

Release Date: **online after 6:00, 6 January 2022**

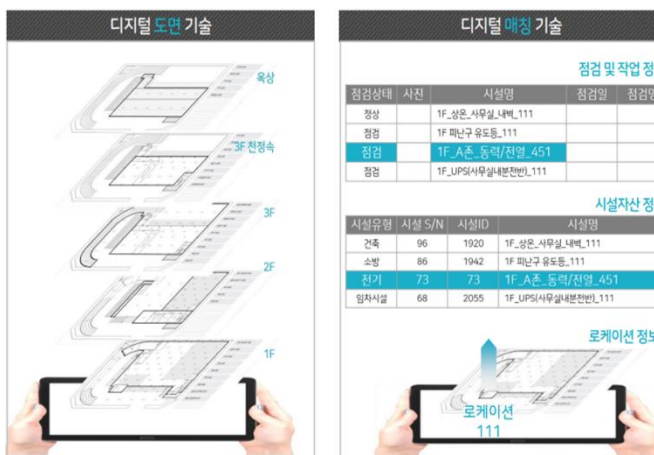
OPR: Advanced Logistics Division, MOLIT

Contact Information : OH Song Cheon, JIN Young Min (044-201-4011, 4012)

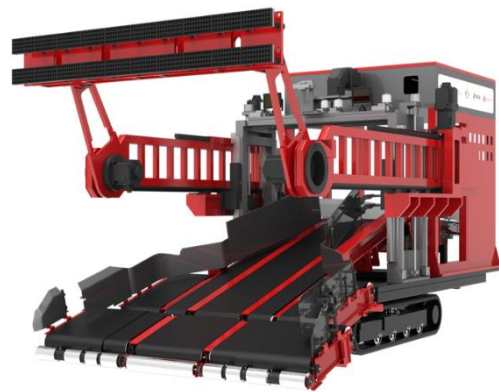
#SmartTechnology#AI#UnloadingRobot

## Smart Warehouse Management With Smart Warehouse System and Unloading Robot

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister NOH Hyeong-ouk) designated the Smart Warehouse System and the Unloading Robot as the 4<sup>th</sup> and 5<sup>th</sup> New Excellent Logistics Technology of South Korea, respectively.



<Smart Warehouse System>



<Freight Unloading Robot>

The Smart Warehouse System is a digital management system for warehouse facilities that enables workers to view and manage constructional structures, equipment, ground and surrounding features in a digital environment through applying digital blueprint technology within the warehouse.

The system allows workers to conveniently monitor and control the warehouse environment as it provides a digital status update of every sector within the warehouse per the users' request.

With the newly developed Smart Warehouse System, workers can better prevent fire and safety-related disasters through precise inspection of the facility, creating a more efficient and safe working environment.

The Unloading Robot is a machine learning data-based robot capable of unloading freights and also goods with an irregular form (i.e. water bottles) with AI image recognition algorithm. This technology is expected to reduce working hours and take the weight off of workers with unloading tasks.

Developed through the R&D project of MOLIT, the new robot technology is able to safely unload 1,500 boxes of freight in an 11-ton truck in just 30 minutes which is quadruple the amount than the existing system.

MOLIT Director for the Advanced Logistics Division OH Song Cheon said, “With the rising demand for a new technology to efficiently process the increasing amount of deliveries following the Untact (non-contact) lifestyle, the use of the two newly developed technology is expected to spread throughout the freight distribution and delivery industry.”

The Ministry of Land, Infrastructure and Transport and the Korea Agency for Infrastructure Technology Advancement (KAIA) is expected to continue the development of advanced technologies with close cooperation between relevant organizations.

For further information regarding the above article or request for covers,  
please contact Young Min Jin (02-2131-4011) or (Emily) Seonwoo PARK (044-201-3056)

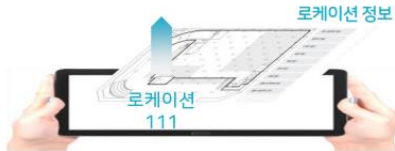
**MINISTRY OF LAND, INFRASTRUCTURE AND TRANSPORT**

[www.molit.go.kr](http://www.molit.go.kr)



시설자산 정보

시설유형	시설 S/N	시설ID	시설명
건축	96	1920	1F_상운_사무실_내벽_111
소방	86	1942	1F_피난구_유도등_111
전기	73	73	1F_A존_동력/전열_451
임차시설	68	2055	1F_UPS(사무실내분전반)_111



#### #4. Smart Warehouse System (applied with digital blueprint technology (KinsMedia Co.))

- A digital blueprint system to monitor and control warehouse facilities in a remote manner
- Enables remote control of warehouse facilities through digital input of the blueprints, sectioning each space by respective units and matching facility assets (goods) to the units within the system



#### #5. Unloading Robot (KRRI, Novakorea)

- A robot to unload freight and goods off of trucks for distribution
- Able to unload approx. 1,500 boxes in an 11-ton truck in 30 minutes (quadruple the effect than existing)
- Applied with multi-unloading equipment module, automatic manipulator, impact buffer device, algorism for box selection through image identification, etc.,