
THUNAYAN BROTHERS
EST. 1941


ALDEBARAN

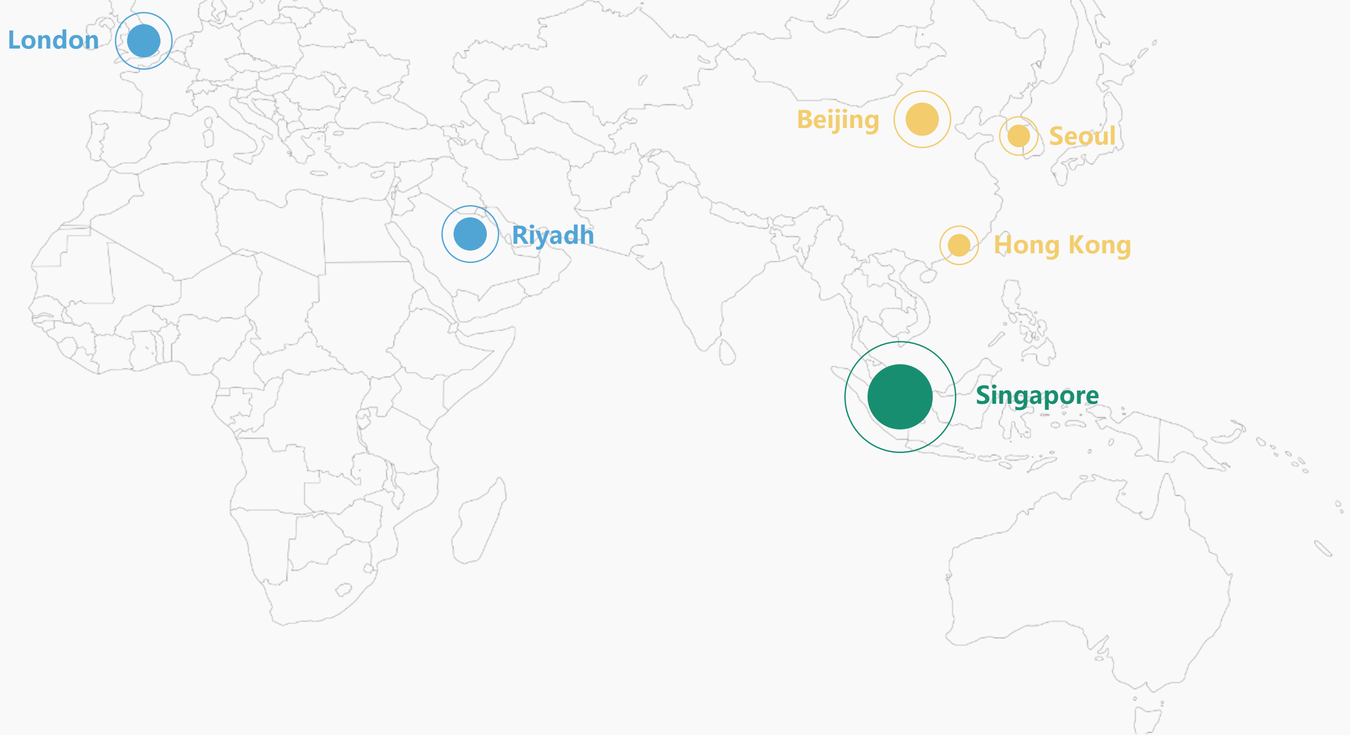
About us

Aldebaran Investment

Aldebaran Investment is an international private equity firm, focusing on cross-border mergers and acquisitions and special situation investments.

Through our deep insights into technological and industrial development trends, we are committed to working closely with outstanding entrepreneurs and industry partners to create sustainable value.

Aldebaran Investment is headquartered in Singapore, with representative offices in Hong Kong, Beijing and Seoul.



Our Strengths

We Are Prepared For the New Era

Distinctive Investment Philosophy and Strategy

- Aldebaran Investment was founded and will grow in an era completely different from the past forty years of booming globalization—a time of more intense great power competition, global trade, and supply chain restructuring. The resulting turbulence, risks, opportunities and returns are all significant.
- Our investment strategy will adapt to the changing times, focusing on key industries and areas that can promote a more balanced and secure global supply chain, with an emphasis on future core technology innovation and growth. At the same time, we will prioritize investing in 'corridor zones' and 'fringe zones' that present opportunities under the new geopolitical landscape.

Experienced and Stable Leadership Team

- The leadership team has an average of over 15 years of experience in the private equity industry, with more than 20 years of acquaintance and cooperation, fostering strong relationships.
- Before co-founding Aldebaran Investment, the leadership team held key positions and significant roles in renowned financial institutions and leading industry companies, participated in numerous milestone projects, and possesses extensive experience in investment mergers and acquisitions, as well as industrial operations management.

Reliable Cross-border Resources and Merger & Acquisition Capabilities

- We possess unique industrial and financial resources in the GCC countries of the Middle East, Singapore, China, South Korea, Japan, and other major Asian countries and regions.
- We maintain strong relationships and open communication channels with local sovereign funds, leading publicly listed companies in the industrial chain, and policy decision-makers.
- We can offer our partners support in areas such as cross-border M&A funding, local resource integration, recommendations for local joint venture partners, and team setup.

Long-term and substantial financial strength

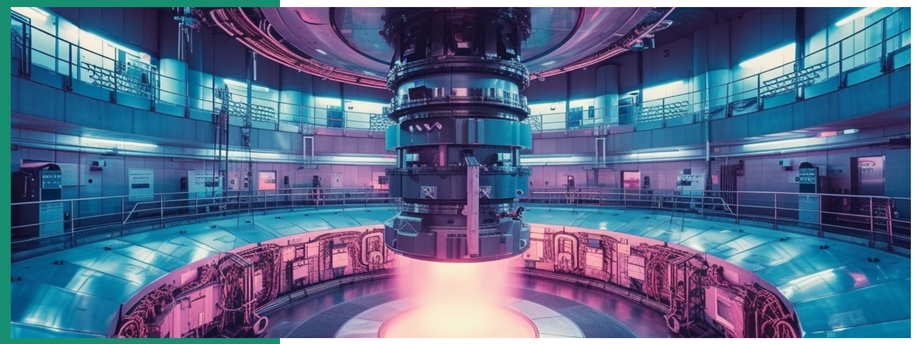
- Our principal investors (LPs) are from large Middle Eastern consortia, family offices, and other strategic and financial investors.
- They have substantial financial strength and have committed to long-term investments.


Key Investment Areas

Focus on key industries and areas

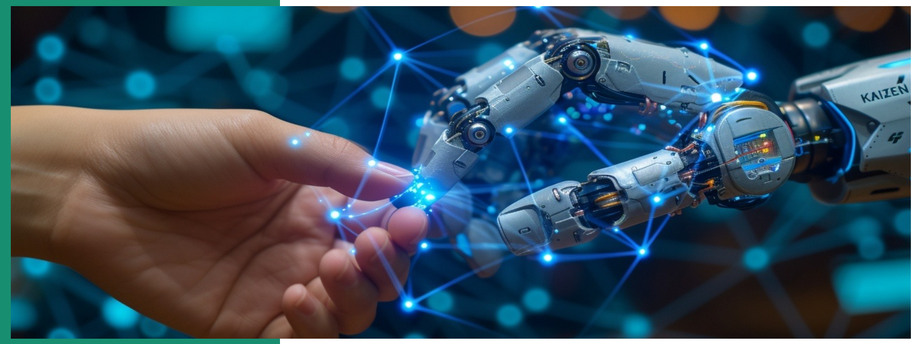
Information Technology

- ☐ Artificial Intelligence
- ☐ Semiconductors
- ☐ Cloud Computing and their upstream and downstream applications and infrastructure



Sustainable Energy

- ☐ Green Energy (such as Small Modular Reactors, Hydrogen Energy, Photovoltaics, etc.)
- ☐ New material industries



Smart Manufacturing

- ☐ Electrification and Intelligence of Automobiles, Robotics, Aerospace, etc.

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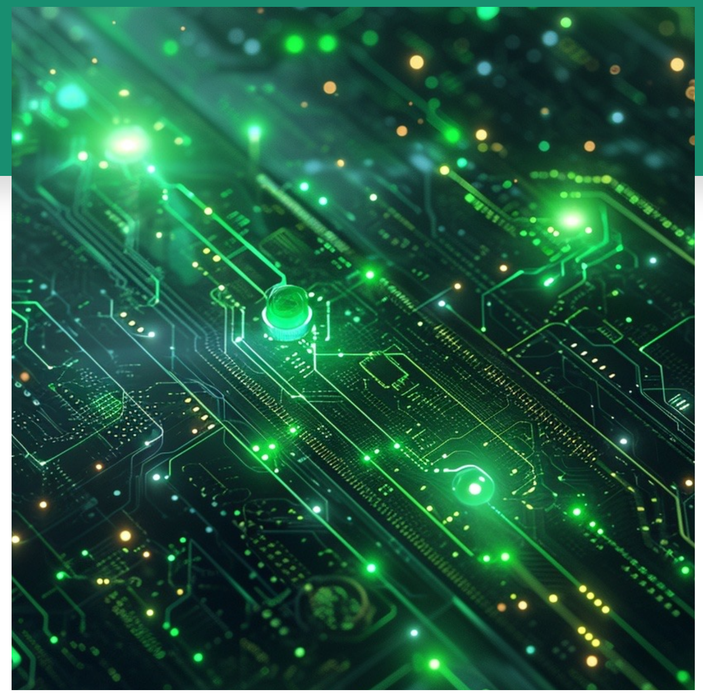
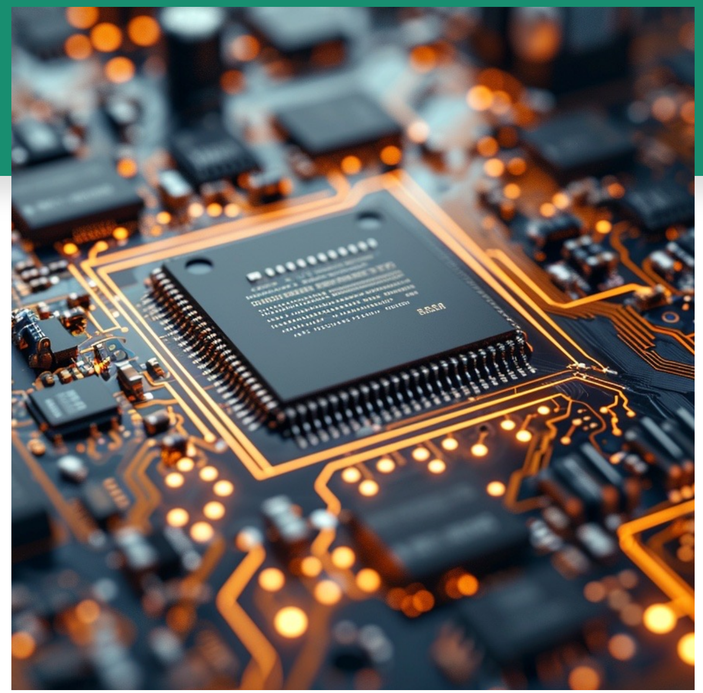
Investment Portfolio

As of now, the projects we have invested in include:



- China's largest edge computing network and accelerated visual computing service provider



- 100% acquisition project of a South Korean semiconductor company: one of the top three companies in the world in semiconductor packaging core components and consumables

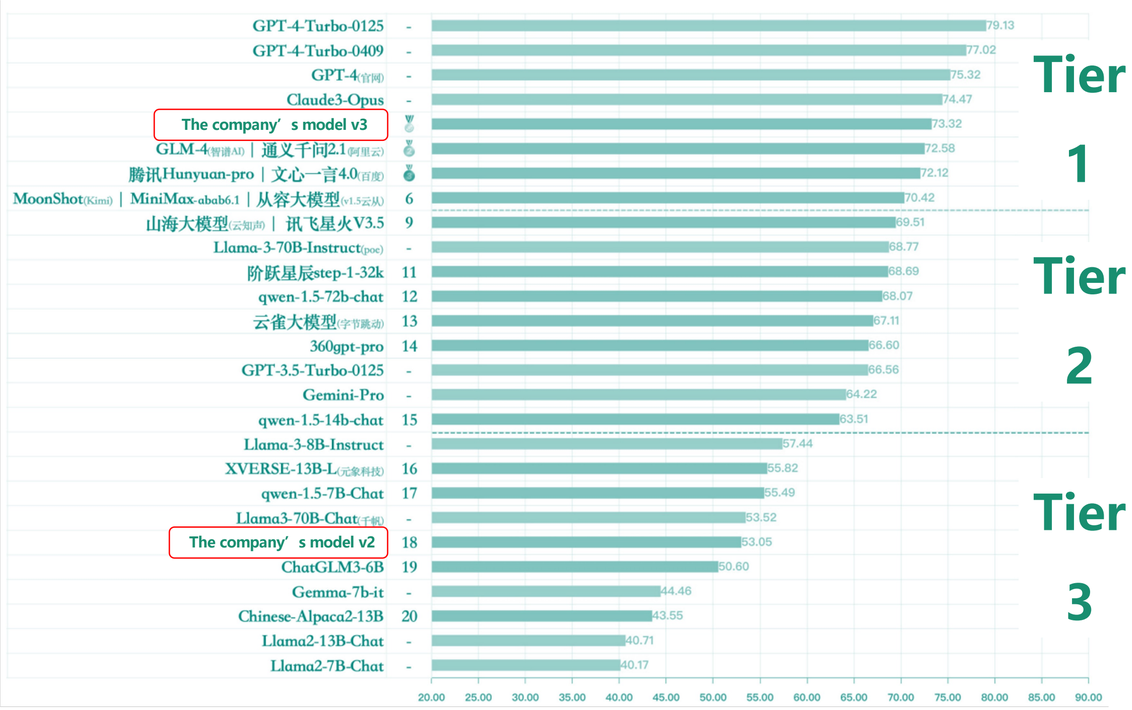
- Southeast Asian intelligent computing center infrastructure project

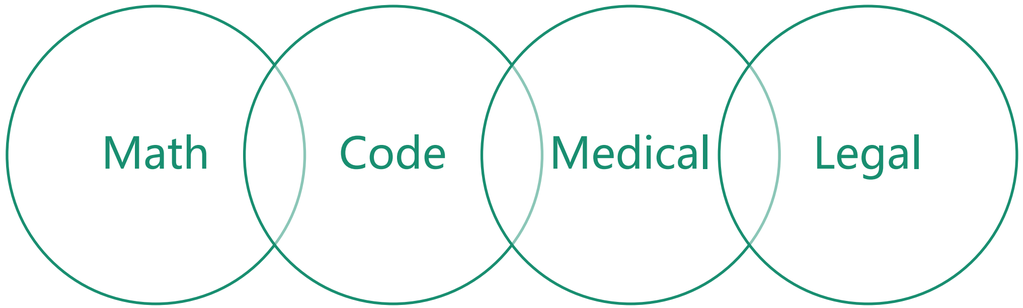

Investment Pipeline

A Leading AI Model Company

Business Focus

- The company offers AI models at the forefront of technology, designed for efficiency and complex task management
- The latest generation of company's AI LLM model has achieved the top position in a leading domestic evaluation, demonstrating its capabilities as the premier model in China





Highlights

- Elite Team: The team possesses extensive experience in search and commercial implementation
- Industry Leading: Consistently achieves top positions in respected AI evaluations, indicating premier status in the AI industry
- Tailored AI Solutions: Provides customizable AI solutions adaptable to various industry-specific requirements

Source: Evaluation Report Based on a Leading Authority Benchmark

A Multinational AI Company Creating the Largest-ever Digital Material Model

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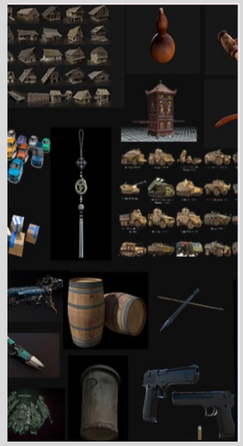
Business Focus

- The company offers physics-based computational modeling and real-time generative AI services for textile manufacturing, fashion design, game development, and entertainment applications

Open Creation Ecosystem

Consolidate connections among the virtual worlds and with the physical World:

- **Digital Assets:** Models, Scenes, Special Effects, Animation, Scripts, Storyboards, Textures, Sound Effects
- **Muti-Platform and Cross-domain Innovation:** VR, MR, Meta, Spatial Environment Design, characters, Interactive Elements, etc.
- **Asset Trading**
- **Copyright Management**

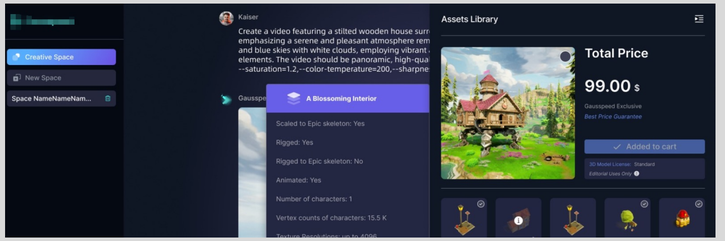


Highlights

- Team Excellence
- Technological Advancement
- Innovative Products and Services
- Strategic Partnerships and Adoption

Transform Film Production With Generative AI

- The company collaborates with a leading technology firm to accelerate the development of immersive workflow applications and computing platforms, enhancing efficiency in film and television production and increasing controllability and predictability in the production process



Large Materials Model

- **90 Billion** parameters
- **36TB of Data** Trained on
- **95%** Accuracy
- **80+ Sets** Scientific Properties

A Pioneering Company Crafting Naked-eye Mixed Reality Experience

Business Focus

- Individuals can immerse themselves in an alternate universe through company's cutting-edge technology that combines AI-driven three-dimensional algorithms, content, and hardware
- By leveraging VR/AR solutions, the company recreates interior architecture and space design to emulate actual environments and offers a novel way for clients and brands to engage customers

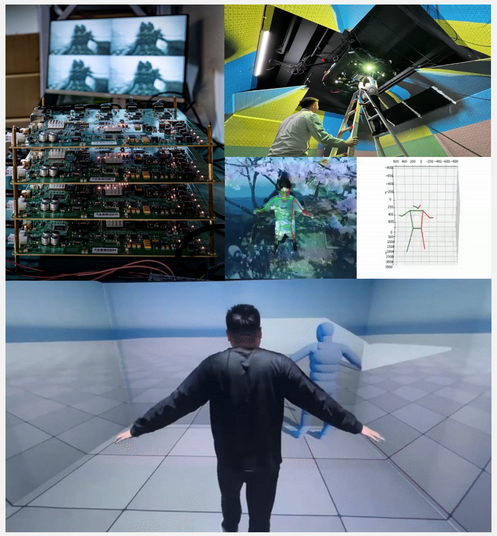
Technology

Technology - Immersive Experience

- Seamless Integration: exclusive algorithm to output non-distorted imaging
- Deceiving Visual Simulation - simulate viewing angle for realistic effect

Key Technology - Behind Scene

- Space Imaging Matrix
- Pose Recognition (omni-directional)
- Multi-modal in Complex Architecture



Highlights

- **Technological Leadership:** The company has obtained over twenty patents in both China and the United States, , as well as more than twenty honors and qualifications at the national, provincial, and municipal levels
- **Innovative Industry-specific Solutions:** the company has developed industry-specific solutions for various sectors including industrial manufacturing, cultural entertainment, education and training, commercial marketing, exhibitions and conferences, and public services, serving a range of top global and state-owned enterprises, prestigious universities, and leading industry players

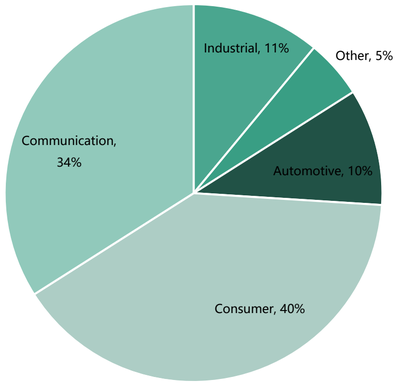
A Global Leader in NAND Products Supply

Business Focus

- The company specializes in providing stable and high-quality NAND products for a variety of markets, including consumer electronics, networking, industrial applications, and automotive systems

- The company is at the forefront of advancing NAND technology, offering leading SLC NAND storage solutions on a global scale

Business portfolio



Products

Product	Technology	Density
SLC NAND	4*/32/16nm	ONFI:Production SPI: Under Development
eMMC	16nm	4GB: Production 8GB: Under Development
SLC+LPD4X MCP	32nm/2Znm	Production

Highlights

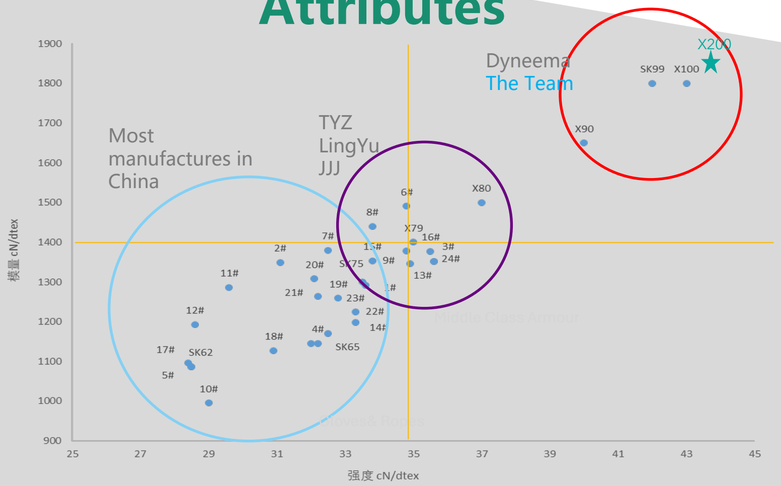
- Strategic NAND purchasing from a leading semiconductor company
- Strategic backend service from a renowned technology provider
- Strong customer base transferred from a major industry player
- Well-organized global sales team with strong local field application engineers (FAE)
- World-class product engineering team
- Excellent product quality reputation

A Leading HPPE Company

Business Focus

- Manufacturer of HPPE fiber. HPPE fiber also known as ultra-high-molecular-weight polyethylene (UHMWPE), is a type of high-strength polymer fiber characterized by its exceptional strength-to-weight ratio
- It is produced through a gel-spinning process, resulting in a material that is incredibly durable, lightweight, and resistant to various environmental factors

Exceptional Technical Attributes

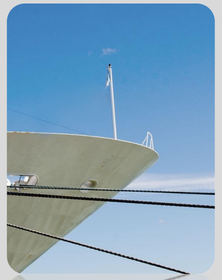


- Company's basic products are set to achieve the strength and modulus within the red circle, thanks to their extensive experience in high-end HPPE fiber production technology and management

Highlights

- Expansive Market Prospects with Enormous Potential
- Pioneering Fiber Technology Team with Globally Leading Product Technology

Wide Range of Applications



- HPPE fibers are widely used in personal protective equipment (PPE), including cut-resistant gloves, bulletproof vests, and helmets
- The fiber's lightweight and strong properties make it suitable for ropes, nets, and lines in the marine industry

A Technology-leading Perovskite Company

Business Focus

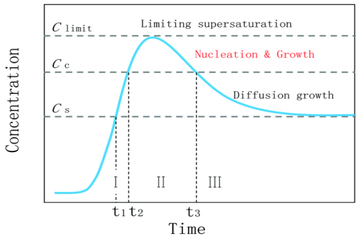
☐ The company mainly develops and produces single junction and stacked perovskite solar cell modules, as well as perovskite cell products for flexible and low light applications in multiple scenarios

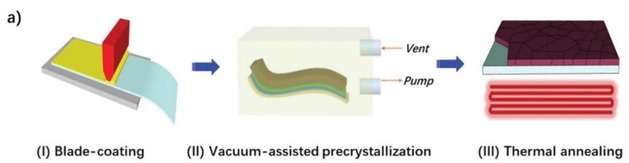
	Perovskite	Crystalline Silicon
Theoretical Conversion Efficiency	Single-Junction (33% theoretical efficiency) Tandem (45% theoretical efficiency) Multi-Junction (50% theoretical efficiency)	Theoretical conversion efficiency: 29.4% Achieved efficiency: 27.09%
Application Scenarios	Ground-mounted Power Station or Utility-scale Solar Power Plant, BIPV, Lightweight Applications, Portable Power Source or Mobile Power Station, etc.	The application scenarios are relatively limited
Cost per Watt	Perovskite is 1/2 the cost of crystalline silicon(Low raw material costs, low energy consumption, and low equipment investment)	

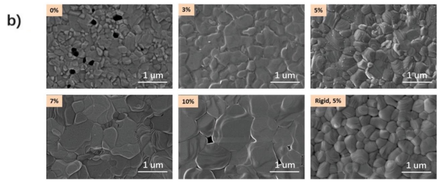
Key technology

☐ High-Quality Perovskite Large-Area Uniform Film Formation Technology

☐ One-step in situ formation of low-dimensional/three-dimensional perovskite heterostructure







5 Times breaking the **World Record** for perovskite module conversion efficiency

Highlights

☐ Team Excellence: The founder has rare experience in the industrialization of thin-film batteries

☐ Technological Advancement: The team achieved breakthroughs in thin-film fabrication processes, and solved the challenges of scaling up, efficiency enhancement, and stability for perovskite solar cells. To date, the company has secured the world's highest conversion efficiency for perovskite photovoltaic cells and modules seven times

A High-Performance Neodymium-Iron-Boron Material Manufacturing Company

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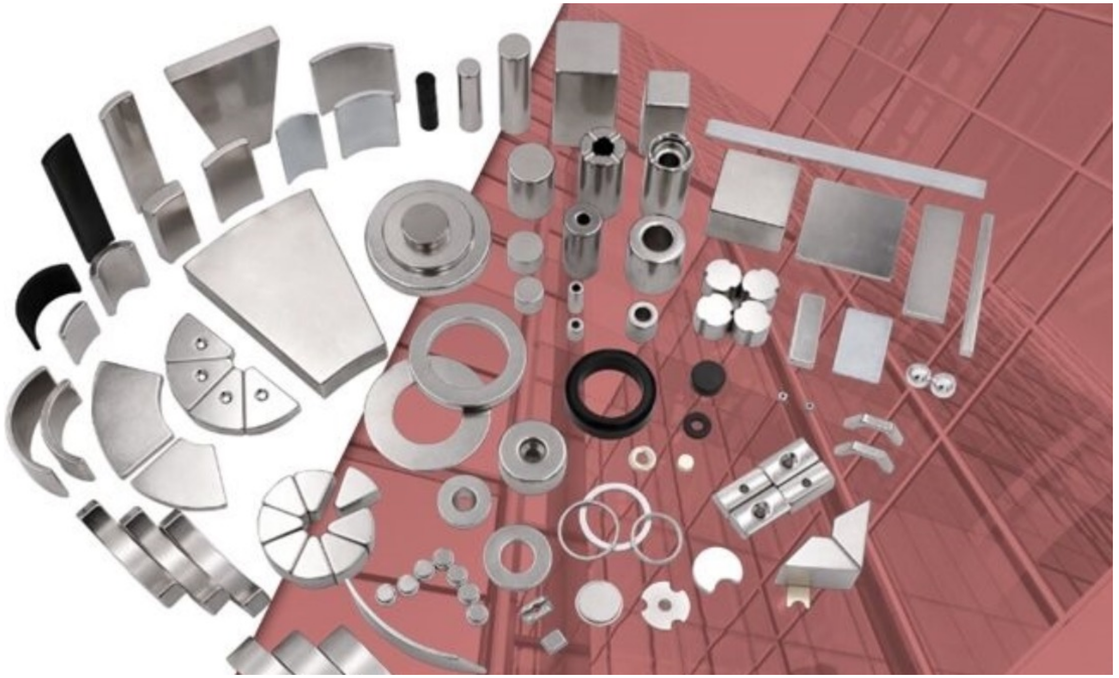
Business Focus

- The company is a supplier of high-performance Neodymium-Iron-Boron (NdFeB) materials
- Neodymium-Iron-Boron (NdFeB) is a type of permanent magnet material known for its exceptional magnetic properties



Highlights

- Market Potential: A billion-dollar market poised for an impending boom
- Technical Leadership: Through years of technological research and development, the company's product specifications have reached a leading level in the domestic market
- Team experience: The team with years of experience in domestic and international Markets, , driving consistent growth

The production process

Raw Material Blending → Thin Strip Casting → Hydrogenation and Rough Crushing → Air-Jet Milling for Fine Crushing → Magnetic Field Shaping and Pressing → Sintering

A Leading Provider of Rapid Sintering Solutions for Ceramics, Metals, and Composite Materials

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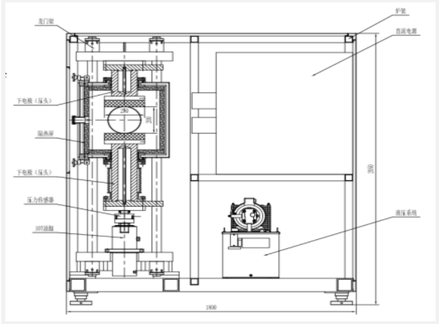
- The proprietary field-assisted rapid hot pressing sintering technology has pioneered a new process for the research and development as well as production of powder metallurgy/high-performance ceramics and their composite materials. This technology provides high-performance chip packaging with materials that offer superior performance, greater reliability, and more cost-effective solutions
- The development of a novel heat field melting technology (Ir-free method) has created a low-cost production path for the next generation of ultra-wide bandgap (Gallium Oxide) semiconductor materials
- The full-process development and production of polyimide (PI) sintering materials offer high-performance engineering plastics for applications in aerospace, semiconductor packaging, and testing, among other fields

Core Technology



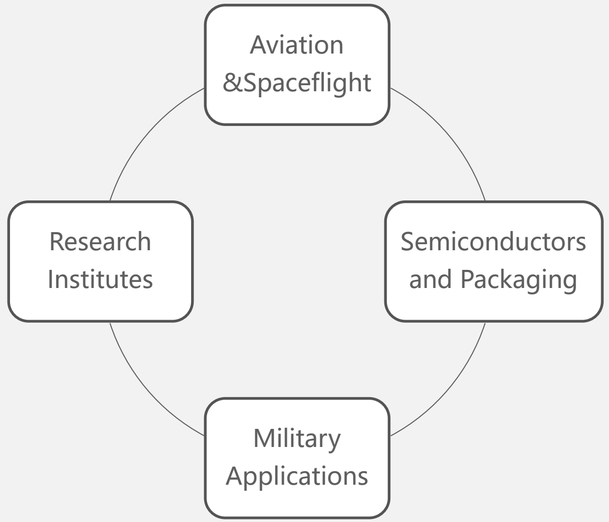
Schematic Diagram of Rapid Hot Pressing Sintering Equipment

- Rapid Hot Pressing Sintering Technology Platform.
- Low-Cost Crystal Growth Technology Platform.
- Polyimide Full-Process Technology Platform.

Key Materials

- Advanced Powder Metallurgy Composite Materials
- Advanced Ceramic/Packaging Materials
- Advanced Ceramic/Carbon Composite Materials
- Advanced Semiconductor Basic Materials
- Advanced Engineering Plastics

Advantageous Resources



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