

MEMS Corp.



Year Established	2020	Type of Business	Manufacturing
Website	koreamems.com	Main Export Countries	USA, EU, JAPAN
Domestic Customers	KOC, SNI, JNU, etc.	International Customers	Atmosense, etc.
The Person In Charge			
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Company Description

MEMS Corp. is a specialist in MEMS and semiconductor devices based in Gwangju, South Korea. We develop a broad portfolio of MEMS products, including hydrogen gas sensors, and provide foundry services. Our integrated capabilities across design, simulation, process development, and packaging enable rapid development and reliable manufacturing for global customers.

Product

MEMS ASF Mixer

Function and Usage

MEMS ASF Mixer is an active microfluidic mixer that uses surface acoustic waves to generate acoustic streaming flow inside microchannels. It rapidly homogenizes small volume liquids and suspensions under laminar flow, improving reaction kinetics and sample preparation. Typical uses include point of care diagnostics, cell lysis, DNA or PCR workflows, chemical synthesis, and on chip bioreactors.

Marketing and Selling points

Fast, controllable mixing without complex channel geometries or chemical additives. Low power actuation and compact MEMS integration support portable systems and scalable manufacturing. Enables higher assay speed, better repeatability, and reduced reagent use, creating value for medical and industrial microfluidics.



MEMS TCD Hydrogen Sensor

Function and Usage

MEMS TCD Hydrogen Sensor measures hydrogen by thermal conductivity using an on chip microheater and temperature sensors. Non contact sensing supports fast leak detection and continuous monitoring in hydrogen storage, fuel cell systems, electrolyzers, refueling stations, and industrial gas lines. Compact package suits portable detectors and embedded safety modules for OEMs.

Marketing and Selling points

MEMS TCD principle delivers stable hydrogen sensing without catalytic reactions. Integrated design enables small size, low power, and rapid response for safety critical use. Patented technology and CES 2024 Innovation Award support market credibility and OEM adoption.

