

# OUR CAPABILITIES

## Dedication to Broad Production Capabilities versus High Volume Capacity

Stockwell Elastomerics has chosen to develop broad production capabilities to enable in-house, fast turn manufacturing of prototypes and low volume production runs to serve the needs of our customers in the Technology Equipment Sector. Our broad range of capabilities enables multiple approaches in solving design challenges and supporting initial production requirements. Stockwell Elastomerics has focused its capabilities to sustain specialty production rather than production of high volume commodity components.

## Our on-site production capabilities include:

### Water Jet Cutting to Support Prototyping and Production

Our Water Jet capabilities support prototype sampling, initial production and production requirements. These systems cut without abrasive additives, therefore our pure water system does not contaminate the edges of the gasket materials. Foam and sponge rubber from 0.032" to 2.00" thick and solid rubber up to 1.00" thick can be water jet cut.

### Die Cutting of Gaskets and Cushioning Pads

Often the gaskets we provide as water jet cut samples are subsequently tooled up for die cutting production runs. Die cutting

is often less costly than water jet cutting. The same electronic drawing file used to program the water jet cutters can be used to produce a steel rule cutting die. Stockwell Elastomerics provides gaskets and cushioning pads that are die cut or kiss cut on the adhesive release liner.

### Adhesive Lamination onto Silicone Rubber, Poron® cellular urethane and other solid and sponge rubber materials

Stockwell Elastomerics has developed several priming systems to enable lamination of pressure sensitive adhesives onto silicone rubber and other difficult to bond to elastomers.

**Liquid Injection Molding.** LIM molding enables production of silicone rubber components from 10 durometer Shore A (very soft) to 70 durometer Shore A (firm). The fast cure cycles of LSR (liquid silicone rubber) enable the use of single or two cavity molds to support production. Stockwell Elastomerics utilizes cryogenic de-flashing to remove parting line flash to further improve sealing integrity and lead times.

**Compression Molding** is centered around molding gaskets from specialty silicones, fluorosilicones, fluoropolymers and electrically conductive compounds in support of technical applications in the medical equipment, instrumentation and aerospace industries.

### Custom Fabrication

Stockwell Elastomerics has a long history of developing timely solutions on design projects that require the functionality of dissimilar materials in bonded cushioning pads or special gaskets.

**We welcome customer visits to demonstrate our capabilities and discuss how we can help with your projects.**

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