

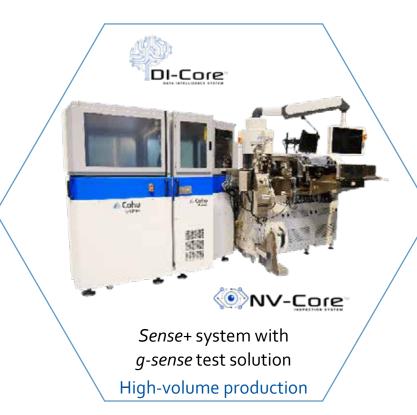
# A unique solution for testing MEMS Inertial Sensors

### All-in-one system for testing, calibration, final inspection and packaging

- Architecture isolates the test of MEMS from outside noise and vibration, significantly increasing test accuracy and output
- No special requirements on the production floor for either the handling system or the tester
- Up to 3,060 signal lines (shielded)
- High parallel testing of up to 250 devices simultaneously
- ullet Sense+ $^{\text{TM}}$  system features all the capabilities of a turret automation platform
- g-sense<sup>™</sup> test solution is independent of the Sense+<sup>™</sup> system with maximum freedom of movement
- NV-Core<sup>™</sup> Inspection System provides full final inspection and unit-level traceability from wafer input to tape & reel output
- DI-Core<sup>™</sup> Data Intelligence System providing real-time equipment monitoring and data analytics for increased productivity

### Sense+ with g-sense MEMS inertial test solution







#### Significant improvement in test accuracy and parallelism

- Sense+ system can operate on a standard noisy test floor with no need to stop handling for idle or silent mode during test
- Two dynamic axis with 270° (-90° to 180°) for best possible test flow
- Accuracy
  - Stable angular velocity: Yaw rate +/- 0.005%
  - High position accuracy: Axes < +/- o.1° (typical o.o5°)
  - Noise level on DUT position: <10 Hz: typical 270 μg rms
- 32-position turret test and scan complete finishing solution with full 6-sided optical inspection
- Solutions for different packages across different loading media, wafer, bowl, and tray testing
- Flexibility to reconfigure the Sense+ automation platform to test different sensors; inertial, microphone, microphone-loudspeaker<sup>(1)</sup>, pressure<sup>(1)</sup>, and magnet<sup>(1)</sup>
- g-sense test solution can be mechanically de-coupled from the Sense+ system for use as a standalone unit for engineering in a lab environment or low-volume manufacturing

#### **NV-Core**<sup>™</sup>

#### **∠**Cohu

#### **Inspection System**

- Full 6-sided post testing die inspection
- Micro-scale defect detection down to 50 μm
- Vision assisted accurate die placement
- Completed unit-level traceability from wafer input to tape & reel output
- Pre-tape pocket integrity, in-tape device quality, and post-sealing quality inspection capabilities



## **DI-Core**<sup>™</sup> Data Intelligence System

- Real-time equipment monitoring and management
- Preventative maintenance
- Central recipe management
- Optimized yield and defect detection through real-time Artificial Intelligence inspection
- Knowledge database and unified reports



All specifications are subject to change without notification and are for reference only. For detailed performance specifications, please contact Cohu.