Design Software and Engineering Tools
SolidWorks®, CAD, MasterCAM®, CAM®, LabVIEW®

Design Analysis
Nastran FEA, Linear & Non-Linear with professional simulation.

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

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.

Rapid Prototyping
Two dimensional parts in less than 24 hours and 3 dimensional parts in a fraction of the time of a standard production tool.