

PROFILE



Korea Institute of Machinery & Materials (KIMM)

Research institute to bring a better future based on innovation in mechanical technology

- ✓ Semiconductor and Display
- ✓ Secondary Battery
- ✓ Advanced Biotechnology
- ✓ Hydrogen
- ✓ Artificial Intelligence (AI)
- ✓ Advanced Robotics and Manufacturing



Website QR

Information

Main Contact	+82-42-868-7114
Website	https://www.kimm.re.kr/eng
Purpose of Establishment	To contribute to national and industrial development by conducting research and development, commercialization, and reliability testing and evaluation of core technologies in the field of machinery and materials.
Main Responsibilities	- Conducting research and development of core technologies in machinery and materials - Commercializing and disseminating research outcomes - Conducting reliability testing and evaluation of machinery and materials technologies
Planned Recruitment	00 positions

Contact

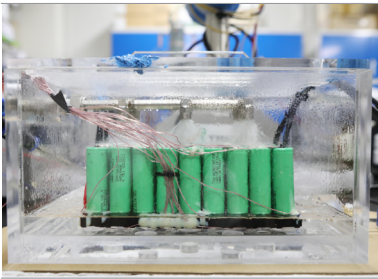
Department	Department of Human Resources Management
Phone	+82-42-868-7028
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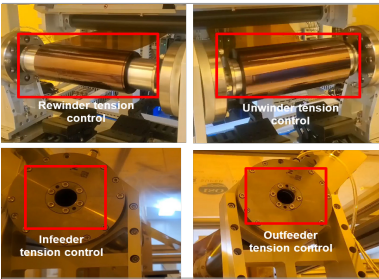
Key Achievements



Developed a next-generation AI humanoid robot for human interaction and autonomous learning.



Developed the world's first spray-based immersion cooling technology for safer battery thermal management.



Developed a roll-to-roll digital lithography system for continuous high-resolution patterning of flexible substrates.

Research & Project List

Research Institute of Autonomous Manufacturing

Develop autonomous manufacturing equipment and process technologies by integrating advanced manufacturing, digital twin, AI, monitoring, and control technologies.

Research Institute of Carbon-neutral Energy Machinery

Develop carbon-neutral energy systems and core thermo-fluid equipment for hydrogen, heat pumps, energy storage, and industrial applications.

Research Institute of AI Robotics

Develop AI-based autonomous manipulation, human-robot collaboration, robotic performance, and innovative design technologies for next-generation robots.

Nano-convergence Manufacturing Research Division

Develop core nano-convergence manufacturing technologies and promote their commercialization for future production.

Eco-friendly Energy & Environment Research Division

Develop high-efficiency clean energy, air and water treatment, and eco-friendly power generation technologies.

Virtual Engineering Platform Research Division

Develop virtual engineering, digital twin, and integrated operation platform technologies for the design, analysis, and evaluation of complex mechanical systems.