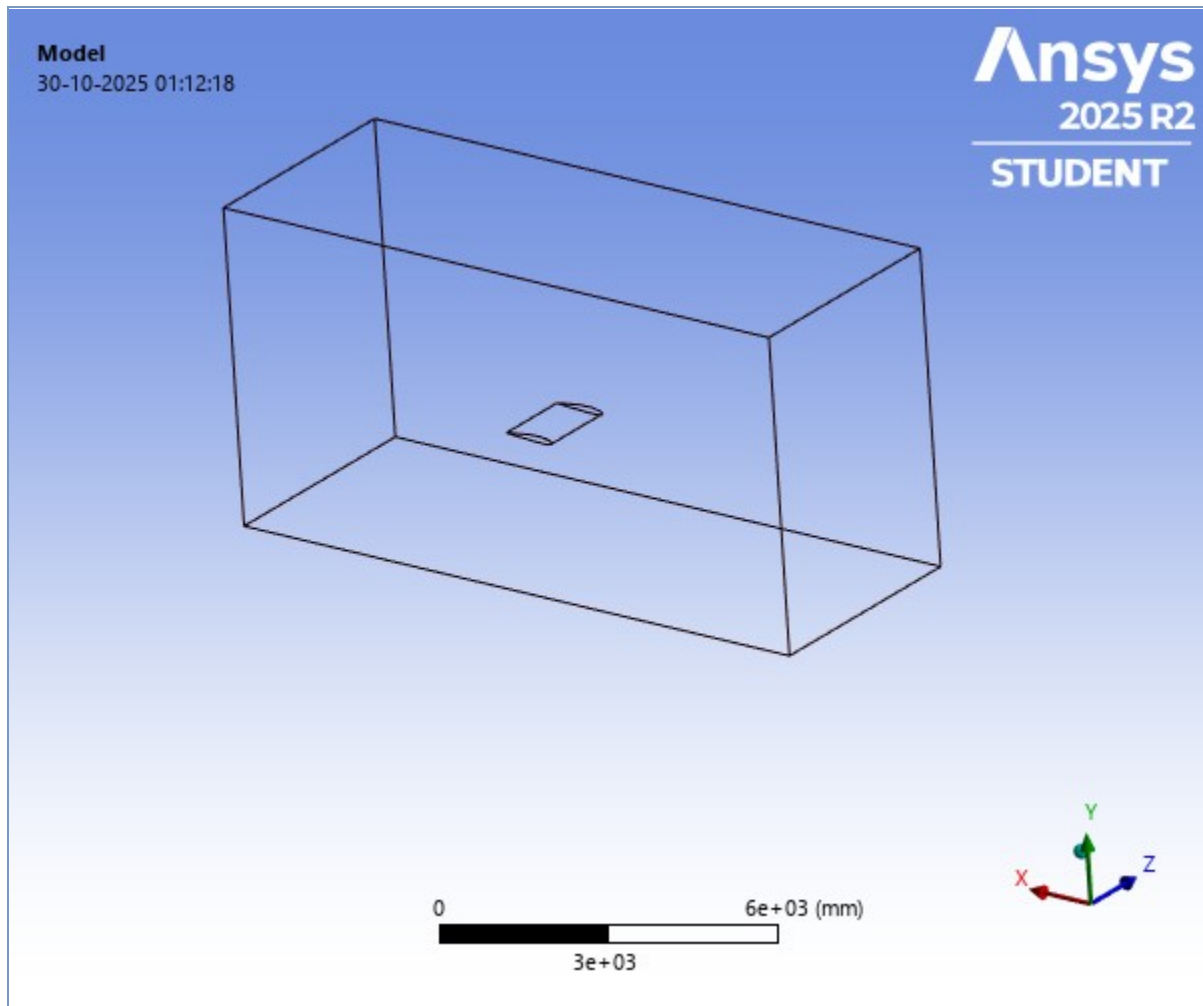# Project*

First Saved	Wednesday, October 29, 2025
Last Saved	Thursday, October 30, 2025
Product Version	2025 R2
Save Project Before Solution	No
Save Project After Solution	No

Contents

Units

TABLE 1

Unit System	Metric (mm, kg, N, s, mV, mA) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

Model (A3)

TABLE 2
Model (A3) > Geometry Imports

Object Name	Geometry Imports
State	Solved

TABLE 3
Model (A3) > Geometry Imports > Geometry Import (A2)

Object Name	Geometry Import (A2)
State	Solved
Definition	
Source	C:\Users\sayan\AppData\Local\Temp\WB_sayan_28776_2\wbnew_files\dp0\FFF\DM\FFF.agdb
Type	DesignModeler
Basic Geometry Options	
Parameters	Independent
Parameter Key	
Advanced Geometry Options	
Compare Parts On Update	No
Analysis Type	3-D

Geometry

TABLE 4
Model (A3) > Geometry

Object Name	Geometry

State	Fully Defined
Definition	
Source	C:\Users\sayan\AppData\Local\Temp\WB_sayan_28776_2 \wbnew_files\dp0\FFF\DM\FFF.agdb
Type	DesignModeler
Length Unit	Meters
Bounding Box	
Length X	12000 mm
Length Y	6121.6 mm
Length Z	4500. mm
Properties	
Volume	3.3044e+011 mm³
Scale Factor Value	1.
Statistics	
Bodies	1
Active Bodies	1
Nodes	89586
Elements	514067
Mesh Metric	None
Update Options	
Assign Default Material	No
Basic Geometry Options	
Parameters	Independent
Parameter Key	
Attributes	Yes
Attribute Key	
Named Selections	Yes
Named Selection Key	
Material Properties	Yes
Advanced Geometry Options	
Use Associativity	Yes
Coordinate Systems	Yes
Coordinate System Key	
Reader Mode Saves Updated File	No
Use Instances	Yes
Smart CAD Update	Yes
Compare Parts On Update	No
Analysis Type	3-D
Import Facet Quality	Source
Clean Bodies On Import	No
Stitch Surfaces On Import	None
Decompose Disjoint Geometry	Yes
ID_GeometryPrefProcessPhysicsDefinition	No
Enclosure and Symmetry Processing	No

TABLE 5
Model (A3) > Geometry > Parts

Object Name	*Fluid_Domain*
State	Meshed
Graphics Properties	
Visible	Yes
Transparency	0.1
Definition	

Suppressed	No
Coordinate System	Default Coordinate System
Treatment	None
Reference Frame	Lagrangian
Material	
Assignment	
Fluid/Solid	Defined By Geometry (Fluid)
Bounding Box	
Length X	12000 mm
Length Y	6121.6 mm
Length Z	4500. mm
Properties	
Volume	3.3044e+011 mm³
Centroid X	1000.2 mm
Centroid Y	18.406 mm
Centroid Z	2250.5 mm
Statistics	
Nodes	89586
Elements	514067
Mesh Metric	None

TABLE 6
Model (A3) > Materials

Object Name	*Materials*
State	Fully Defined
Statistics	
Materials	0
Material Assignments	0

Coordinate Systems

TABLE 7
Model (A3) > Coordinate Systems > Coordinate System

Object Name	*Global Coordinate System*	*XYPlane*
State	Fully Defined	
Definition		
Type	Cartesian	
Coordinate System ID	0.	
Coordinate System		Program Controlled
APDL Name		
Suppressed		No
Origin		
Origin X	0. mm	
Origin Y	0. mm	
Origin Z	0. mm	
Define By		Global Coordinates
Location		Defined
Directional Vectors		
X Axis Data	[1. 0. 0.]	
Y Axis Data	[0. 1. 0.]	
Z Axis Data	[0. 0. 1.]	
Transfer Properties		

Source		
Read Only	No	
Principal Axis		
Axis		X
Define By		Fixed Vector
Orientation About Principal Axis		
Axis		Y
Define By		Fixed Vector
Transformations		
Base Configuration		Absolute
Transformed Configuration		[0. 0. 0.]

Mesh

TABLE 8
Model (A3) > Mesh

Object Name	*Mesh*
State	Solved
Display	
Display Style	Use Geometry Setting
Defaults	
Physics Preference	CFD
Solver Preference	Fluent
Element Size	500.0 mm
Export Format	Standard
Export Preview Surface Mesh	No
Sizing	
Use Adaptive Sizing	No
Growth Rate	1.1
Max Size	500.0 mm
Mesh Defeaturing	Yes
Defeature Size	Default (2.5 mm)
Capture Curvature	Yes
Curvature Min Size	Default (5.0 mm)
Curvature Normal Angle	Default (18.0°)
Capture Proximity	Yes
Proximity Min Size	Default (5.0 mm)
Proximity Gap Factor	Default (3.0)
Proximity Size Sources	Faces and Edges
Bounding Box Diagonal	14203 mm
Average Surface Area	3.4786e+007 mm²
Minimum Edge Length	1013.1 mm
Quality	
Check Mesh Quality	Yes, Errors
Target Skewness	Default (0.9)
Smoothing	Medium
Mesh Metric	None
Inflation	
Use Automatic Inflation	None
Inflation Option	Smooth Transition
Transition Ratio	0.272
Maximum Layers	5

Growth Rate	1.2
Inflation Algorithm	Pre
View Advanced Options	No
Advanced	
Number of CPUs for Parallel Part Meshing	Program Controlled
Straight Sided Elements	
Rigid Body Behavior	Dimensionally Reduced
Triangle Surface Mesher	Program Controlled
Topology Checking	Yes
Pinch Tolerance	Default (4.5 mm)
Generate Pinch on Refresh	No
Automatic Methods	
Sheet Body Method	Quad Dominant
Sweepable Body Method	Sweep
Statistics	
Nodes	89586
Elements	514067
Show Detailed Statistics	No

TABLE 9
Model (A3) > Mesh > Mesh Controls

Object Name	*Face Sizing 2*
State	Fully Defined
Scope	
Scoping Method	Geometry Selection
Geometry	3 Faces
Definition	
Suppressed	No
Type	Element Size
Element Size	50.0 mm
Advanced	
Defeature Size	Default (2.5 mm)
Influence Volume	No
Growth Rate	Default (1.1)
Capture Curvature	Yes
Curvature Normal Angle	Default (18.0°)
Local Min Size	Default (5.0 mm)
Capture Proximity	No

Named Selections

TABLE 10
Model (A3) > Named Selections > Named Selections

Object Name	symmetry	inlet	outlet	walls	wing
State	Fully Defined				
Scope					
Scoping Method	Geometry Selection				
Geometry	1 Face			3 Faces	
Definition					
Send to Solver	Yes				
Protected	Program Controlled				
Visible	Yes				

Program Controlled Inflation	Exclude			
Statistics				
Type	Manual			
Total Selection	1 Face		3 Faces	
Surface Area	7.3382e+007 mm²	2.7547e+007 mm²	1.8146e+008 mm²	3.1357e+006 mm²
Suppressed	0			
Used by Mesh Worksheet	No			