

Serving the Aerospace & Transportation Industries

Texstars is a fully integrated lean fabricator utilizing advanced composite thermoset and engineering-grade thermoplastic materials. We are also a world leader in state-of-the-art lamination and coating of aircraft transparencies. Established in 1946, Texstars has built its reputation with on-time, high quality product to support industries built on ever-advancing technology through the application of lean principles. Tooling design and fabrication blended with our multiple manufacturing processes and value-added assembly set Texstars apart as the ultimate aerospace one-stop-shop.

Texstars...transportation solutions in every mode.

Transparencies & Coatings

- Transparencies
- Canopies
- Transparent Armor
- Photo-Chromic Coatings
- Active Coatings
- Observable Coatings
- Wing Tip Lenses
- Cabin Windows
- Windshields
- Observation Windows
- De-Ice/De-Fog Coatings
- Laminated Glass
- Glazings
- Abrasion-Resistant Coatings
- Thin-Film Active Coatings
- Organic Coatings
- Transparent Metallic Low-Observable Coatings
- Laminated Glass Bullet-Resistant Glass

Manufacturing Processes

Composites Fabrication

- Vacuum-Assisted Resin Transfer Molding (VARTM)
- Prepreg Lay-Ups
- Vacuum Bag Molding
- Closed-Mold Resin Infusion
- Vacuum Infusion Process
- Sandwich Construction

Thermoplastics

- High-Temp Thermoforming
- Injection Molding
- Blow Molding
- Stretched Acrylic Sheet

General Fabrication

- Autoclave & Thermal Processing
- 5-Axis CNC Routing & Drilling
- Waterjet Cutting
- Painting, Bonding, Riveting
- Assembly & Kitting

Coatings

- Vacuum Deposition
- Sputtering
- Flow Coating
- Evaporation Coating
- Spin, Spray & Dip Coating

Tooling & Development

- Tool Design & Fabrication
- Prototyping
- R & D Testing & Support

Aerospace Products

Composites

- Interior Liners
- Radomes
- Fairings
- Housings
- Sandwich Panels
- Air Ducting
- Composite Opaque Armor
- Seat Components
- Exterior Skins
- Covers
- Cowlings
- Trim Panels

Thermoplastics

- Interior Panels
- Air Ducting
- Housings
- Stretched Acrylic
- Sabots
- Rocket Pod Covers
- Containers
- Missile Components
- Engine Covers
- Optical Lamination
- Seat Components
- Wing Slats
- Ordnance Components
- Air Diffusers
- Inlet Covers
- Classified Parts
- Covers

Facilities & Major Equipment

Plant I / Cage Code 4Q6T0

187,000 square feet utilized for composite and thermoplastic fabrication. Manufacturing located at: 925 Avenue H, Arlington Texas 76011

Plant II / Cage Code 12849

98,000 square feet dedicated to transparent and optical product. Manufacturing located at: 802 Avenue J East, Grand Prairie, Texas 75053-4036

Complete Tooling Department

- Design/build metallic or composite tooling
- Digital file translation and multiple software format capabilities
- Modification, repair and maintenance of injection molds, VARTM molds, lay-up molds, blow molds, thermoform dies and vacuum holding fixtures



Optical Transparencies Equipment / Infrastructure

- 300,000 Total Square Feet of Facilities
- Five (5) Autoclaves Up to 20' x 8'
- CATIA V5 / Inventor 2010 / Mechanical Desktop / ACAD / Surfcam / Vistagy / Fibersim
- 6,700 SF of temp/humidity-controlled clean rooms for optical sheet lam/flow coat
- Optical coating equip with power washers, booths, coating tanks/ curing ovens
- Stretched Acrylic Equipment / MIL-PRF-25690
- Six (6) Vacuum Deposition Chambers with robotic sputtering/ evaporation capabilities
- Forty (40) Thermal Ovens for Curing / Annealing / Drying

Composite / Thermoplastic Fabrication Equipment

- 6,000 SF of (CCA)/Environ-Controlled Temp/Humidity Lay-Up Room
- Eastman M-9000 Ply Cutter
- Virtek dual head green laser projection system
- Media Blast Room for Tool Cleaning
- 820 SF of Environ-Controlled for Composite Ply Cutting and Kitting / Core Cutting
- 600 SF Walk-In Cold Storage Freezer + 120 SF Walk-In Cold Storage Freezer
- Three (3) VARTM Carlift Stations + RTM/VARTM Test Fixture, 21" x 21"
- Three (3) MotionMaster 5-Axis CNC Route/Drill Machines
- Two (2) Flow Systems Waterjet Cutters
- Three (3) Thermoform Machines up to 64" x 124" + Support Equipment
- Eight (8) Injection Molding Machines + Support Equipment
- Blow Molding Machine + Support Equipment
- Five (5) Paint Booth + Support Equipment

Quality Control Equipment

- CMM: Size 40"x 26"x 20" with Accuracy Certified to .0005"
- Two (2) FARO Silver Series CMM Arms
- Laser Tracker: FARO Laser Tracker X / 230 foot range / up to .001" accuracy
- Various Optical Measuring Systems and Devices
- Various Mechanical Presses Complete



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