

GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain terms used in this Document in connection with our Group and our business. The meaning of these terms may not necessarily correspond to standard industry meaning or the usage of these terms.

“3C electronics”	Computer, Communication, Consumer electronics.
“ball screw”	a mechanical screw mechanism used to achieve precise linear motion through rolling balls, commonly applied in robotics, automation and other precision motion-control systems.
“CCS”	Combined Charging System, an international standard for electric vehicle charging that supports both AC and DC fast charging through a single connector interface, enabling high-voltage, high-power charging for NEVs.
“deep-processing”	advanced manufacturing steps that convert mica semi-finished materials such as boards and papers into finished or near-finished mica-based products, typically including precision cutting, shaping, laminating, coating and assembly to meet application-specific electrical, thermal and mechanical requirements.
“die-cast heat sink”	a component made by die-casting metal, used to dissipate heat from electronic or mechanical systems, ensuring thermal management in high-density assemblies.
“dielectric strength”	the maximum electric field a material can withstand without breaking down, measured in kilovolts per millimeter (kV/mm), indicating the effectiveness of insulation materials.
“FDA”	The United States Food and Drug Administration, a federal agency responsible for protecting public health by regulating food, medical devices, drugs and related products.
“flame-retardant insulation tape”	a tape made from mica or other flame-resistant materials, used to wrap and insulate cables, providing fire protection and electrical insulation.
“JIS C0 grade”	a Japanese Industrial Standard indicating the highest accuracy class for ball screws, ensuring micrometer-level positioning precision.

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“lean manufacturing”	a production approach that eliminates waste and maximizes customer value through continuous improvement, just-in-time flow, standardized work and pull-based production; implemented via automated, digitally integrated lines and data-driven controls to shorten cycles, reduce defects and ensure timely, high-quality delivery.
“linear actuator”	an electromechanical device that converts rotational motion, typically generated by a motor, into linear motion of a load.
“micro drive”	a compact drive system designed for small-scale or high-density robotic applications, enabling precise motion control.
“mica paper”	a thin, flexible sheet made from natural or synthetic mica, used as a foundational material for manufacturing laminated boards, tubes, and plates with high thermal and electrical insulation properties.
“mica plate”	a flat, rigid insulation component manufactured from compressed mica paper, used for electrical and thermal insulation in various industrial applications.
“mica roll”	a continuous roll of mica-based insulation material, typically reinforced with glass fiber or polymer film, used for wrapping and insulating cables, battery modules, and other components requiring flexible fire-resistant protection.
“mica tube”	a cylindrical insulation component made from rolled mica paper, used for electrical insulation in cables, appliances, and industrial equipment.
“NEV”	New Energy Vehicle, vehicle powered by alternative energy sources such as electricity or hybrid systems, including battery electric vehicles and plug-in hybrids.
“OEM”	Original Equipment Manufacturer.
“PCB/ECU insulation”	insulation materials or components used to electrically isolate printed circuit boards or electronic control units in automotive and industrial systems.
“planetary roller screw”	a mechanical transmission component that converts rotary motion into linear motion, offering high load capacity and precision for actuators and automation.

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“REACH”	Registration, Evaluation, Authorization, and Restriction of Chemicals, an EU regulation governing the safe use of chemical substances in products.
“RoHS”	Restriction of Hazardous Substances, a European Union directive that limits the use of specific hazardous materials in electrical and electronic products.
“R&D”	research and development.
“segmented concentrated winding”	a motor winding technique that improves efficiency and power density by concentrating windings in specific stator segments.
“thermal runaway”	a condition in which a battery cell experiences uncontrolled temperature increase, potentially leading to fire or explosion.
“UL certification”	a safety certification issued by Underwriters Laboratories that verifies products meet established standards for electrical, fire and mechanical safety; often required for electrical and electronic components to demonstrate compliance with recognized safety performance criteria.
“vacuum potting”	a process in which components, such as motors, are encapsulated in resin under vacuum to enhance durability, insulation, and environmental resistance.