

## CASE STUDY

# Accelerating CGM Market Launch with Integrated Manufacturing Solutions



## The Challenge

The global rise in diabetes management has made Continuous Glucose Monitoring (CGM) devices indispensable. For brands in this space, the core challenge is manufacturing a device that must be flawlessly reliable, durable, and clinically accurate.

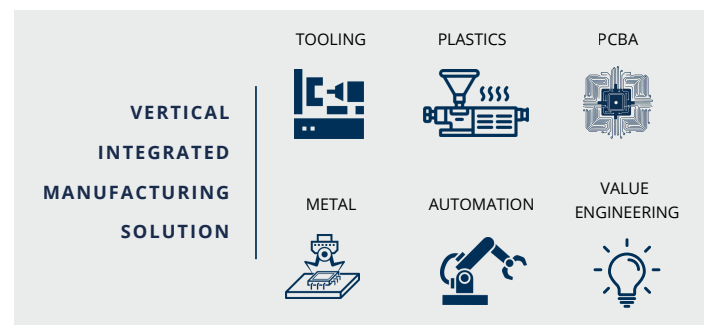
The device is worn continuously, demanding resistance to sweat, impact, and daily activity while housing sensitive electronics and biosensors. Any failure in accuracy or adhesion erodes user trust and brand reputation.

The challenge lies not just in design, but in scaling high-volume production with zero defects, ensuring consistent performance of both sensors and applicators.

Meeting growing demand through high-speed automated manufacturing while maintaining stringent quality standards presents significant challenges.

## Beyonics Solution

Beyonics partnered with leading MedTech innovators to address these exact challenges, delivering a fully integrated manufacturing solution that bridges the gap from concept to commercial launch. We operate not just as a supplier, but as a single, accountable partner dedicated to your device's success.



## Our Core Capabilities



### Precision Tooling

In precision tooling, in-house expertise combined with technological innovation drives real results. Our team designed high-cavitation molds with shorter cycle times to produce precision components with flawless geometry and optimal performance.



### Cleanroom Molding

We engineered specialized processes and tooling to protect and embed sensitive biosensors and microelectronics, ensuring signal integrity and long-term reliability.



### High-Speed Automated Assembly

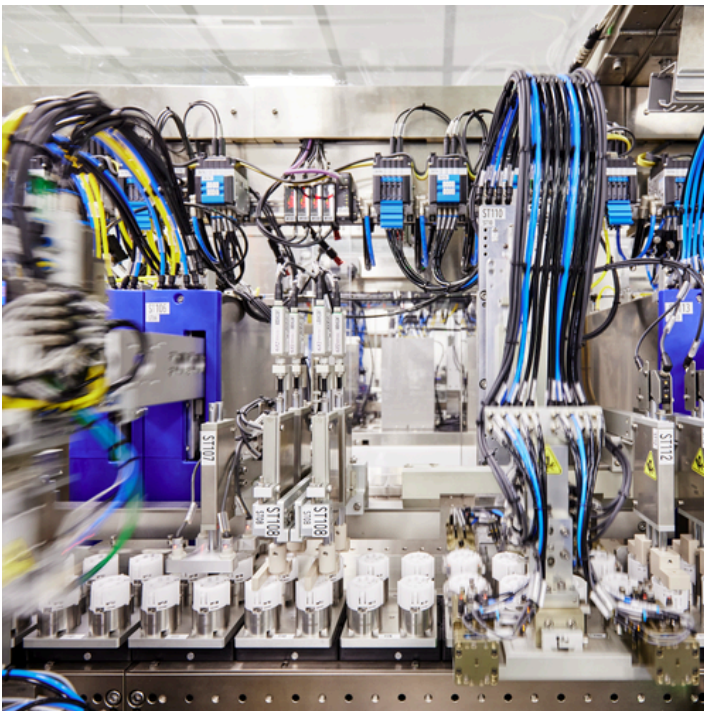
To meet market demand for high volume and consistency, we designed and built fully automated assembly lines within our cleanroom. Minimized human contact, reduced contamination risk, and ensured repeatable, high-quality output.






### Rigorous Testing & Validation

We executed comprehensive testing and process validation for every manufacturing process, supported by detailed GMP documentation driven by a computerized quality management system that complies with all regulatory standards.

## Product Accomplishments & Outcomes



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**Accelerated Time-to-Market:** End-to-end manufacturing integration, from precision tooling to sterile packaging, enables seamless transition from design to commercial supply.
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**Enhanced Device Performance & Reliability:** Proprietary high-precision molding and automated assembly processes produce durable, waterproof devices with consistent sensor accuracy.
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**De-risked Regulatory Approval:** Fully validated manufacturing processes and comprehensive GMP documentation provide regulators with confidence for faster clearance.
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**Scalable, High-Volume Production:** High-speed automation within ISO Class 8 cleanrooms delivers consistent quality at the scale required for global market leadership.

Beyonics is a global advanced precision engineering and manufacturing solutions provider. We design, build, and deliver products and applications for customers in the MedTech, Mobility, and SmartTech sectors.

