



► Benchmark

Intelligent Sensors

Overview

Benchmark combines expertise from both engineering and advanced manufacturing to provide state-of-the-art sensor technology solutions.

Intelligent sensors require custom designs (including substrates), fixtures, prototyping and manufacturing test operations to ensure high-quality, repeatable manufacturing. Benchmark's highly developed systems are built to serve this complex market.

Key Sensor Technology

Our design engineering team incorporate the latest sensor technologies allowing us to provide our customers a more complete solution.

- Advanced Light Detection and Ranging (**LiDAR**) systems for collision avoidance
- Global Positioning System (**GPS**) to determine location
- High-performance **Radar** (up to 79GHz) for long-range, short-range guidance
- Ultra-wideband (**UWB**) for GPS-denied areas

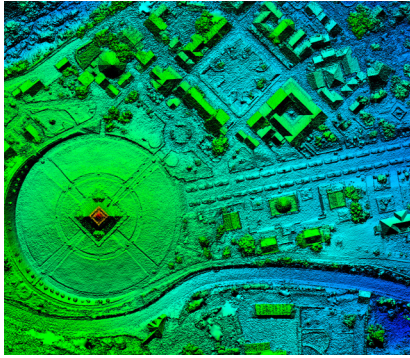
Engineering Design

- DFX
- Electro-Mechanical
- High-Speed Circuits
- Miniaturization
- Optical Design

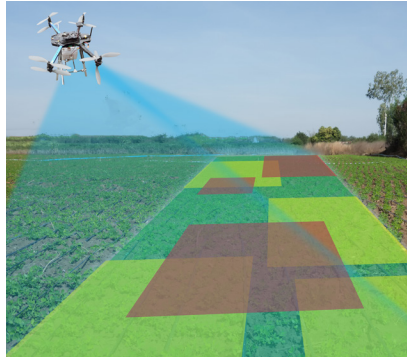
Manufacturing Processes

- Advanced Substrates
- Cleanroom
- Die Attach/Stacking
- Optical Alignment to 1 Micron
- Automation Cell Development
- Unique SMT
- Wire-Bonding

Applications



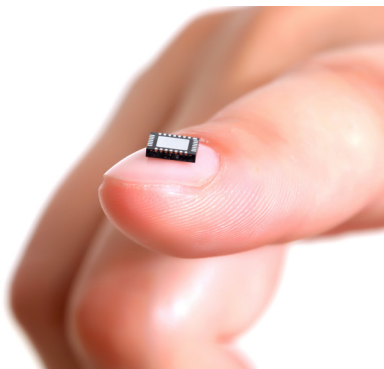
3D Mapping



Agriculture



Energy & Fuel Performance



Nanotechnology



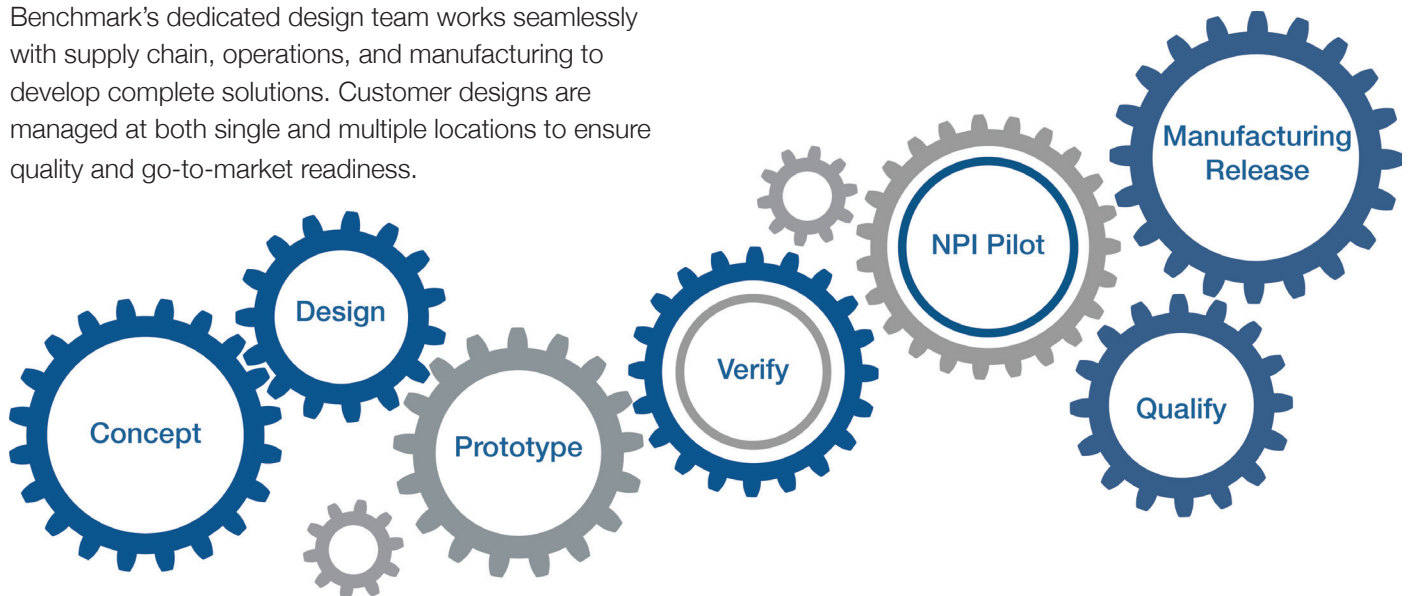
Self-Driving Vehicles



Traffic Monitoring

Full System Solutions

Benchmark's dedicated design team works seamlessly with supply chain, operations, and manufacturing to develop complete solutions. Customer designs are managed at both single and multiple locations to ensure quality and go-to-market readiness.



For more information, contact us at sensors@bench.com.

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