

GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this document in connection with our Company and our business. Such terminology and meanings may not correspond to standard industry meanings or usages of those terms.

“ACU”	articulation control unit, the core electronic control module in an articulated vehicle that automatically processes data from sensors, executes control algorithms, and manages the damping force of the vehicle’s articulation system, while also communicating with the vehicle to provide necessary displays
“ART”	Autonomous Rail Rapid Transit, an innovative urban public transportation solution that combines the advantages of rail transit and road traffic. Articulated vehicles use sensors to recognize virtual markings on the road surface and operate precisely along designated routes
“articulation turntable” (銜接盤)	the collective components of the articulation system that connect to the vehicle chassis. Together with windshield system, they constitute the complete vehicle articulation system
“BEC-TMS” (三元熱管理系統)	an integrated solution that coordinates three thermal management subsystems: battery thermal management, electric drive thermal management, and cabin thermal management
“BRT”	Bus Rapid Transit, a high-speed, high-capacity public transportation system that uses buses or specialized vehicles operating on dedicated lanes or busways
“CE certificate”	a regulatory standard that verifies certain products are safe for sale and use in the European Union
“damping cylinder”	a passive hydraulic actuator that generates damping force or damping torque during the piston’s reciprocating motion by controlling the flow of internal hydraulic oil. It serves as the actuator component in electro-hydraulic multi-damping hydraulic systems and proportional control hydraulic systems
“E/e-Mark certification”	a regulatory approval mark for motor vehicles and their components indicating compliance with United Nations Economic Commission for Europe (UNECE) and European Union safety and environmental standards

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“electro-hydraulic multi-damping hydraulic system”	refers to an electro-hydraulic system based on multi-source sensor signals. Controlled by the articulation control unit (ACU), it adjusts hydraulic flow and pressure in stages through hydraulic on-off valves, achieving multi-stage damping torque output from actuators for stability control in vehicle articulation systems
“EMC certification”	Electromagnetic compatibility certification confirms that an electrical or electronic product can operate correctly in its intended electromagnetic environment without causing or suffering unacceptable electromagnetic interference, in line with applicable regulatory and industry standards
“Ex Works”	an arrangement in which the seller is required to make goods ready for pickup at its place of business, and the buyer is responsible for all freight and delivery costs
“GFA”	gross floor area
“Hypalon”	a premium synthetic rubber known for exceptional resistance to chemicals, temperature extremes, and UV radiation
“IoT”	Internet of things, the collective network of connected devices and the technology that facilitates communication between devices and the cloud, as well as between devices themselves
“IT6”	International Tolerance Grade 6, an ISO 286 standard defining high-precision dimensional tolerances for linear measurements
“kN”	Kilonewton, a unit of force
“proportional control hydraulic system” (比例控制的液壓系統)	an electro-hydraulic integrated system that collects real-time vehicle operating condition signals and uses the articulation control unit (ACU) to adjust hydraulic proportional valves, achieving continuous and precise control of damping torque for hydraulic actuators. It is commonly used for vehicle articulation and stability control
“refrigerant-side” (冷媒側)	the specific closed-loop circuit within a TMS where the refrigerant circulates. Engineers distinguish this from the air or water circuits to isolate the chemical cooling processes from the external heat exchange interfaces
“slewing bearing” (轉盤軸承)	a large rotary bearing capable of simultaneously withstanding axial loads, radial loads, and overturning moments. It integrates support, rotation, transmission, and fixation functions, serving as a critical connection and rotation component in vehicle articulation systems

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“sq.m.”	square meter(s)
“SRT”	Super Autonomous Rail Rapid Transit, an innovative public transportation product that combines the high capacity of rail transit with the flexibility of buses. This articulated vehicle uses image recognition and Beidou positioning to precisely follow virtual road markings
“thermofluidic simulation” (熱流仿真)	a computational engineering process used to model heat transfer and fluid flow dynamics. This allows engineers to predict performance and optimize thermal management designs prior to physical prototyping
“TMS” or “thermal management systems”	systems designed to sense, transfer, and regulate heat from key thermal sources and loads
“VAS products”	comprising the articulation turntable and its associated windshield system, which are available for purchase either as complete sets or as separate components according to customers’ needs
“valve plate”	the base plate of the BEC-TMS. It regulates the directional intake and exhaust of fluids or gases, ensuring that system pressure and operational efficiency are maintained
“vehicle articulation system(s)”	the mechanical and electronic control system that connects and coordinates the movement of multiple sections of a vehicle. It consists of core components including the articulation turntable and windshield system. The windshield system can also be supplied as a standalone ancillary product to accommodate specialized applications
“windshield system(s)” (風擋系統)	a durable, accordion-like flexible canopy that provides a weather-tight seal and aesthetic continuity while accommodating the complex movements required during turns