

Portfolio

Top-class Mechanical Designer

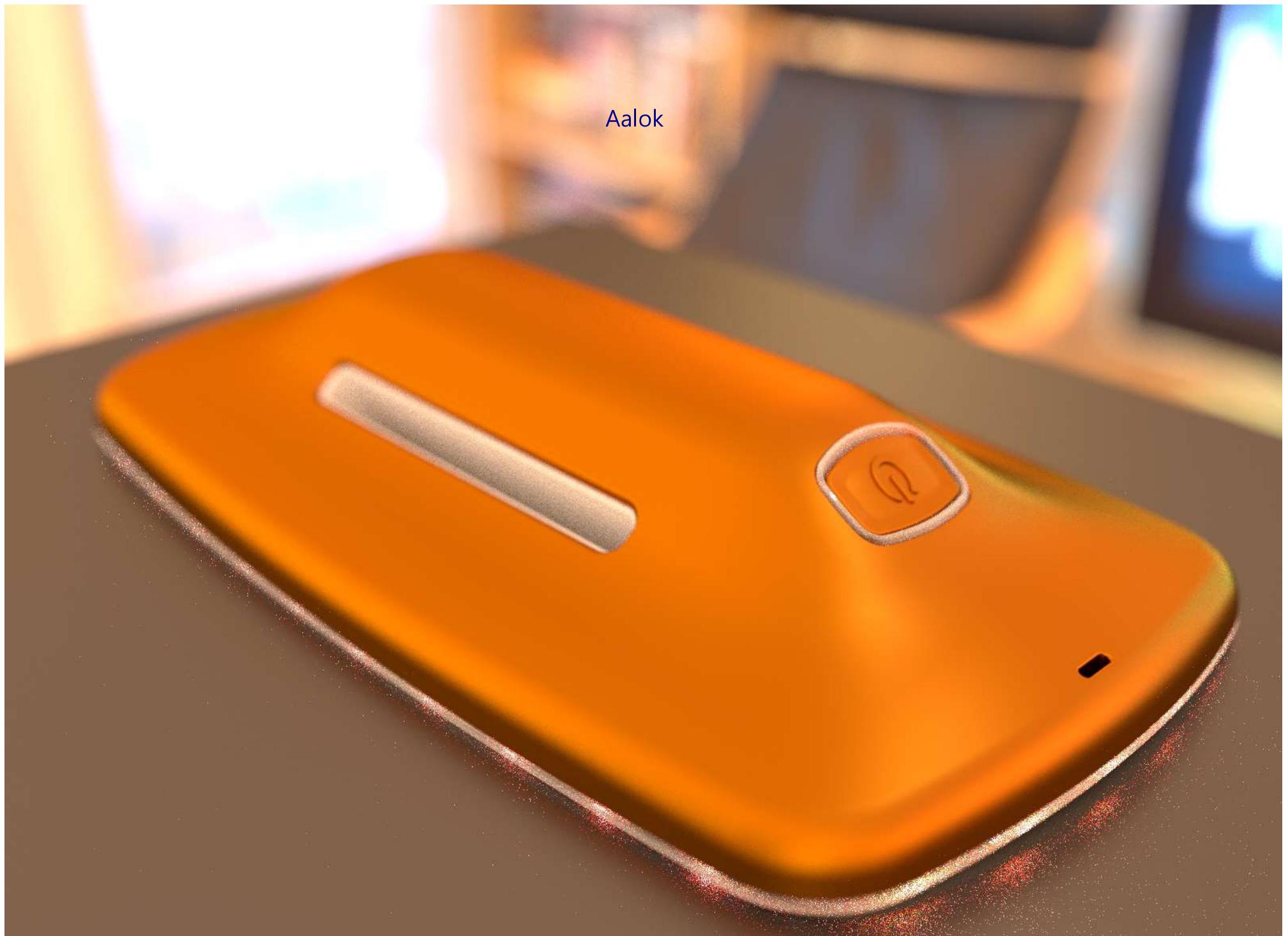
20180517 / 김동호

Healthcare

2017~2018

Oh'BRIGHT CARE

Aalok



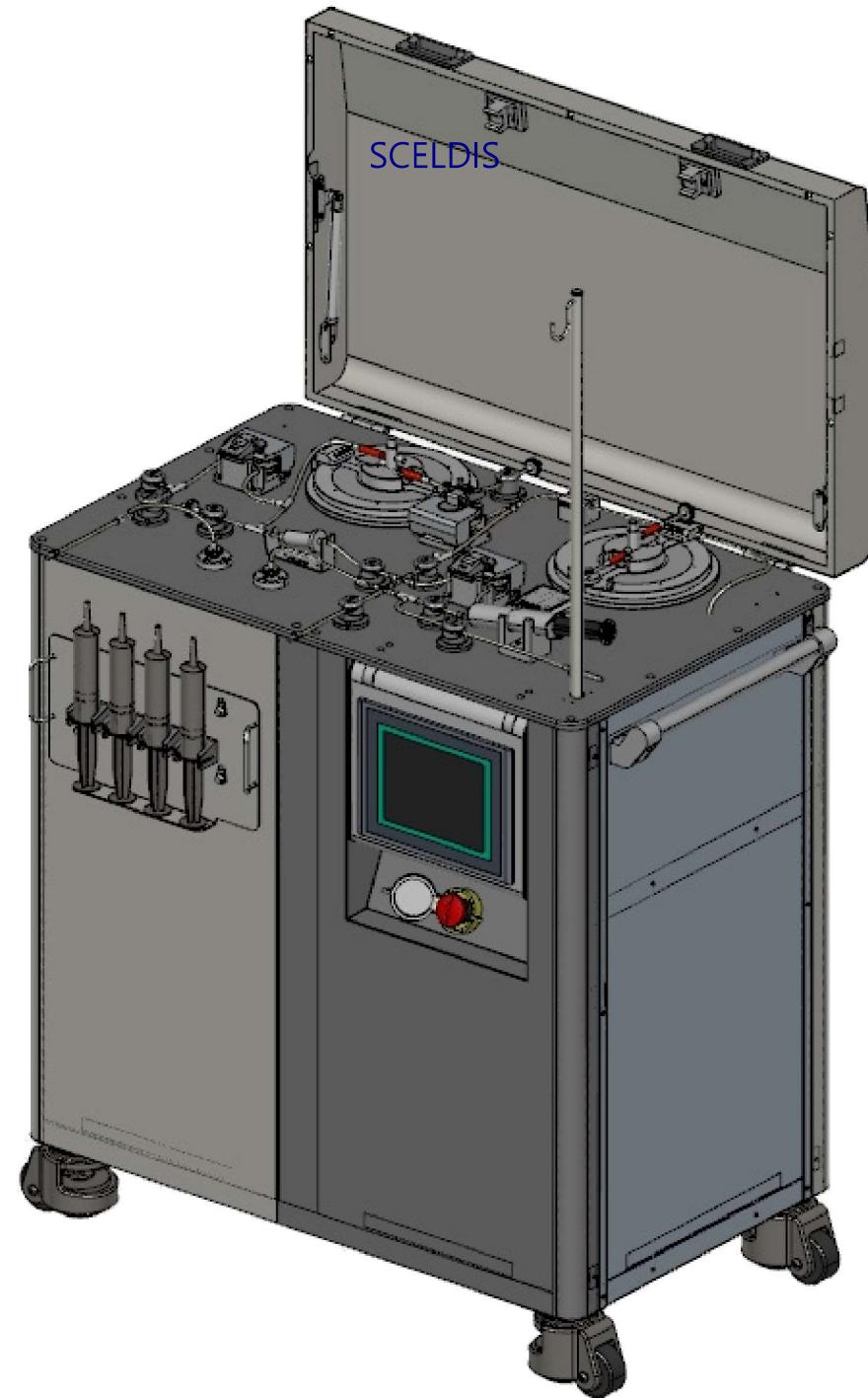


LLT-1

Medical Devices

2009~2015





SCELDIS

SCELDIS®

SCELDIS

Start
Auto-Check

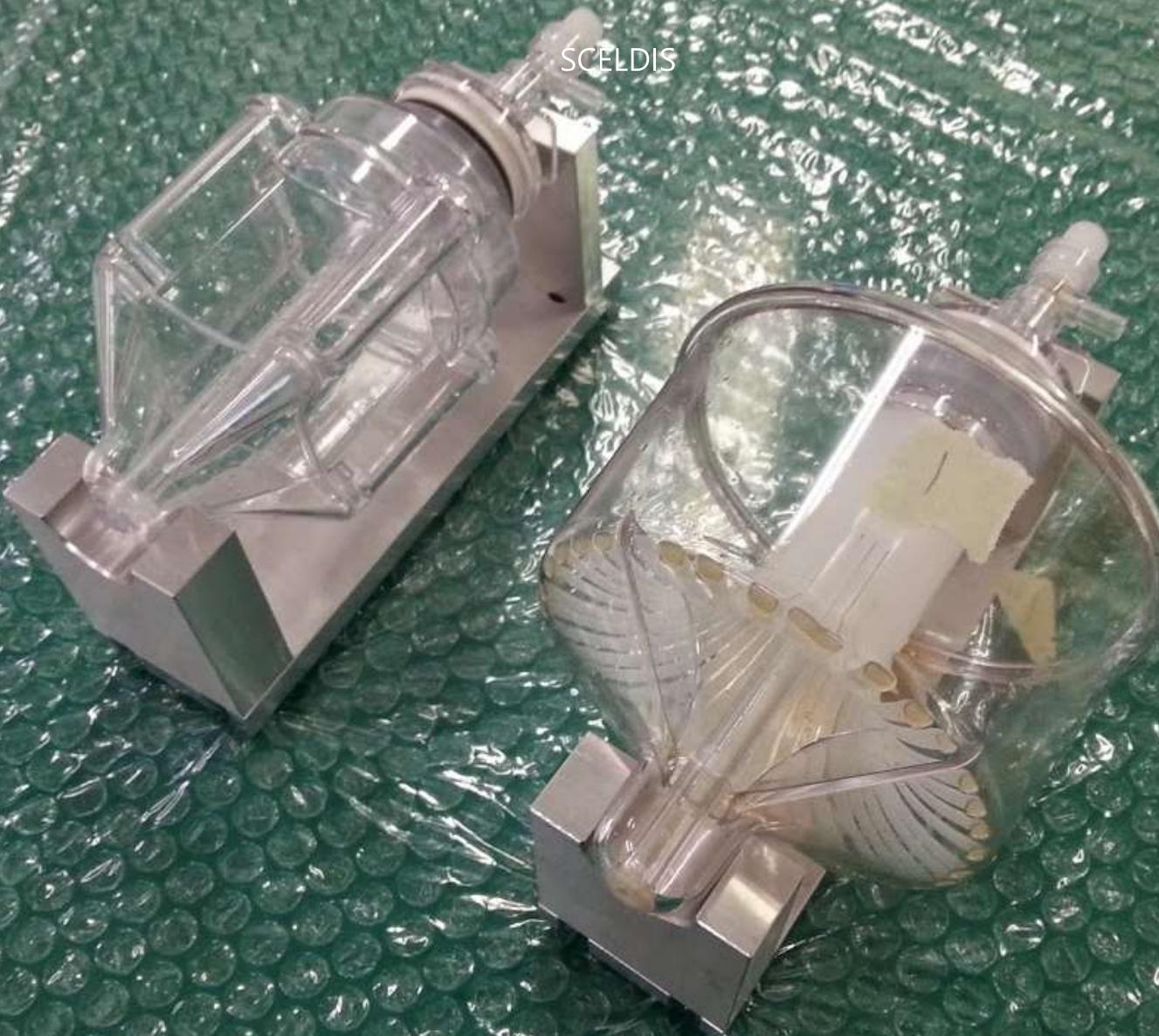
Stop
Auto-Check

A Global Leader in Stem Cell Unity EP 1000
EP-1000
SCELDIS

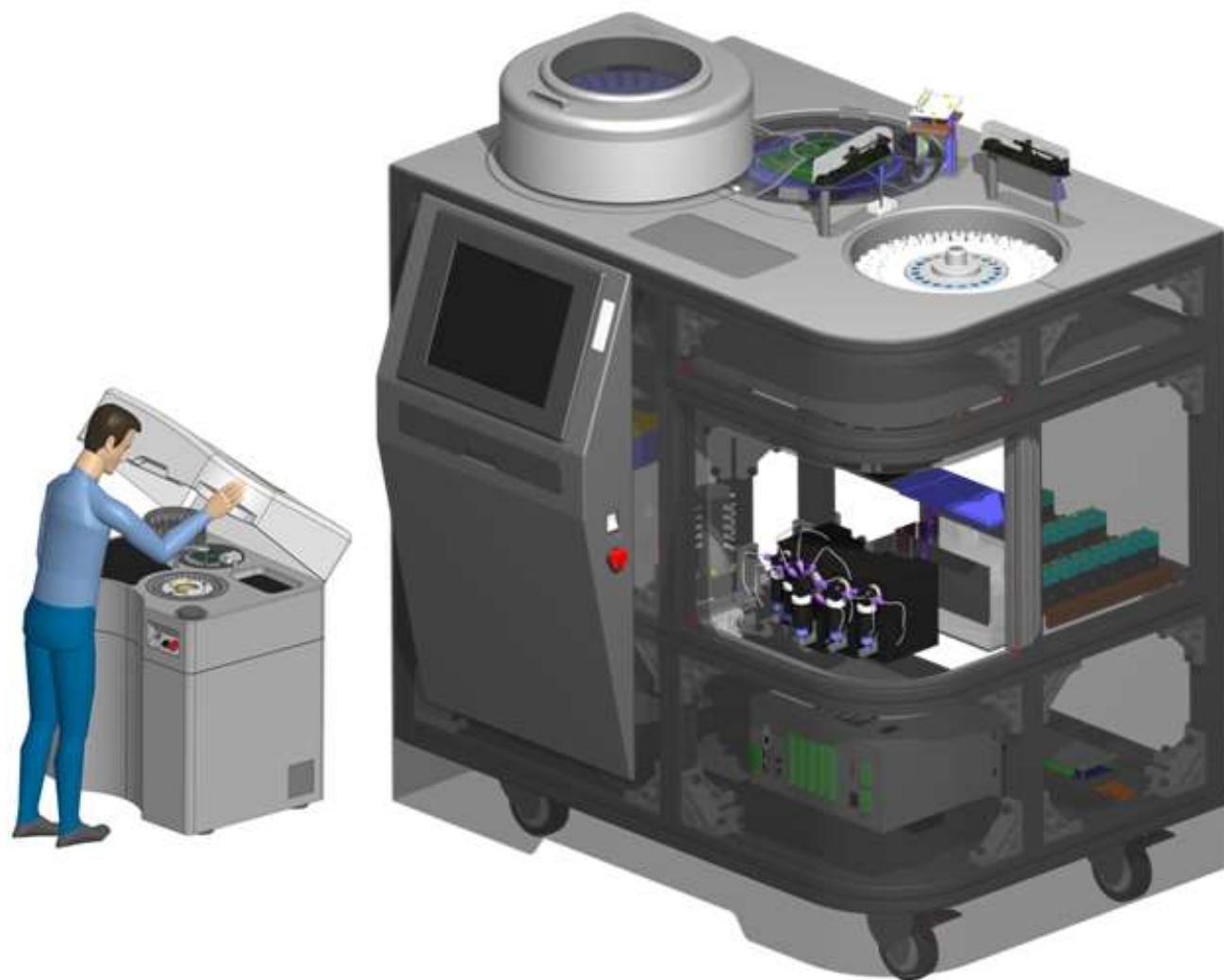


(S)CELDIS

SCELDIS



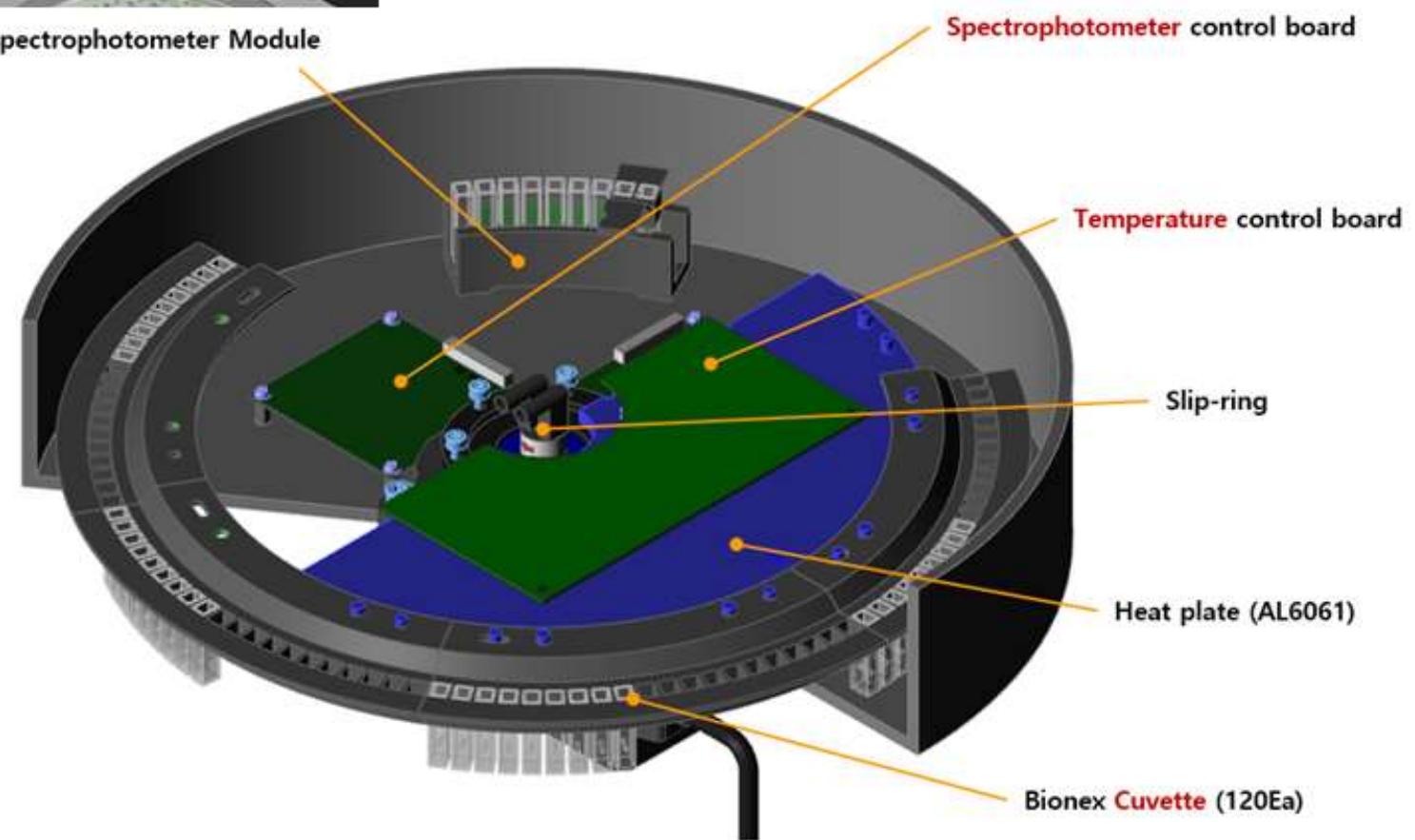
BIO





BIO

Spectrophotometer Module

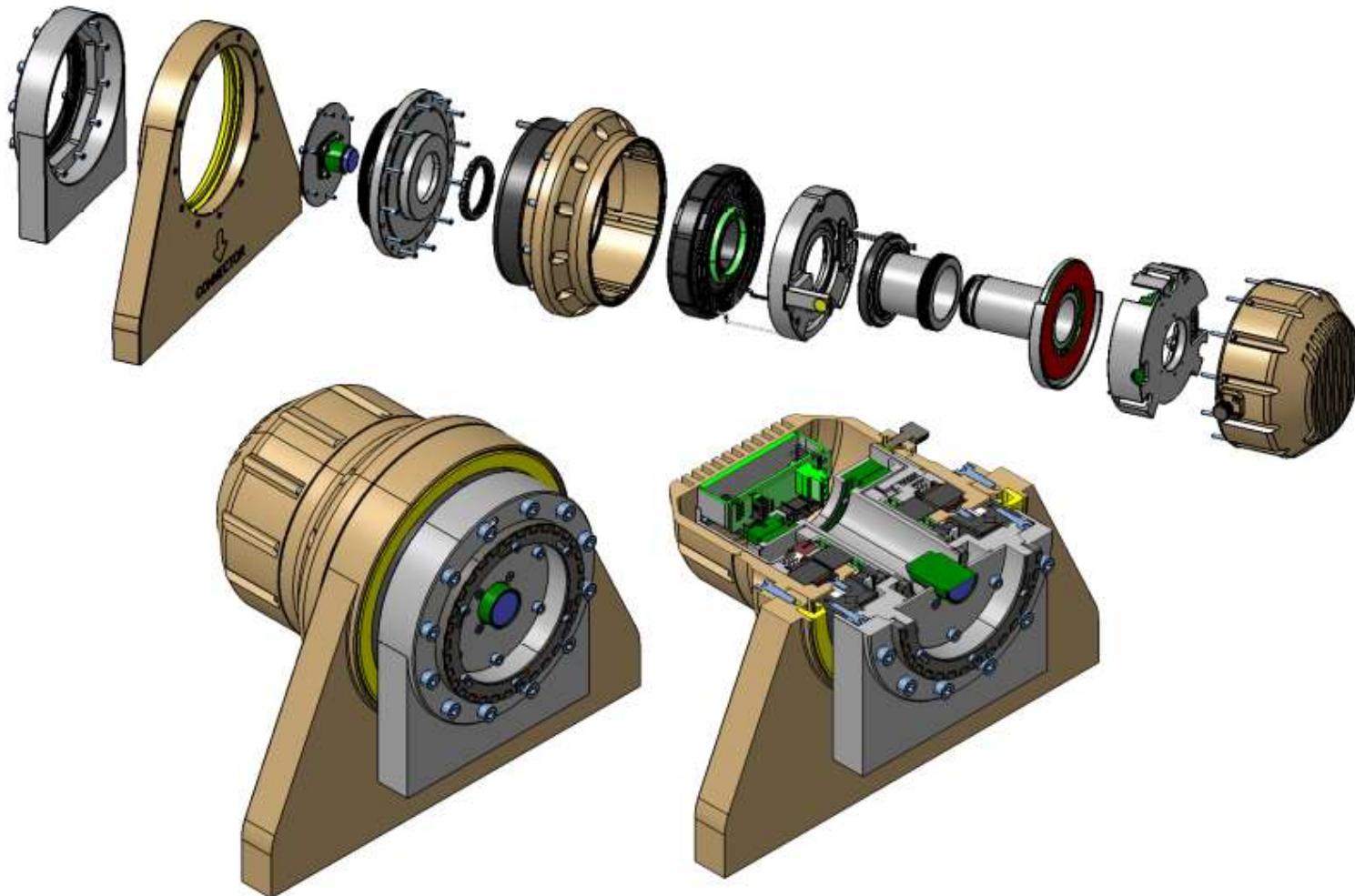


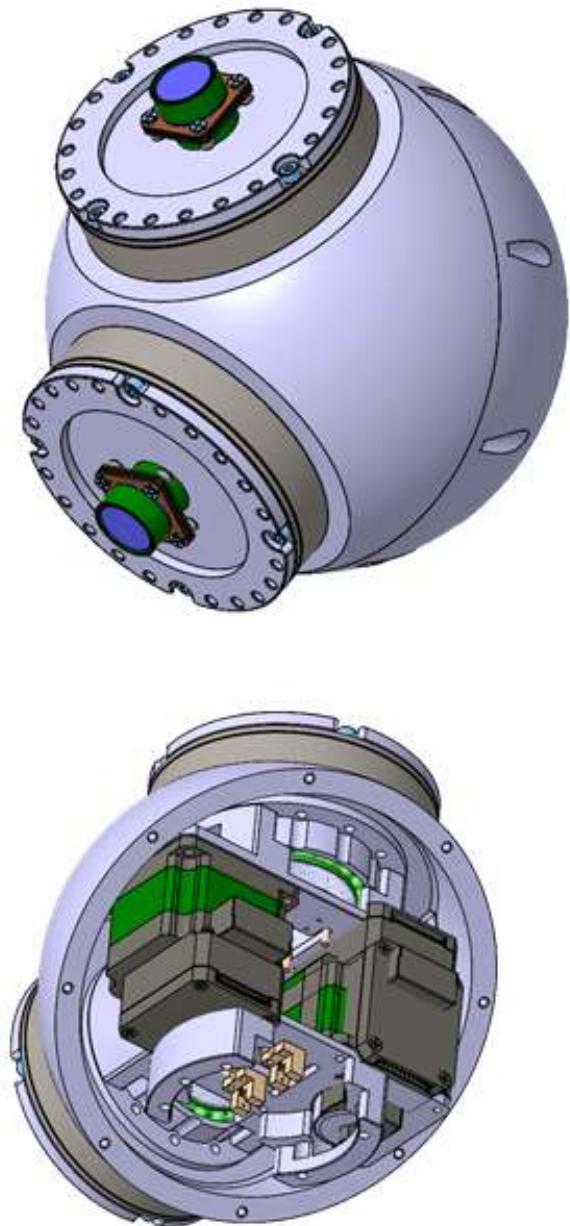
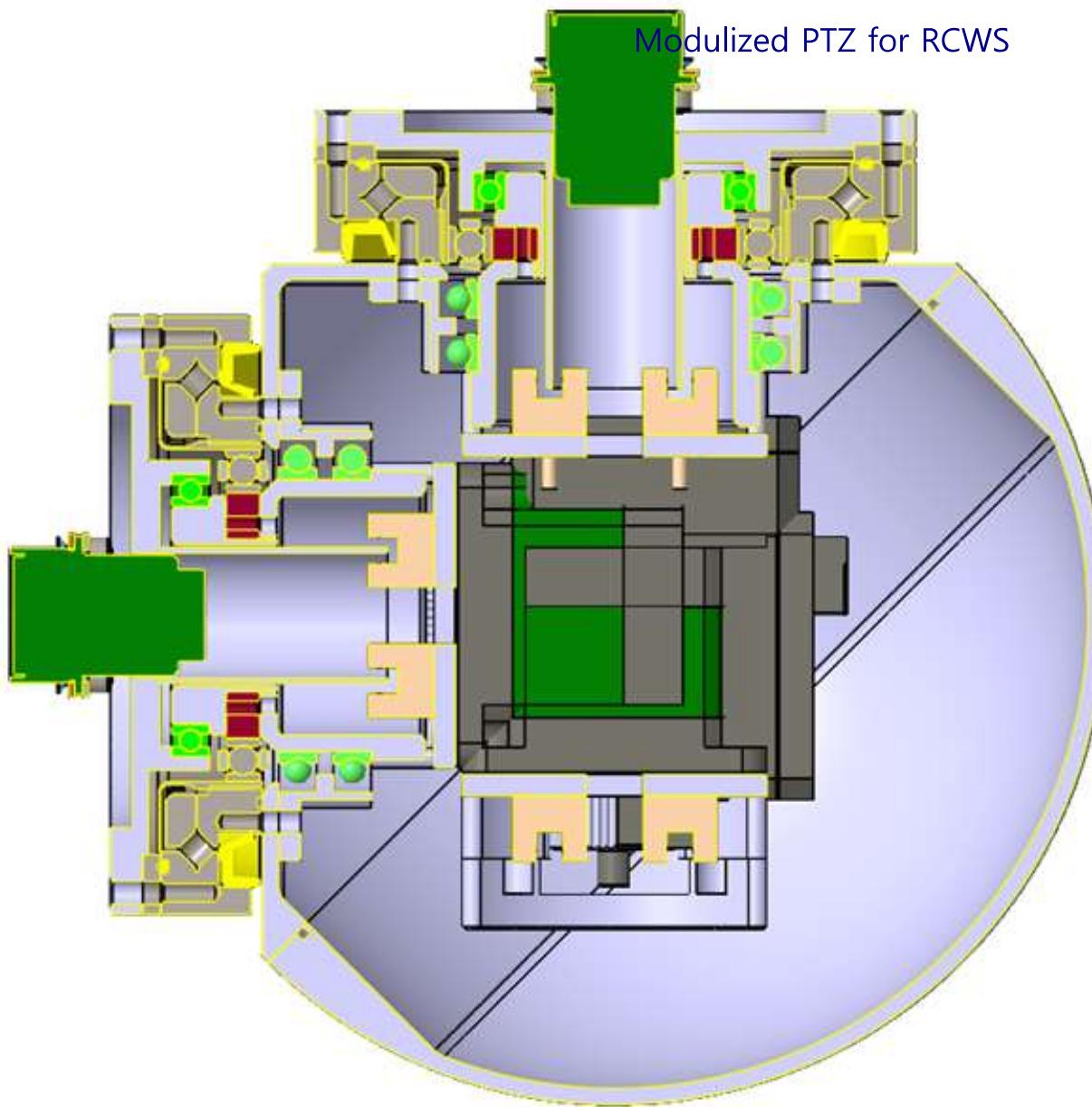
Defence Robots

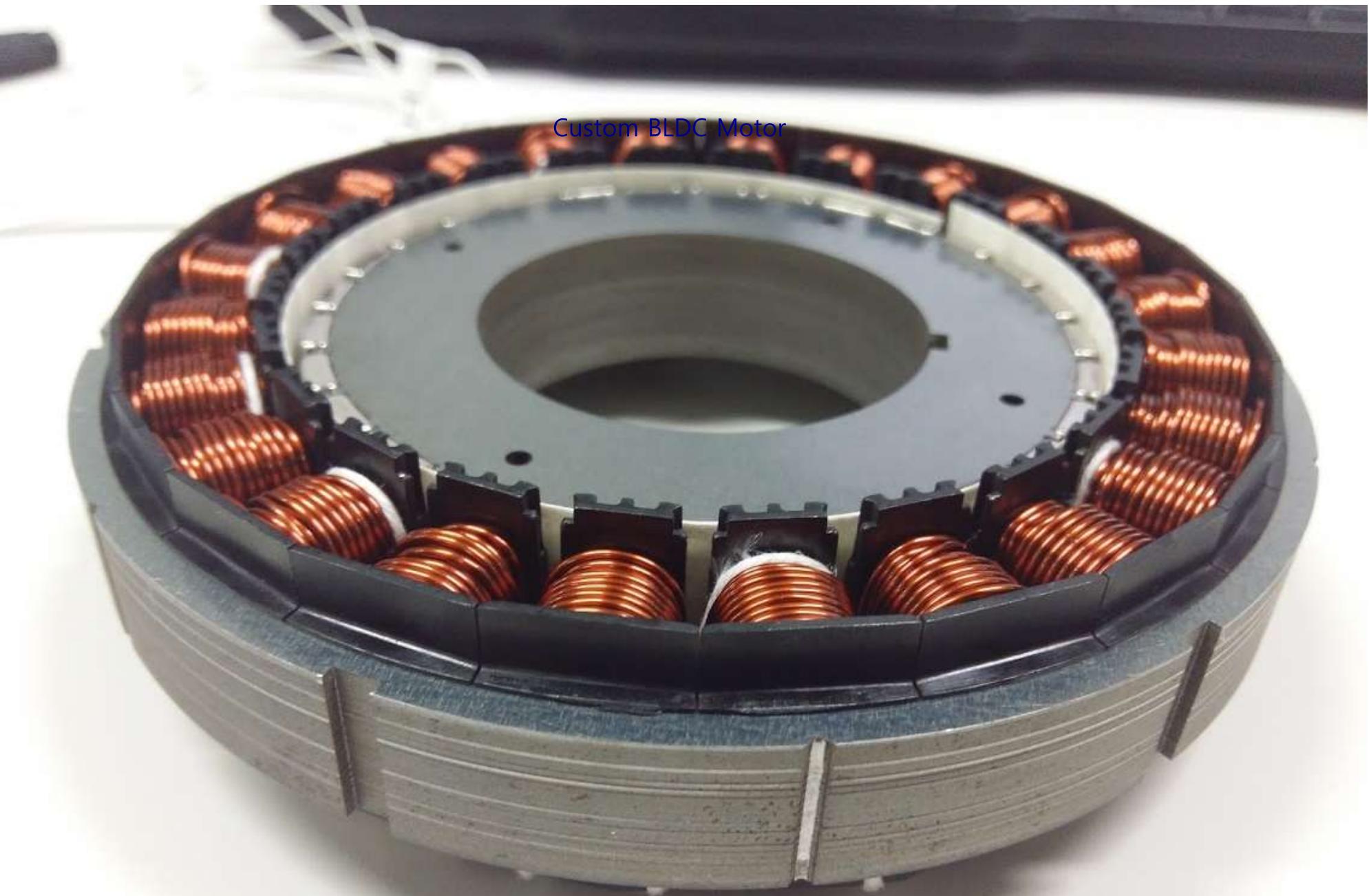
2015~2016



Modulized Smart Actuator for RCWS

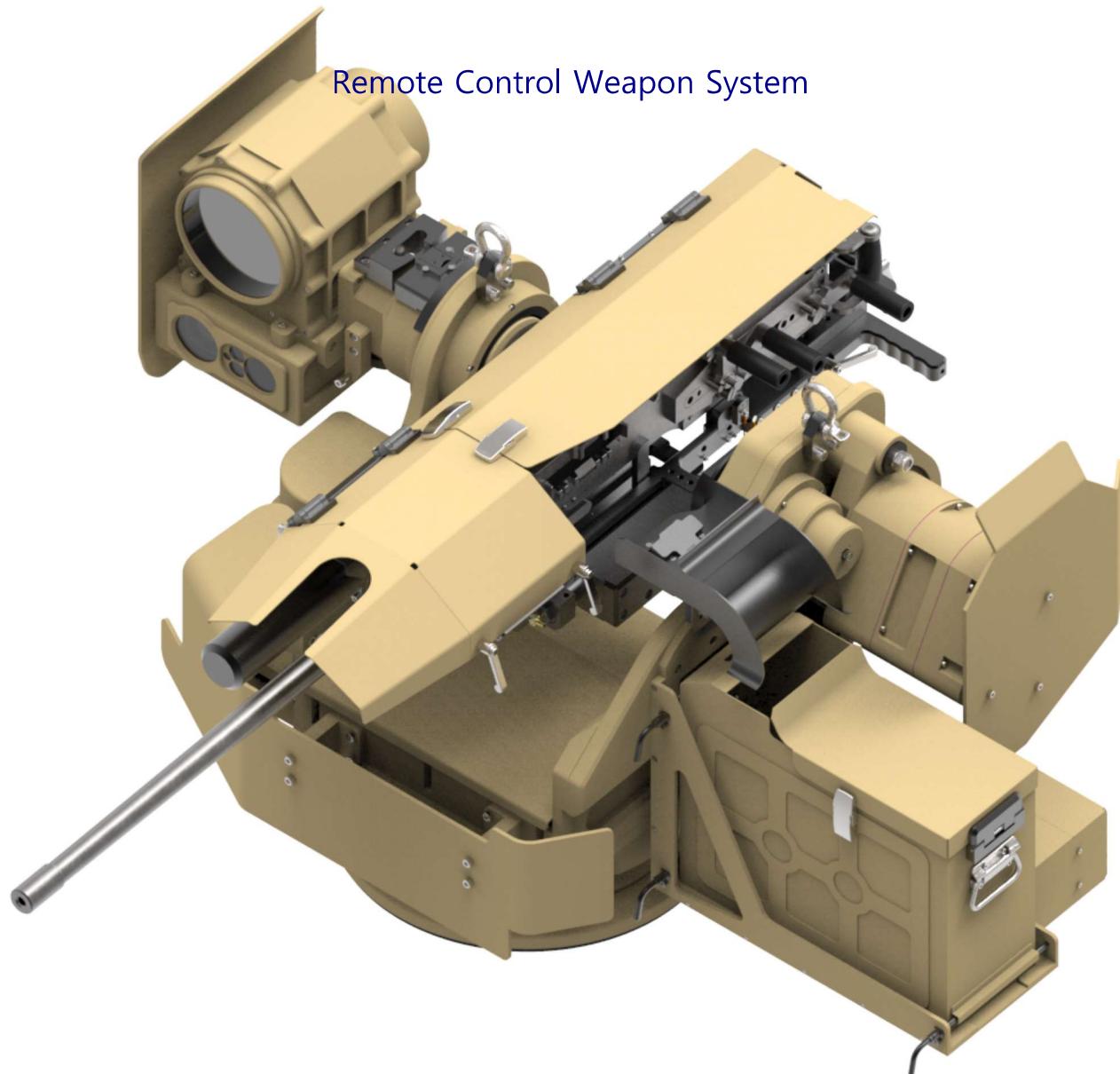






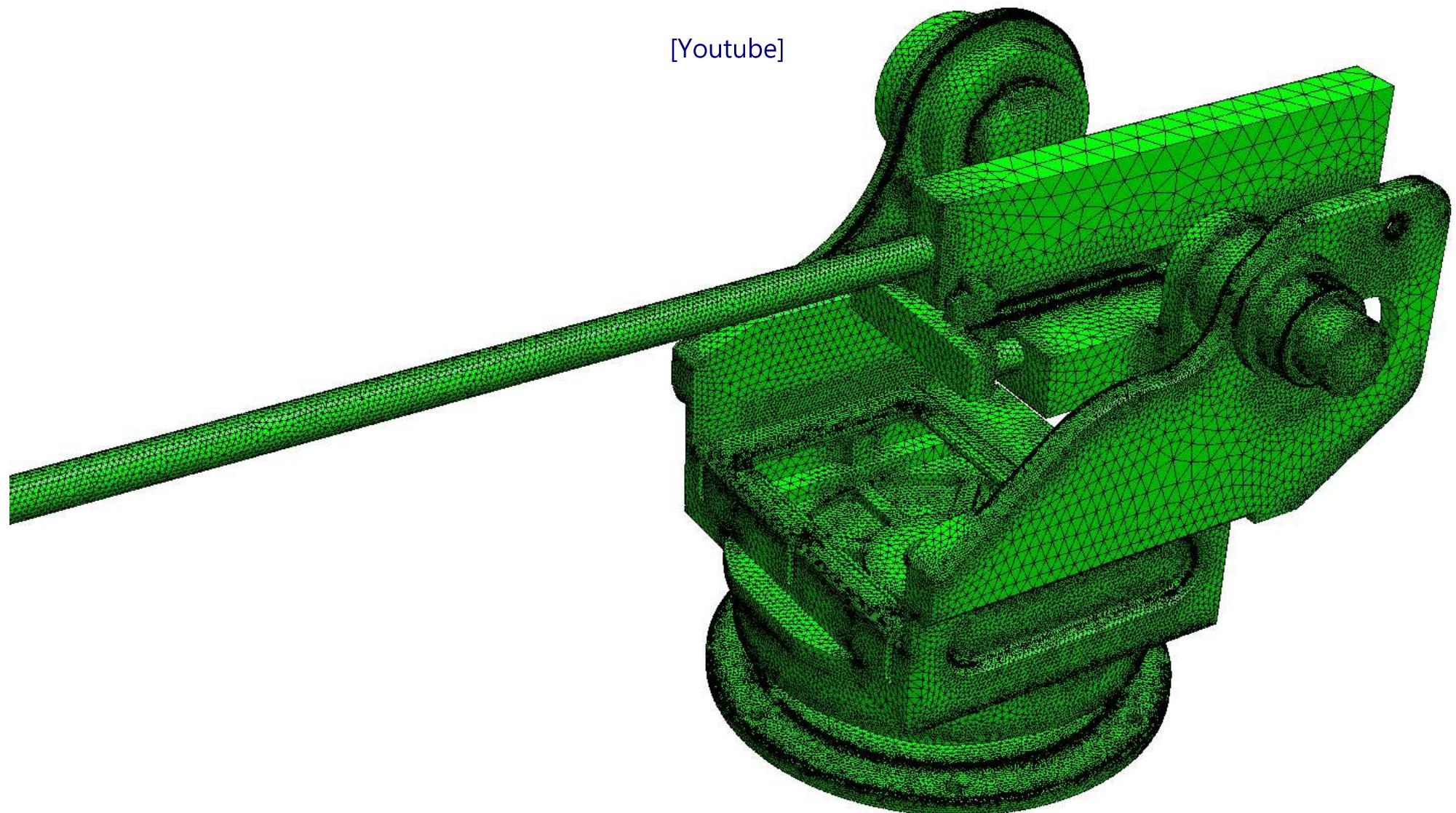
Custom BLDC Motor

Remote Control Weapon System



Dynamic FEA in Shooting

[Youtube]



Netg

Remote Control Weapon System



Shooting Test

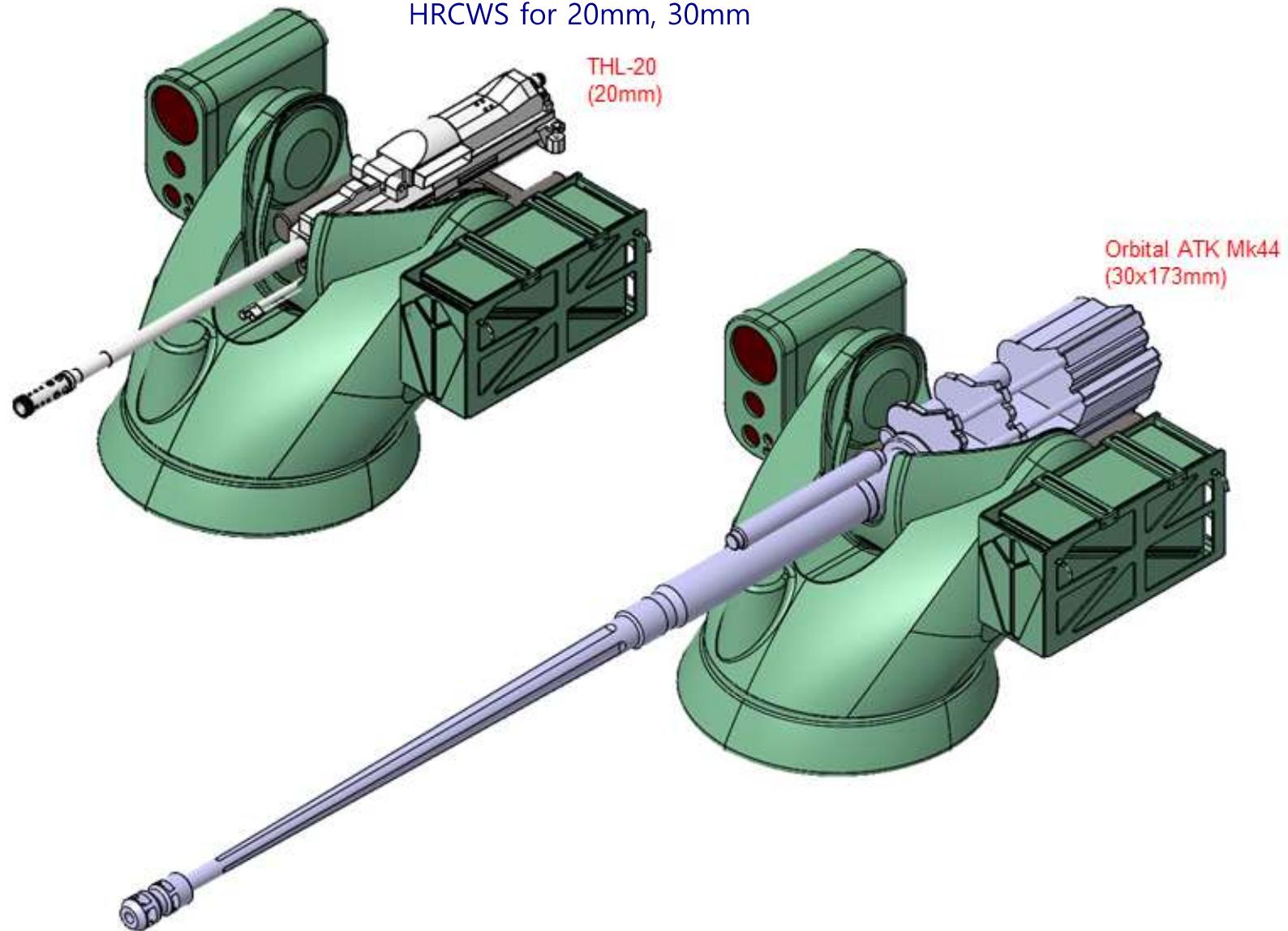
[Youtube]

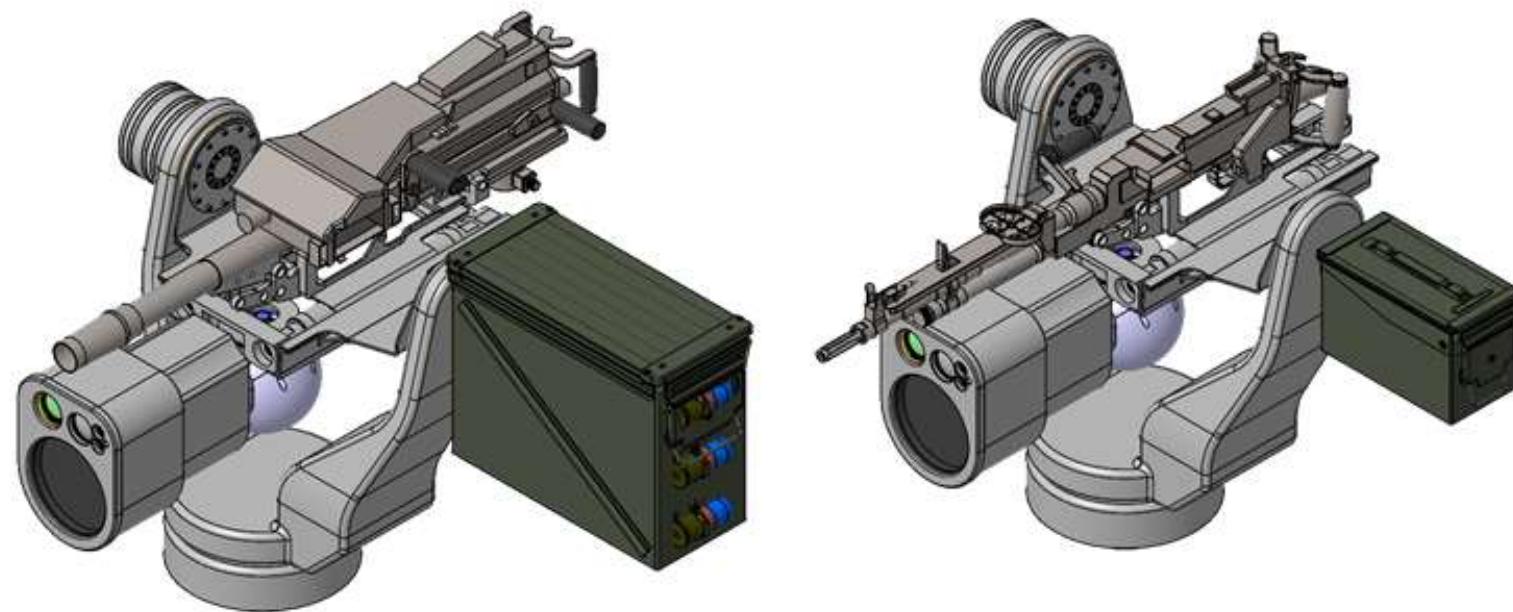


Export abroad



HRCWS for 20mm, 30mm





Mobile Robots

2007~2015



UROBO





UBOT fot KT

[Youtube]

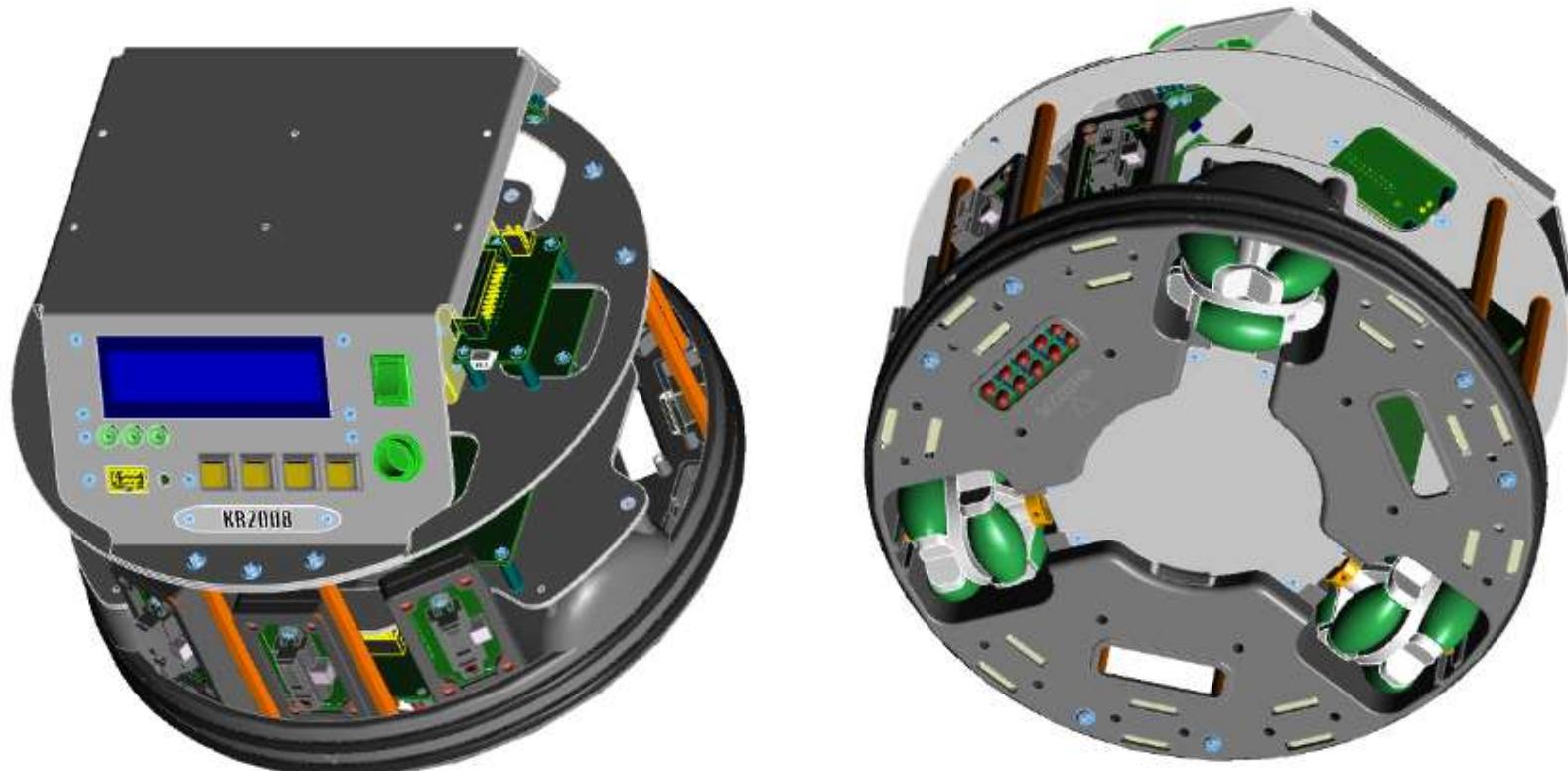
THIN

[Youtube]



HOLONOMIC

[Youtube]



SILVER



SILVER in exhibition

kibot2 레이싱 대회

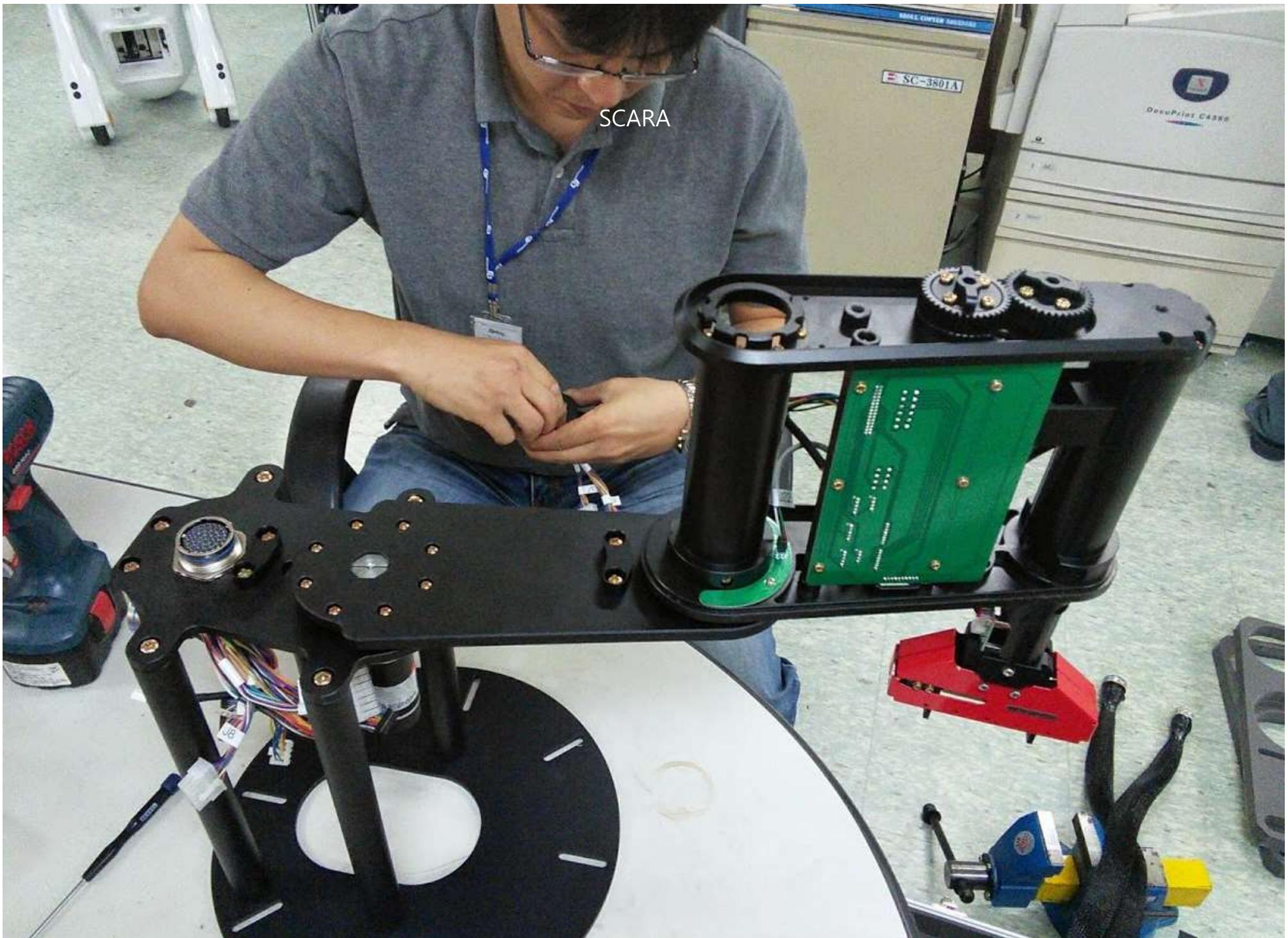


Arm Robots

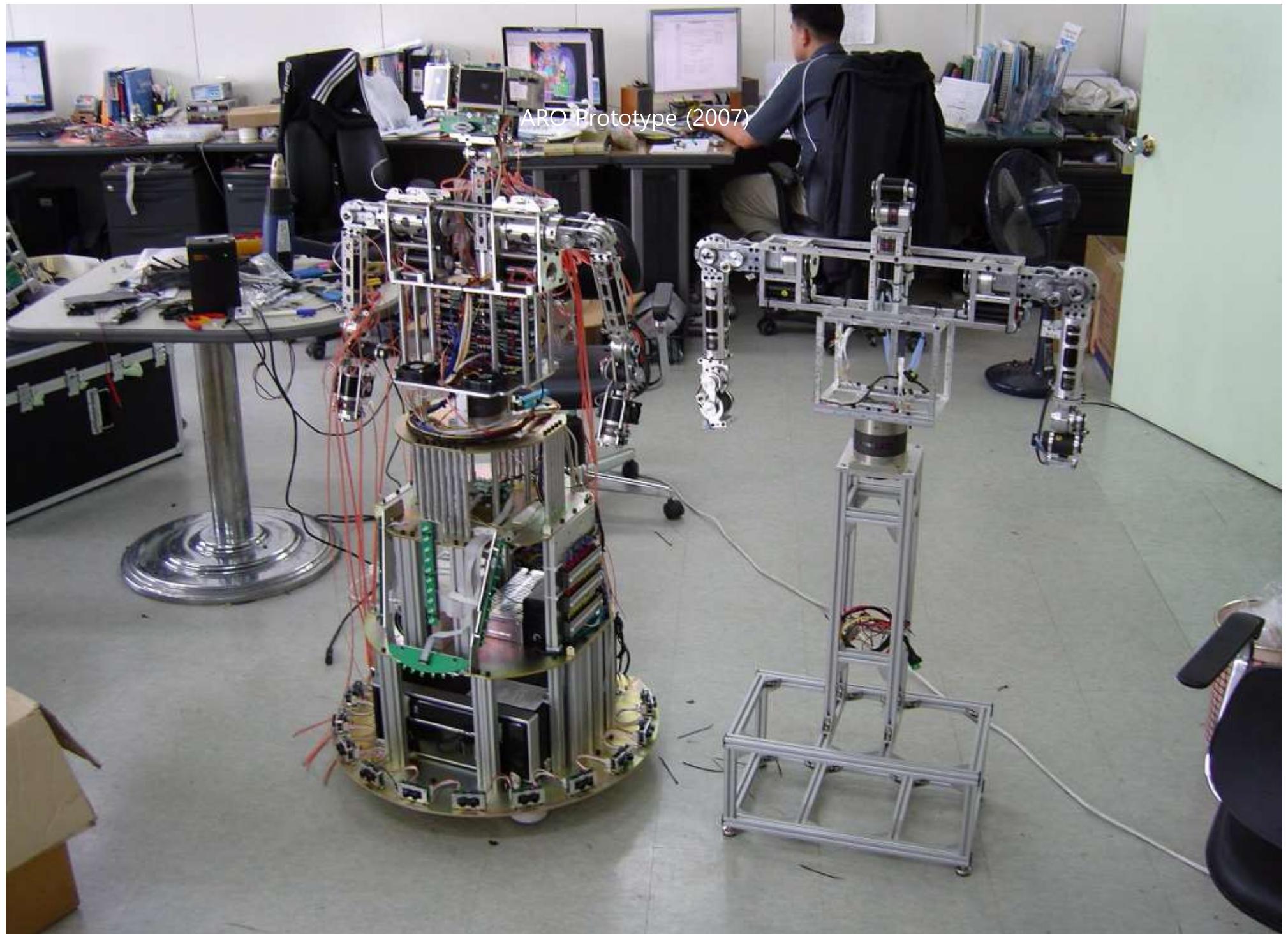
2007~2015



SCARA



ARO Prototype (2007)



ARO1 (2008)



ARO2 (2009)

[Youtube]





ELISA (2013~2014)

[Youtube]



Dynamics

시간: 0.30

ARTIC Dynamics

[Youtube]



FST for EOD Prototype



K201 Prototype



K201 Motion controller



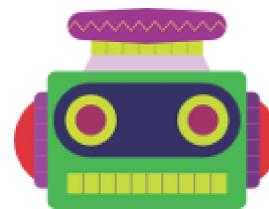
K201

[Youtube]

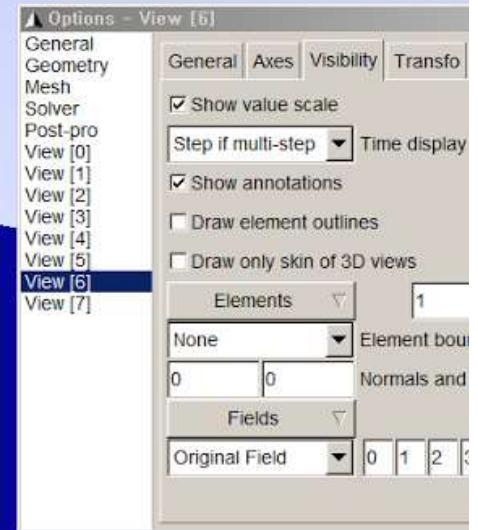
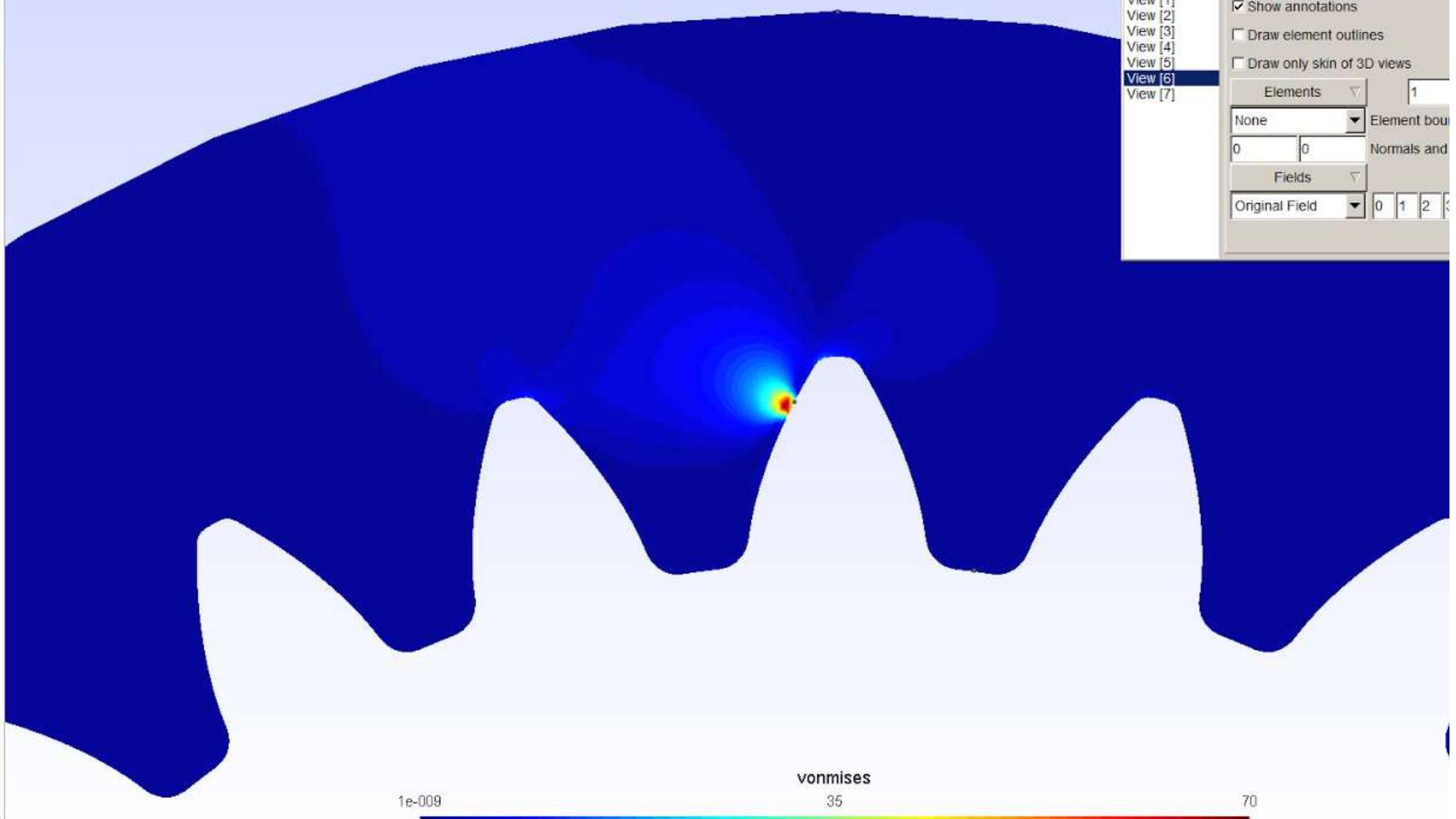


Numerical Design and Analysis

based on OpenSource Solutions



Fine Gear Profile Generation and Analysis (Julia Lang)



Done reading 'case_output.msh'



Involute Curve

EA

Pitch Curve

EA

(M)

D0

Gear (a)

D0

mm

Gear (b)

D0

mm

Gear's Root

D0

mm

(Phi)

D00

Deg

D0

(N)

D00

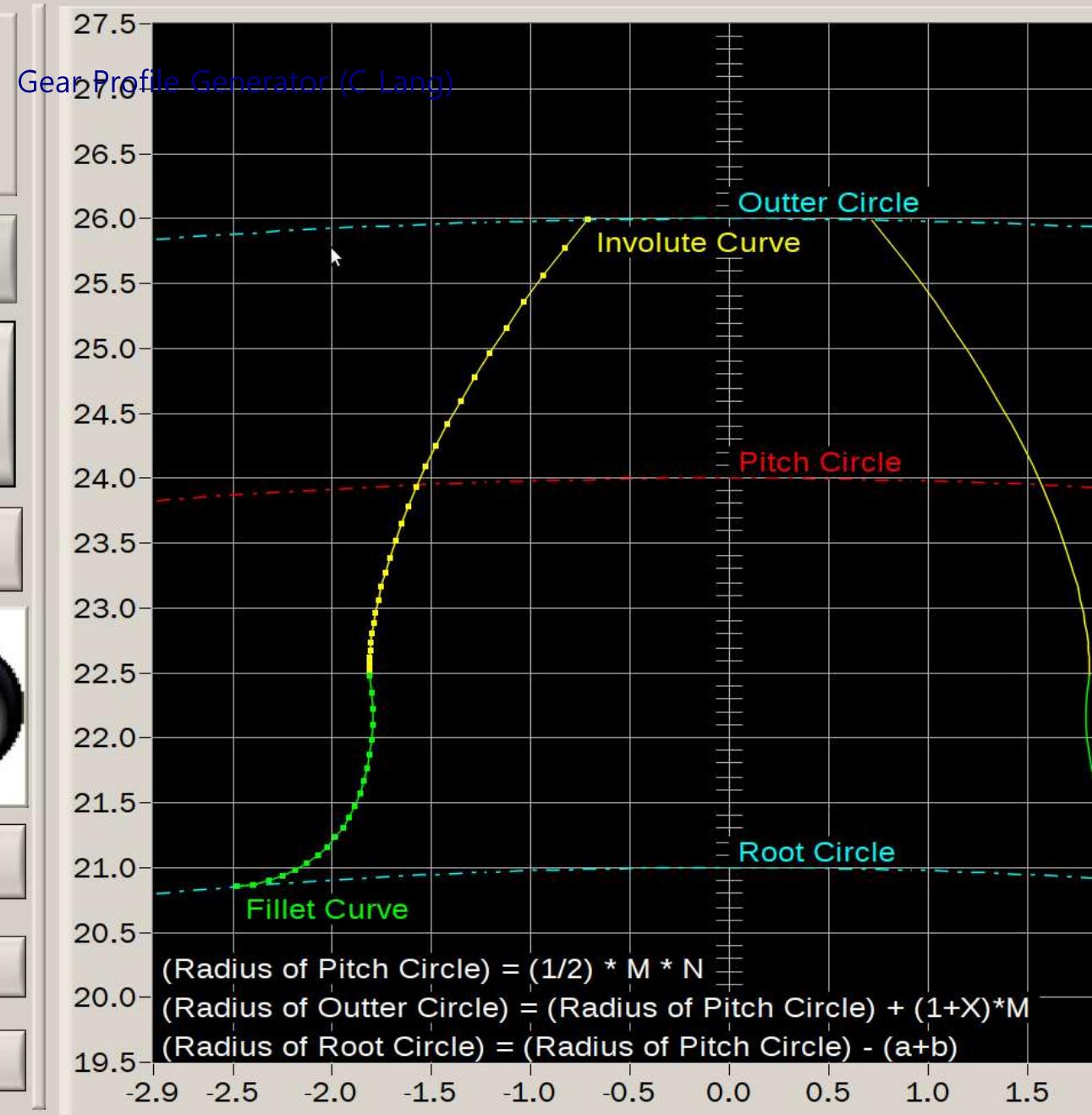
EA

Parameter

Input MethodDirect

File

Load Input file

Generate**Save Profile****Help****About ...****Quit**

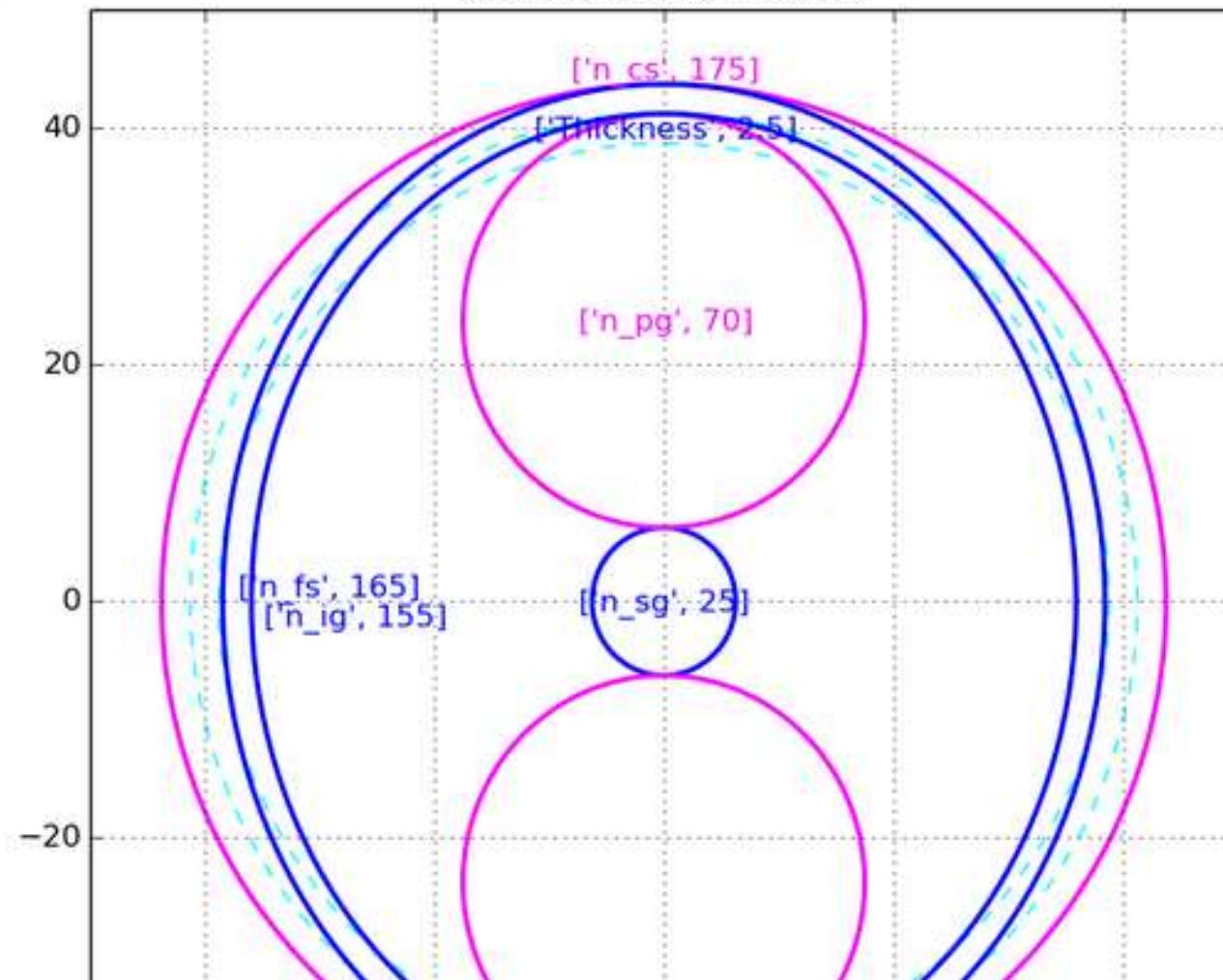
dn_fs 10
dn_ig 10
dn_sg 130

COMBI : Harmonic Drive Designer (Julia Lang)

INFO: Loading help data...

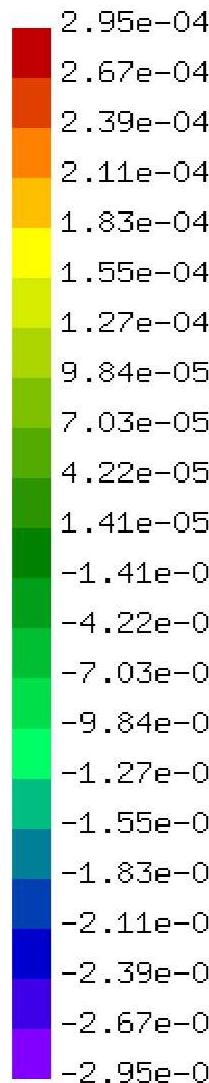
Out[1]:

COMBI REDUCER v05



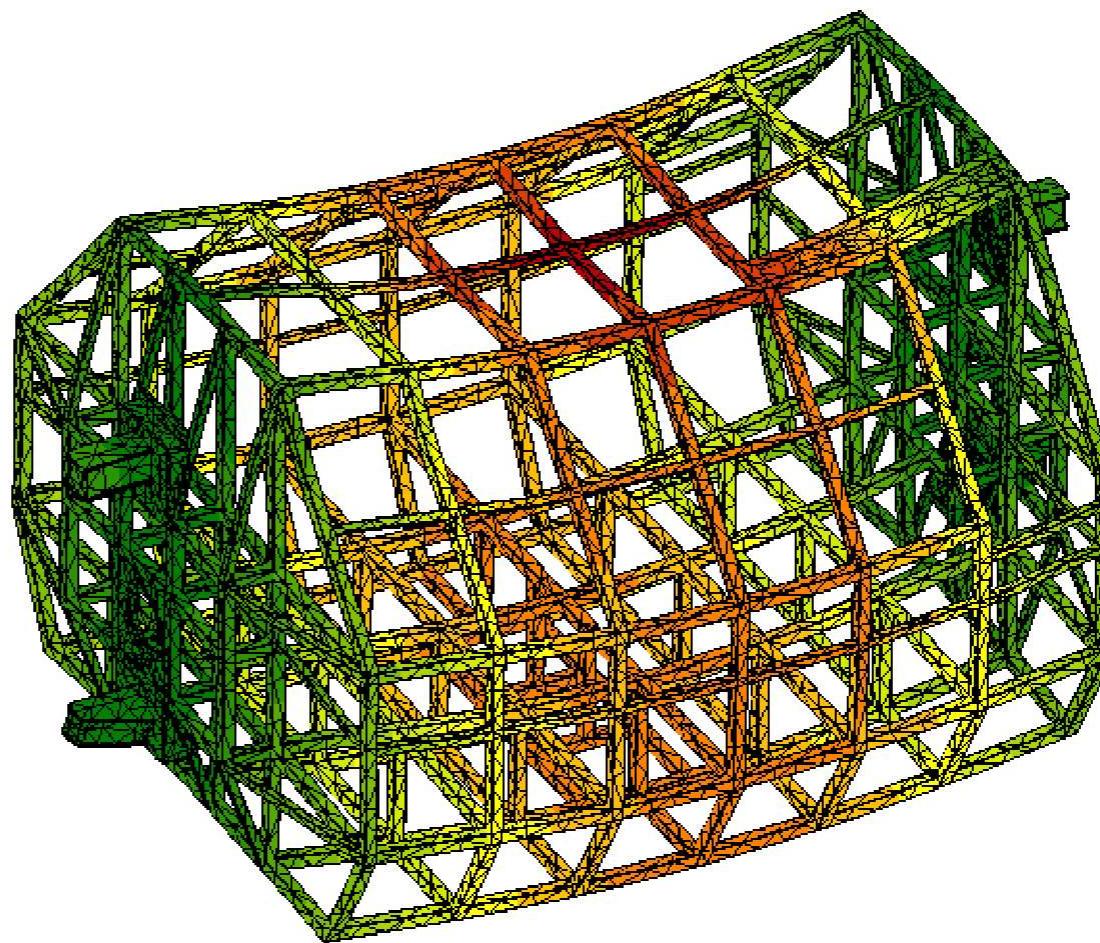
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Entity:ALL

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min: 0.00e+00



93%Amplitude

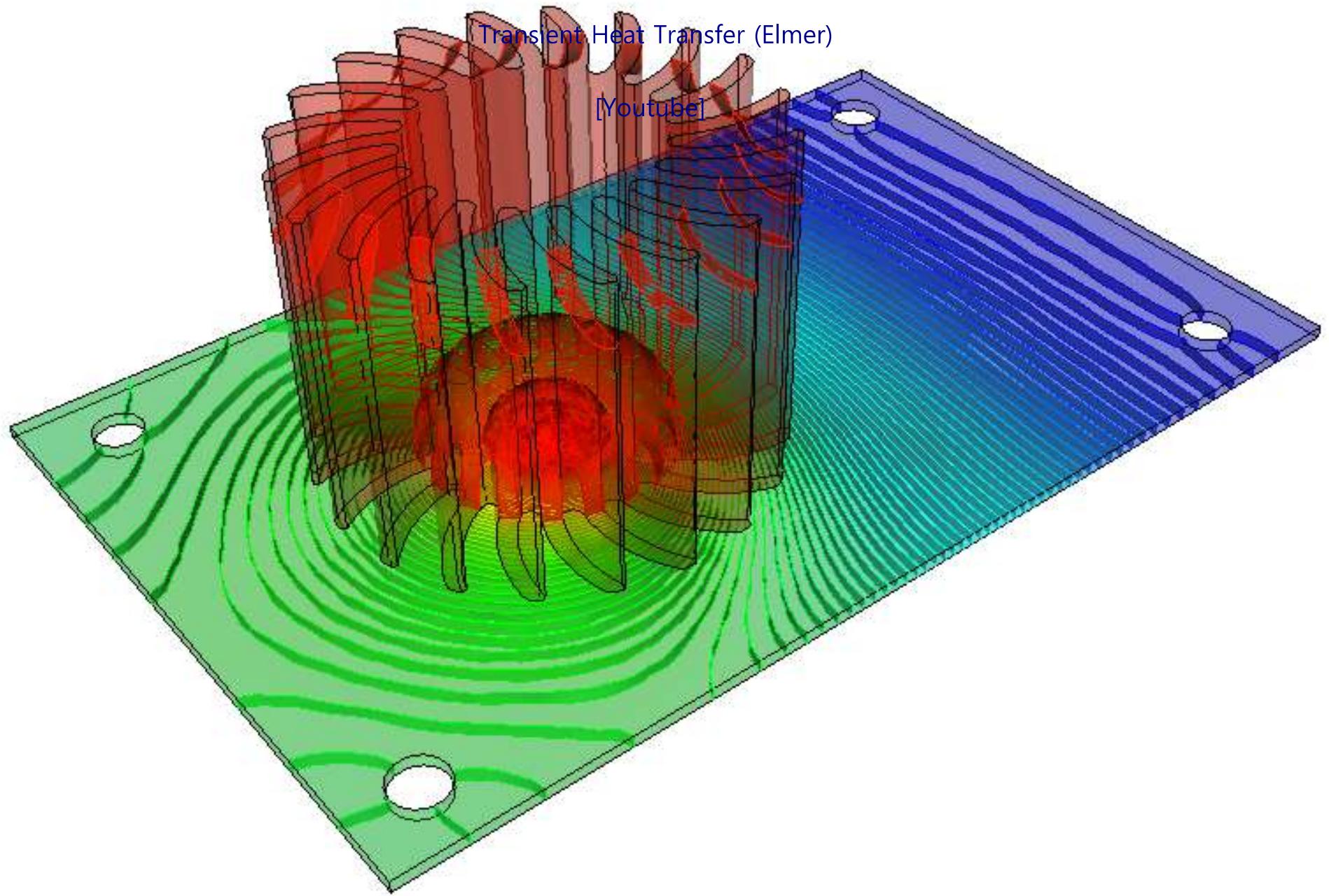
Frame FEA (CalculiX)



YZ
X

s

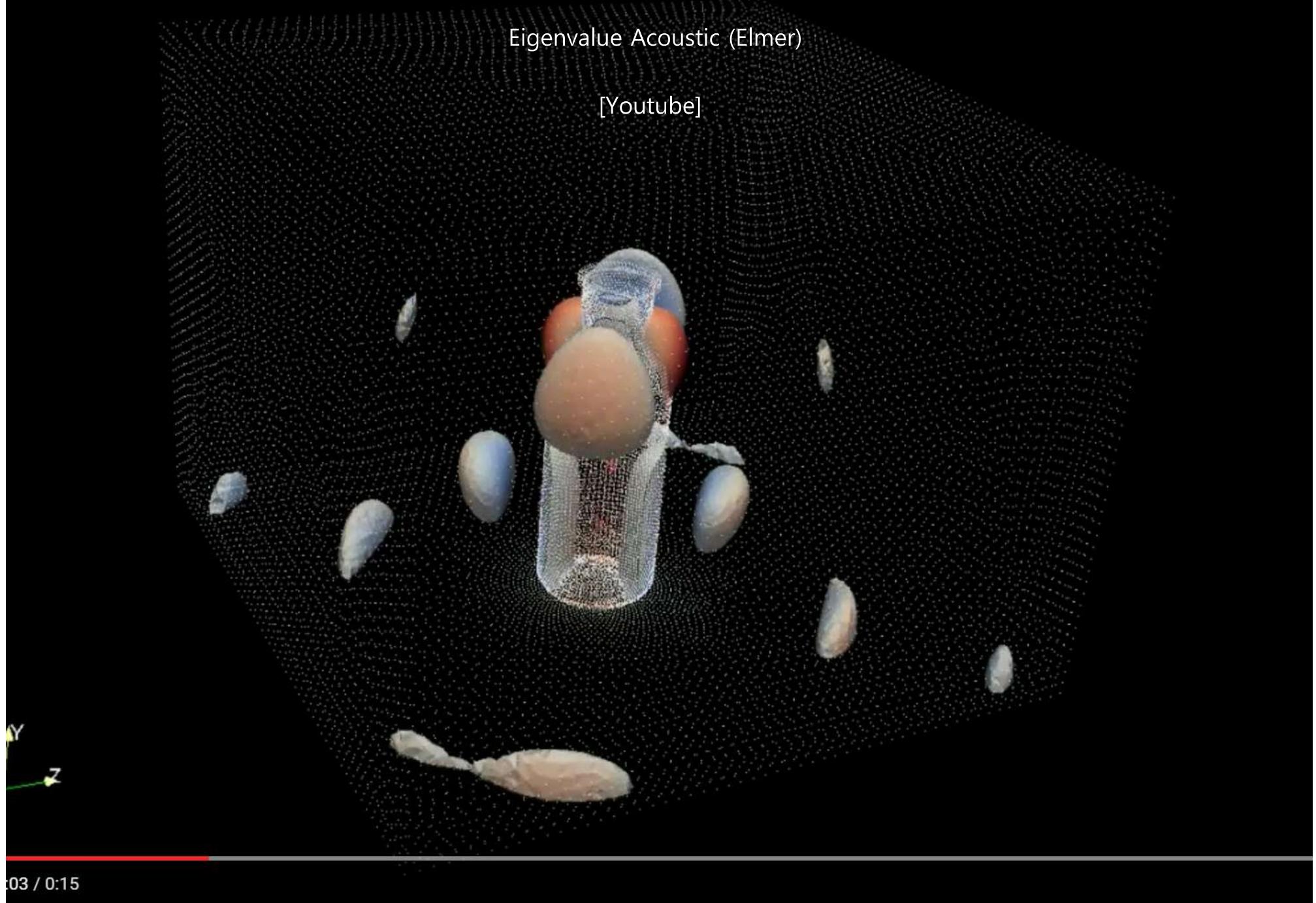
/home/dong/Documents/Analysis/20160727_P141_CalculiX_Static_Scaling/_main.frd



Acoustic 03

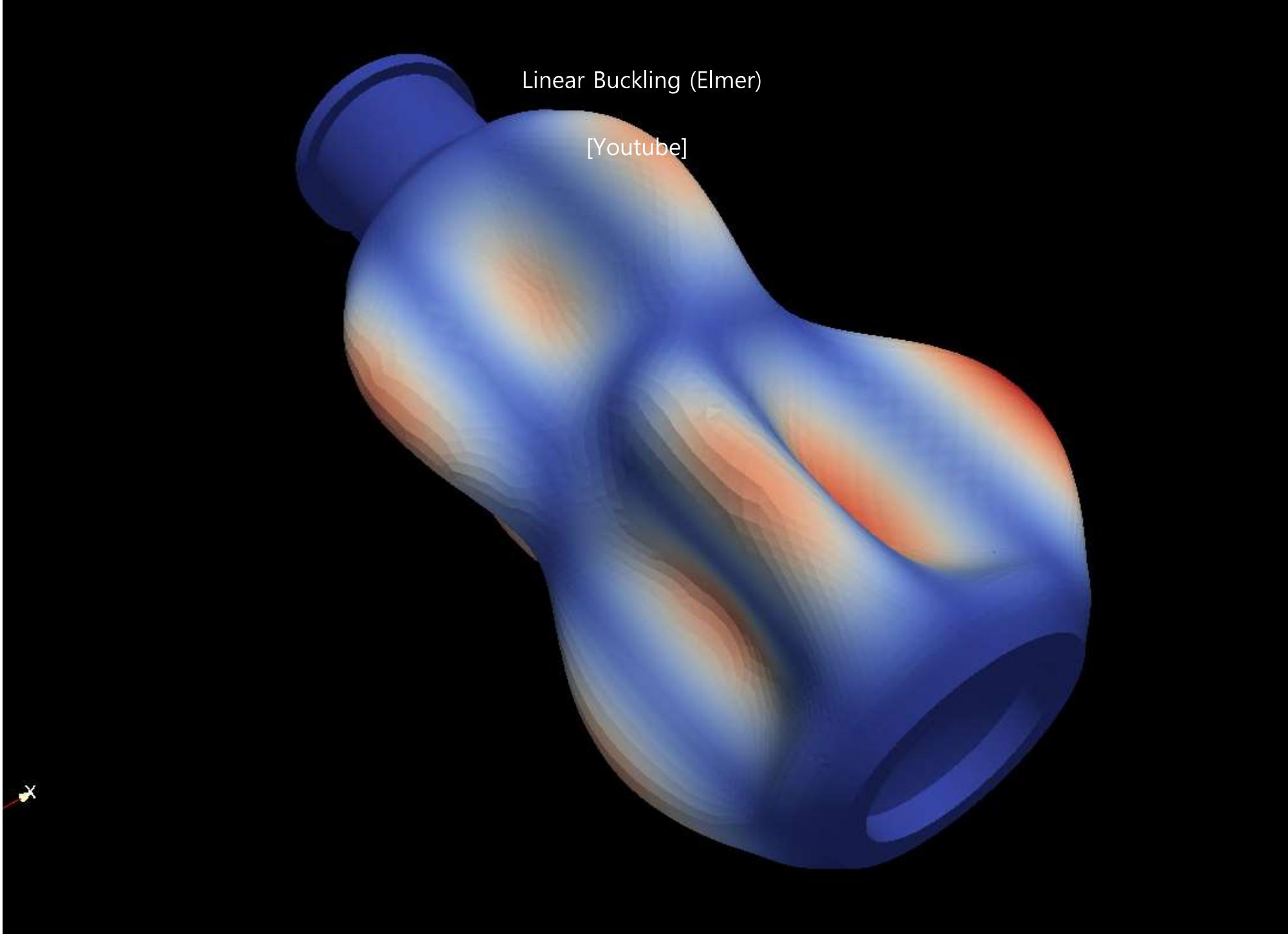
Eigenvalue Acoustic (Elmer)

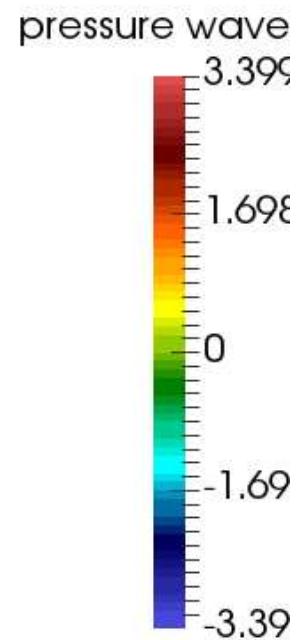
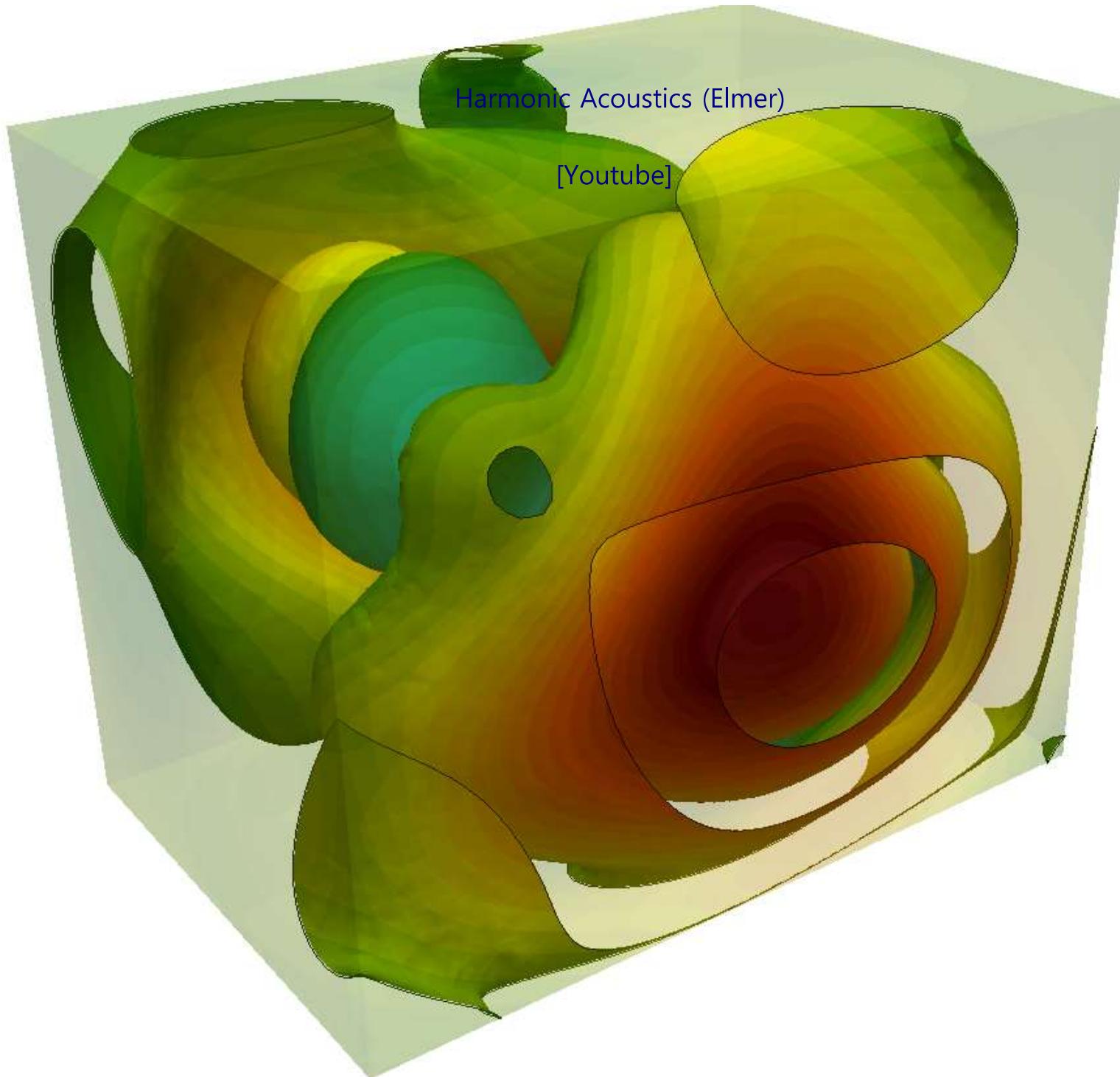
[Youtube]



Linear Buckling (Elmer)

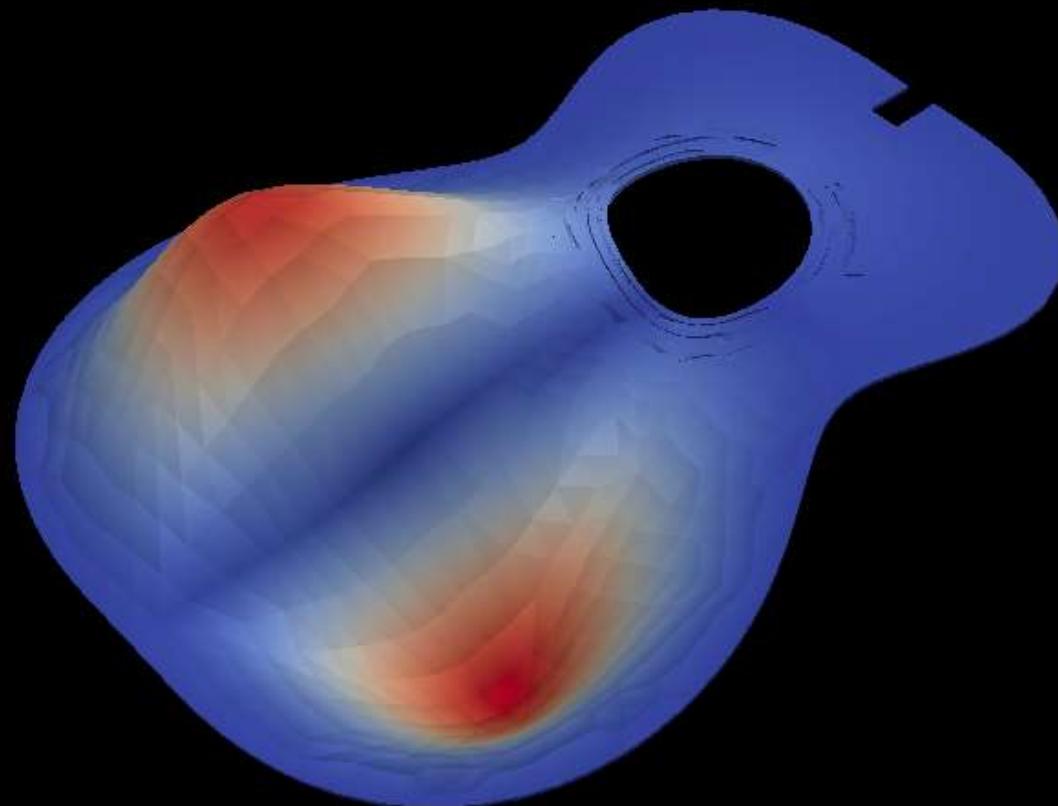
[Youtube]





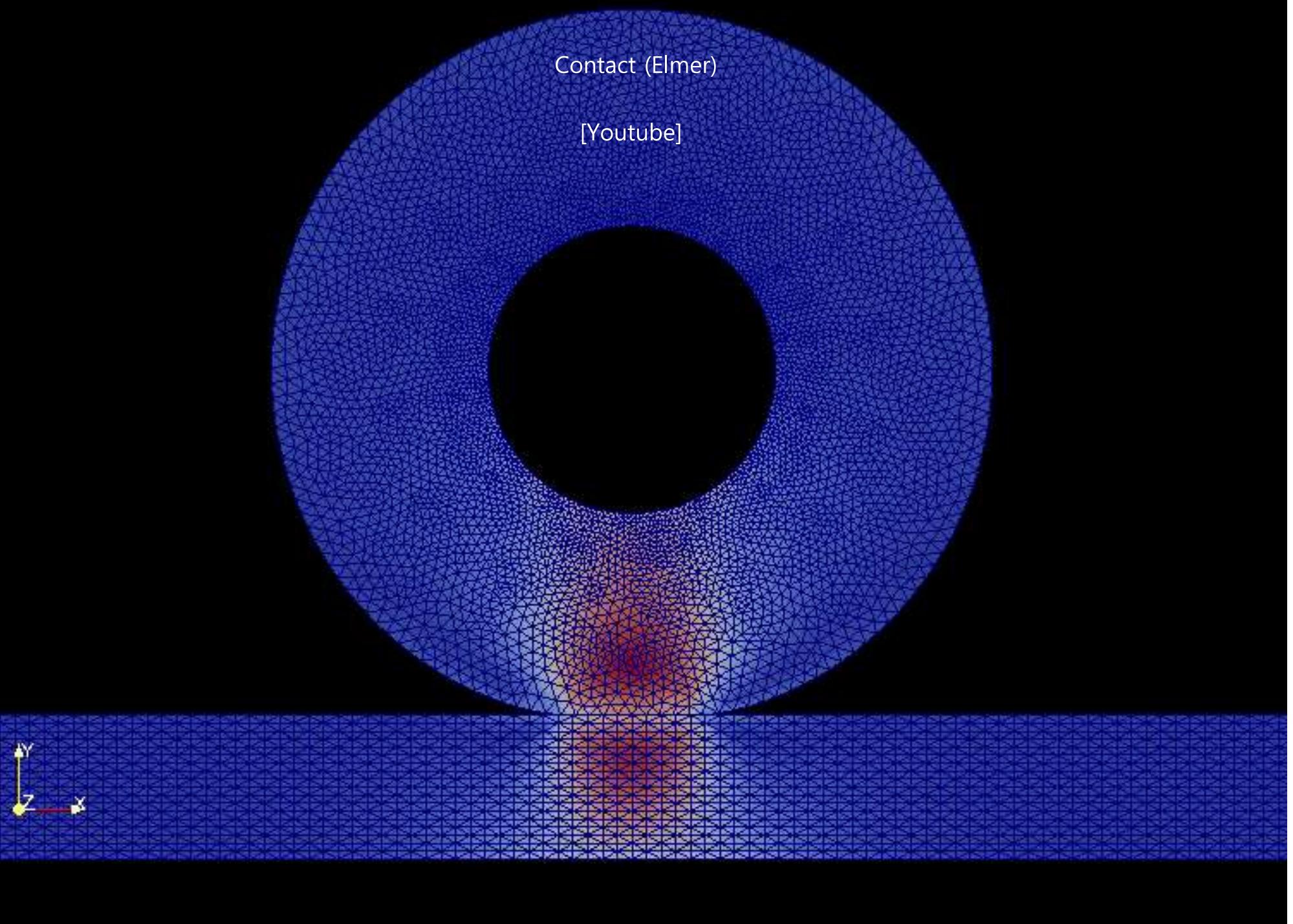
Eigenmodes (Elmer)

[Youtube]



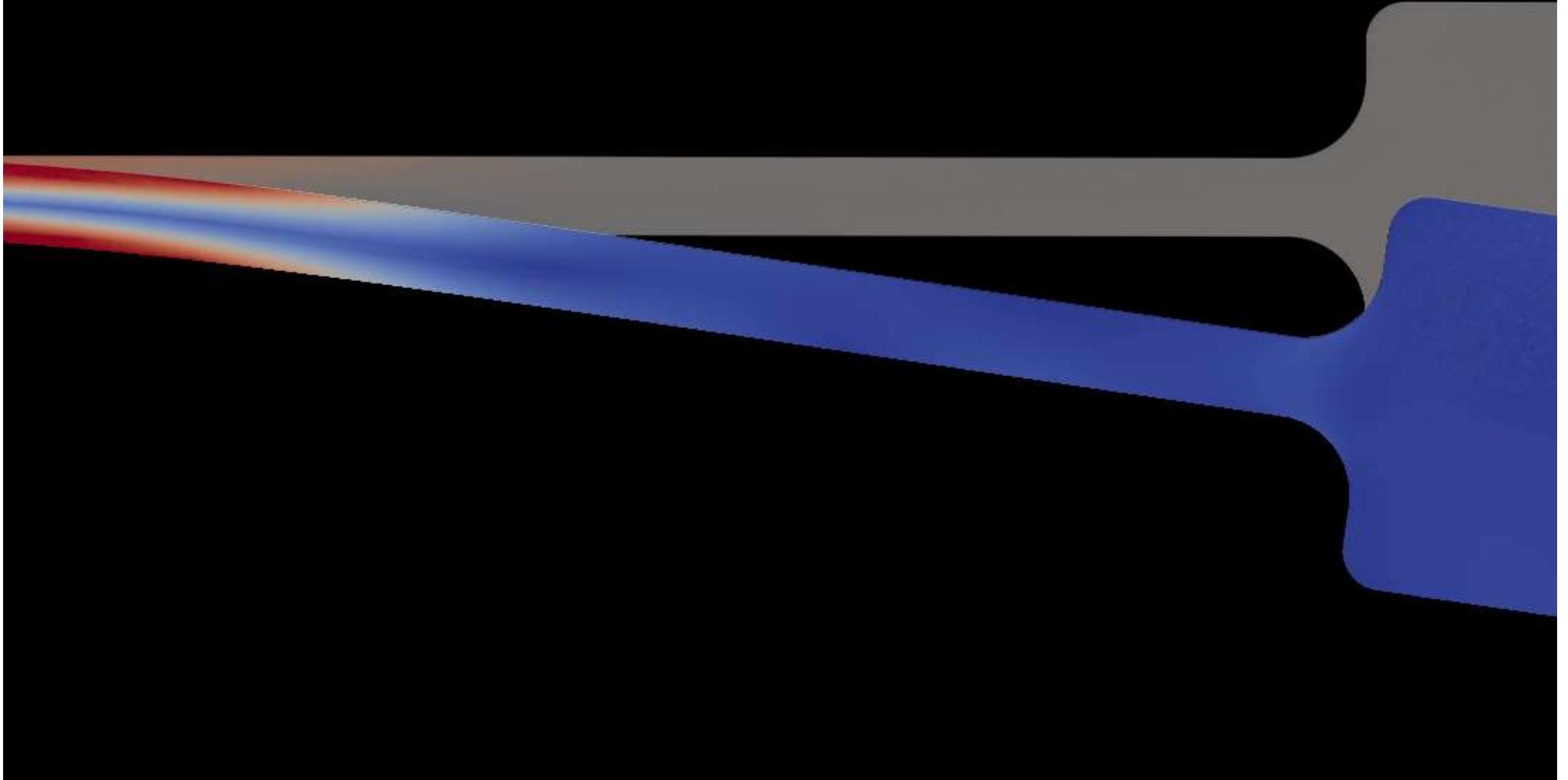
Contact (Elmer)

[Youtube]



Transient Dynamic Elasticity (Elmer)

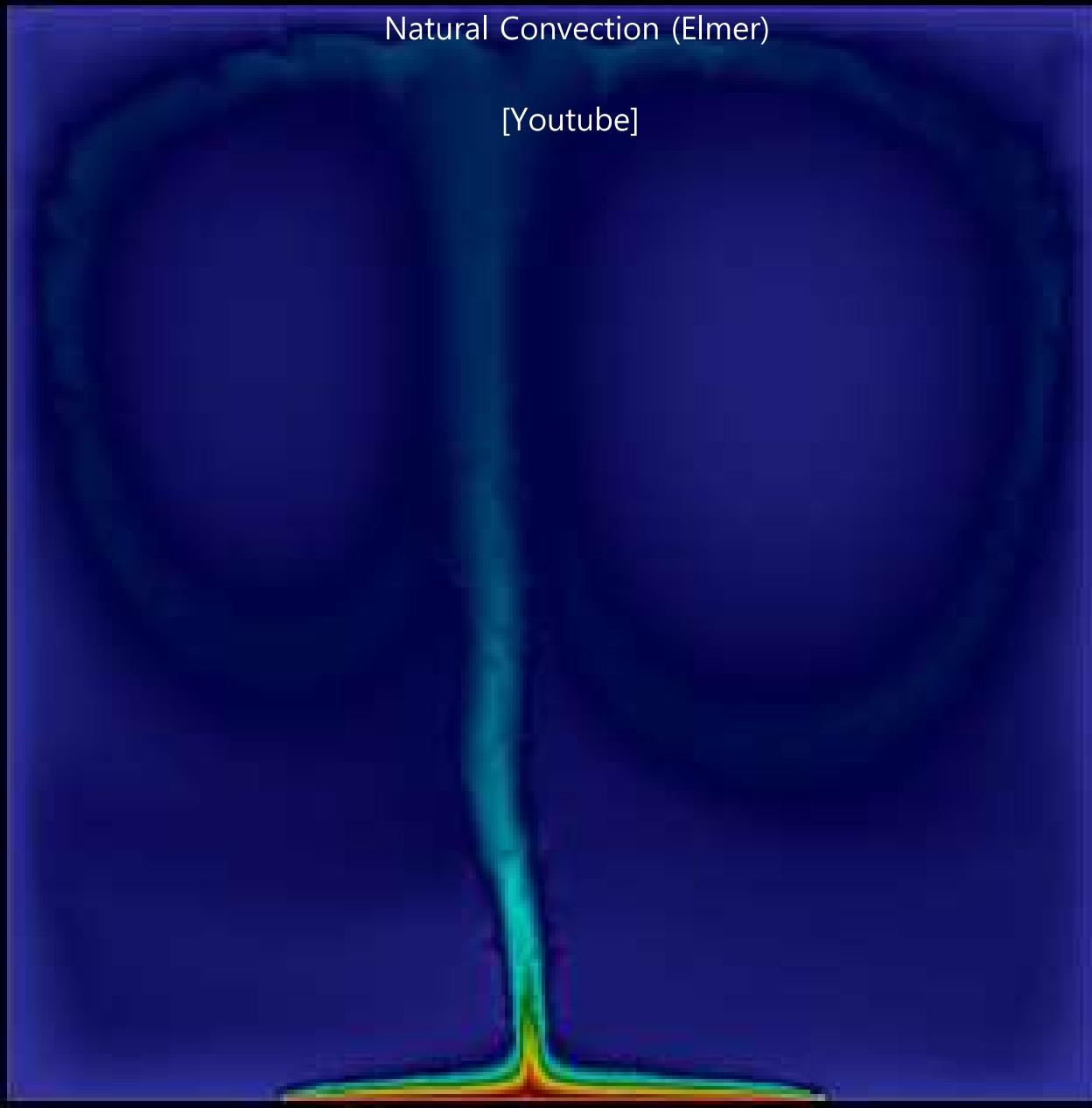
[Youtube]



Natural Convection (Elmer)

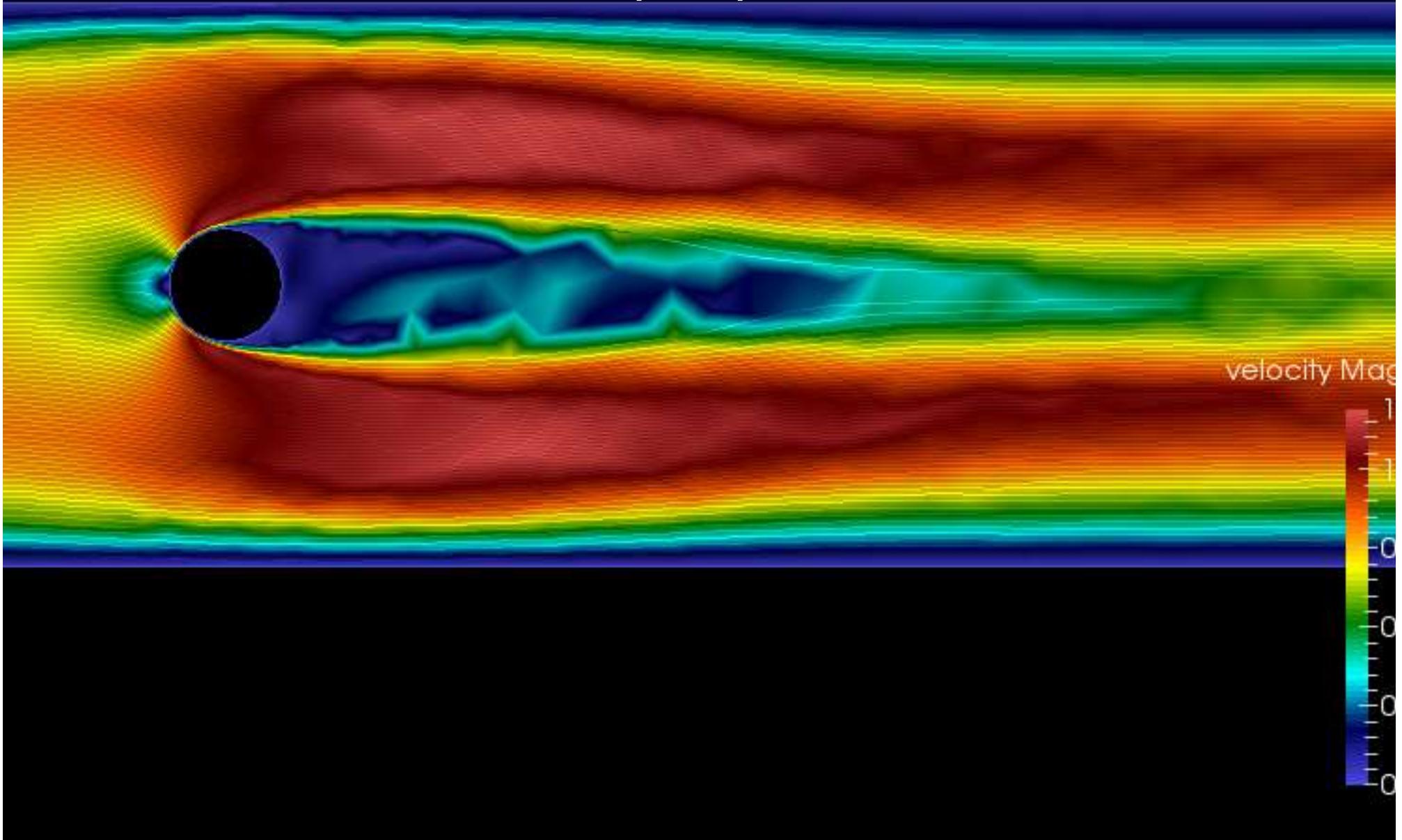
[Youtube]

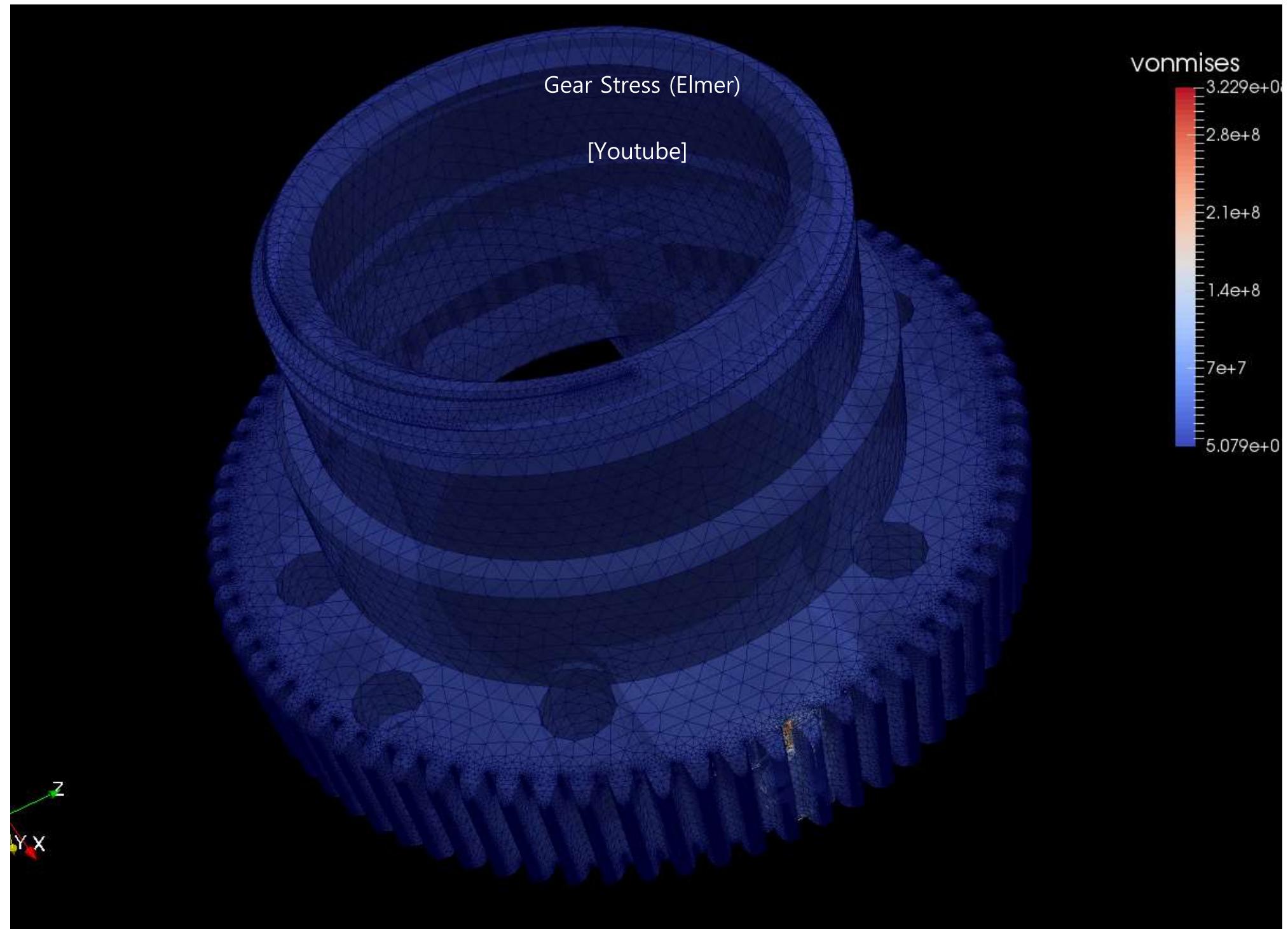
temperature



Karman Vortex (Elmer)

[Youtube]

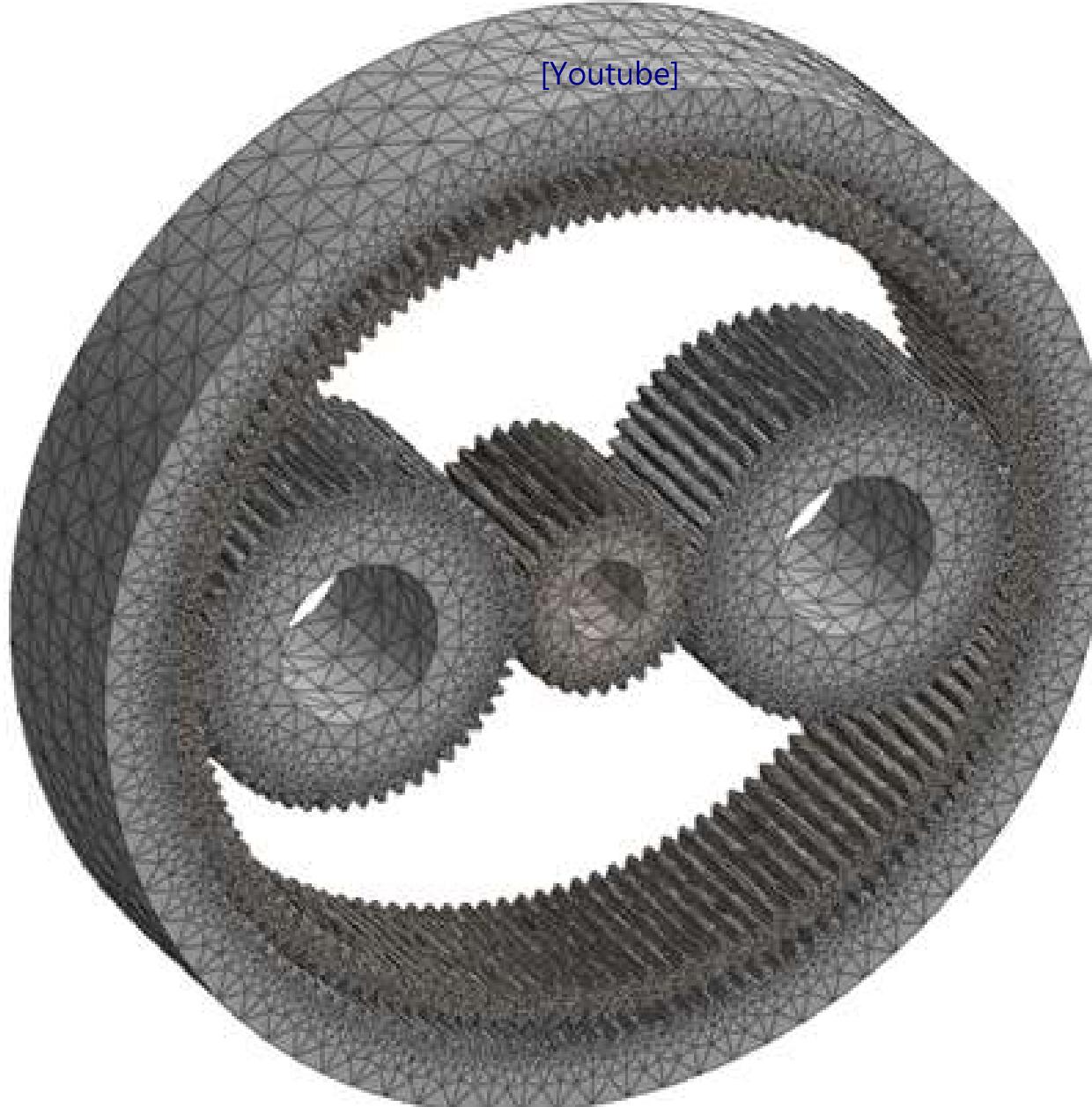






Harmonic Drive Gear Stress (MidasNFX)

[Youtube]



fin

Take this technical superiority!

dymaxion.kim@gmail.com / dymaxionkim.github.io

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