

GLOSSARY OF TECHNICAL TERMS

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

“3C”	computer, communication and consumer electronics
“AI”	artificial intelligence
“bay”	a modular in a semiconductor fab designed to support efficient, scalable and clean semiconductor processing operations
“CAGR”	compound annual growth rate
“CBB”	common building block, a standardized modular system that deconstructs robots into configurable building blocks, enabling efficient assembly of multi-form mobile manipulation robots
“CE”	Conformite Europeenne, a regulatory standard that verifies certain products are safe for sale and use in the European economic area
“controllers”	systems connected to the robot in order to control the movements of the robots
“cybernetic method”	a way of controlling and improving systems by constantly monitoring their actions and using feedback to make adjustments
“Embodied AI”	artificial intelligence systems that can interact with and learn from their environments using a suite of technologies that include sensors, motors, machine learning and natural language processing
“evolutionary algorithms”	a type of artificial intelligence. Evolutionary algorithms are motivated by optimization processes that we observe in nature, such as natural selection, species migration, bird swarms, human culture, and ant colonies
“few-shot transfer”	the ability of a model to adapt to new tasks using only a small number of examples, by leveraging prior knowledge and generalization skills, it enables rapid learning and application in novel situations
“flexible manufacturing”	a method of production that prioritizes adaptability. It’s a recognition of change as an inevitable part of manufacturing operations, both big and small
“heterogeneous robot”	a system composed of robots with different types, functions, and structures, which requires unified and coordinated control
“IMU”	inertial measurement units

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“industrial grade”	of or pertaining to a chemical or product that is designed to withstand more extreme conditions than a consumer product; used in commercial and industrial applications
“intrabay”	the automatic handling and circulation of materials between different production equipment within a bay
“interbay”	material transfer between different bays, connecting different production areas across the entire factory
“LiDAR”	light detection and ranging, a remote sensing device and technology that measures distances by illuminating the target with laser light and analyzing the reflected light
“mass production”	a large-scale production phase that adopts automated intelligent manufacturing and engineering facilities to ensure product consistency, reduce labor costs, enhance utilization, and achieve cost-efficiency
“MCU”	a microcontroller unit
“meta-task”	the intelligent planning ability to combine and schedule basic tasks in order to accomplish complex, high-level instructions
“multi-modal”	the capability of AI to understand and process multiple forms of information simultaneously
“multi-sensor information fusion”	the combining of data from multiple sensors
“point clouds”	the outputs of the scanning process, which contain a large number of points that together represent the site scanned
“R&D”	research and development
“RAG”	retrieval-augmented generation, a technique in artificial intelligence that combines information retrieval and text generation to improve the quality, accuracy, and relevance of generated responses
“RCC”	a centralized computing system or software module that manages, coordinates, and supervises the operations of multiple robots within an automated environment
“reinforcement learning”	a branch of machine learning where an agent learns to make decisions by interacting with an environment to maximize cumulative rewards. Unlike supervised learning, reinforcement learning does not rely on labeled data but instead learns through trial and error, guided by a reward signal
“SEMI”	Semiconductor Equipment and Materials International, is a global industry association dedicated to advancing the interests of the semiconductor and display manufacturing supply chains

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“SEMI SECS/GEM”	semiconductor equipment communication standards that enable automated control and data acquisition between equipment and the host computer
“SLAM”	simultaneous localization and mapping, a computational technology used by robots to build a map of an environment while simultaneously determining their location for navigation and spatial awareness
“Sub Fab”	the critical equipment support layer situated directly beneath the cleanroom in a wafer fabrication plant
“Visual SLAM”	visual simultaneous localization and mapping
“VLA”	Vision-Language-Action model, an AI model that can directly convert visual information and language instructions into control actions for robots
“VLM”	Vision-Language model, a type of AI model that integrates Computer Vision and Natural Language Processing technologies to interpret visual content and process/generate textual information through cross-model reasoning