



# Pyrolysis Analyzer

## Problem

In the field of microelectronics, the control of unwanted impurities form an essential part of the whole fabrication process. Very small amounts of strange materials can have surprisingly adverse effects.

## Invention

VTT has developed a novel instrument called Pyrolysis Analyzer, a measurement setup for detection, identification and quantification of both light and heavy organic compounds on silicon wafers. The former originates mainly from process environment e.g. clean room air and storage boxex. The latter compounds include e.g. the photoresists and stripper chemicals that originate from the fabrication process itself.

Patent pending.

## Solution

The Pyrolysis Analyzer helps semiconductor manufacturers to control and solve problems related to impurities. The system is modern, light and can be priced reasonably.

VTT is looking for an industrial partner to commercialise the invention.

## Additional information

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## Why partner with VTT?

### 10 reasons for technology partnering with VTT

1. Key factor in Finland's success story with a track record to prove it
2. Licensing and co-venturing opportunities
3. Portfolio of more than 1,000 patents and inventions
4. New business and product concepts based on strong IP and world class research
5. Combined experience of more than 2,000 motivated researchers in eight focused areas of technology
6. Active member in hundreds of scientific & business communities
7. Excellent track record as coordinator and partner in EU projects
8. Collaboration with TOP 50 R&D companies in Finland
9. Global R&D partnership with 50 Fortune 500 companies
10. Market driven multi-disciplinary solutions