INOVATYVŪS ANALIZĖS ĮRANKIAI

3DEXPERIENCE Works Portfolio Update

DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

SOLIDWORKS 2022 | TRUMPAI

SOLIDWORKS 2022 | DETALIAI

3DEXPERIENCE Works | DEBESYSE

INŽINERINIS BENDRADARBIAVIMAS DEBESYJE

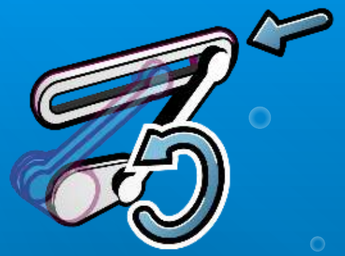
PROJEKTAVIMO ĮRANKIAI DEBESIJOJE

INOVATYVŪS ANALIZĖS ĮRANKIAI

SIMULIA

DASSAULT SYSTEMES

INOVATYVŪS ANALIZĖS ĮRANKIAI



SIMULIA

DASSAULT SYSTEMES

INOVATYVŪS ANALIZĖS ĮRANKIAI

SIMULIA

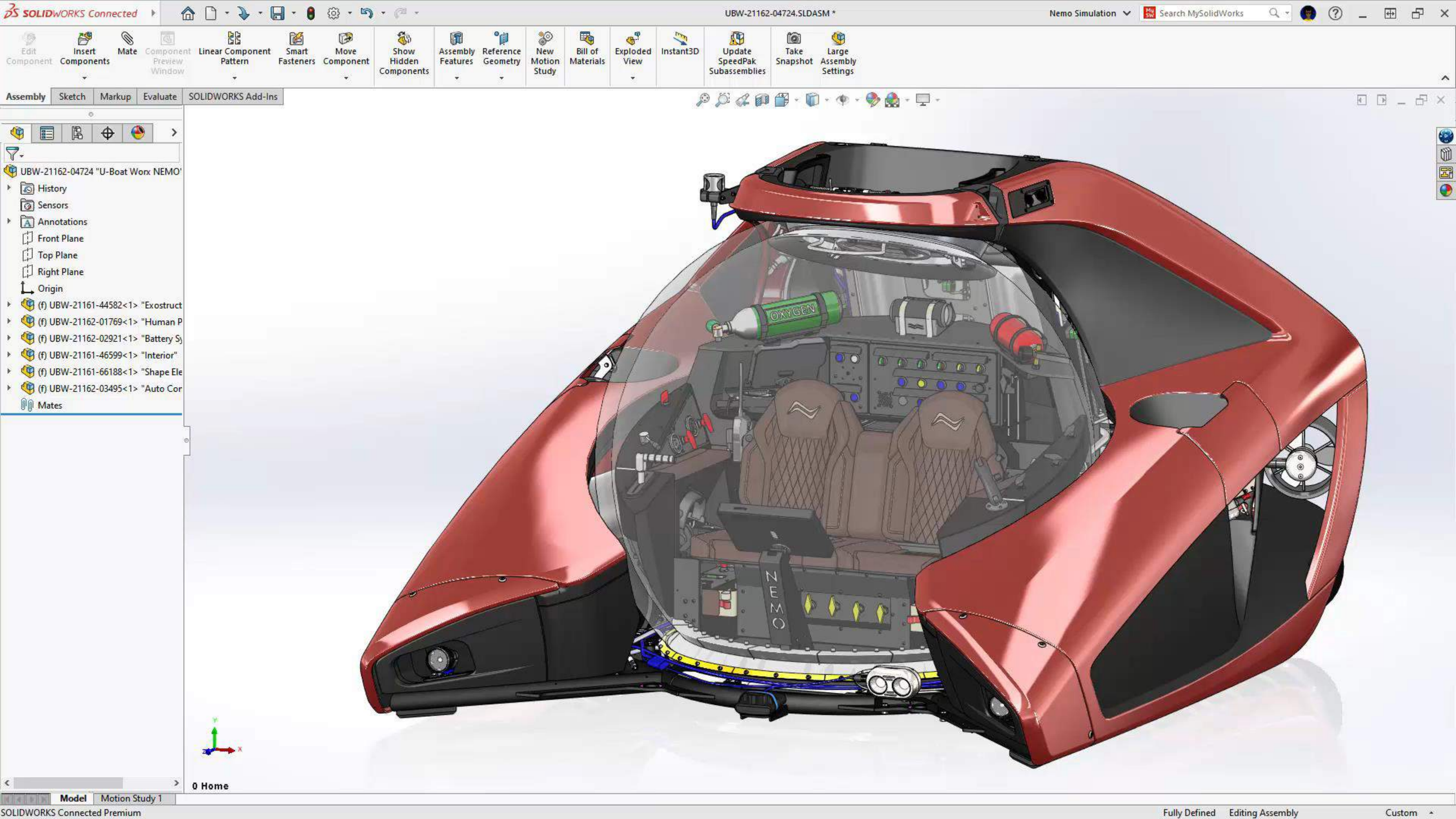
DASSAULT SYSTEMES

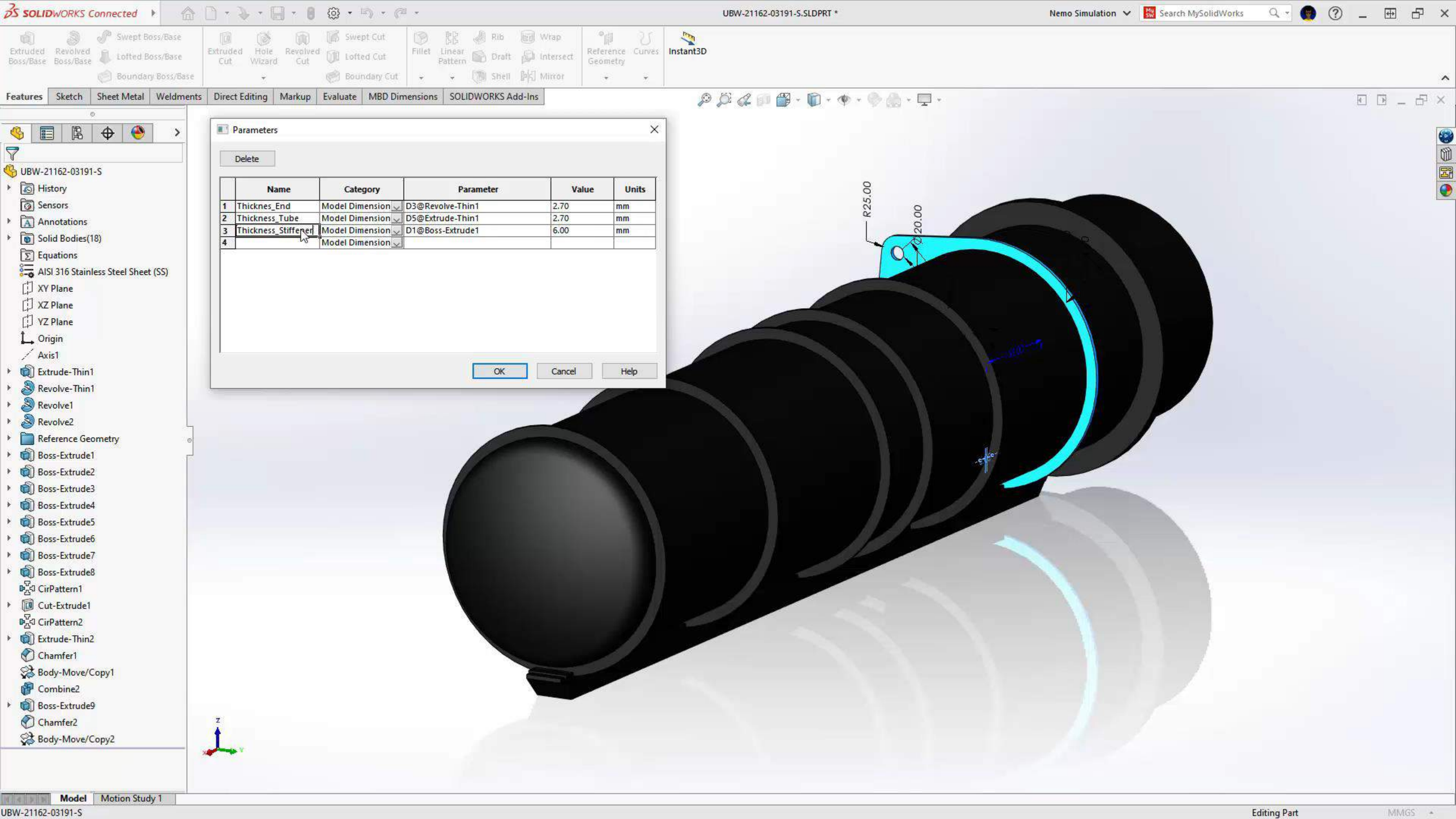
INOVATYVŪS ANALIZĖS ĮRANKIAI

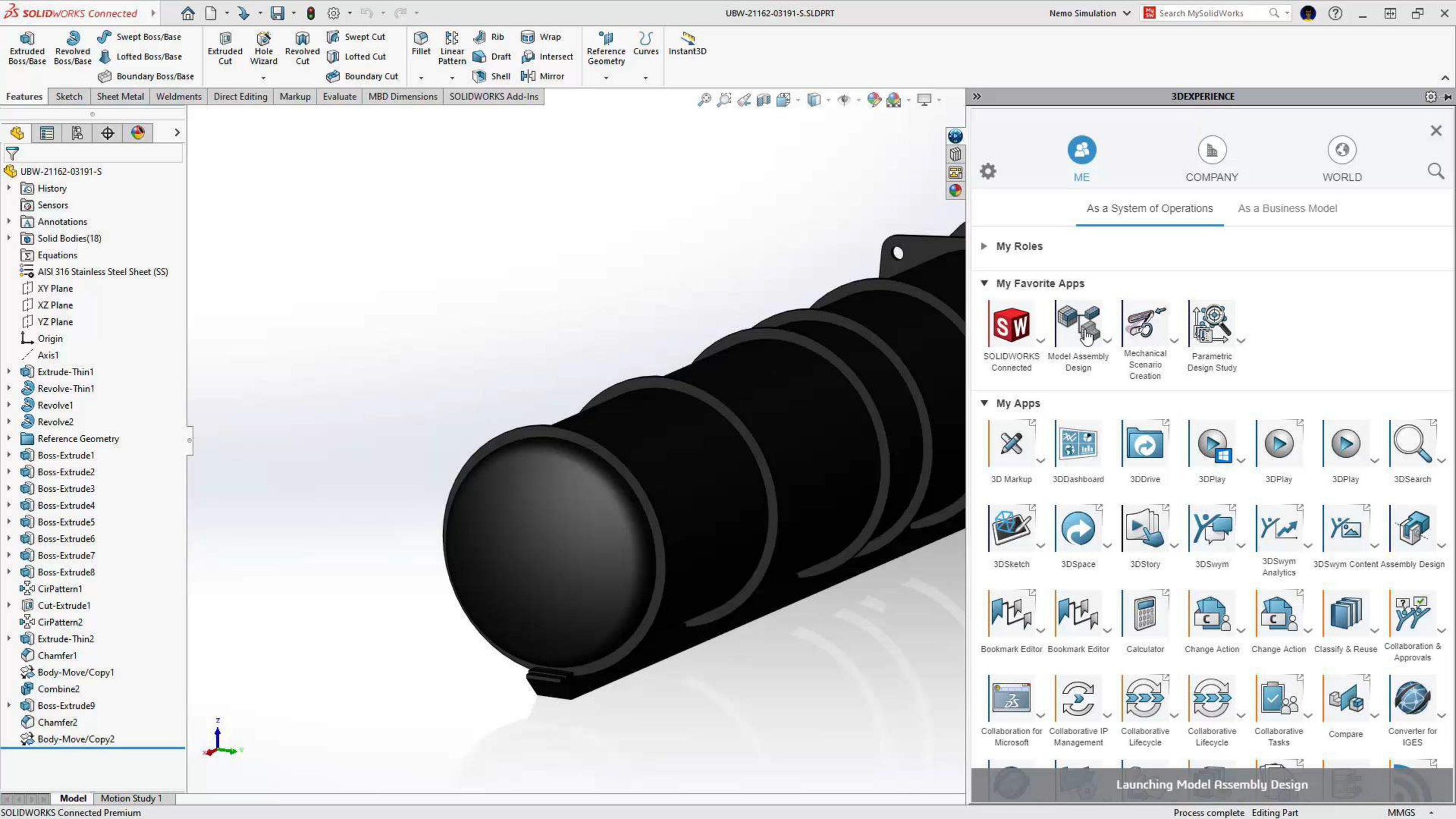
TECHNINIAI IR DIZAINO SPRENDIMAI

PATVARUMAS IR ILGAAMŽIŠKUMAS

BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA


SOLIDWORKS Connected
UBW-21162-04724.SLDASM *
Nemo Simulation
Search MySolidWorks
Edit Component
Insert Components
Mate
Component Preview Window
Linear Component Pattern
Smart Fasteners
Move Component
Show Hidden Components
Assembly Features
Reference Geometry
New Motion Study
Bill of Materials
Exploded View
Instant3D
Update SpeedPak Subassemblies
Take Snapshot
Large Assembly Settings
Assembly
Sketch
Markup
Evaluate
SOLIDWORKS Add-Ins
UBW-21162-04724 "U-Boat Worx NEMO'
History
Sensors
Annotations
Front Plane
Top Plane
Right Plane
Origin
(f) UBW-21161-44582<1> "Exostruct
(f) UBW-21162-01769<1> "Human P
(f) UBW-21162-02921<1> "Battery Sy
(f) UBW-21161-46599<1> "Interior"
(f) UBW-21161-66188<1> "Shape Ele
(f) UBW-21162-03495<1> "Auto Cor
Mates
OXYGEN
NEMO
0 Home
Model
Motion Study 1
SOLIDWORKS Connected Premium
Fully Defined
Editing Assembly
Custom


SOLIDWORKS Connected
UBW-21162-03191-S.SLDPRT *
Nemo Simulation
Search MySolidWorks
Extruded Boss/Base
Revolved Boss/Base
Swept Boss/Base
Lofted Boss/Base
Boundary Boss/Base
Extruded Cut
Hole Wizard
Revolved Cut
Swept Cut
Lofted Cut
Boundary Cut
Fillet
Linear Pattern
Rib
Draft
Shell
Wrap
Intersect
Mirror
Reference Geometry
Curves
Instant3D
Features
Sketch
Sheet Metal
Weldments
Direct Editing
Markup
Evaluate
MBD Dimensions
SOLIDWORKS Add-Ins
Parameters
Delete
Name
Category
Parameter
Value
Units
1 Thicknes_End Model Dimension D3@Revolve-Thin1 2.70 mm
2 Thickness_Tube Model Dimension D5@Extrude-Thin1 2.70 mm
3 Thickness_Stiffener Model Dimension D1@Boss-Extrude1 6.00 mm
4 Model Dimension
OK
Cancel
Help
UBW-21162-03191-S
History
Sensors
Annotations
Solid Bodies(18)
Equations
AISI 316 Stainless Steel Sheet (SS)
XY Plane
XZ Plane
YZ Plane
Origin
Axis1
Extrude-Thin1
Revolve-Thin1
Revolve1
Revolve2
Reference Geometry
Boss-Extrude1
Boss-Extrude2
Boss-Extrude3
Boss-Extrude4
Boss-Extrude5
Boss-Extrude6
Boss-Extrude7
Boss-Extrude8
CirPattern1
Cut-Extrude1
CirPattern2
Extrude-Thin2
Chamfer1
Body-Move/Copy1
Combine2
Boss-Extrude9
Chamfer2
Body-Move/Copy2
R25.00
20.00
Model
Motion Study 1
UBW-21162-03191-S
Editing Part
MMGS


SOLIDWORKS Connected
UBW-21162-03191-S.SLDPRT
Nemo Simulation
Search MySolidWorks
Extruded Boss/Base
Revolved Boss/Base
Swept Boss/Base
Lofted Boss/Base
Boundary Boss/Base
Extruded Cut
Hole Wizard
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SOLIDWORKS Add-Ins
UBW-21162-03191-S
History
Sensors
Annotations
Solid Bodies(18)
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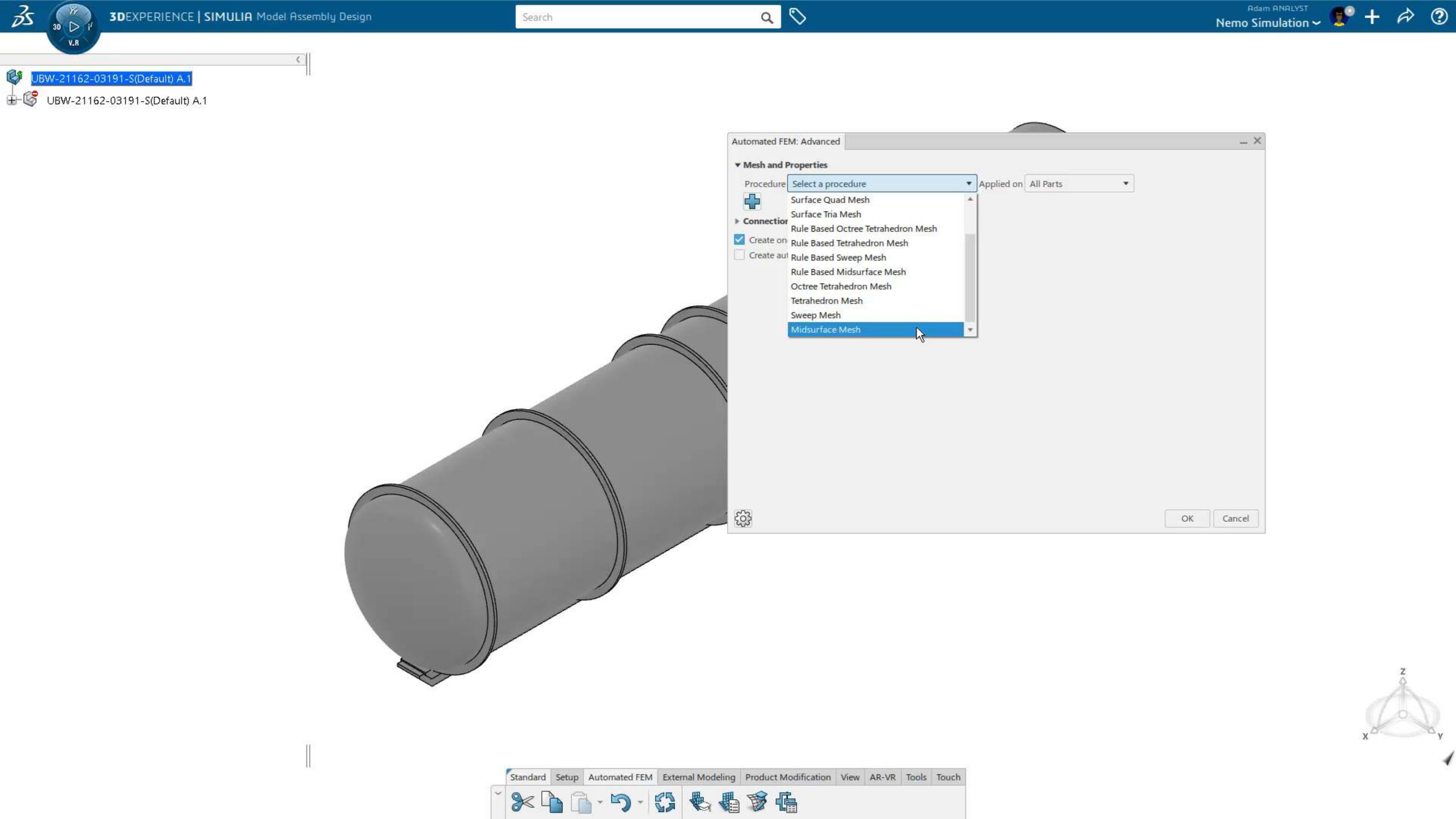
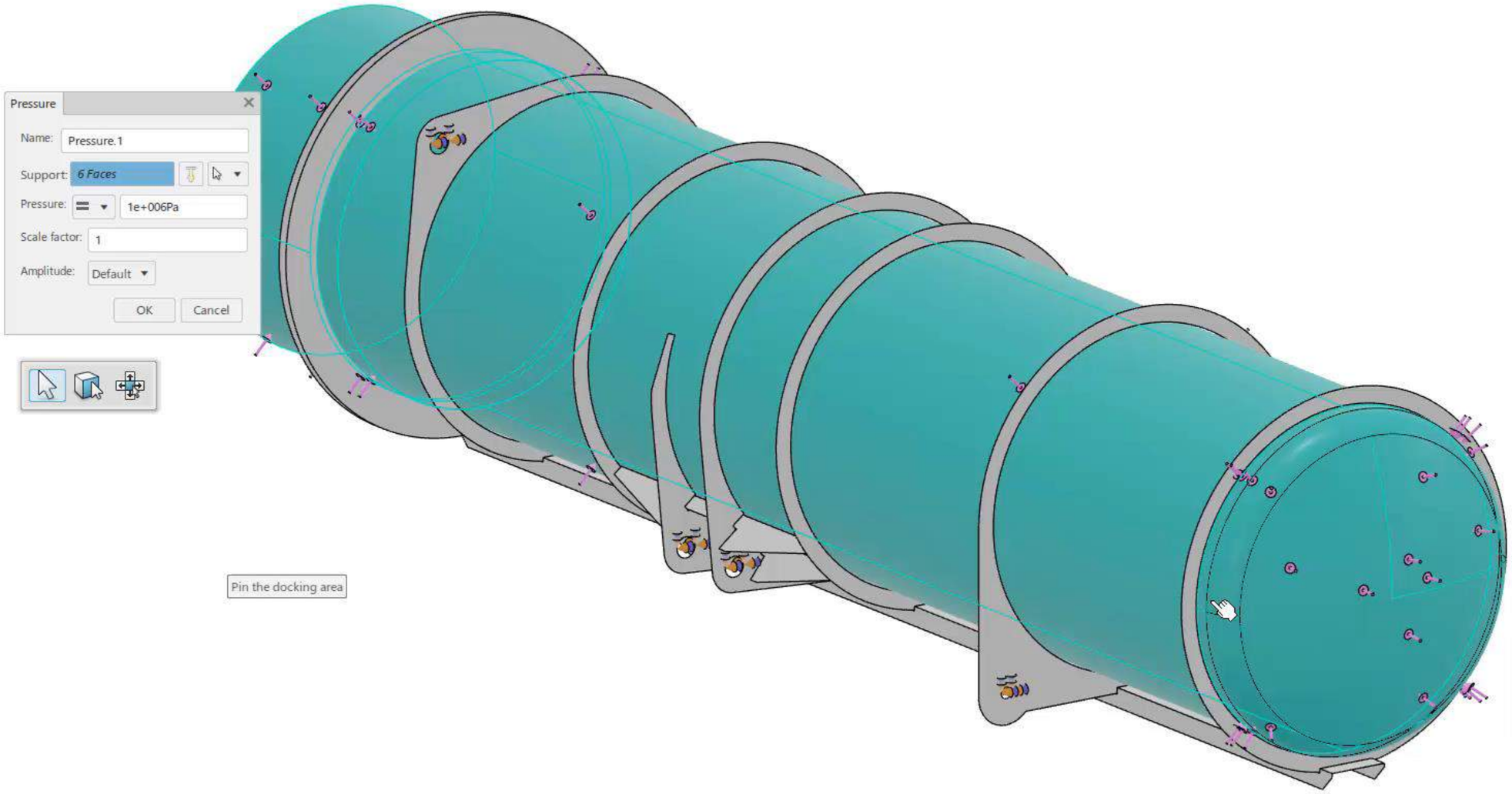
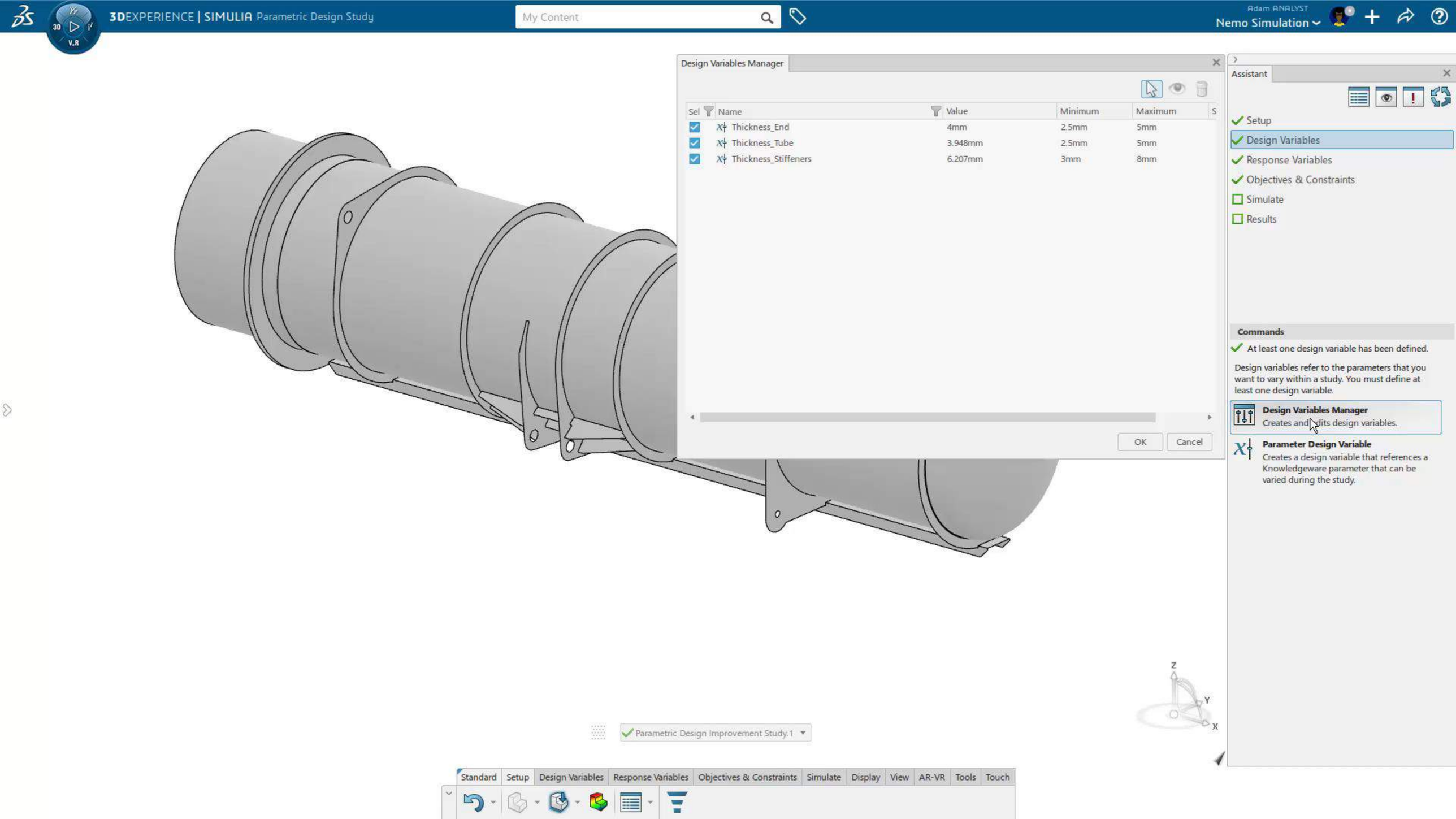
AISI 316 Stainless Steel Sheet (SS)
XY Plane
XZ Plane
YZ Plane
Origin
Axis1
Extrude-Thin1
Revolve-Thin1
Revolve1
Revolve2
Reference Geometry
Boss-Extrude1
Boss-Extrude2
Boss-Extrude3
Boss-Extrude4
Boss-Extrude5
Boss-Extrude6
Boss-Extrude7
Boss-Extrude8
CirPattern1
Cut-Extrude1
CirPattern2
Extrude-Thin2
Chamfer1
Body-Move/Copy1
Combine2
Boss-Extrude9
Chamfer2
Body-Move/Copy2
3DEXPERIENCE
ME
COMPANY
WORLD
As a System of Operations
As a Business Model
My Roles
My Favorite Apps
SOLIDWORKS Connected
Model Assembly Design
Mechanical Scenario Creation
Parametric Design Study
My Apps
3D Markup
3DDashboard
3DDrive
3DPlay
3DPlay
3DPlay
3DSearch
3DSketch
3DSpace
3DStory
3DSwym
3DSwym Analytics
3DSwym Content Assembly Design
Bookmark Editor
Bookmark Editor
Calculator
Change Action
Change Action
Classify & Reuse
Collaboration & Approvals
Collaboration for Microsoft
Collaborative IP Management
Collaborative Lifecycle
Collaborative Lifecycle
Collaborative Tasks
Compare
Converter for IGES
Launching Model Assembly Design
Model
Motion Study 1
SOLIDWORKS Connected Premium
Process complete
Editing Part
MMGS


3DEXPERIENCE | SIMULIA Model Assembly Design
Search
Adam ANALYST
Nemo Simulation
UBW-21162-03191-S(Default) A.1
UBW-21162-03191-S(Default) A.1
Automated FEM: Advanced
Mesh and Properties
Procedure
Select a procedure
Applied on
All Parts
Surface Quad Mesh
Surface Tria Mesh
Rule Based Octree Tetrahedron Mesh
Rule Based Tetrahedron Mesh
Rule Based Sweep Mesh
Rule Based Midsurface Mesh
Octree Tetrahedron Mesh
Tetrahedron Mesh
Sweep Mesh
Midsurface Mesh
OK
Cancel
Standard
Setup
Automated FEM
External Modeling
Product Modification
View
AR-VR
Tools
Touch


Pressure
Name: Pressure.1
Support: 6 Faces
Pressure: 1e+006Pa
Scale factor: 1
Amplitude: Default
OK
Cancel
Pin the docking area
Structural Analysis Case.1
Pressure
Standard
Setup
Procedures
Initial Conditions
Interactions
Restraints
Loads
Durability
Simulate
Display
View
AR-VR
Tools
Touch

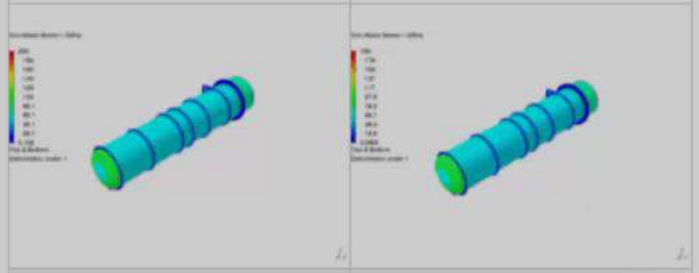

3DEXPERIENCE | SIMULIA Parametric Design Study
My Content
Adam ANALYST
Nemo Simulation
Design Variables Manager
Sel
Name
Value
Minimum
Maximum
Thickness_End
4mm
2.5mm
5mm
Thickness_Tube
3.948mm
2.5mm
5mm
Thickness_Stiffeners
6.207mm
3mm
8mm
OK
Cancel
Assistant
Setup
Design Variables
Response Variables
Objectives & Constraints
Simulate
Results
Commands
At least one design variable has been defined.
Design variables refer to the parameters that you want to vary within a study. You must define at least one design variable.
Design Variables Manager
Creates and edits design variables.
Parameter Design Variable
Creates a design variable that references a Knowledgeware parameter that can be varied during the study.
Parametric Design Improvement Study.1
Standard
Setup
Design Variables
Response Variables
Objectives & Constraints
Simulate
Display
View
AR-VR
Tools
Touch

Study Results for Parametric Design Improvement Study.1

Completed: 30/30 Active: 30 Selected: 8/8 Favorites: 2

Actual values

FP_Von Mises Stress.1_Result Of Structural Analysis Case.1_s1_lc0.jpg

		Design 8	Design 9
			
Feasibility		Best	Feasible
Rank		1	4
Response Variables			
Mass_Mass Sensor_1	kg	60.44	62.27
Maximum_Von Mises Stress_1	MPa	200.1	195
Design Variables			
Thickness_End	mm	2.862	2.9
Thickness_Stiffeners	mm	4.552	4.6
Thickness_Tube	mm	2.603	2.75
Others			
AnalysisTime	sec	137.3	138
Run_ID		8	
Time	sec	1105	1247

Generate Alternatives...

Design points selected for alternative generation : 1

Prefix

Best

Alternative generation might take a while.

Study Information dialog can be used to review its status.

Generate Close

INOVATYVŪS ANALIZĖS ĮRANKIAI

TECHNINIAI IR DIZAINO SPRENDIMAI

Automatiškai optimizuojami modelio parametrai

PATVARUMAS IR ILGAAMŽIŠKUMAS

BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA

SIMULIA

DASSAULT SYSTEMES

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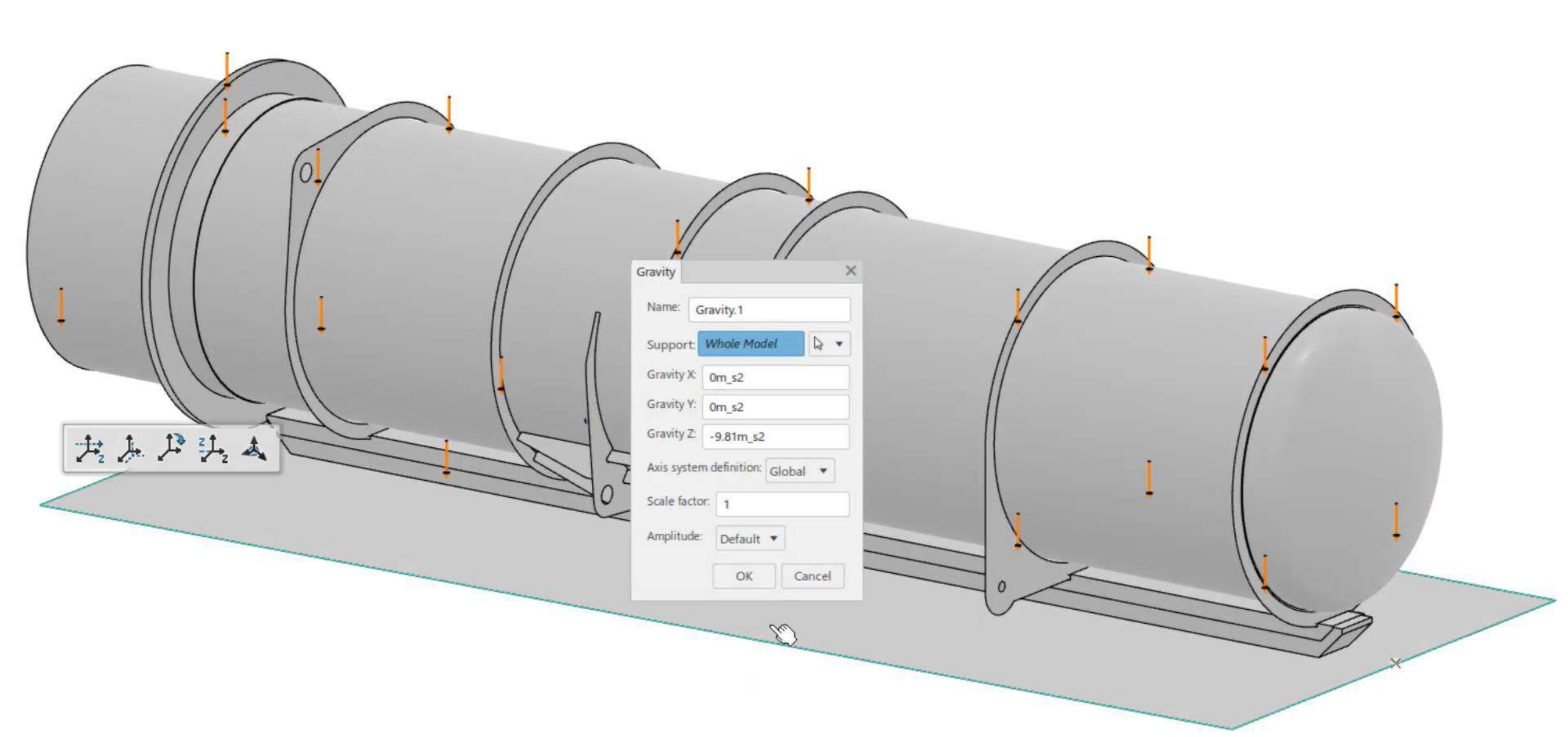
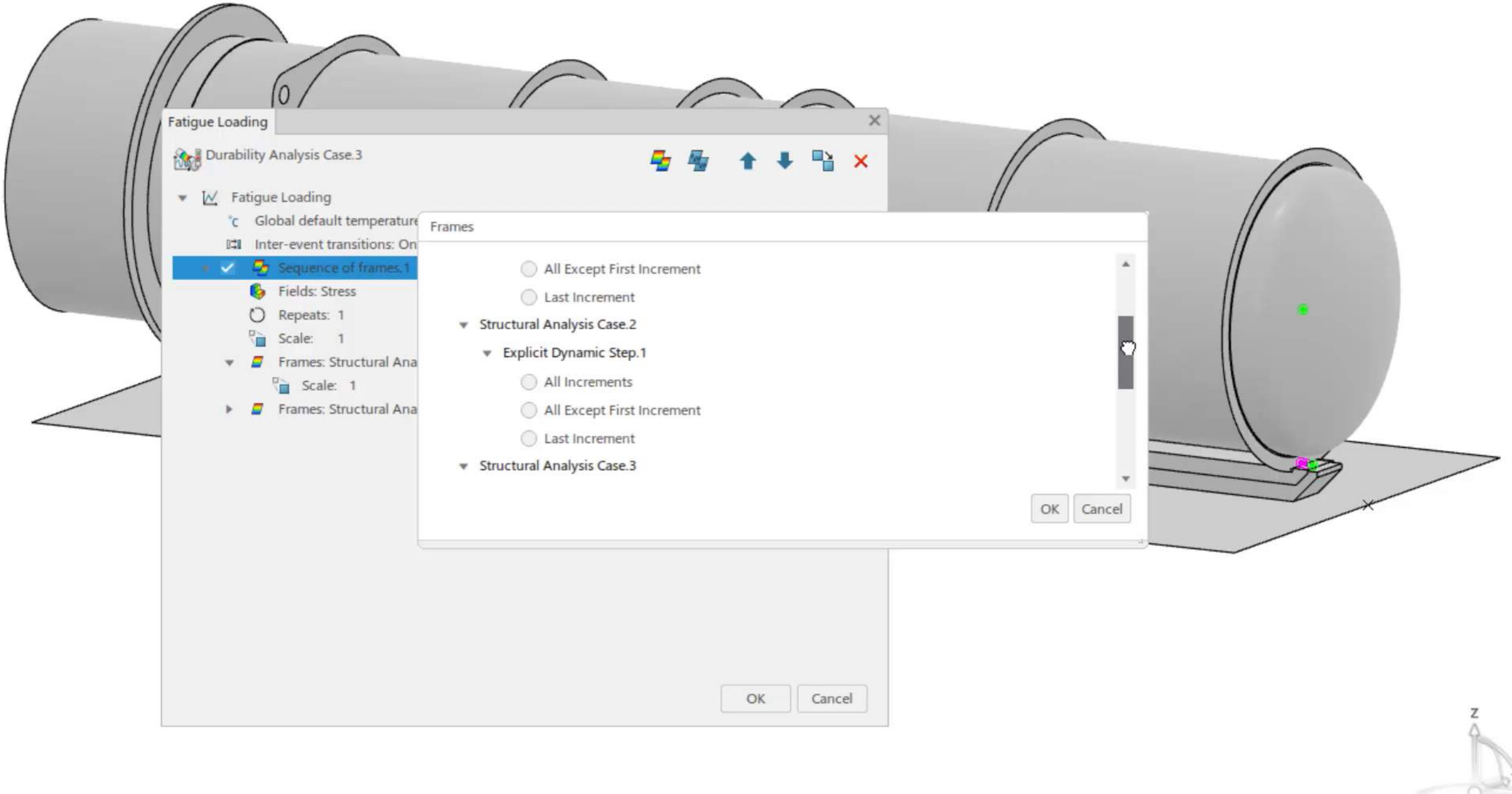
BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA

SIMULIA

DASSAULT SYSTEMES

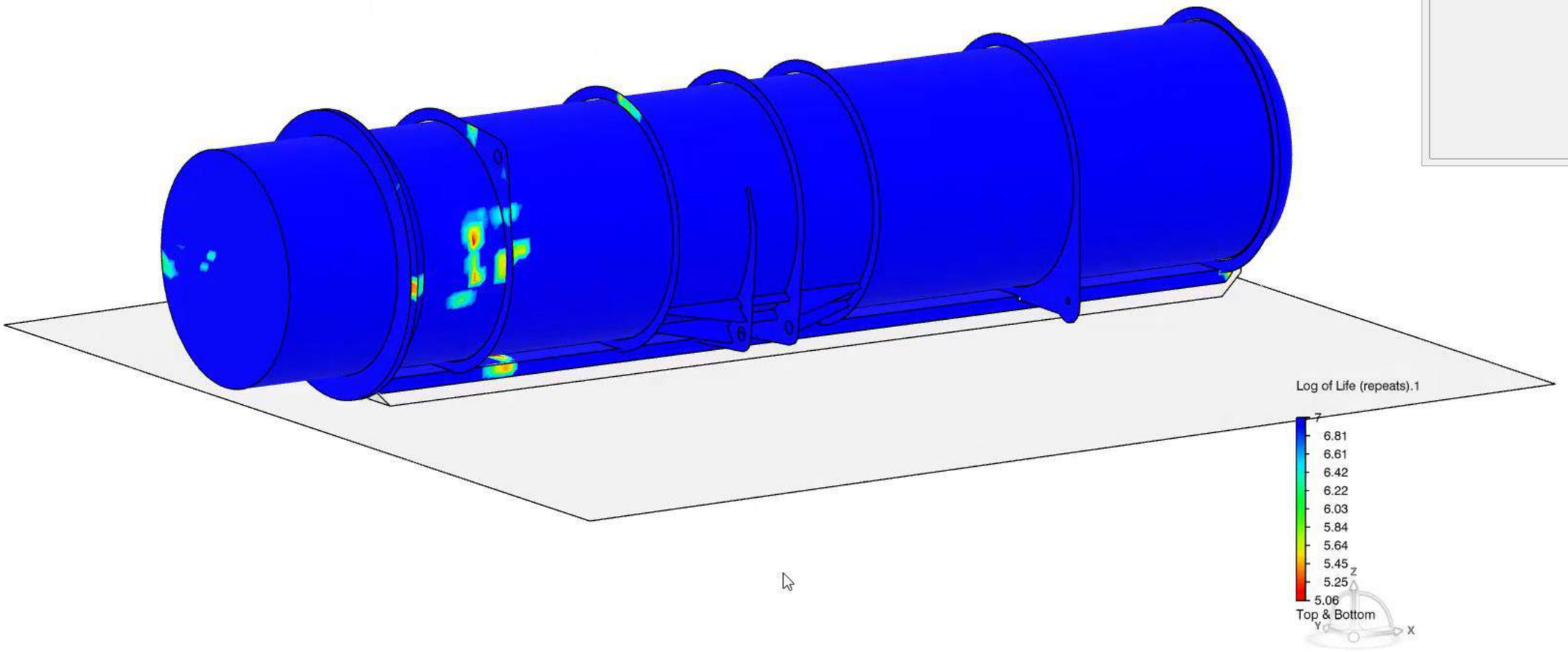

Gravity
Name: Gravity.1
Support: Whole Model
Gravity X: 0m_s2
Gravity Y: 0m_s2
Gravity Z: -9.81m_s2
Axis system definition: Global
Scale factor: 1
Amplitude: Default
OK
Cancel


Fatigue Loading
Durability Analysis Case.3
Fatigue Loading
Global default temperature
Inter-event transitions: On
Sequence of frames.1
Fields: Stress
Repeats: 1
Scale: 1
Frames: Structural Ana
Scale: 1
Frames: Structural Ana
OK
Cancel
Frames
All Except First Increment
Last Increment
Structural Analysis Case.2
Explicit Dynamic Step.1
All Increments
All Except First Increment
Last Increment
Structural Analysis Case.3
OK
Cancel
Z

Plots

Case: Result Of Durability Analysis...
Step: Durability Step
Plot: Log of Life (repeats).1

Frame	Event
1	Overall



Standard | Setup | Plots | Sensors | Calculations | Explore | View | Display | AR-VR | Tools | Touch

INOVATYVŪS ANALIZĖS ĮRANKIAI

TECHNINIAI IR DIZAINO SPRENDIMAI

Automatiškai optimizuojami modelio parametrai

PATVARUMAS IR ILGAAMŽIŠKUMAS

Pilnavertė nuovargio analizė

BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA

INOVATYVŪS ANALIZĖS ĮRANKIAI

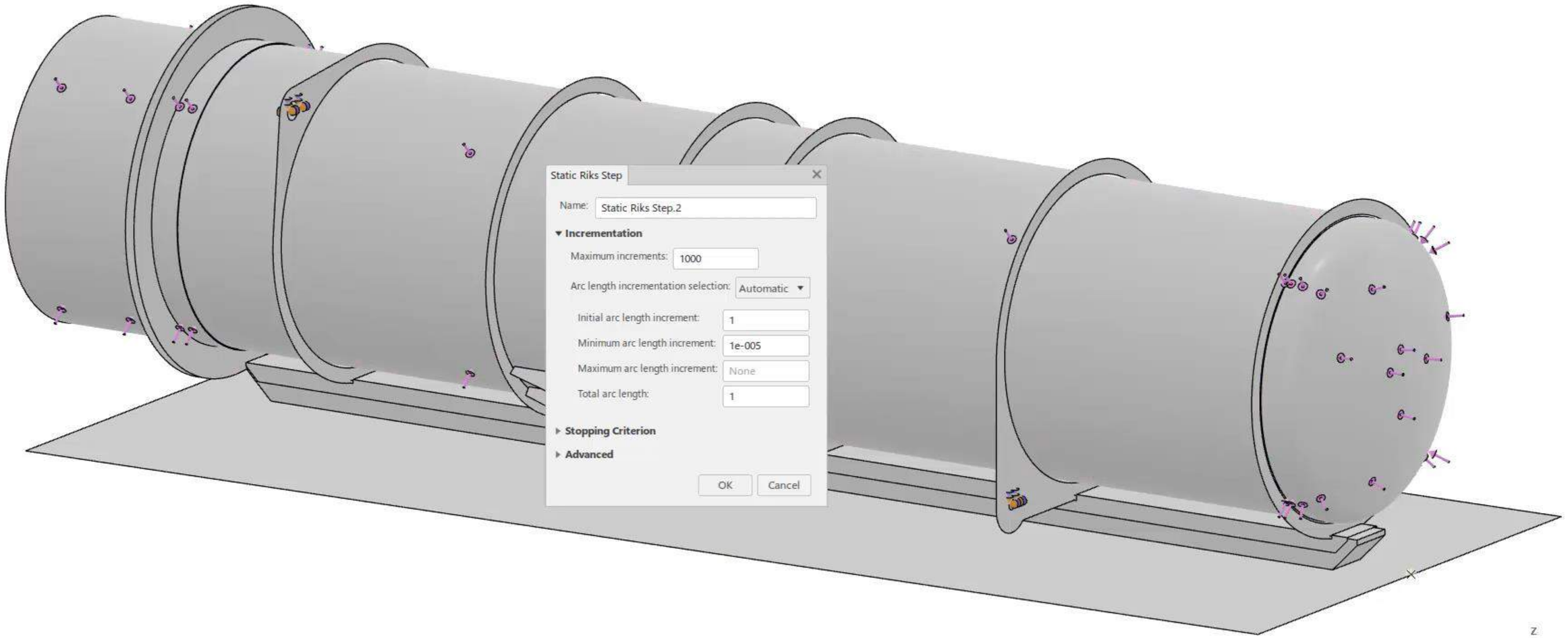
TECHNINIAI IR DIZAINO SPRENDIMAI

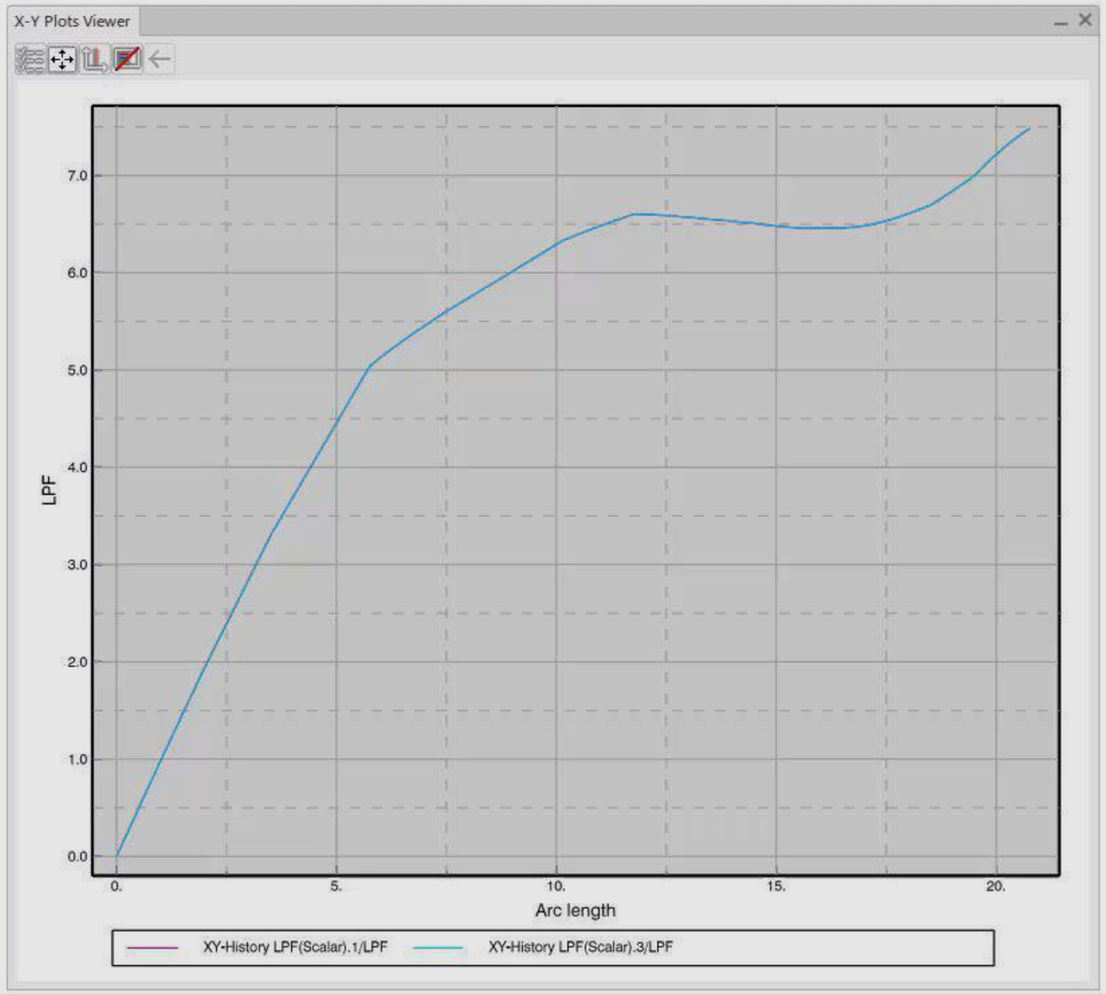
Automatiškai optimizuojami modelio parametrai

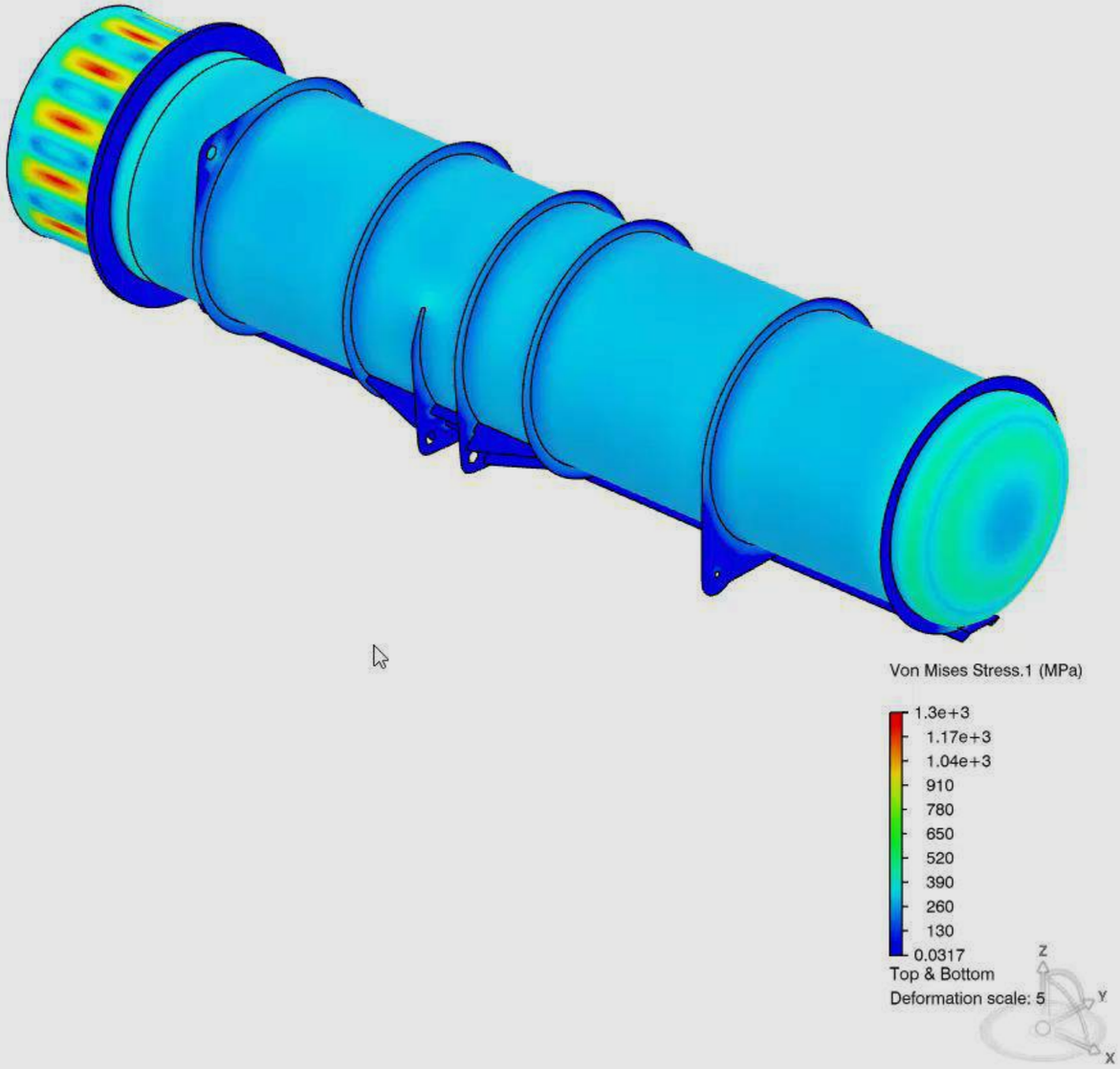
PATVARUMAS IR ILGAAMŽIŠKUMAS

Pilnavertė nuovargio analizė

BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA


Static Riks Step
Name: Static Riks Step.2
Incrementation
Maximum increments: 1000
Arc length incrementation selection: Automatic
Initial arc length increment: 1
Minimum arc length increment: 1e-005
Maximum arc length increment: None
Total arc length: 1
Stopping Criterion
Advanced
OK
Cancel


X-Y Plots Viewer
LPF
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0.
5.
10.
15.
20.
Arc length
XY-History LPF(Scalar).1/LPF
XY-History LPF(Scalar).3/LPF


Von Mises Stress.1 (MPa)
1.3e+3
1.17e+3
1.04e+3
910
780
650
520
390
260
130
0.0317
Top & Bottom
Deformation scale: 5
Z
Y
X

INOVATYVŪS ANALIZĖS ĮRANKIAI

TECHNINIAI IR DIZAINO SPRENDIMAI

Automatiškai optimizuojami modelio parametrai

PATVARUMAS IR ILGAAMŽIŠKUMAS

Pilnavertė nuovargio analizė

BLOGIAUSIO ĮMANOMO SCENARIJAUS PATIKRA

Išsamus klupumo įvertinimas

SIMULIA

DASSAULT SYSTEMES