

NorCom 2020

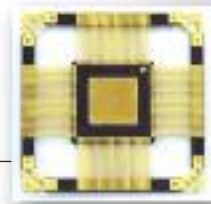
Fine & gross leak automated test system for in-line inspection of hermetic devices

Advanced leak testing made easy

In one fast, automated process, you can accurately test multiple hermetically sealed devices for both fine and gross leaks. The NorCom 2020 provides automatic in-line leak detection, measuring and reporting pass/fail results with leak rates listed for all failed devices. You no longer need multiple test methods for fine and gross leak inspection, and you don't have to deal with messy red dyes or expensive fluorocarbons. The NorCom 2020 is essential for ensuring the hermeticity of electronic, medical, and many other critical application components.



- **Reliable, repeatable results** – The patented laser interferometer simultaneously inspects devices for both fine and gross leaks. The devices can be left on the seam seal pallet, or tested in a device tray.
- **High throughput** – Depending on device geometry, the system can inspect up to 1000 devices per cycle, testing up to 10,000 devices per hour.
- **Improves efficiency** – Small system footprint saves space. One-step calibration and set-up saves time. Minimal training is required.
- **Meets industry standards** – Quantitative leak test results are reported in cc-atm/second, the industry standard. The NorCom 2020 system complies with the requirements of both MIL-STD 883 and MIL-STD 750.
- **Clean and safe** – Eliminates the need for helium mass spectroscopy and gross leak bubble testing, and frees your process from expensive consumables, radioactive materials, and pollutants.



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High performance in a small footprint

The reliability of hermetic electronic packages depends upon accurate detection of both gross and fine leaks. With the NorCom 2020, you can achieve accuracy, repeatability and high throughput within a very small space.



Simple to operate: With one-step calibration and set-up, the NorCom 2020 requires very little operator training.

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Specifications

Inspection Specifications	2020-6	2020-12
Inspection pallet size	5.5" x 4.5" (14.0cm x 11.4cm)	12" x 6.0" (30.5cm x 15.2cm)
Max. number of device/cycle	Up to 1,000 devices per Cycle	Package size dependant
Throughput/hour	Up to 10,000 device per hour	Package size dependant
Leak Rate Measurement Unit	cc-atm/sec helium	
Dimensions/Weight System with Isolation Table	56" L x 42" W x 53" H / 425 lbs 142 cm L x 107 cm W x 135 cm H / 193 kg	
Power Requirements Input Power	Domestic Model - 115 VAC, 60Hz, 15 amps Export Model - 220-240 VAC, 50Hz, 8 amps	
Helium Consumption	0.9 cubic ft/cycle@50psi	1.4 cubic ft/cycle@50psi
Laser Safety Classification	CDRH Class 2	
Operating System	Windows 7® Professional	
MIL-STD Compliant	MIL-STD 883 TM1014 and MIL-STD 750 TM1071	

Device Types Tested

- Microelectronics
- Optoelectronics
- Semiconductors
- PC board-mounted devices
- Wafer-level devices

Applications

- Military
- Aerospace
- Telecommunications

The NorCom 2020 System includes:

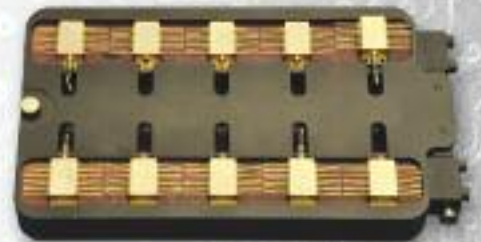
Complete inspection station with control computer and vibration isolation table, ink jet printer, and 24" flat screen monitor with articulating arm.

Options:

- Bar code reader with part traceability software options
- Larger chamber sizes for testing large devices and circuit cards
- Touch screen monitor

Patents:

The NorCom 2020 is manufactured under US Patent number 5,307,139, foreign patents, other patents pending.



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