

Kattoristikko lujuuslaskelma

Autodesk®

Analyzed File:	Kattoristikko.iam
Autodesk Inventor Version:	2013 SP2 (Build 170200200, 200)
Creation Date:	29.5.2013, 7:20
Simulation Author:	NJu
Summary:	

Project Info (iProperties)

Summary

Title Kattoristikko 1

Project

Designer NJu

Physical

Mass	122,449 kg
Center of Gravity	x=1944,38 mm y=-180,437 mm z=0,297521 mm

Note: Physical values could be different from Physical values used by FEA reported below.

Simulation:1

General objective and settings:

Design Objective	Single Point
Simulation Type	Static Analysis
Last Modification Date	29.5.2013, 7:17
Detect and Eliminate Rigid Body Modes	Yes
Separate Stresses Across Contact Surfaces	No
Motion Loads Analysis	No

Mesh settings:

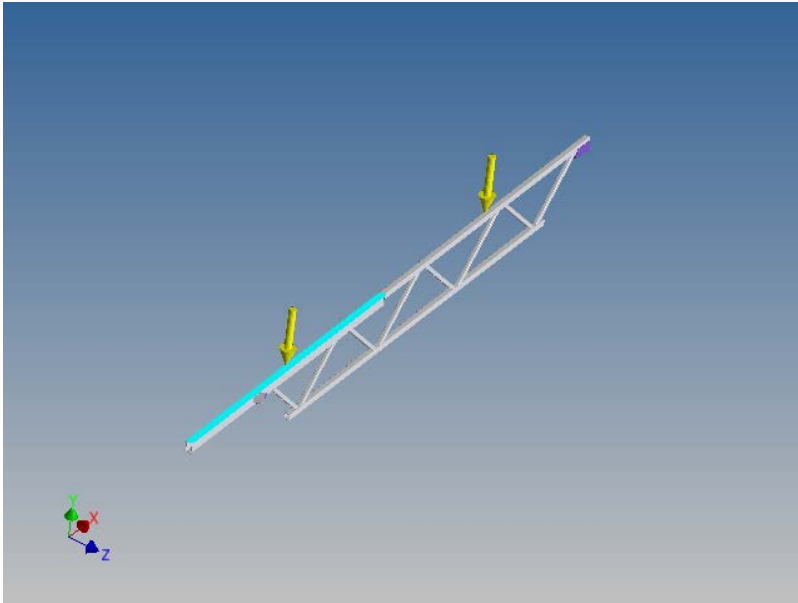
Avg. Element Size (fraction of model diameter)	0,1
Min. Element Size (fraction of avg. size)	0,2
Grading Factor	1,5
Max. Turn Angle	60 deg
Create Curved Mesh Elements	No
Use part based measure for Assembly mesh	Yes

Operating conditions

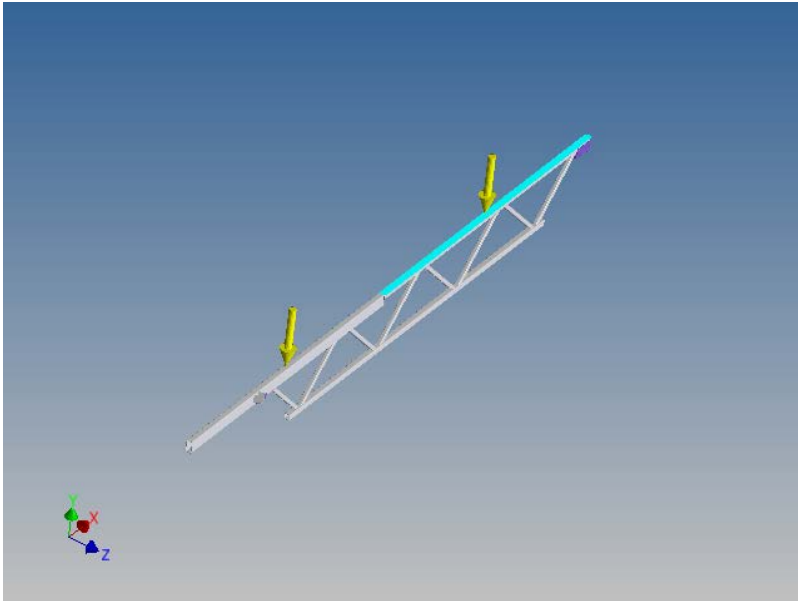
Force:1

Load Type	Force
Magnitude	19666,000 N
Vector X	0,000 N
Vector Y	-19666,000 N
Vector Z	0,000 N

☐

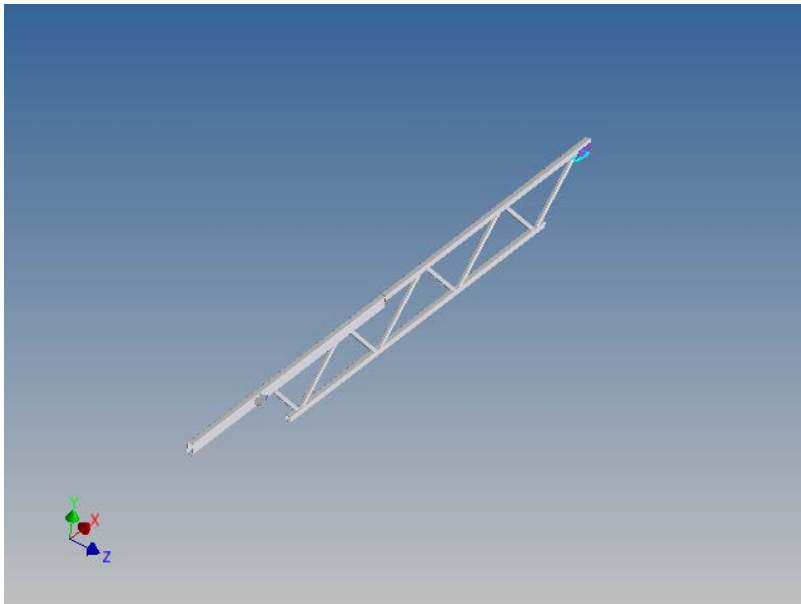
Selected Face(s) **Force:2**

Load Type	Force
Magnitude	21000,000 N
Vector X	0,000 N
Vector Y	-21000,000 N
Vector Z	0,000 N

 Selected Face(s) **Fixed Constraint:2**

Constraint Type	Fixed Constraint
-----------------	------------------

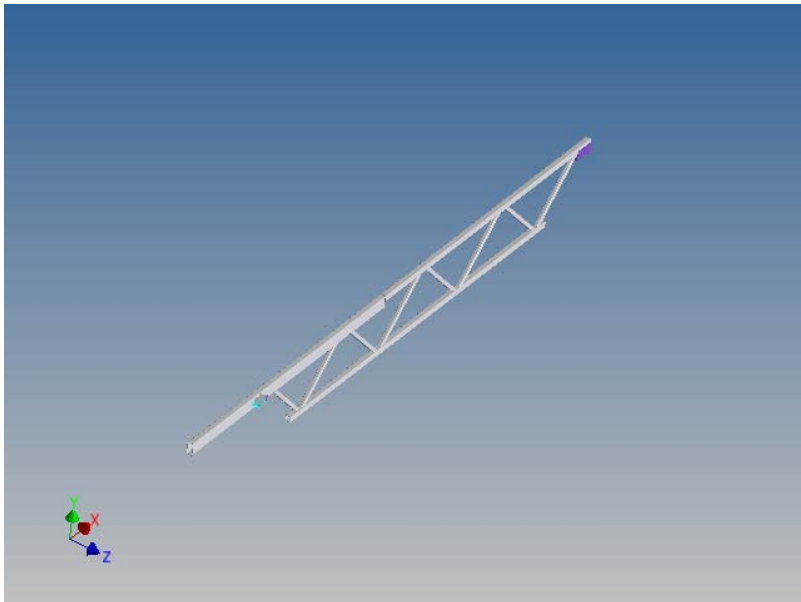
 Selected Face(s)



☐ Frictionless Constraint:2

Constraint Type Frictionless Constraint

☐ Selected Face(s)



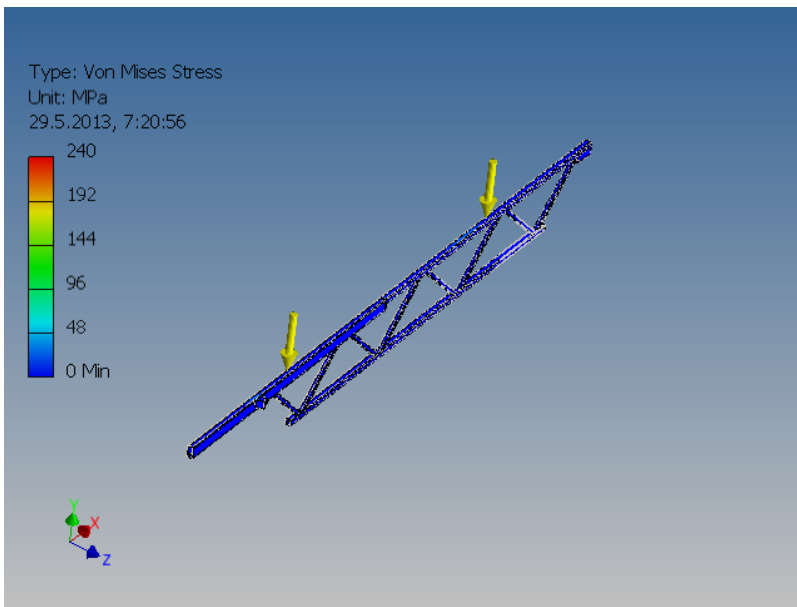
☐ Results

☐ Result Summary

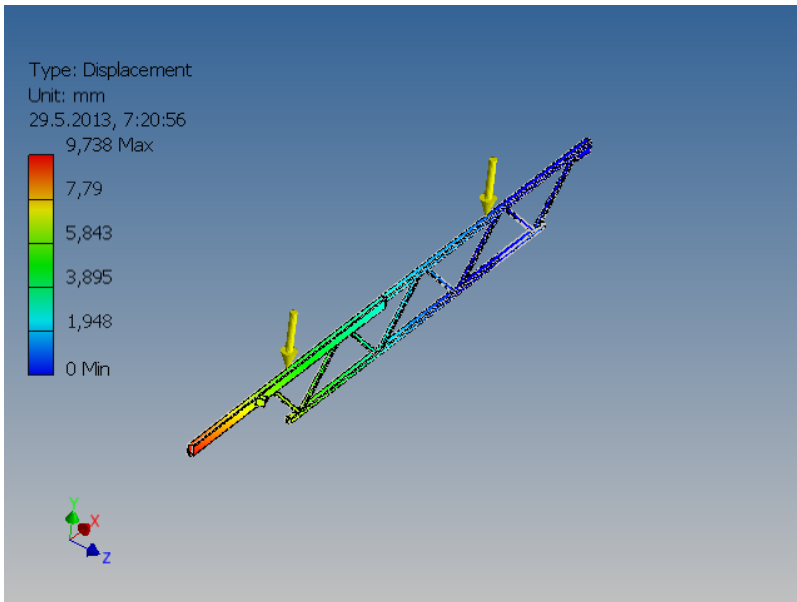
Name	Minimum	Maximum
Volume	15579300 mm ³	
Mass	122,449 kg	
Von Mises Stress	0,00235854 MPa	1214,88 MPa
Displacement	0 mm	9,73754 mm

☐ Figures

☐ Von Mises Stress



Displacement



C:\VaultWork\Suomen Unit_2008\Majakka pienempi\Kattoristikko.iam