

Expanding what's possible for the world's critical industries

Honeywell Technologies has acquired Johnson Matthey's Catalyst Technologies business, bringing complementary process technologies, catalysts, purification solutions and expert services together as one trusted partner.

The strategic imperative.

Completing the portfolio. Delivering the promise.

Honeywell Technologies has completed the acquisition of Johnson Matthey’s Catalyst Technologies business (JM CT), a transformational advancement that fundamentally expands our ability to serve customers from feedstock conversion through finished fuels and chemicals. By integrating CT’s catalysts and process technologies with UOP’s established refining, petrochemical and renewable fuels portfolio, we now deliver integrated technology solutions across a broader range of process pathways. As the demand for energy grows to unprecedented levels, this portfolio expansion strengthens our offering, deepens our technical expertise, and meaningfully enhances the value we deliver.

From feedstock to final product, we can now offer an expanded portfolio of licensed technologies, intelligent automation, innovative catalysts, end-to-end purification solutions, and expert, digitally enabled services — all from a single, trusted source.

What this means for your organization

- Broader portfolio spanning process technologies, catalysts, purification, automation and expert services from one partner
- Complementary technologies across more of the value chain, simplifying interfaces and supporting delivery under one roof
- Expanded pathways across SAF, hydrogen, ammonia, methanol, chemicals and gas purification to match your requirements
- Plant Cognition™ and Process Controls deliver advanced analytics and enable more data-driven operations across your facilities

In the near term, you can expect expanded access to the combined portfolio through unified licensing and technical service channels. Looking forward, Honeywell Technologies expects to support co-development of next-generation process configurations, with the goal of improving capital efficiency and performance outcomes through end-to-end solutions that energize the world.

Key acquisition facts

Portfolio expansion

Expands catalysts and process technology portfolio across refining, chemicals, hydrogen, and sustainable fuels

Methanol technology position

A trusted provider of Methanol Synthesis Technology

Market distinction

Strengthened portfolio of integrated solutions across **Sustainable Fuels & Blue Hydrogen**

Total patents

6757 active patents across a broad range of energy verticals



By combining Johnson Matthey’s differentiated catalyst expertise with our leading process technologies and digital capabilities, we are creating a strong platform for future growth while enabling our customers to immediately unlock the benefits of a more robust set of offerings.

Ken West, President and CEO, Process Technology, Honeywell Technologies



Acquisition benefits



Expands lower-carbon energy portfolio

Broadens pathways across renewable fuels, blue hydrogen and ammonia, synthetic natural gas, carbon capture and methanol.



Leading syngas position

Strengthens the combined syngas portfolio across methanol, formaldehyde, ammonia, hydrogen, synthetic natural gas, and low-carbon fuels.



Expands chemical capabilities

Expands capabilities across refining, petrochemicals, oleochemicals and adjacent markets, creating new opportunities.



End-to-end sustainable fuels

Expands SAF pathways across Fischer-Tropsch, methanol-to-jet and CO₂-derived e-fuels routes with stronger end-to-end integration.



Strengthens purification solutions

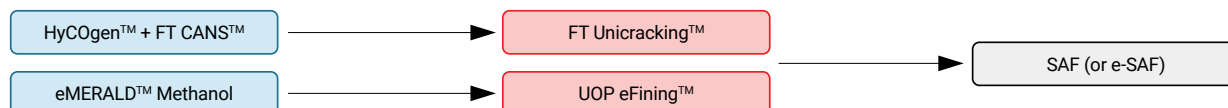
PURASPEC™ bolsters mercury, chloride and sulfur removal across natural gas, LNG, LPG and hydrocarbon processing; paired with MOLSIV™ molecular sieves.

One Honeywell Technologies. One solution. New possibilities.

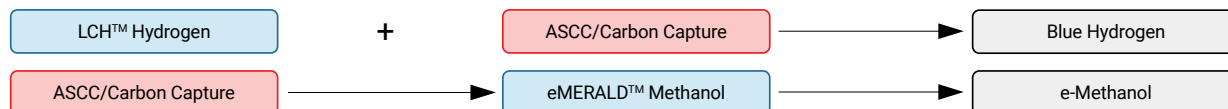
The combination of Honeywell Technologies' process automation expertise, digital intelligence and UOP's established technology portfolio with JM CT's catalysts and process technologies creates a broader category of industrial solutions provider. Customers can now engage a single, integrated partner from initial design and catalyst supply through process and operational optimization.

This is the future Honeywell Technologies is building: where the world's most critical industries find not just technologies, but integrated solutions.

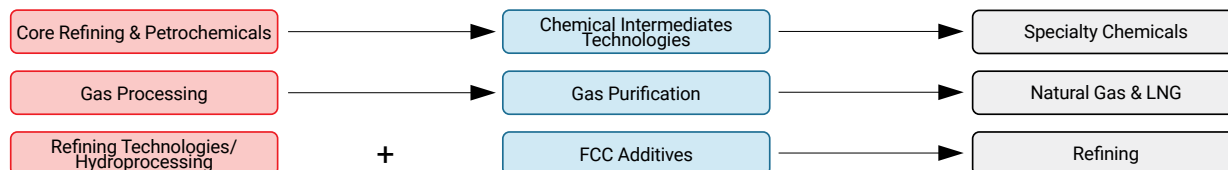
Future fuels



Integrated low-carbon molecule solutions



Refining, chemicals and gas



JM CT Technologies



Honeywell Technologies



End Segment

Bolstered energy portfolio

FCC Additives | Renewable Fuels | Hydrogen | Synthetic Natural Gas

Following the acquisition of Johnson Matthey's Catalyst Technologies business, Honeywell Technologies offers a strengthened portfolio spanning lower-carbon hydrogen and ammonia pathways, sustainable aviation fuel, methanol from renewable or waste-derived feedstocks and captured CO₂, CO₂-derived fuels, synthetic natural gas and refinery performance.

Fluid Catalytic Cracking (FCC)

The acquisition of JM CT strengthens Honeywell Technologies refinery portfolio and aftermarket offering by adding solutions for Fluid Catalytic Cracking (FCC) emissions reduction, yields optimization, metals management, and feedstock flexibility. Honeywell UOP's process technologies, digital capabilities, and technical services combined with JM CT's FCC additives expertise deliver a more comprehensive FCC performance optimization offering, enhancing Honeywell UOP's ability to support refiners throughout the operating lifecycle.

Blue Hydrogen

The integration of JM CT and Honeywell Technologies creates a compelling, end-to-end offering for low-carbon hydrogen production. JM CT's LCH™ technology — based on autothermal reforming (ATR) or ATR coupled with gas heated reforming (GHR) — combines with Honeywell Technologies' carbon capture and process automation expertise to deliver blue hydrogen solutions that can support global emissions targets and help projects qualify for clean energy incentives, depending on project configuration, jurisdiction and applicable program requirements.

Blue Ammonia

JM CT LCH technology integrated with thyssenkrupp Uhde® ammonia process, decam™ technology offers a pathway designed to help reduce carbon intensity in ammonia production. The collaboration is designed to support plant lifecycle value through energy efficiency and reliability. The technology is optimized for JM CT's KATALCO™ range of catalysts, which are used in large ammonia plants in operation globally.

Ammonia Cracking

The hydrogen economy will require production of affordable hydrogen in regions of abundant low carbon energy, which can be located far away from regions of high energy demand. Large quantities of clean energy required by regions such as Northwest Europe and East Asia can be provided by transporting hydrogen in the form of ammonia, LOHCs or as liquid hydrogen. JM CT's ADEPT™ technology for ammonia cracking and its catalysts offer future-ready flowsheet concepts with a competitive ammonia-consumption performance indication when hydrogen is transported in the form of ammonia.

Sustainable Aviation Fuel (SAF)

The combined JM CT and Honeywell Technologies portfolio delivers differentiated, end-to-end solutions for producing SAF from biomass, municipal solid waste, renewable hydrogen, and CO₂. Two complementary production pathways are now available under one provider: the Fischer-Tropsch route, where JM's FT CANS™ (developed with bp) integrates with Honeywell's FT Unicracking™ to produce certified, drop-in fuel; and the Methanol-to-Jet route, which pairs JM CT's methanol synthesis technology, with Honeywell UOP's eFinishing™ platform. Together, these capabilities support SAF deployment at scale and can help advance energy security.

Flexible CO₂-to-Fuels Pathways

The combined portfolio offers three distinct routes for converting captured CO₂ and renewable hydrogen into fuels and gas, giving project developers the flexibility to match production to their feedstock position, target market, and plant configuration:

- Methanol: JM CT's eMERALD™ converts CO₂ directly into methanol for use as a fuel or further upgrading via Honeywell UOP's eFinishing™ platform.
- Synthetic liquid fuels: HyCOgen™ produces syngas optimized for FT CANS™ and subsequent Fischer-Tropsch synthetic crude for further upgrading with Honeywell UOP's FT-Unicracking™ technology.
- Renewable methane: DAVY ePOWERGAS™ converts CO₂ and renewable hydrogen into e-methane, a drop-in alternative to fossil natural gas compatible with existing infrastructure.

Expanded chemicals portfolio

Methanol | Formaldehyde | Intermediates | Catalysts

Honeywell Technologies established refining and petrochemical technologies now unite with JM CT's catalyst heritage, creating an expanded portfolio spanning methanol, formaldehyde and a broad range of other chemical intermediates used in plastics, coatings, detergents, fuels and everyday products.

Methanol synthesis leadership

Honeywell Technologies now offers an integrated methanol technology and catalyst portfolio spanning plant design, catalyst selection, commissioning and operation. A significant share of the world's methanol is produced using JM CT licensed process technology, supported by KATALCO™ 51-series catalysts designed for high productivity, long operating life and reliable performance.

The portfolio supports methanol production from synthesis gas derived from natural gas, coal, biomass, municipal waste and industrial off-gases, as well as captured CO₂ combined with renewable hydrogen through JM CT's eMERALD™ technology. This gives producers a flexible route to methanol for use as a fuel, chemical building block or intermediate for downstream fuels and chemicals.

Six decades of formaldehyde expertise

JM CT's FORMOX® process technology combines proprietary plant design, high-performance catalysts and technical support to deliver reliable, energy-efficient formaldehyde production at scale. Over six decades, the technology has supplied more than 30 million tons per year of installed formaldehyde capacity worldwide. Global specialists support customers throughout the plant lifecycle, from process design and catalyst selection to commissioning, performance optimization and catalyst recycling.

Chemical intermediates

Established process technologies enabling safe, reliable, efficient, and profitable production of critical chemical intermediates used in everyday applications, including coatings, detergents, and fuels. Backed by a proven track record in technology licensing and deep technical expertise, we offer world-class solutions for oxo chemicals, ethyl acetate, 1,6-hexanediol, natural detergent alcohols, dimethyl ether, propylene glycol, vinyl chloride monomer, butanediol derivatives (BDO, THF, GBL, and DMS), and amines.

Steam Reforming - NiVARA™

The KATALCO™ range supports pre-reforming, steam-methane reforming (SMR) and autothermal reforming (ATR) duties, including NiVARA™ technology engineered to deliver conventional catalyst performance using a fraction of the active component used by leading alternatives.

Ammonia Catalysts - KATALCO™ 35-series

Unreduced and pre-reduced options for different plant and start-up requirements. Designed for high plant rates and long run lengths; used in some of the world's largest and lowest-pressure ammonia plants above 3,500 tons per day.

Specialist Chemical Catalysts

Catalysts for petrochemicals, fluorochemicals, oleochemical and edible oil hydrogenation, and high-activity sponge-nickel catalysts. Application expertise and technical support improve product quality, catalyst life and process performance.

Lifecycle and Technical Support

Global specialists combine process modeling with hands-on technical support across the full plant lifecycle. Long-term partnerships strengthen plant economics. Catalyst recycling programs can help support cost reduction and environmental objectives, depending on customer program design.

Custom Catalysts

Custom catalyst development and optimization capabilities, combining deep process expertise, advanced R&D, and scalable manufacturing helping customers improve performance across a wide range of chemical processes.

Purification. Reimagined.

Gas Processing | Mercury, Chloride & Sulfur Removal | PURASPEC™

Honeywell Technologies now combines MOLSIV™ molecular sieve adsorbents, PURASPEC™ reactive absorbents and KATALCO™ syngas purification catalysts into one integrated portfolio, supporting dehydration, contaminant removal and syngas conditioning across natural gas, LNG, refining, petrochemicals, hydrogen, methanol and ammonia.

MOLSIV™ - Molecular Sieve Adsorbents

Molecular sieve adsorption for dehydration, gas treating and specialist separation across natural gas, LNG, refining, petrochemicals and air separation.

- Deep dehydration for natural gas and LNG production
- Cryogenic pre-purification and O₂/N₂ production
- Biogas upgrading, CO₂ - related and nuclear applications

PURASPEC™ – Reactive Absorbents

High-capacity reactive absorbents for contaminant removal across natural gas, LNG, LPG, refining and hydrocarbon processing.

- Mercury removal from natural gas and hydrocarbon liquids
- Deep sulfur removal from natural gas, off gas, naphtha and other hydrocarbon feedstocks
- PURASPEC CLEAR™: HCl and organic chloride removal

KATALCO™ – Syngas Purification

Purification catalysts and absorbents addressing syngas duties ahead of methanol, ammonia and hydrogen synthesis. Works alongside PURASPEC™ for sulfur compounds, heavy metals and halides to protect downstream synthesis catalysts.

Application	Duty	Products
Natural Gas & LNG	Dehydration, mercury and sulfur removal	MOLSIV™, PURASPEC™
Refining & Petrochemicals	Purification of gas and liquid streams to protect catalysts and product quality	PURASPEC™, MOLSIV™
Hydrogen, Methanol & Ammonia	Feed purification and catalyst protection	KATALCO™, PURASPEC™
Air Separation	Cryogenic pre-purification and O ₂ /N ₂ production	MOLSIV™
Emerging & Specialty	Biogas, CO ₂ duties, nuclear and specialist separations	MOLSIV™, PURASPEC™

For more information

<https://www.honeywell.com/us/en/lp/ct/overview>

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