

Composite Engineering Summary

Challenges

- Learning compression mold and lamination mold design
- Working with aerodynamic and other very challenging geometries

Manufacturing Processes

- CNC lathe
- Mill, 3, 4, and 5 axis
- Compression molding
- Lamination tooling
- Vacuum fixturing

Highlights

- Quickly became the lead compression mold and lamination mold designer
- Self-taught in Catia 3D modeling software to a high level
- Gained valuable experience working closely with CNC programmers and machinists
- Learned the importance of locating but not over constraining parts in machining fixtures

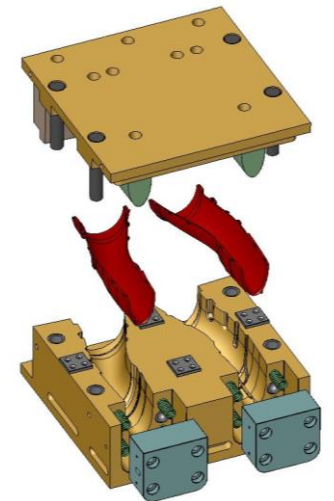
THOUGHT BOMB DESIGN

Work shown was completed as Project Engineer while employed at Composite Engineering

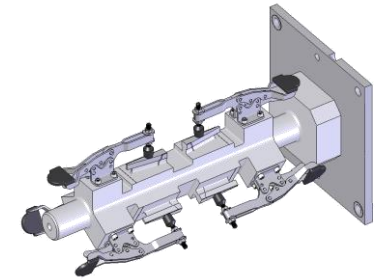


Primarily carbon fiber laminate and compression molded parts

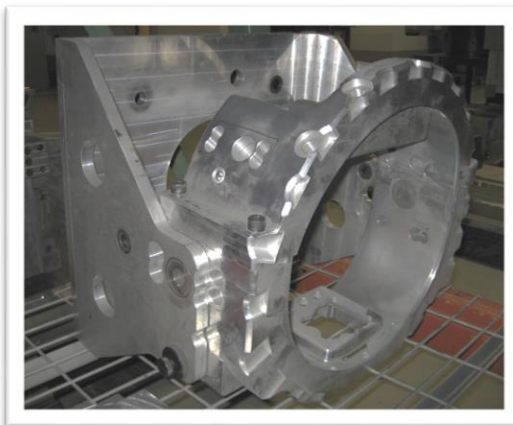
Sub-scale aerial drone used by the air force to train pilots



Compression mold



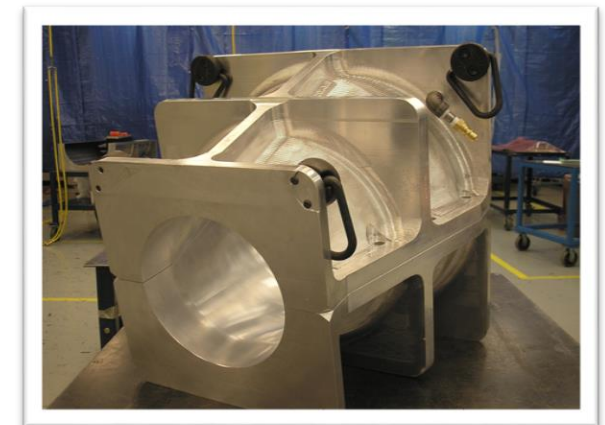
4th axis machining fixture



90 degree indexing machining fixture



Tail cone vacuum machining fixture



Jet engine exhaust lamination tool