



METALCRAFTERS TRANSPARENCIES AND COMPOSITES, INC.

www.MTCCORP.COM

MACHINING • TRANSPARENCIES • COMPOSITES • INTEGRATION
ITAR • AS 9100D • ISO 9001



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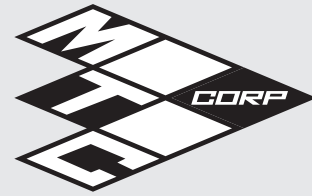


NASA / LOCKHEED MARTIN X-56A
RESEARCH VEHICLE

MTCcorp has the Engineering and Manufacturing expertise to deliver large and complex programs as well as small component projects

Our company continues to invest in our people, processes, and equipment. We are a vertically integrated 'one-stop shop', so we can provide shorter lead-times, competitive pricing and deliver high quality products to all our customers on-time.

CAPABILITIES



MTCcorp leverages its world-class DNA, manufacturing know-how, and attention-to-detail in its pursuit of excellence in low-volume production of high-quality, precision components in 3 areas of core competencies:

- **CNC-Machining**

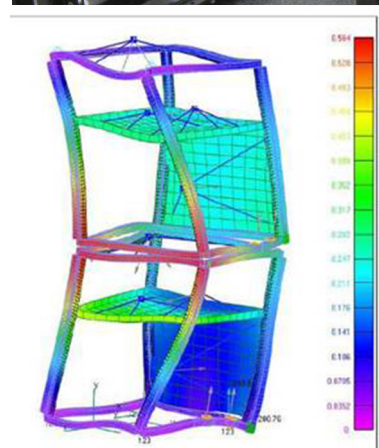
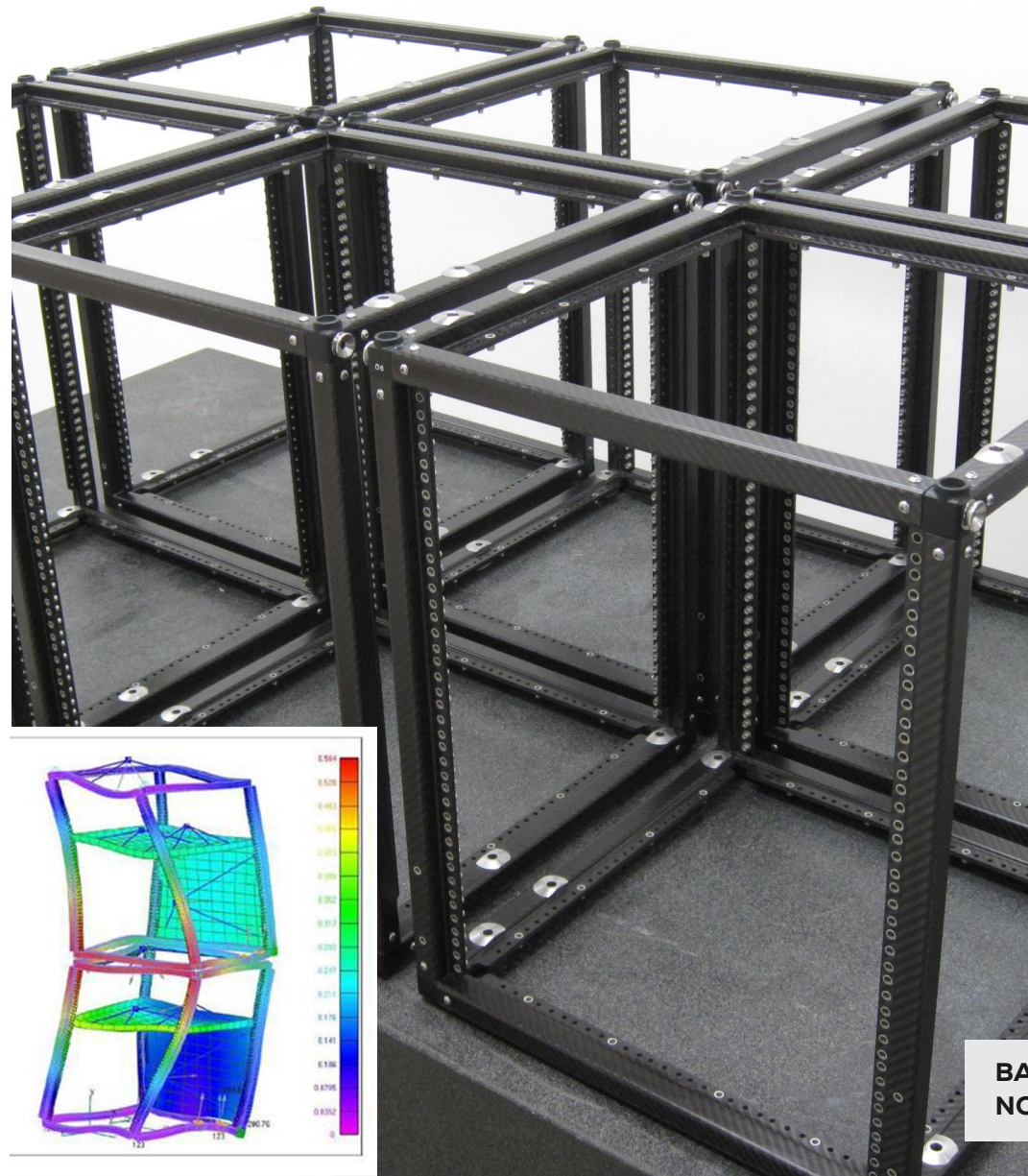
Metallic and Non-Metallic substrates. Large size and complex geometry.

- **Advanced Composites**

Carbon graphite, glass or Kevlar fibers, typically woven into fabric, impregnated with a resin matrix, and then cured to exhibit high-strength and light weight.

- **Transparencies**

Precision Formed and tempered glass windows for Aircraft and Spacecraft.



Innovative Solutions

MTCcorp has a long history of innovating and crafting unique solutions for designing, engineering, executing, testing and delivering solutions that meet or exceed OEM quality.

Mission-Critical Complex Assemblies

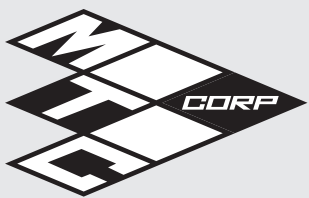
Our capabilities include low-volume specialty production, including CNC-machined parts, weldment parts, resin-transfer molded composite parts, full paint, program management, outside vendor management, final assembly, first article and non-destructive testing and document control including a deliverable compilation of all mill certs, part travelers, test reports and certificates of conformance.

Many Modalities, A Singular Focus

Whether we are designing tooling, executing a Proof-of-Concept build, or developing autonomous vehicles for air, land or sea, we approach every project with passion and are driven to achieve excellence.

**BATTLEFIELD AIRBORNE COMMUNICATION
NODE (BACN) EQUIPMENT RACKS**

EQUIPMENT



TEMPERATURE CONTROLLED ENCLOSURES



With over 120,000 square feet of production and facility space, MTCcorp has cutting-edge production, fabrication and inspection capabilities that include:

- Precision CNC Machining and Inspection
- Advanced Composites Fabrication
- Metal Forming and Fabrication
- Glass Machining, Forming and Tempering



MACHINING

| Type | Make and Model | Work Envelope |
|-----------------|-------------------------------------|------------------------|
| 5-Axis CNC Mill | Zimmermann FZ37 Climate Controlled | 216" x 135" x 59" |
| 5-Axis CNC Mill | Zimmermann FZ33 Climate Controlled | 157" x 118" x 59" |
| 5-Axis CNC Mill | Zimmermann FZ33C Climate Controlled | 98" x 118" x 49" |
| 5-Axis CNC Mill | Zimmermann FZ32 Climate Controlled | 236" x 118" x 59" |
| 5-Axis Mill | CMS Ares 4818 | 188.9" x 70.8" x 47.2" |
| 3-Axis Mill | Doosan DNM 6700 | 51.2" x 26.4" x 24.1" |
| 3-Axis Mill | Doosan DNM 5700s | 41.3" x 22.4" x 20.1" |
| 3-Axis Router | Anderson Stratos / Nest | 10' x 5' |

INSPECTION

| | | |
|----------------------------|---------------------------------|----------------|
| Laser Tracker with Scanner | Leica Absolute Tracker AT960-MR | 40m 3D |
| Laser Tracker | Leica Absolute Tracker AT901-MR | 250 Ft. Radius |

COMPOSITES FABRICATION

| | | |
|-----------------------------|--------------------|-----------------------|
| Autoclave | | 10 ft. dia x 20 ft. L |
| Binks Curing Oven | | 8' x 10' x 8' |
| Composites Lamination Rooms | Climate Controlled | 20' x 50' 13' x 34' |
| CNC Cutting Table | Eastman S135 | 72" x 16' |

TRANSPARENCIES PRODUCTION

| | | |
|-------------------------------|----------------------------------|------------------|
| Bend and Temper Furnace | Ianua BTF/1 | 35" x 59" x 8" |
| Bending Furnace | Glass Robots MB-FBA 180/290/80-2 | 72" x 116" x 24" |
| 3-4 Axis CNC Machining Center | CMS - Brembana Speed MB 24 | 149" x 68" x 16" |
| Inspection Room | Climate Controlled | 25' x 12' |

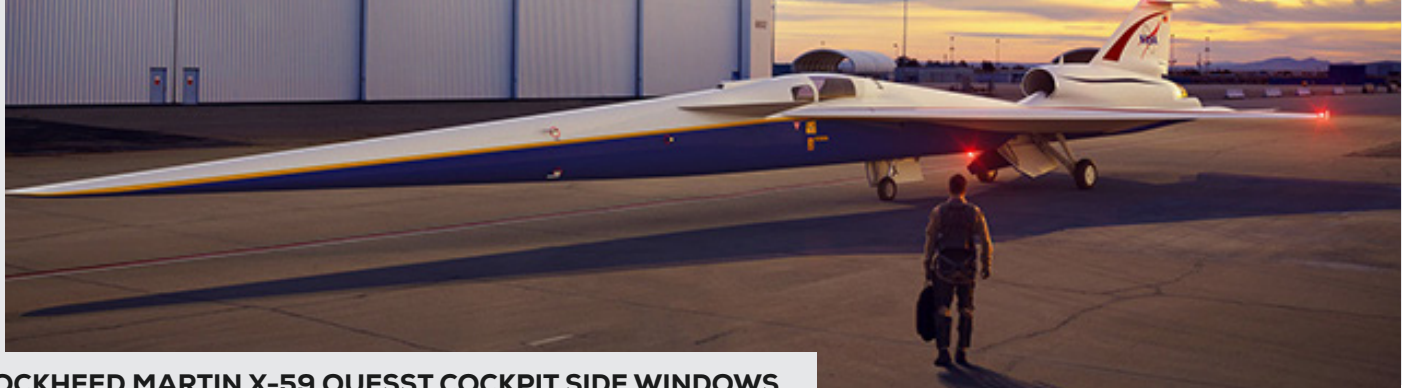
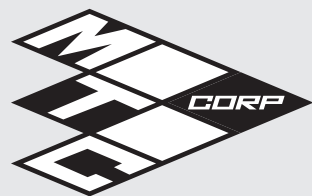
METAL CUTTING

| | | |
|-------------|------------------------|-----------------|
| Water Jet | OMAX | 60" x 120" x 6" |
| Power Shear | Amada | 10' x 1" |
| Band Saws | Various Vert. & Horiz. | |

METAL FABRICATION

| | | |
|-------------------|------------------|-----------|
| Surface Plates | Various | 12' x 20' |
| Fabrication Table | Demmeler - Bluco | 5' x 10' |

PROGRAMS



LOCKHEED MARTIN X-59 QUESST COCKPIT SIDE WINDOWS

MACHINING



F-22 Stealth Fighter

Client : PPG Aerospace

MTCcorp manufactured tooling for the canopy on the F-22 Stealth Fighter system.

TRANSPARENCIES



Boeing 787 Dreamliner

Client : PPG Aerospace

MTCcorp manufactures the Face ply glass for B-787 cockpit windows. Hundreds of parts are shipped yearly.

COMPOSITES



Embraer Phenom 300

Client : Embraer

MTCcorp provided engineering, development, tool design and manufacture for carbon fiber seat components. MTCcorp also manufactures the carbon fiber parts. Thousands of parts are shipped yearly.

INTEGRATION

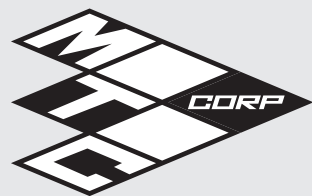


NASA X56A

Client : Lockheed Martin

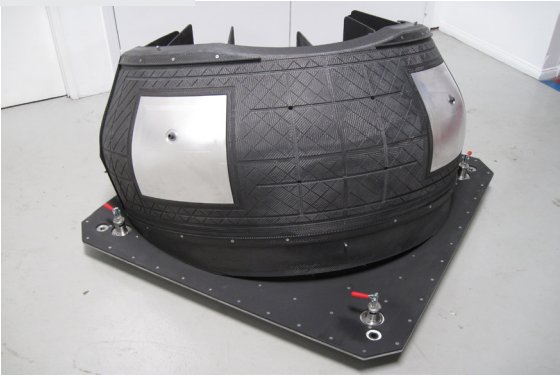
MTCcorp was commissioned by Lockheed Martin to build two complete X-56a Experimental Aircraft for NASA.

PROGRAMS



SIKORSKY VH-92 'MARINE ONE' COMPOSITE COCKPIT SIDE WINDOW FRAMES

MACHINING

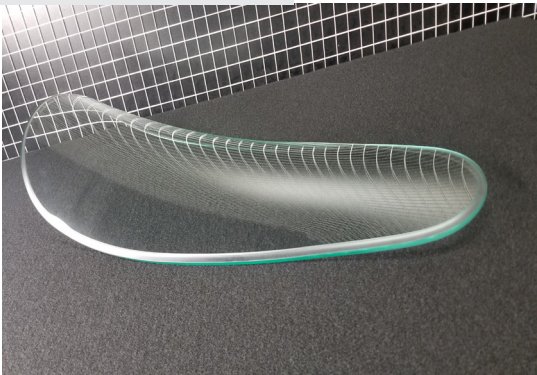


High Precision Large Format 5-Axis Machined Parts

Client : Commercial Aviation

MTCcorp is the provider of precision machining of large structural flight parts and tooling for commercial and military aerospace programs.

TRANSPARENCIES

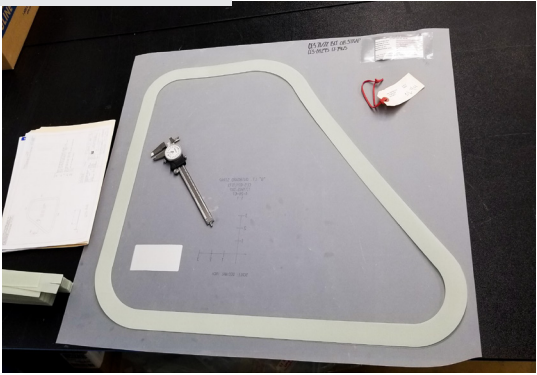


Landing Light Lens

Client : Embraer

MTCcorp manufactures Landing Light Lenses for Embraer 170 & 190 Aircraft. Hundreds of parts shipped yearly.

COMPOSITES



PPG Straps

Client : PPG

MTCcorp provides autoclave-cured prepreg fiberglass straps that are part of a laminated aircraft window assembly used to attach and insulate the transparency from its outerframe. 150 + p/n's, thousands of parts shipped yearly.

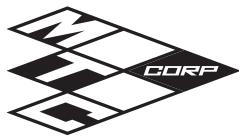
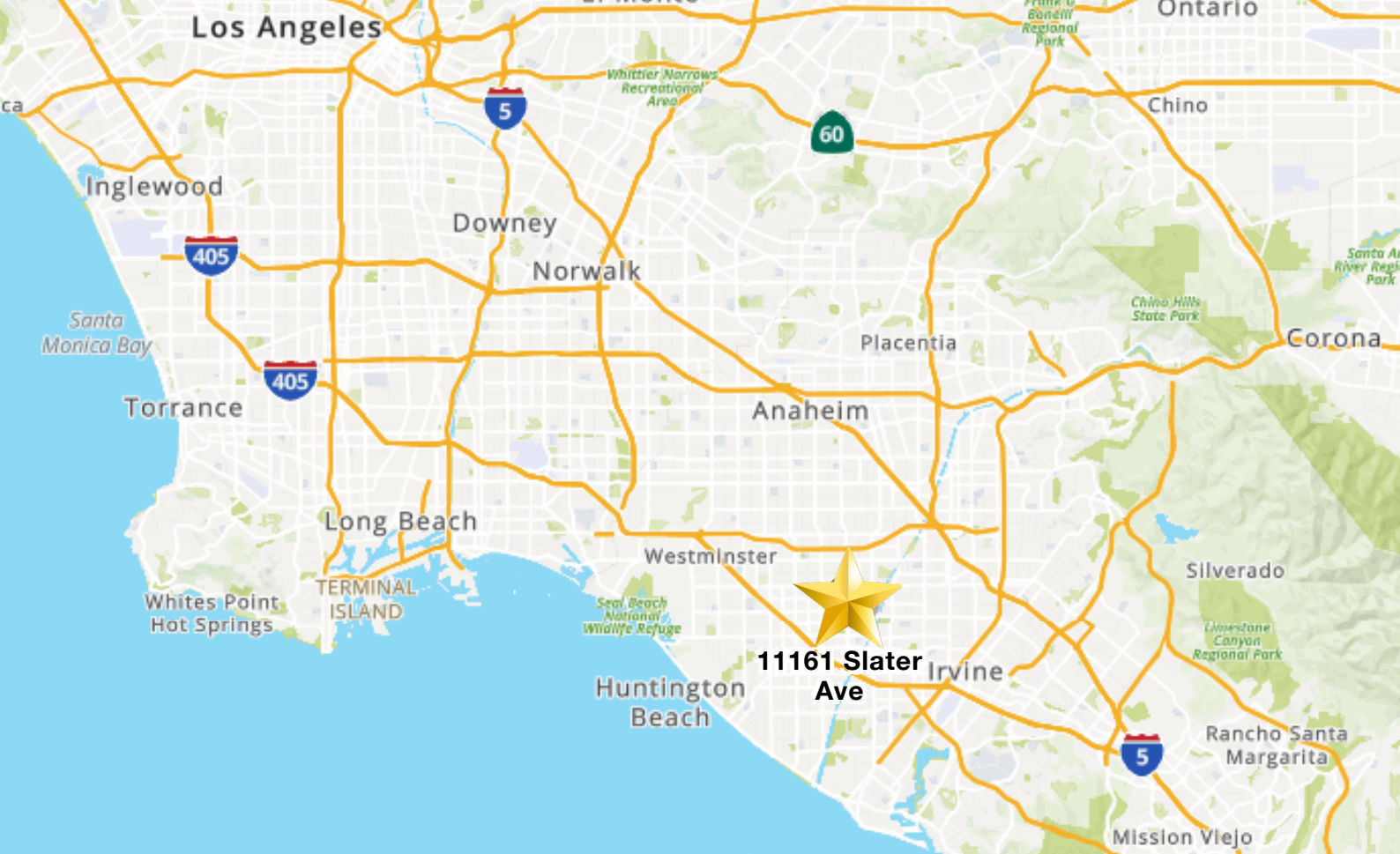
INTEGRATION



BACN Equipment Racks

Client : Northrop Grumman

MTCcorp was engaged to conceptualize and engineer mission critical equipment racks for the Battlefield Airborne Communication Node (BACN) Network. Hundreds of parts shipped to date.



CONTACT

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CERTIFICATIONS

- AS9100 Rev D
- ISO 9001
- Cage Code: 8CMA8
- ITAR Registrant Code: M48060

NAICS CODES

- Aerospace 336413
- Composites 335991
- Machining 332710
- Glass 327215