



Advanced Logistics Meets Robotics, AI, and ESG at Korea MAT

Released Date: 18 April 2023

Department in Charge: **Advanced Logistics Division**, MOLIT

Contact: Annie KIM / Global Media Communicator, MOLIT / audiis2@korea.kr / +82 44 201 3056

- *Korea's largest 'International Materials Handling & Logistics Exhibition' held at KINTEX for 4 days from April 18th*
- *KRW 125 billion to be invested in logistics R&D including hyper tube and cold chain, and robot delivery to be implemented from the year of 2026*
- *"The government actively supports Korean youth to become the center of the global logistics revolution", MOLIT Minister Won expressed*

The 'Korea Int'l Materials Handling & Logistics Exhibition (hereinafter as Korea MAT)', where people are able to overview the trends of advanced logistics technology at a glance, will be held at KINTEX Exhibition Hall #1 in Ilsan for 4 days from Tue. 18 to Wed. 21 April.

Sponsored by the Ministry of Land, Infrastructure and Transport (MOLIT, Minister WON Hee-ryong) and hosted by the Korea Integrated Logistics Association, the Korea MAT is the largest logistics exhibition in Korea, which has been held since 2011 celebrating its 13th edition this year.

At this Korea MAT, 150 companies ranged from logistics-related start-ups to large corporations will open a total of 780 exhibition booths to promote advanced logistics equipment, systems, and services, especially including various logistics technology exhibitions and seminars centered on Robots, Artificial Intelligence, and Environment·Social·Governance (ESG) to help people experience the changed status of logistics.

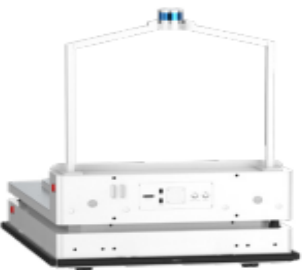

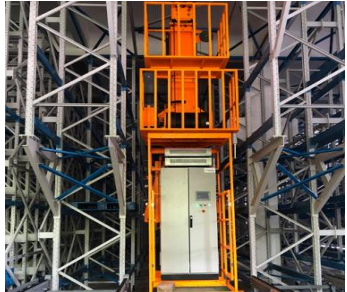
First, Meeting between Logistics and Robots

First of all, various robots used in logistics services will be exhibited. A variety of logistics robots that will bring innovation to logistics services, such as autonomous delivery robots that carry goods by themselves, target-following delivery robots that follow after people, and sorting systems that automatically classify goods based on specifications or characteristics, will be displayed.

In particular, wearable robots that support muscle strength to lift heavy cargo with less effort will be introduced, allowing attendees to experience how robotics can help people with low strength or the physically challenged.

There will also be seminars by experts in logistics industry, including trends of logistics robot automation and the transformation of last-mile logistics through delivery robots, so attendees can hear about the innovations that logistics robots are bringing to our economy and society.

[Example of Major Technologies Exhibited]

Technology Name	Autonomous Transportation Robot	Wearable Robot for Muscular Support	Automatic Sorting System
Picture			
Company Name	TWINNY	Angel Robotics	JK Robotics

Second, Meeting between Logistics and Artificial Intelligence (AI)


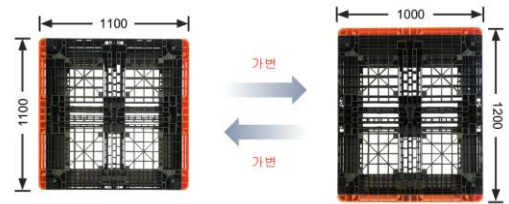
People can also meet logistics technology that utilizes artificial intelligence, which is of high interest in the industry recently. Logistics solution technology that informs the optimal route and transportation mode in the logistics transportation process and analyzes logistics costs, as well as a middle-mile freight transportation platform that uses data to streamline vehicle dispatching will be introduced.

In addition, seminars by experts who combine logistics with other fields such as spatial information and mobility using artificial intelligence technology, including ways to build digital twins for autonomous transportation and autonomous freight transportation services, etc. will also be held.

Third, Meeting between Logistics and Environment·Social·Governance (ESG)

Advanced logistics technologies that can reinforce corporates' social responsibilities, such as environmental protection and safety, will also be on display. A platform technology that can reduce carbon emissions by recycling pallets, which are usually consumed for single use during cargo transportation, and an autonomous firefighting robot for initial response to fires in warehouses will be exhibited, while a seminar on fire safety analysis and countermeasures for warehouses will also be held.

[Example of Major Technologies Exhibited]

Technology Name	Middle-mile freight transportation brokerage platform	Variable pallet sharing platform
Picture		
Company Name	TMAP Mobility	Alporter

Meanwhile, MOLIT Minister Won will attend the opening ceremony at 2 p.m. on Tue. 18 May and hold a meeting with the youth, including representatives of start-ups, preliminary entrepreneurs, and students, etc. in the logistics field, on the theme of ‘The future of logistics drawn together with the youth’.

Through this occasion, Minister Won will share the potential and changing aspects of the advanced logistics industry with the youth and introduce the government's direction to support the smart logistics industry.

Moreover, he plans to visit the exhibition to look over the trends of advanced logistics technology and directly experience major advanced logistics technologies, such as wearing a wearable robot to support muscle strength and directly moving delivery packages.

Minister Won stated, "The logistics industry is now becoming the center of the real economy through the meeting of the cutting-edge technologies and logistics."

Adding, "In order for the Korean youth to stand at the center of the global logistics revolution, we will invest KRW 125 billion into logistics R&D budgets including hyper tubes and cold chains, and foster the logistics industry as a key future growth engine, such as implementing robot delivery from the year 2026".