

GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this document. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms.

“3S technology standards”	the integration of Remote Sensing (RS), Geographic Information Systems (GIS), and Global Positioning System (GPS)
“3E+”	electrification, energy and efficiency
“5G”	the fifth-generation mobile network, a new global wireless standard after 1G, 2G, 3G, and 4G networks
“AC motor”	an electric motor that converts alternating current into rotational mechanical energy using a stator and rotor
“AI”	artificial intelligence, the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings
“ANSI”	voluntary, consensus-based standards accredited by the American National Standards Institute to ensure product and process quality, safety and interoperability across industries
“APU”	Auxiliary Power Unit
“AS”	a set of nationally recognized specifications and guidelines developed by Standards Australia to promote safety, quality, and consistency in products, services, and systems
“Autohold automatic control technologies”	a smart braking system that keeps a vehicle stationary after stopping without continuous brake pedal pressure, improving safety and comfort in traffic and on inclines
“Auxiliary machinery”	additional machinery that supports the main equipment in performing tasks
“BOM”	bill of materials
“Boom lifts”	aerial work platforms equipped with a telescopic or articulated boom that provide both vertical and horizontal reach to access elevated or hard-to-reach areas
“CAE”	Computer-Aided Engineering
“CAGR”	compound annual growth rate, the mean annual growth rate of an investment, business metric, or financial figure over a specified period longer than one year, assuming the value grows at a steady rate compounded annually
“CAN”	Controller Area Network

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“CE”	a regulatory standard that verifies certain products are safe for sale and use in the EU
“CSA”	technical specifications and guidelines developed by the Canadian Standards Association to ensure safety, quality, and performance across a wide range of industries
“Drive-by-wire”	an automotive technology that replaces traditional mechanical and hydraulic linkages with electronic controls for key driving functions such as throttle, braking, and steering
“EAC”	a certification mark that indicates a product meets the technical regulations and safety standards required for sale within the Eurasian Economic Union (EAEU)
“EHS”	a management system that integrates environmental protection, employee health, and workplace safety practices to minimize risks, ensure compliance, and promote sustainable operations
“Electrical parts”	for supplying power and enabling control, monitoring, and safety protection, with examples including electric motors, sensors, and relays
“Engineering machinery equipment”	vehicles and machines (e.g., excavators, bulldozers) used for construction, earthmoving, and engineering projects
“ESG”	environmental, social and governance
“Excavator”	a versatile construction machine with a boom, stick, and bucket, used primarily for digging trenches, holes, and foundations
“Fleet management system”	a centralized platform that uses technology to track, maintain, and optimize vehicle fleets, improving efficiency, safety, compliance, and cost-effectiveness
“FOPS”	Falling Object Protective Structure
“Forklifts”	powered industrial vehicles with front forks used to lift, move, and stack pallets or heavy materials over short distances
“GHG”	Greenhouse Gas
“HAC”	Hill-start Assist Control
“Heavy truck”	a heavy-duty motor vehicle designed to transport substantial loads, machinery, or specialized equipment. Primarily used for long-haul logistics, construction, mining, and various industrial applications

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“Hydraulic parts”	for transmitting power through hydraulic fluid to drive actions such as lifting, extending/retracting, steering, and braking, with examples including hydraulic cylinders, hydraulic motors, and hydraulic tanks
“ICE”	a heat engine in which fuel burns with air inside a combustion chamber, and the resulting high-pressure gases directly move engine components — such as pistons or turbines — to convert chemical energy into mechanical work
“IoT”	Internet of Things, a system of interrelated computing devices with the ability to transfer data over a network without requiring human interaction
“ISO14001”	an internationally recognized standard for environmental management system published by the ISO
“ISO45001”	an internationally recognized standard for occupational health and safety management published by the ISO
“ISO9001”	an internationally recognized standard for Quality Management Systems published by the ISO
“KCS”	the mandatory safety certification system under the Korea Occupational Safety and Health Act that ensures hazardous machinery, protective devices, and personal protective equipment comply with Korean safety requirements before manufacture, import, or use
“Mining dump truck”	a large, rigid-frame dump truck built for the most demanding mining tasks
“Mining equipment”	a general term for machinery and vehicles used in mining operations, including excavation, transportation and auxiliary machinery
“New energy mining transportation equipment”	a mining transportation equipment powered by electric or hydrogen fuel cells instead of diesel
“OEM”	Original Equipment Manufacturer
“Off-highway wide-body dump truck”	an off-highway dump truck with a wide body, offering a cost-effective solution
“ROPS”	Roll-Over Protective Structure
“Scissor lifts”	a type of aerial work platform that uses a crisscross mechanism to raise and lower workers or materials vertically for construction or maintenance tasks
“Standard parts”	general-purpose components for connecting, fastening, sealing and supporting, with examples including bolts, nuts, bearings, oil seals and sealing rings

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“Structural parts”	for withstanding loads, impacts and vibrations while ensuring equipment strength, rigidity and stability, with examples including vehicle frames, telescopic booms and platform frames
“TCU”	Transmission Control Unit
“Telehandlers”	multi-purpose lifting machines featuring a telescopic boom that combines the functions of a forklift and a crane to lift and place loads at extended heights or distances
“Transmission parts”	for transmitting power and adjusting speed or torque, with examples including transmissions, drive chains, and drive axles
“VCU”	Vehicle Control Unit
“VECU”	Vehicle Electronic Control Unit
“Vehicle networking platform”	a digital system that connects vehicles and subsystems for real-time data exchange, remote control, and intelligent fleet management
“VOC”	volatile organic compound