



QUATRO OPERATION'S FACILITIES LIST

Manufacturing Services

Autoclave, Ultraclave™ Compression Molding and Bladder Molding, Out-of-autoclave.

Engineering Services

Proven and experienced on-staff engineers work with the customer from concept to prototype to production. Capabilities include extensive solid modeling capabilities for tooling, patterns and laminate design. Quatro Operations uses SolidWorks design software, Hyperworks, CAMworks and can accept models in CATIA, IGES, ProE and others. Quatro Operations also offers Design Optimization Topology and Finite Element Analysis (FEA) otherwise know as Quatro Operation's OptiPart™ process.

Prepreg Storage

Three on-site walk-in, 0°F freezers, totalling 39,436 cu. ft. of storage space.

Certified Clean Room

65' x 50', CLASS 400,000, temperature controlled from 67° to 77°F, humidity range from 30 percent to 60 percent relative humidity. The room is rated with positive pressure with respect to adjoining rooms.

Sheeting

Rosenthal sheeters are used to efficiently sheet the prepreg material.

Prepreg Cutting

Five CNC cutting tables that have the capacity to accurately cut various stacks of material at very high speeds. Patterns are generated directly from the CAD model. The machines have the capacity to accurately cut various stacks of material at very high speeds.

Autoclave Curing

Quatro Operations has four certified autoclaves with state-of-the-art computer control over all process variables including heat up rate, dwell time, variable pressurization, controlled cooling and operational limits: 450°F and 150 psi.

Press Molding

Quatro Operations has 16 hydraulic presses with heated platens for Ultraclave™ Compression Molding and Bladder Molding.

Curing Ovens

Quatro Operations has various sized ovens for curing parts, adhesives, etc.

Machining

Two large bed mills, waterjet cutting, 10 CNC mills for in-house tooling and fixturing.

Pattern Making

In-house facilities for comprehensive pattern making.

Paint Booth

Col-Met semi-downdraft paint booth that includes a heat and cure cycle to meet your finish requirements in a fast, reliable manner while maintaining our high quality standards.

Finishing

CNC trimming, hand assembly and finishing, and a variety of paint and finish options.

Quality Assurance & Testing Services

Full range of inspection and testing devices compliant to ISO 9001:2008, AS9100:2009, NADCAP standards.

- CMM: One Romer arm. Two Faro arms. One Global Advantage 7-10-7 automated arm. Maximum: 8' diameter reach with very high accuracy.
- Instron tensile and compression molding testing equipment.
- Load testing equipment, thickness testing, standard gauging and X-ray inspection.
- Autoscan 2011XY Automated C-scan scanning system.
- GEIT USN60 Ultrasonic Flaw Detector (A-scan).

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