

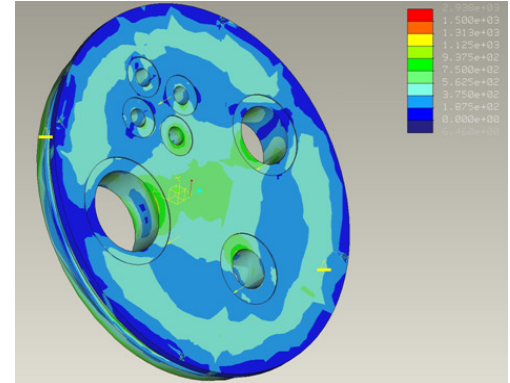
Engineering, Design, & Test Capabilities

Design Software and Engineering Tools

SolidWorks®, CAD, MasterCAM®, CAM®, LabVIEW®

Design Analysis

Cosmos® FEA, Linear & Non-Linear with professional simulation, Internal 6-DOF Analysis.



Material Testing

Elastomeric test for rheometer, tensile, elongation, compression set, heat aging ovens, shrinkage, durometer, etc.

Field Data Acquisition

Multichannel portable systems with LabVIEW® Sound & Vibration software including acceleration and acoustics.



Static & Dynamic Fatigue Testing

20,000 Pound Hydraulic Fatigue and Static & Dynamic Instron® Measuring Equipment

Programmable WaveMatrix® Software

Partner with outside engineering and environmental testing laboratories including NTS, MMR, and ARDL.

Custom Formulations

Use industry leading partners to customize formulations to meet unique customer specifications for fluoroelastomers, silicones, etc.

Compound Mixing

Use master batch formulated materials then final mix and blend with curative, pigment, and additives prior to molding.



Engineering, Design, & Test Capabilities

Adhesives

Insert molding to metal/aluminum/plastic using bonding adhesives with an extensive selection of elastomer types including urethane, black rubber, silicone, fluorosilicone, and liquid silicone rubber.

Standards & Specifications

ISO 10993	FDA	MIL-R-6855
CFR 177.2600	NSF	TS/QS/PPAP
ASTM D2000	AS9000	USP CLASS VI



Unique Flexible Prototype Tooling

Alternative for small parts (<6" DIA X 4" height) reduces tooling time and cost.



In-House Tool Design

Integrated tool and part manufacturing from CAD files.

Integrated CAD/CAM

Connectivity allows production of tool and components from same design files.

CNC Milling, Turning, and Grinding

Sizes up to 24". Suitable for prototype and production tooling.

Flexible Manufacturing

Prototype and production planning and control to promote both small & large scale manufacturing.