



Process

Vacuum molding
Compression Molding
Thermal Forming
Rapid Prototype Tooling
SMC Molds
Electrical Engineering
Automation Machines
Bypass Trim Tools
Waterjet Trimming
Pour Molds
Inspection Fixtures



Our Specialization

Hood, Dash, Tunnels, Cowls Absorbers

Trunk and carpet system

Headliners

Package Trays

Engine cover

SMC Floor and Kick Plates

Heatshield

Battery Wrap

Wheelhouse Liners

Load floor

Poke Yoke



Design Capabilities

- Product Development
- Part Design Modification
- Complete Tooling Design
- Engineering and Tooling Modification
- Data translation and CNC Programming
- Surface and Solid Modelling
- Detail Drawings with BOM

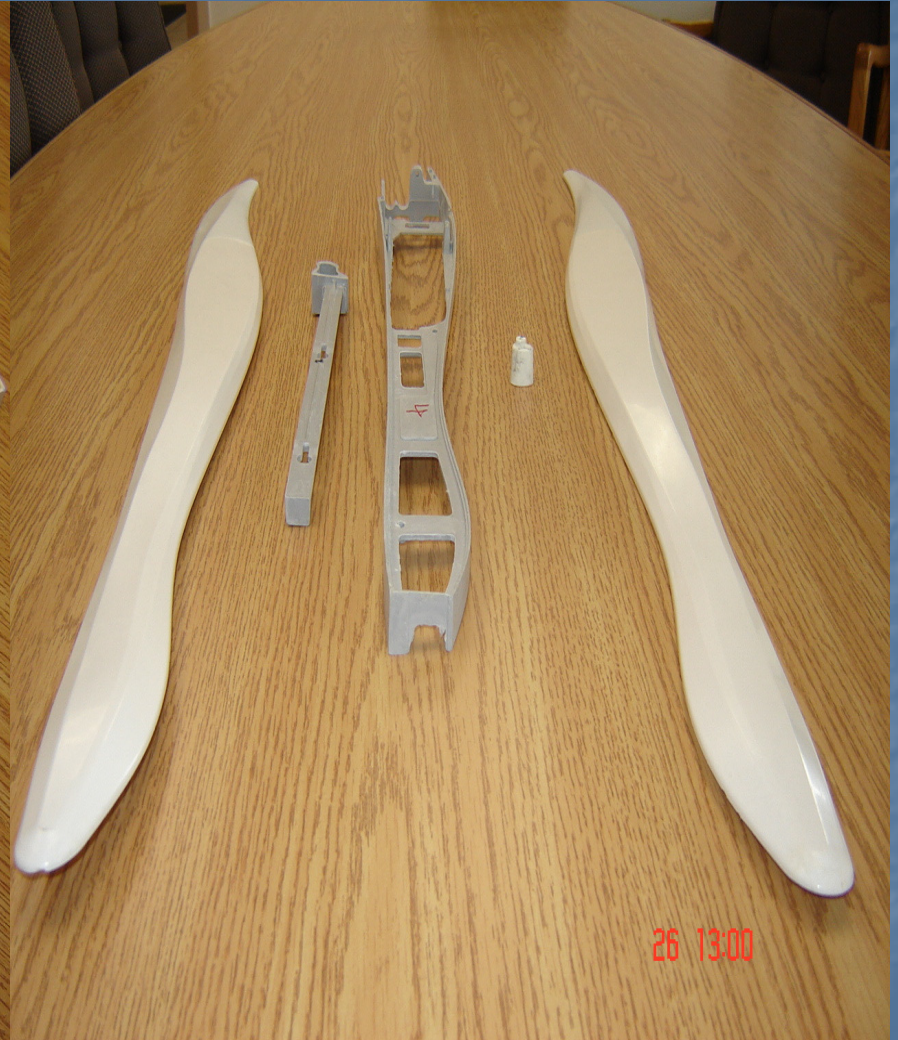
Electric Coil & Split-Cartridge Heaters



SMC Parts



SMC Parts



2010 Winter Olympic Torch



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* Tool size 65" X 57" X 8"

*Trimming Fixture with suction cups.



Water Jet Fixture





Composite Tooling

- * Accurate tooling
- * Manufactures functional parts
- * Prototype Tooling
- * Low volume tooling
- * Low cost tooling
- * **Fiberglass Infusion models**



Composite Tooling

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DRAWING REVISION TABLE			
NO.	DATE	DESCRIPTION	BY

LIST OF MATERIALS			
ITEM NO.	DESCRIPTION	QUANTITY	REMARKS

LIST OF DIMENSIONS			
ITEM NO.	DESCRIPTION	VALUE	REMARKS

CDT
Composite Tooling
84210907
1 of 1



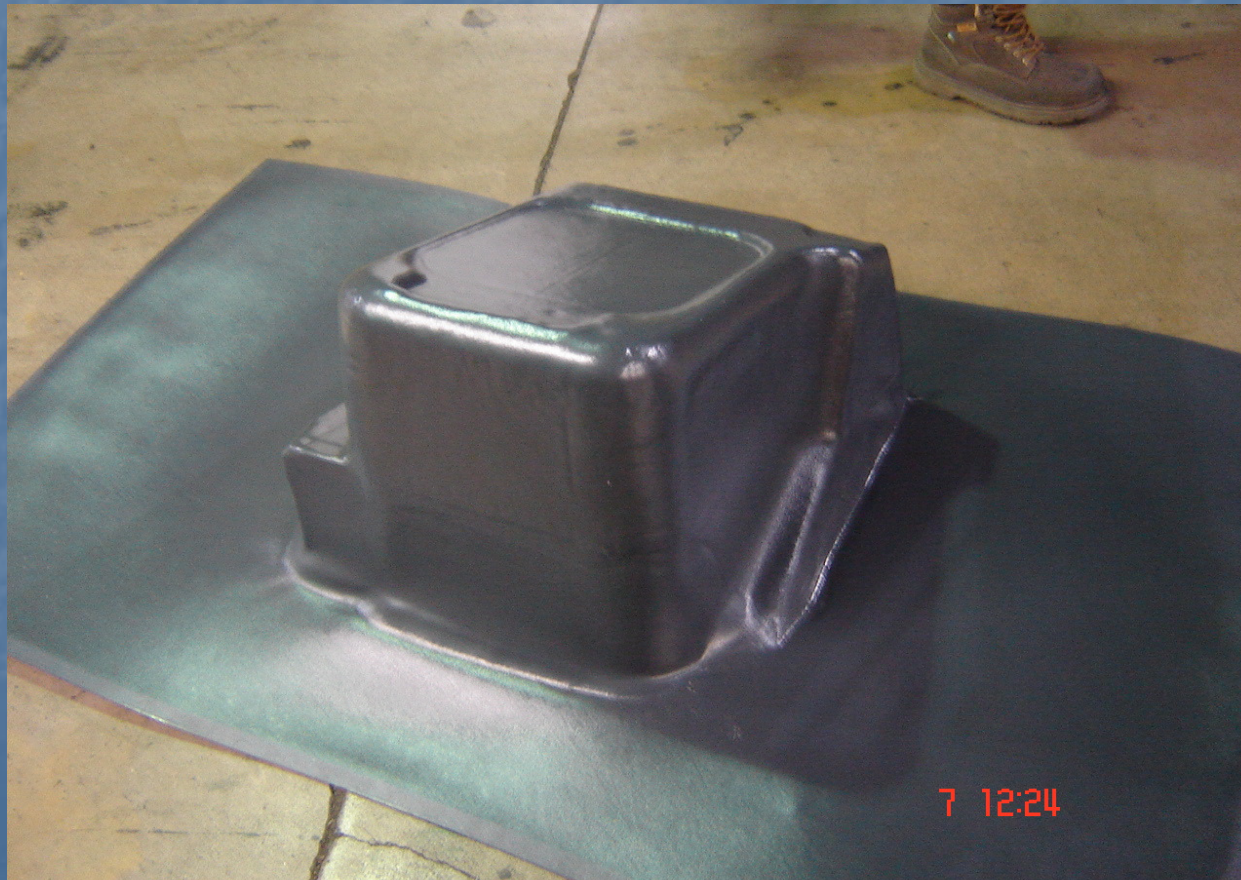
Composite vacuum & laminator mould





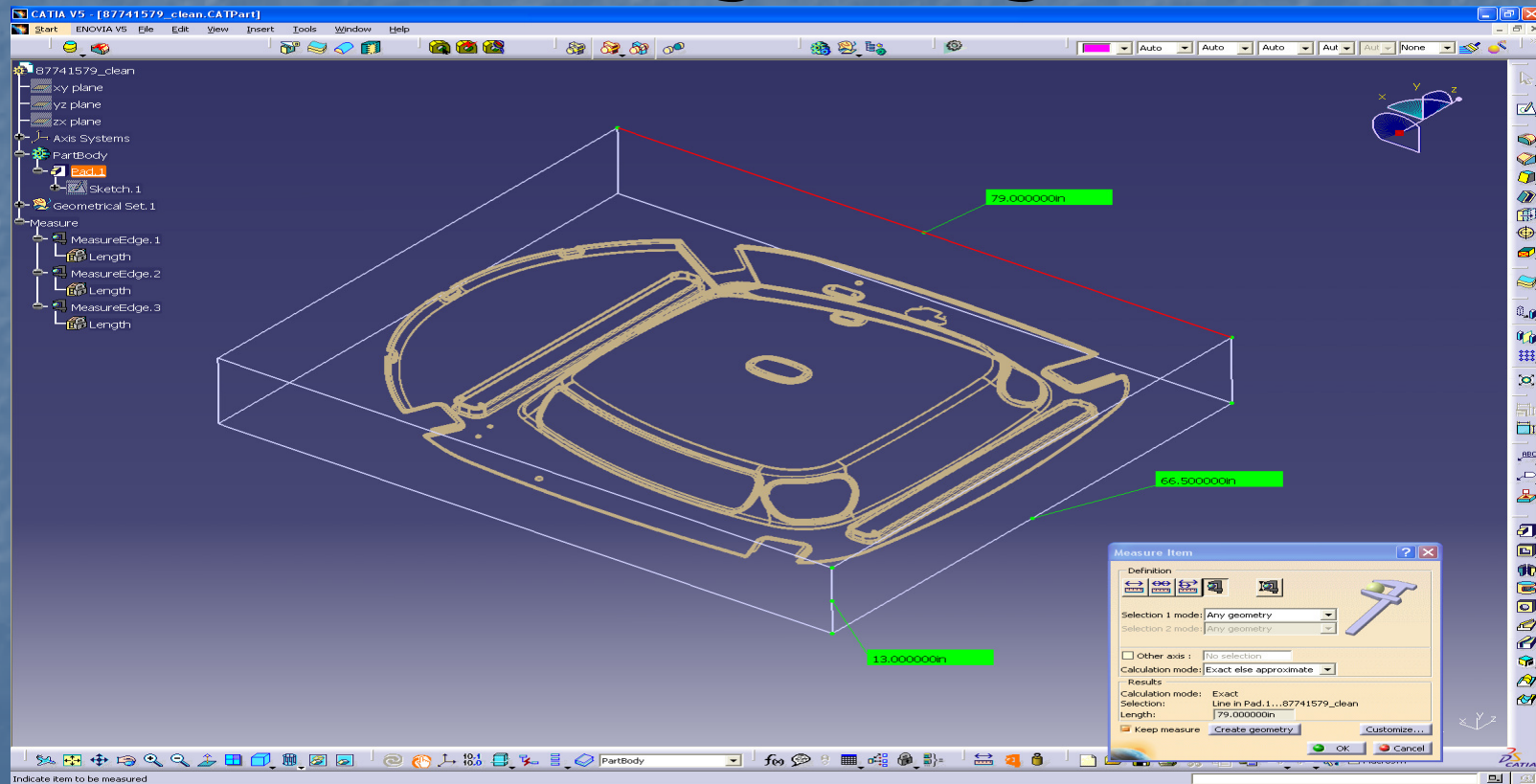
Composite Tooling

ABS Vacuum mould





Design Stage





Composite Compression Mould

- * Tool size 79" X 70" X 17"
- * Mould locators to Locate XYZ
- * The mould was heated up to 350 C





Composite Compression mould





Hand Trimming

***The trim lines, cutouts & holes were machined on the mould to facilitate hand trimming.**

***Pinch Thicknes 6mm +/- 2 mm**

***None compressed areas 15 MM Thick**





Trimmed Headliner

*Trim line tolerance +/- 3mm





Fender Vacuum Mould & Laminator

* Tool size 65" X 57" X 21"





Laminating TPO Vinyl

*Bladder laminating



Moulded & Trimmed Part

*Compression moulded part.

*Pinch Thickness 3mm +/- 2mm

* Moulded temperature 350 F





Finished Parts





Composite Vacuum Mould

* Tool size 65" X 57" X 8"

* Vacuum Mould for a Headliner.

* Built with cooling lines.

* Clamping ledge on two sides.





Composite vacuum & laminator mould



***Parts size 46" x15"X 8" (H) & 8" X 8" x 4" (H)**

***Infusions model parts.**

*** Part Thickness 1/8"**



Full size functional part models



*** Tool size 60" X 55" X 8"**

***Tooling Retro engineering**

***Vacuum Mould with cooling lines**





Composite vacuum & laminator mould



Rapid Prototype Tooling



Rapid Prototype Tooling



Production line Feed

