

Fighter Jet Landing Gears

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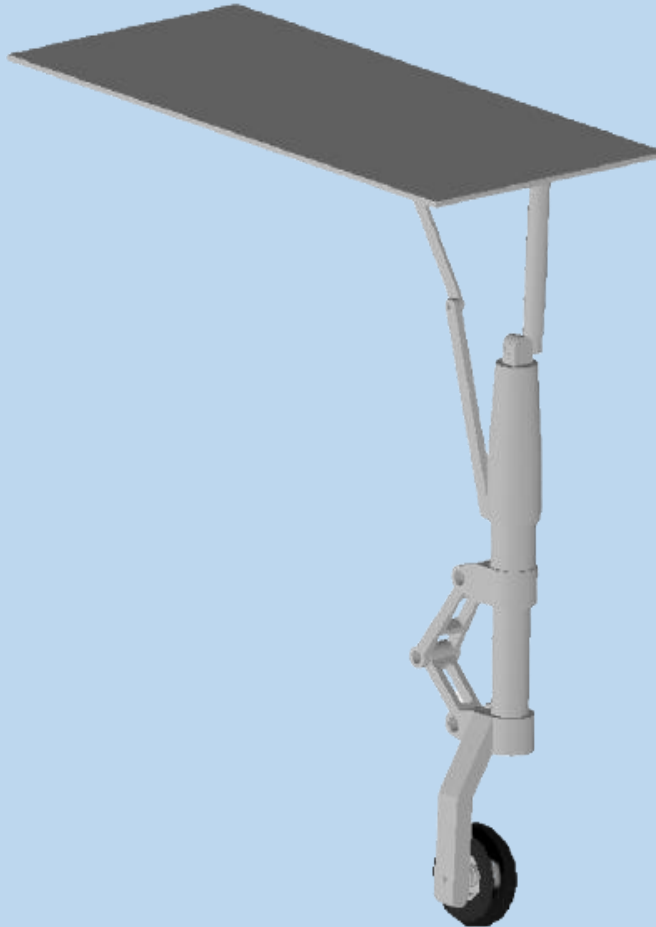
June 2021

TRICYCLE-TYPE LANDING GEAR

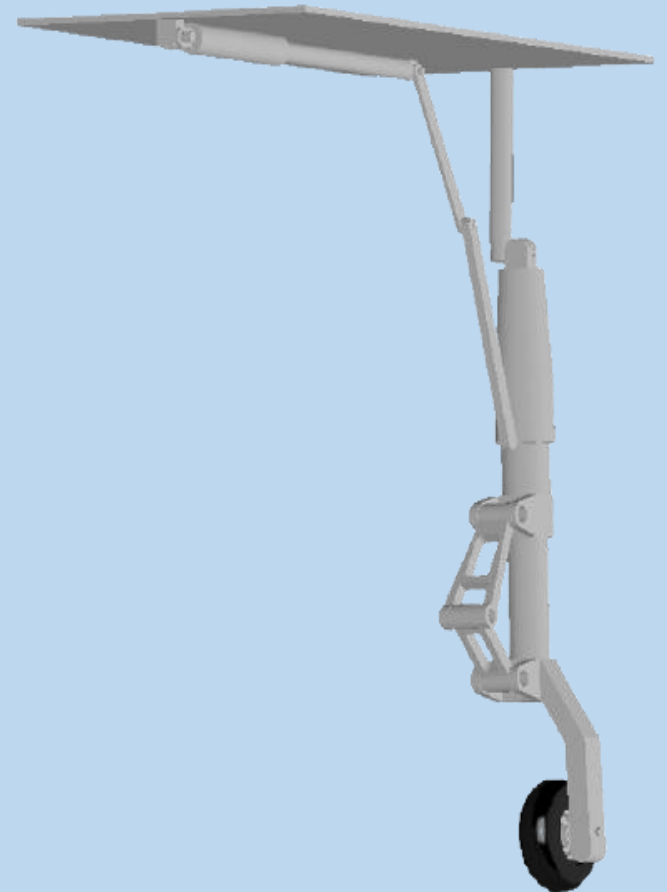
Left Landing Gear



Nose Landing Gear



Right Landing Gear



NOSE LANDING GEAR

❑ **Featured Parts:** 14

❑ **CAD Drawing Techniques:**

Circular Patterns

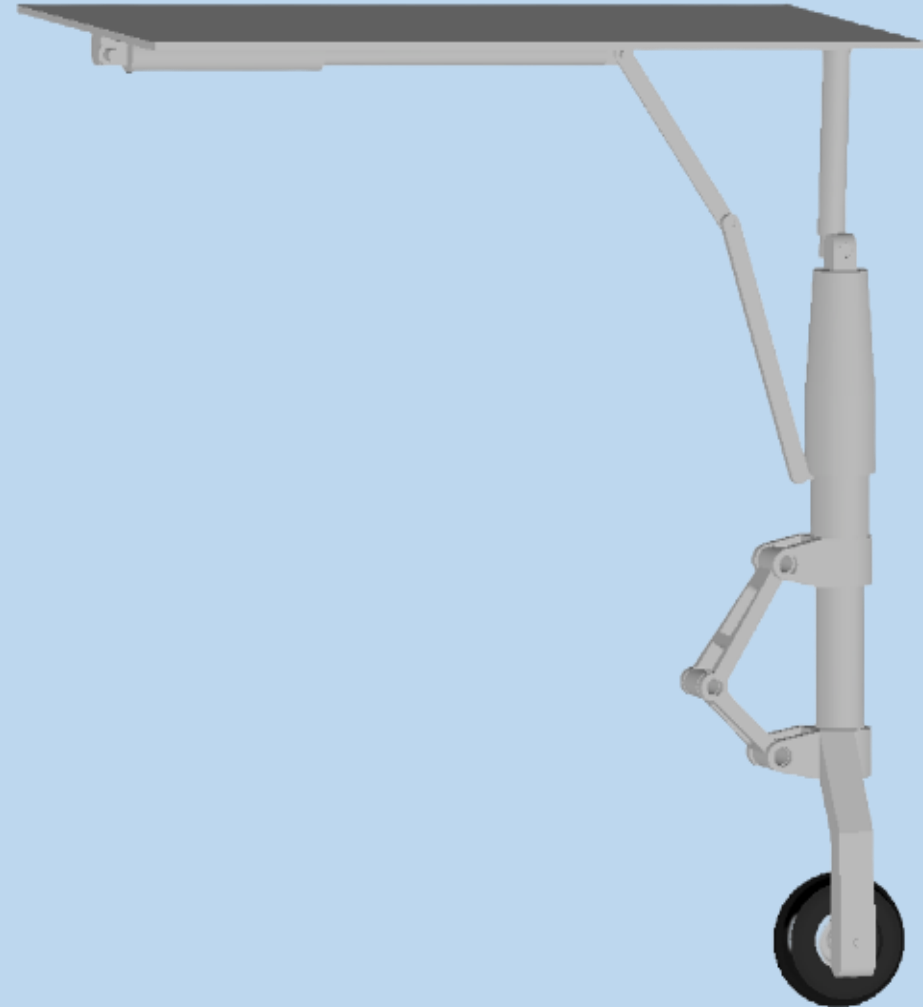
Emboss

Multiple Assemblies

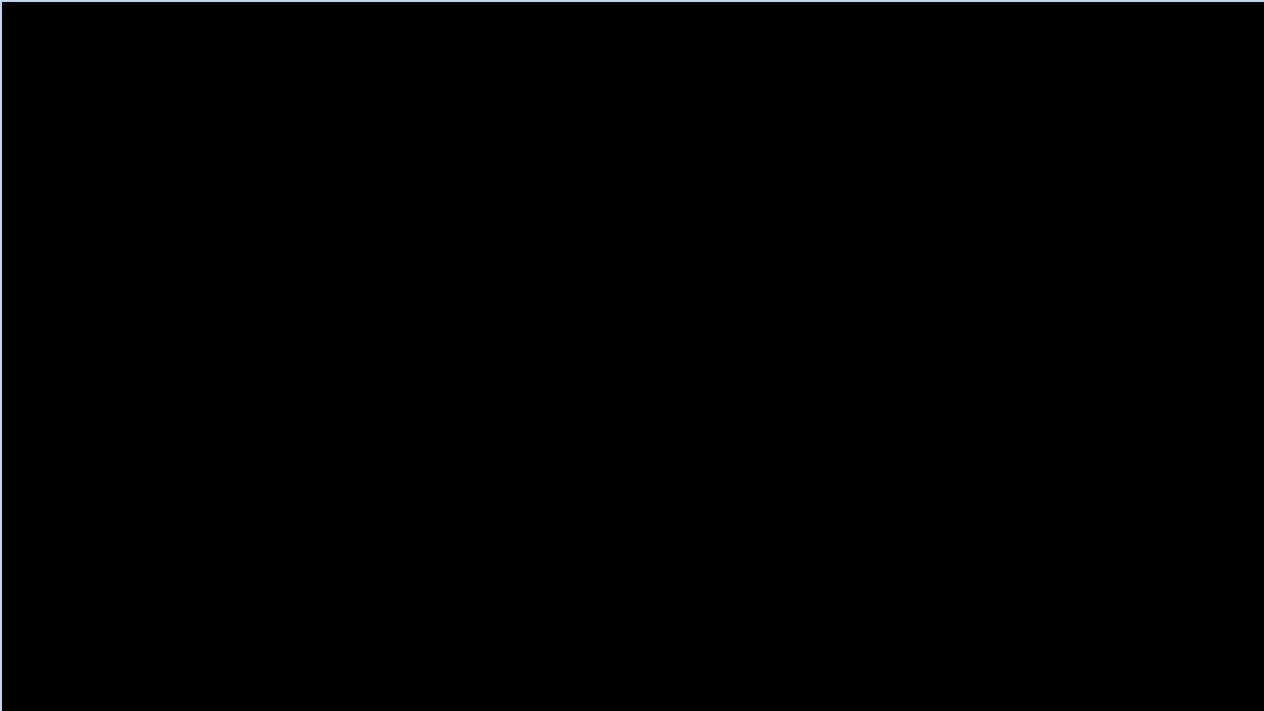
Animations (Inventor Studio)

Presentation (Dissassembly/Assembly)

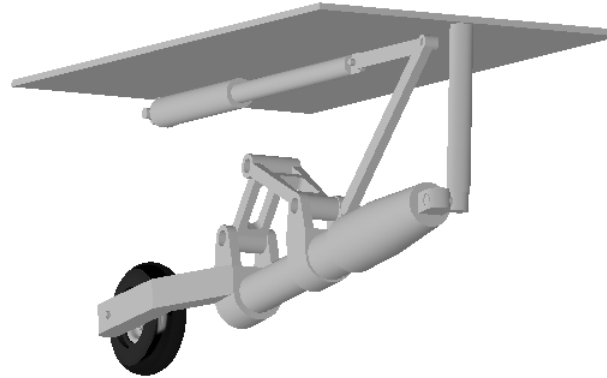
Stress Analysis



NOSE LANDING GEAR



FULL WORKING CYCLE OF THE GEARS



STATIC ANALYSIS OF THE GEARS

□ Study

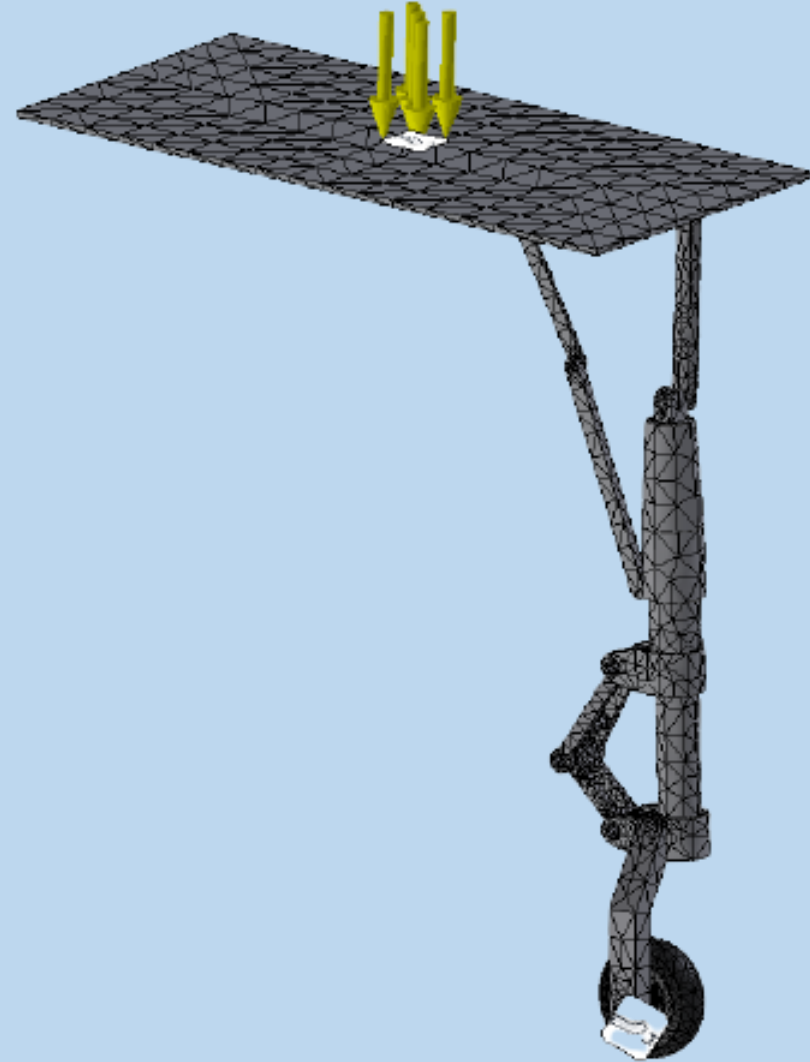
Material: Al 6061 and Rubber

Gravity

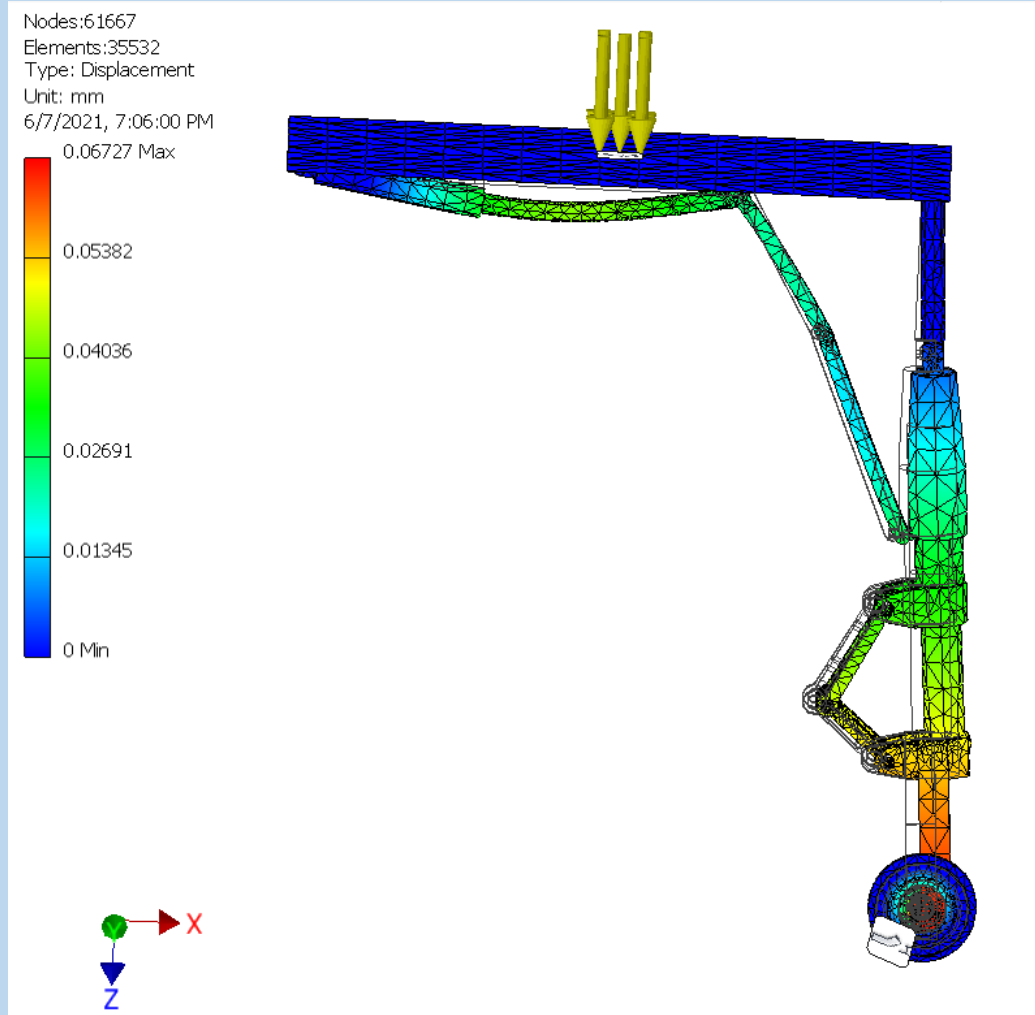
Pressure of 0.014 Mpa

Fixed Constraint at top part attached to fuselage

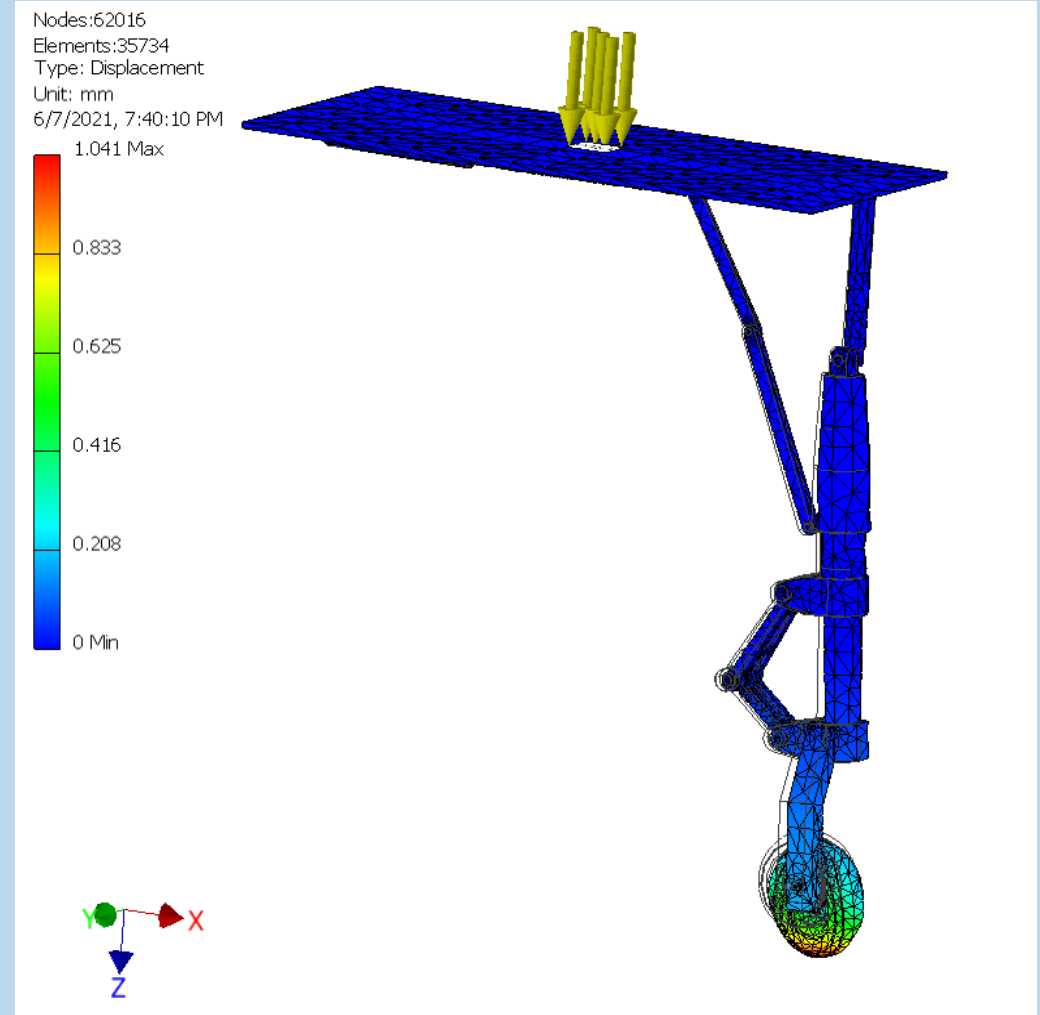
Fixed Constraint at tire on the ground



STATIC ANALYSIS OF THE GEARS



Wheel fixed to the ground



Wheel not fixed to the ground