

# Cyberpax Ensures Product Quality & Safety Using Automated Aerosol Microleak Detection System

## RESULTS

- Improved operational efficiency by ensuring 100% aerosol can leak testing in real time
- Increased throughput with automated, inline high-speed leak detection that increased line operating speed from fewer than 100 cans per minute to 220 cans per minute
- Enhanced safety, ensured product quality and met regulatory requirements



## APPLICATION

Inline leak detection of filled aerosol cans.

## CUSTOMER

Cyberpax Co. Ltd. is one of the world's leading contract filling manufacturers. It was formed through a technical agreement between Toyo Aerosol Industry Co., Ltd. (the largest in Japan) and Packserv Co., Ltd. (the largest in Thailand).

## CHALLENGE

Cyberpax was using the traditional method of leak detection which involves personnel visually observing bubbles in the water bath as aerosol cans pass through the line.

As aerosol manufacturing line speeds increase, many of the world's aerosol brand owners and subcontract fillers no longer accept this traditional waterbath testing method to identify microleaks within filled aerosol cans. They deem it as an unsatisfactory test method to achieve the desired results and meet regulatory requirements.

When filling lines operate faster than 60 cans per minute, it is not feasible for personnel to identify leaking aerosols in the waterbath. Turbulence caused by the cans moving through the water makes identifying bubbles formed at a rate of one bubble every five seconds extremely difficult.

Failure to identify leaking aerosol cans during production could result in the release of flammable or explosive gases or liquids resulting in product recalls, brand reputation damage or worse—a safety incident.

*“Adoption of the Rosemount Aerosol Microleak Detection System helped us meet the stringent safety and quality demands of our clients.”*

Manop Doungjai, Project Engineering Manager

Cyberpax Co. Ltd.

## Packaging & Filling

A critical aspect of many brand owners' auditing processes is that the subcontract fillers achieve the same level of quality and safety. In fact, in many instances, the awarding of a filling contract by a brand owner carries a mandate that the filler must guarantee the implementation of a microleak detection system.

### SOLUTION

Cyberpax wanted a reliable leak detection system that not only complies with strict quality control requirements, but also ensures high quality and safe products for their customers.

With the installation of the Rosemount CT2211 Aerosol Microleak Detection System after the water bath, Cyberpax has been able to carry out a quantifiable test regime for microleaks. This method ensures that they are fully compliant with pressure and leak test requirements and regulations.

In addition, the Rosemount CT2211 has allowed Cyberpax to operate at line speeds of up to 220 cans per minute while automatically rejecting leaking cans from the conveyor belts. This enables operators to increase throughput and meet the production demands of their customers without sacrificing quality or safety.

Cyberpax has also been able to capture batch performance data which was not previously available with the traditional water bath inspection. This data helps optimize process control because it supports identifying production issues that would otherwise result in faulty or contaminated cans being released to the market.

***"The goal of every aerosol manufacturer is to safely maintain a high level of quality control throughout the production process"***

Yupa Thonguam, Operation Manager  
Cyberpax Co. Ltd.



*Using Quantum Cascade Laser (QCL) technology, the Rosemount CT2211 provides 100% can leak verification inline and in real time, ensuring product quality, safety and compliance.*

### RESOURCES

**Rosemount CT2211 Aerosol Microleak Detection System**

[Emerson.com/RosemountCT2211](https://emerson.com/RosemountCT2211)

**Learn more about continuous, laser-based packaging leak detection systems**

[Emerson.com/PackagingLeakDetection](https://emerson.com/PackagingLeakDetection)

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