327e-001	0.0000e+000	0.0000e+000
16116	No Contact	0.0000e+000	0.0000e+000
16117	No Contact	0.0000e+000	0.0000e+000
16118	No Contact	0.0000e+000	1.3959e-006
16119	No Contact	0.0000e+000	2.3673e-006
16120	No Contact	0.0000e+000	3.3610e-006
16121	No Contact	0.0000e+000	4.3070e-006
16122	No Contact	0.0000e+000	5.2787e-006
16123	No Contact	0.0000e+000	6.3705e-006
16124	No Contact	0.0000e+000	7.2375e-006
16125	No Contact	0.0000e+000	8.4701e-006
16126	No Contact	0.0000e+000	2.4016e-006
16127	No Contact	0.0000e+000	9.2207e-006
16128	No Contact	0.0000e+000	9.3435e-006
16129	No Contact	0.0000e+000	9.1067e-006
16130	No Contact	0.0000e+000	4.7066e-007
16131	No Contact	0.0000e+000	2.4092e-006
16132	No Contact	0.0000e+000	4.3178e-006
16133	No Contact	0.0000e+000	6.2626e-006

16134	No Contact	0.0000e+000	1.1107e-005
16135	No Contact	0.0000e+000	1.1105e-005
16136	No Contact	0.0000e+000	1.1107e-005
16137	No Contact	0.0000e+000	1.1107e-005
16138	No Contact	0.0000e+000	1.1105e-005
16139	No Contact	0.0000e+000	1.1092e-005
16140	No Contact	0.0000e+000	1.1097e-005
16141	No Contact	0.0000e+000	1.1102e-005
16142	No Contact	0.0000e+000	8.1838e-006
16143	9.2913e-002	0.0000e+000	0.0000e+000
16144	No Contact	0.0000e+000	1.6871e-008
16145	No Contact	0.0000e+000	2.4204e-006
16146	No Contact	0.0000e+000	4.3741e-006
16147	No Contact	0.0000e+000	6.3157e-006

Equilibrium

Components	Applied Forces	Reactions	Residual	Relative Magnitude Error
Fx (N)	0.0000e+000	-1.9001e-008	-1.9001e-008	6.9800e-011
Fy (N)	0.0000e+000	3.2490e-008	3.2490e-008	1.1935e-010
Fz (N)	-9.5862e+002	9.5862e+002	1.6826e-011	6.1810e-014
Mx (Nxm)	1.9047e+002	-1.9047e+002	-5.0354e-009	6.7641e-011
My (Nxm)	-6.0520e+001	6.0520e+001	-1.8757e-009	2.5197e-011
Mz (Nxm)	0.0000e+000	-6.0239e-009	-6.0239e-009	8.0918e-011

Static Case Solution.1 - Deformed mesh.1

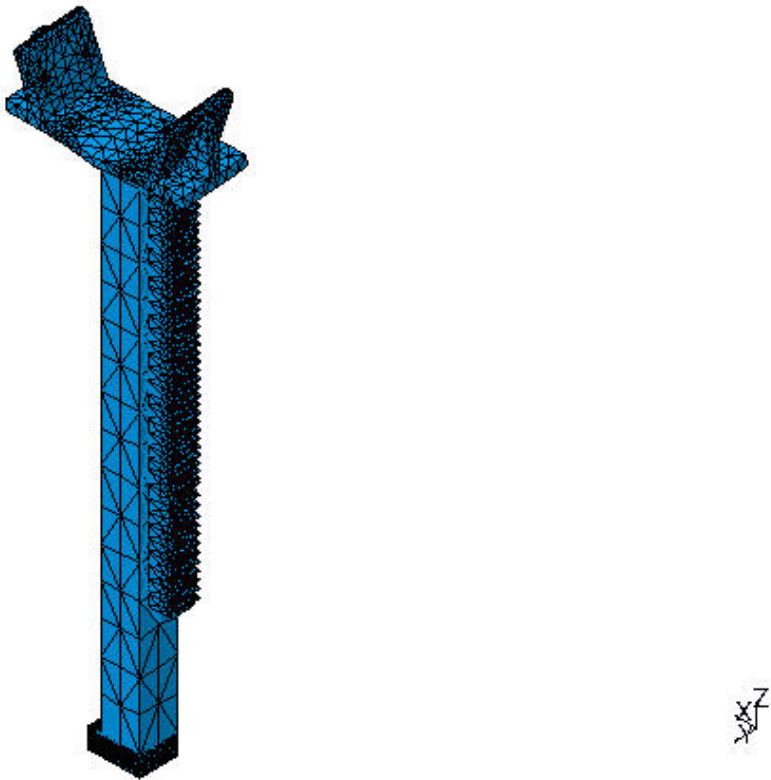


Figure 2

On deformed mesh ---- On boundary ---- Over all the model

Static Case Solution.1 - Von Mises stress (nodal values).2

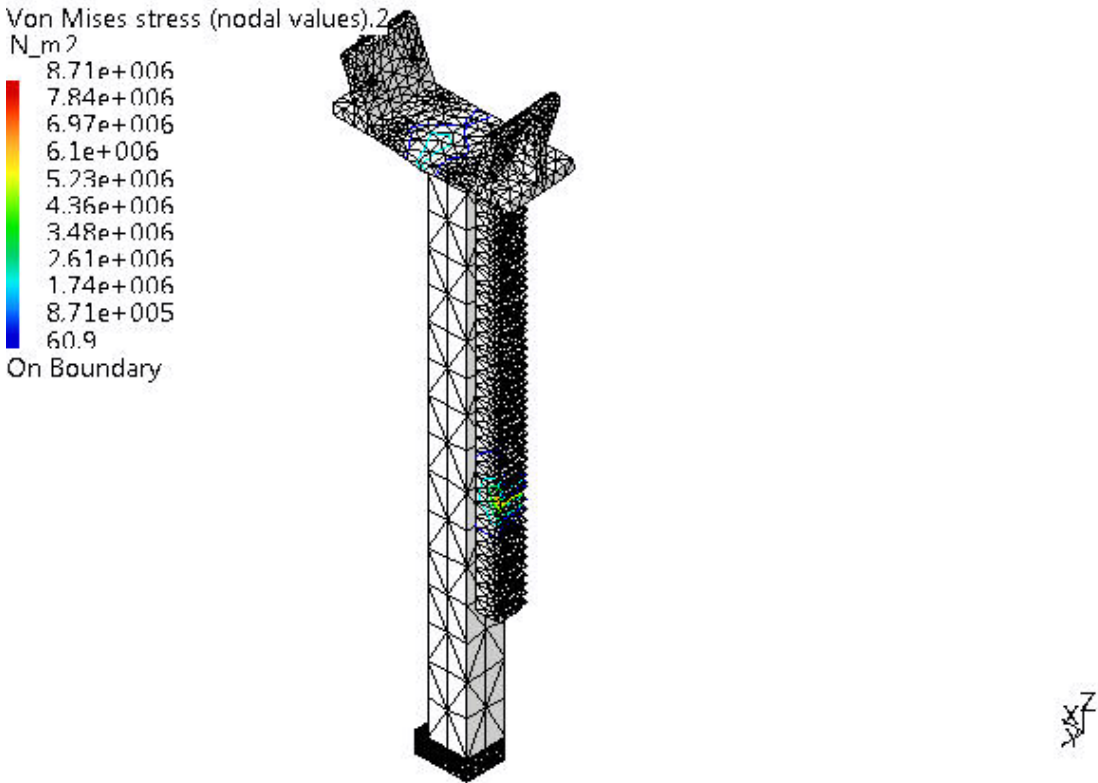


Figure 3

1D elements: : Components: : All

3D elements: : Components: : All

On deformed mesh ---- On boundary ---- Over all the model

Reaction Sensors

Sensor Name	Fx	Fy	Fz	Mx	My	Mz
REACCION_PINON-CREMALLERA	62,16N	9,834N	958,62N	-198,745Nxm	86,997Nxm	12,096Nxm

Global Sensors

Sensor Name	Sensor Value
Energy	5,865e-004J