

PRESS RELEASE

For immediate release

"Smart Construction" at CES 2022



*Rendering Image of Hyundai Doosan Infracore's unmanned future construction machinery with Concept X
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SEOUL, SOUTH KOREA, December 15, 2021 – **Hyundai Construction Equipment (HCE)** and **Hyundai Doosan Infracore** will showcase their advanced smart construction solutions and future unmanned construction equipment under the theme of "**Intelligent Robotics**" at the Consumer Electronics Show 2022 (CES 2022) that will be held from January 5 to 8, 2022, in Las Vegas.

Hyundai Construction Equipment and Hyundai Doosan Infracore are Hyundai Heavy Industries (HHI) Group's two construction equipment affiliates. Through the world's largest international consumer electronics exhibition show, the two pace-setting companies will present their innovative technologies for the future of the construction equipment industry.

During CES 2022, the two businesses will promote the **Concept-X** project that enables realization of a safe and efficient future construction site based on unmanned and automation technologies and **XiteCloud**, the first product that partially commercializes the technologies of Concept-X.

Exhibition highlights

First, the **Interactive Media Table Zone** will be created at the booth so that visitors can have hands-on experience of a series of processes in the building of an eco-friendly marine city. The Media Table is designed to allow visitors to experience the main functions of "XiteCloud."

“XiteCloud” is a cloud-based All-in-One construction platform that enables integrated management of construction sites. It provides “digital construction platform” (XiteAnalyst/XiteFleet) that can analyze and plan 3D information and manage equipment efficiently in a cloud environment, and a “construction automation system” (XiteAuto/XiteSafety) that improves productivity and safety through automation of equipment.

Hyundai Doosan Infracore and Hyundai Construction Equipment are expecting that visitors will be able to easily grasp the vision of smart construction pursued by two companies by experiencing the smart construction site where the two companies’ future excavators and wheel loaders are deployed.

Second, they will exhibit mock-ups of future construction equipment, including excavators, wheel loaders, and dump trucks, and screen a video clip about the Concept-X project to introduce a future of automated/unmanned construction sites. Concept-X is a comprehensive control solution that measures and analyzes the topography of construction sites by using 3D drone scanning devices and creates operation plans based on the topographical data. Concept-X is the world’s first smart construction solution to successfully demonstrate the entire process from measurement to the use of equipment while being automatically operated with no human intervention. Thanks to this solution, those in charge of the construction site can monitor and remotely control the whole process at the control center called “X-Center.”

According to Hyundai Doosan Infracore, Concept-X is expected to save time and cost while increasing productivity and improving safety at the construction site. They plan to commercialize this solution by 2025. In addition, Hyundai Doosan Infracore plans to complete verification in phases of individual technologies such as topographical measurement using drones, data analysis, as well as unmanned operation and management of construction equipment. Those technologies will be released onto the market sequentially.

Hyundai Doosan Infracore CEO Young-cheul Cho said, “Automated and unmanned machinery that applies advanced Information and Communication Technology (ICT), such as artificial intelligence (AI), big data, and cloud, will be the future trend of the construction equipment market.” “The Group’s three construction equipment companies, which are Hyundai Genuine, Hyundai Construction Equipment, and Hyundai Doosan Infracore, will reinforce investment in innovative technologies to become a global leader in the market.”

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About Hyundai Heavy Industries Group

Hyundai Heavy Industries Group (HHI Group) is the world's largest shipbuilding and heavy Industries conglomerate. HHI Group started as a shipbuilder in 1972 in a small fishing village in Ulsan, the southeast of South Korea. With acquisitions and expansions into related sectors, it completed its shift to a holding company structure by launching Hyundai Heavy Industries Holdings in March 2018. On the foundation of solid leadership in the shipbuilding industry, it is now progressing to become the most innovative solution provider in the heavy industry and energy sectors, ranging from shipbuilding and offshore engineering to the refinery, petrochemical, and smart energy management businesses. The market capitalization of the HHI Group's eight listed subsidiaries reached USD 21.1 billion as of November 30, 2021.

About Hyundai Construction Equipment & Hyundai Doosan Infracore

HHI Group completed the acquisition of Doosan Infracore in August 2021 and finalized the

construction equipment business reorganization, which resulted in Hyundai Genuine becoming the Group's intermediate holding company, and Hyundai Construction Equipment and Hyundai Doosan Infracore becoming its affiliates. Hyundai Construction Equipment started its business as the construction equipment development R&D lab in Hyundai Heavy Industries in 1985 and was spun off from Hyundai Heavy Industries in April 2017. Hyundai Doosan Infracore started its business under the name "Chosun Machine Factory" in 1937 and has grown into a leading manufacturer of diverse construction equipment and diesel and gas engines. The two companies are maximizing their business synergy in the fields of R&D, purchase, and sales. They plan to intensively invest in leading future technologies to become global "top-tier" companies.

About CHO Young-cheul, Chief Executive Officer, Hyundai Genuine & Hyundai Doosan Infracore

Since Mr. Cho joined Hyundai Heavy Industries in 1988, he served as Head of Hyundai Oilbank's business management headquarters and Head of Korea Shipbuilding & Offshore Engineering's management support office. He has served as Chief Executive Officer of Hyundai Genuine - the HHI Group's intermediate holding company for construction equipment - and Hyundai Doosan Infracore after HHI Group acquired Doosan Infracore in August 2021. He studied at Korea University.

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