Tronics, a TDK Group Company, is the independent custom MEMS manufacturer with US and European manufacturing facilities, allowing us to provide a majority of customers with truly local engineering and manufacturing support.

- 6 inches wafer manufacturing line, test and characterization
- 25,000 sq ft building with upgraded facilities infrastructure
- 15,000+ sq ft of class 100 MEMS cleanroom area and support space
- Capacity of up to 60,000 wafers per year
- 24/7 operation
- Automated with IT Manufacturing Execution System
- ISO13485: Nov. 2016 certified facility

Point-of-care diagnostic chips
- Blood chemistry
- Virus detection
- DNA analysis
- Genetic testing

Functionalized microneedle arrays
- Painless testing
- Exact test results
- Easier application
- Rapid testing (minutes vs. hours or days)
Beads-on-chip technology
• Analysis of multiple biomarkers in low-volume
• Biological samples
• Substrates for bead arrays: Silicon ultra-precise well geometry
• Low background fluorescence coatings

Coagulometer
• Dual level, through wafer KOH etch
• Anodic bond (Si-Borofloat)
• Shadow mask aluminum

Continuous glucose monitor (CGM) needles
• Biocompatible materials
• Multilayer metal electrodes on polyimide
• Through plated PEEK/ LCP laminates

Glucose sensor chip
• Disposable transdermal patch
• Array of functionalized microneedles

Diagnostic Chip Technology Portfolio