Gudeng Precision Industrial Co. Ltd 家登精密工業股份有限公司









This presentation includes forward-looking statements. Forward-looking statements refer to statement that address activities, events or developments that Gudeng Precision expects or anticipates will or may occur in the future (including but not limited to projections, targets, estimates, market share, total addressable market (TAM) and business plans).

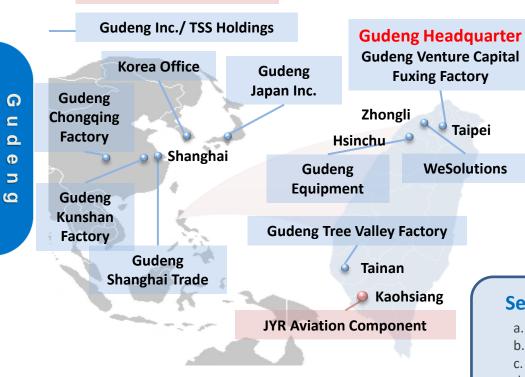
Gudeng's forward-looking statements are subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements. Gudeng does not undertake any obligation to publicly update any forwardlooking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.



Gudeng Company Overview



Gudeng Aerospace Inc.



- Established : Mar. 20th , 1998
- Employee : 1100 up
- Capital : US\$ 30 million
- **2020** Group Revenue : US\$ 83 million
- **2021** Group Revenue : US\$ 104 million
- ► 2022 Group Revenue : US\$ 150 million
- 2023 Group Revenue : US\$ 162 million (13% growth)
- ► 2024 Jan to Jul Group Revenue : US\$ 120 million (37%growth)

a.

b.

с.

d.

Semiconductor

- a. Mask Handling Solutions
- b. Wafer Handling Solutions
- c. Equipment
- d. Other Service

Aerospace

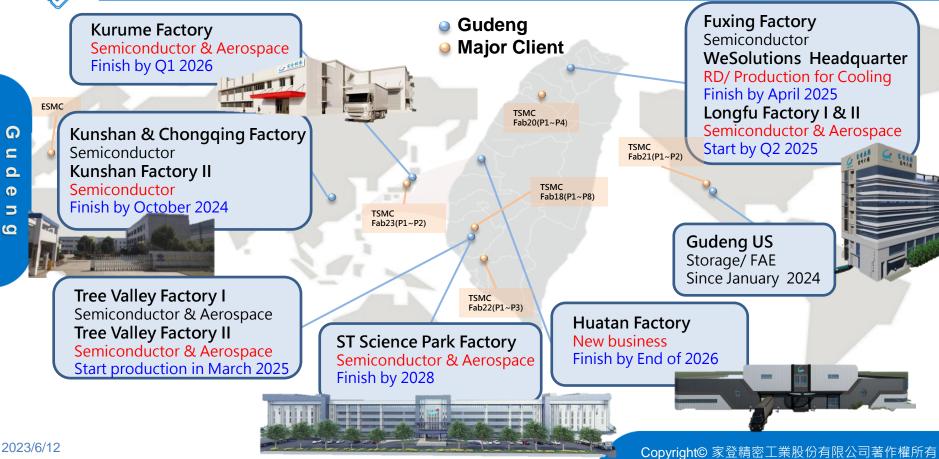
- Hydraulic Cylinders
- Heat Conduction Tubes
- Dynamic Balancing Motor
- Thermal Conductivity Bead

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Gudeng Expansion Plan



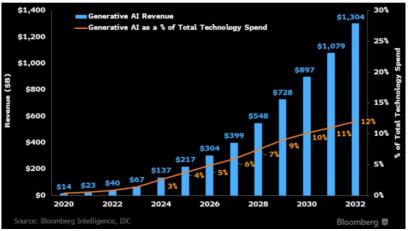






With expansion of generative AI, it has directly promoted demand in the high-performance computing (HPC) market. As the 3nm process has begun mass production, the 2nm process is scheduled to be put into use in 2025 and the advanced technology of CoWoS, these advanced technologies provide a solid technical foundation for generative AI and other high-speed computing applications.

According to the forecast of SEMI, revenue of the semiconductor market will show double-digit growth in 2024. This is mainly due to the continued demand for technology in generative AI, CoWos and other high-speed computing applications. On top of that, significant market growth also comes from advanced processes and 3D packaging.

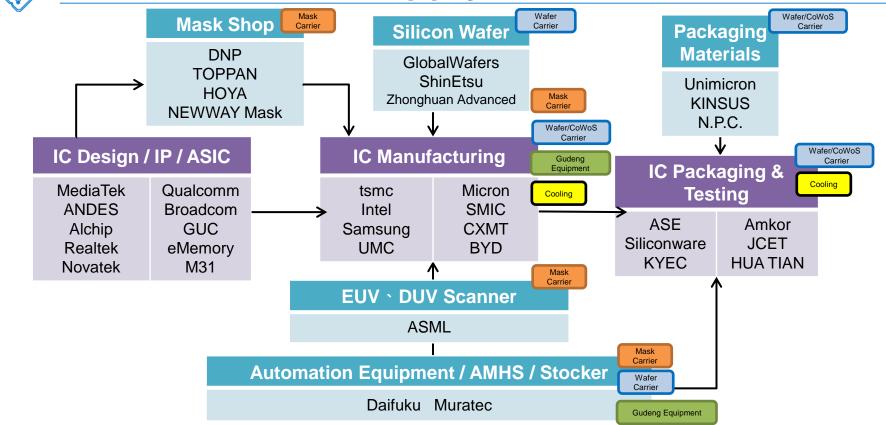


Source: SEMI Bloomberg Intelligence



Semiconductor Supply Chain

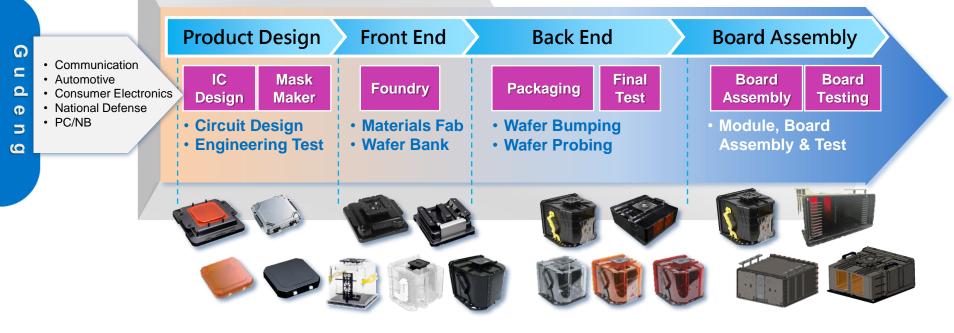








Semiconductor Production Process



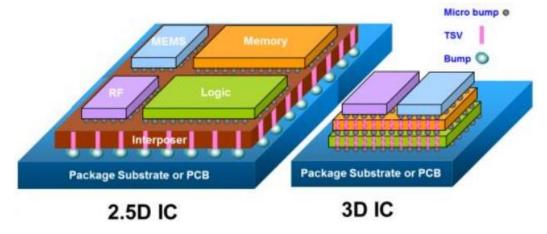


CoWoS Package



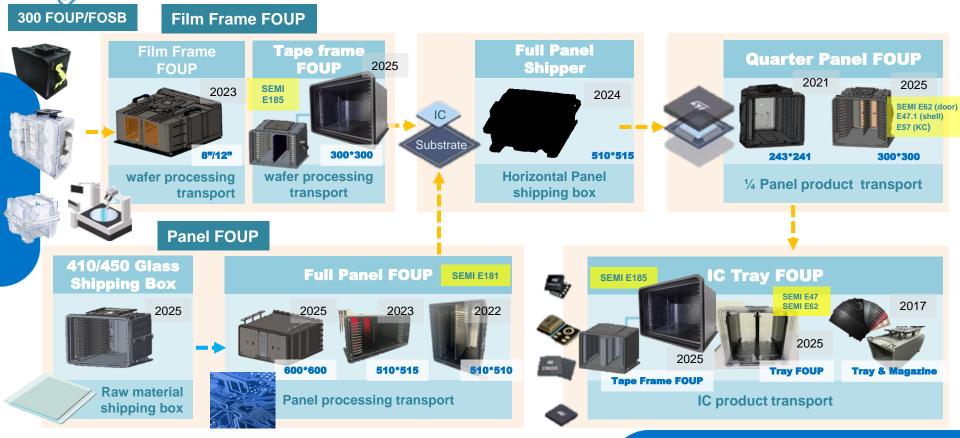
CoW stands for Chip-on-Wafer, meaning chip stacking. WoS stands for Wafer-on-Substrate meaning wafer staking on substrate. CoWoS simply means staking up chips then encapsulate on substrate. With CoWoS, it can reduce the space chips needed as well as power consumption and cost.

Advance package is considered as an important techniques to extend the lifespan of Moore's Law. It can increase the density of transistor and utilize the powerful and efficient computing power. Currently, the target customers are those with 7 nm process and below, like Apple, NVIDIA, and AMD. With that being said, the demand of CoWoS will have almost doubled growth.



CoWoS Package Product Line





2024/9/2

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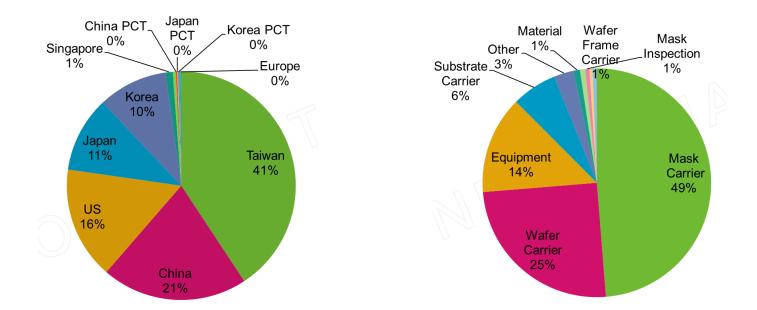
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Location





As of July 2024, obtain 652 patent and continue to build a high-tech patent layout

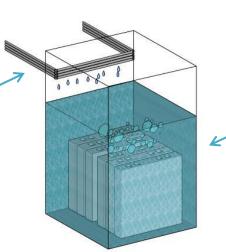




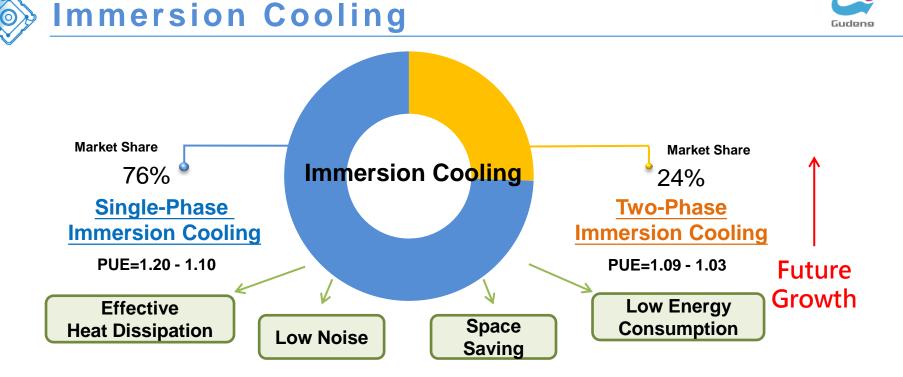
Immersion Cooling is to immerse the object in a non-conductive cooling liquid, and directly transfer the heat generated by the operation of electronic parts to the cooling liquid. Two-phase immersion cooling is the process of using low boiling point cooling, so as it achieves gasification, the gas-phase cooling liquid is condensed into liquid through a low-temperature metal pipeline above the cooling system and dripped back into the cooling liquid tank.

Compared with the traditional air cooling method, immersion cooling has many advantages, including higher heat dissipation efficiency and lower energy consumption. This technology can effectively meet the requirements of high-intensity calculation and operation.

The vaporized cooling liquid is condensed into liquid after contacting the condenser and drips back into the tank.



As server generates heat, it evaporates cooling liquid into gas.



Taiwan has complete advanced cooling technology in the world. About 90% of data center servers are supplied by manufacturers in Taiwan Province, and We Solutions cooperates with partners to jointly serve the AI market.







Two Phase Immersion Cooling Rack Cabinet

PUE 1.09 ~1.03

The closer PUE is to 1, the better power use, that is, all the power is used for computing

Automated Data Center

Provide safe operating environment, reduce costs, and ensure operating efficiency

High Technological Threshold

High evaporative liquid requires complete airtight system and high-precision automation equipment.

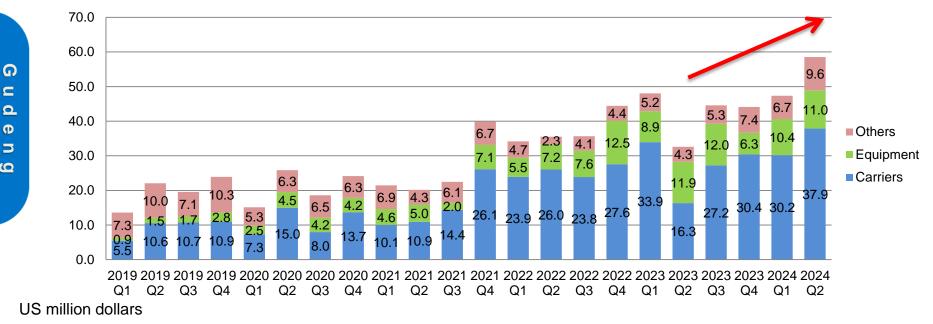
Real-time monitoring system

Monitor internal temperature, pressure, etc., adjust coolant flow, and provide real-time alarms





Consolidated Revenue



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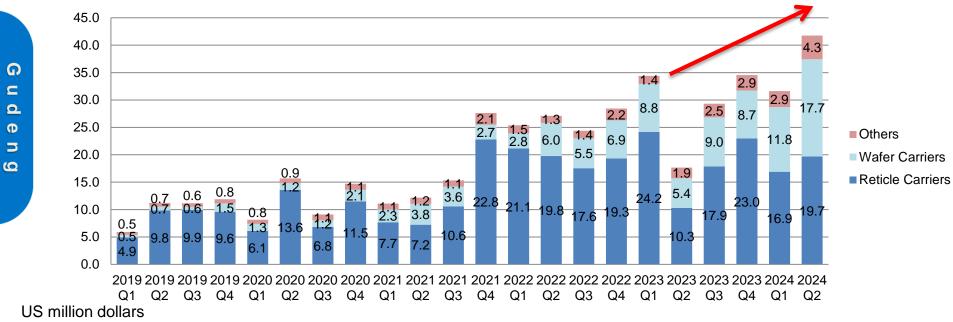
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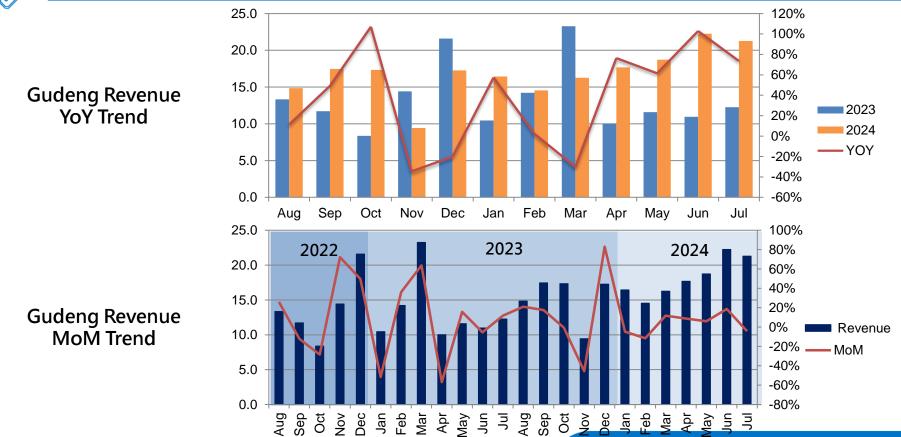
Core Business Revenue





US million dollar





2024/9/2

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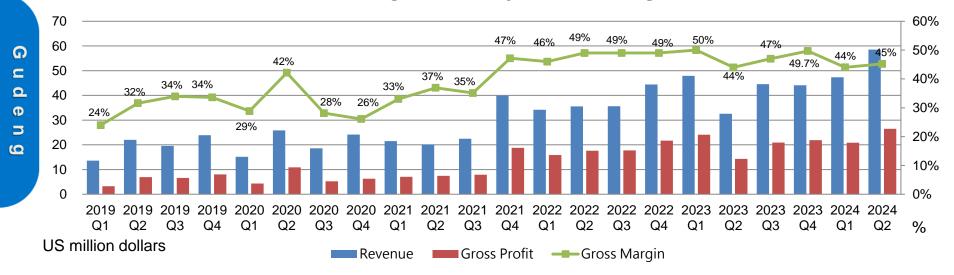
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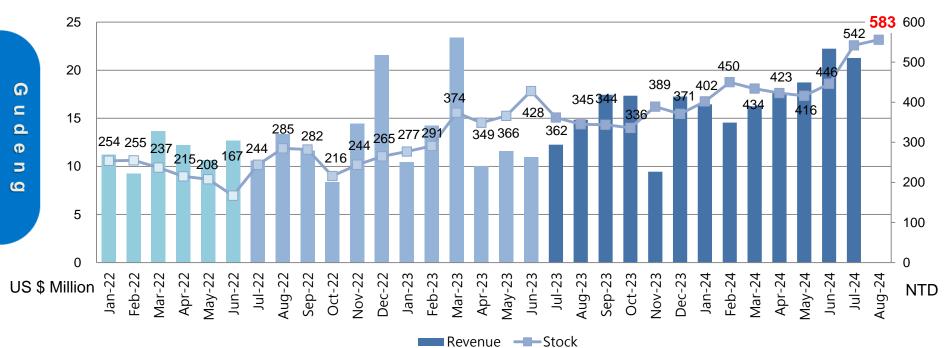
Gudeng Quarterly Gross Margin







Revenue/Stock



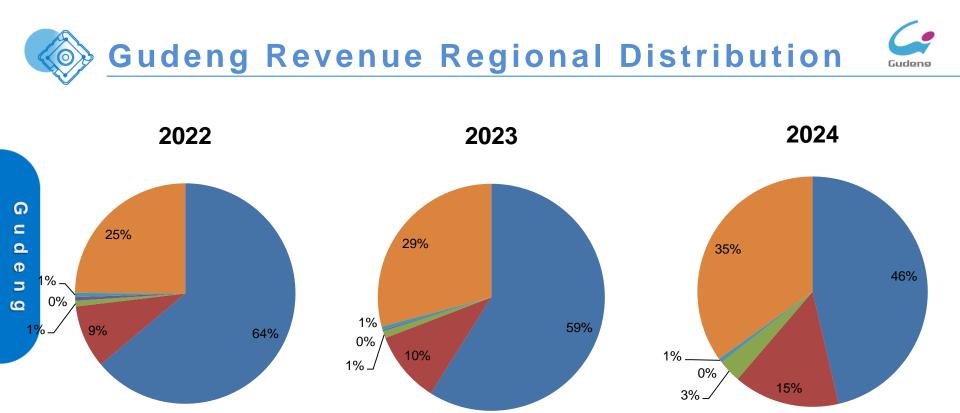




	US Dollar	2024						2023		
		Q1	YoY%	Q2	YoY%	Total	YoY%	Q1	Q2	Total
ה	Revenue	47,347,467	-1%	58,538,767	80%	105,886,233	31%	48,036,100	32,598,867	80,634,967
= 2_ 0	Cost	26,504,133	11%	32,057,900	74%	58,562,033	38%	23,905,600	18,446,100	42,351,700
2	Gross Margin	20,843,333	-14%	26,480,833	87%	47,324,167	24%	24,130,500	14,152,767	38,283,267
	OER EPS	28% 2.24		23% 3.00		25% 5.24		20% 3.94	33% 1.68	25% 5.6

Expense:

- 2024 Q2 Gudeng Equipment had capital increased, resulted increasing operating expenses and operating costs.
- To meet growth demands, M&A and related expenses have increased
- Due to demand from Greater China, the cost of import and export had increased.
- To increase production capacity, had purchase molds, machines and equipment, which depreciation had increased.
- Machine from Gudeng Equipment need to be adjusted, therefore temporary expense had happened and will be returned by Q4 2024.



■ Taiwan ■ US ■ Asia ■ Other ■ Europe ■ China



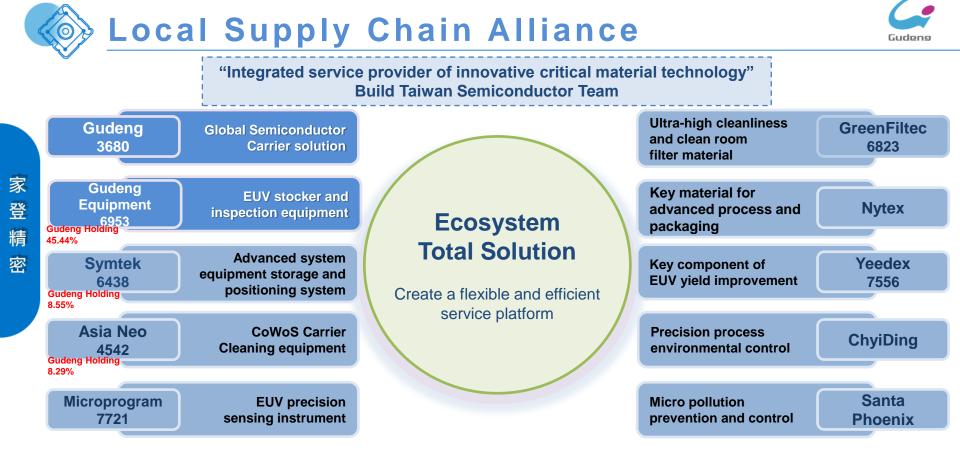
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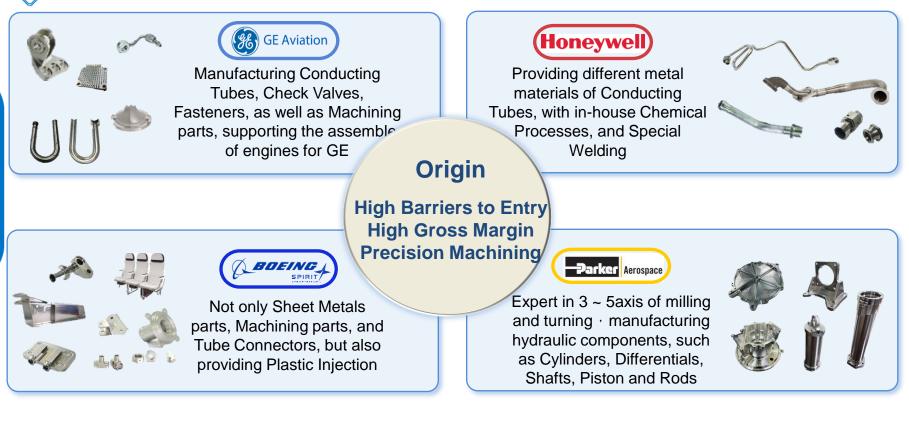
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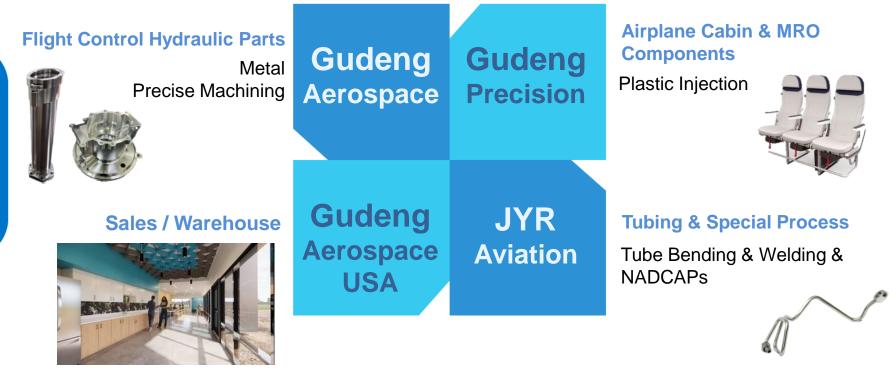
Major Customers & Products











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Gudeng Sustainability Performance





Salary Increase Rate 7~9% better than industry

2023 Reduce **33%** of Carbon Emissions



2023 Reduce 54% of Water Usage 2023 Reduce 21% of Industrial Waste

Homemade Eco-Friendly Pallets **Transport Cases**

Employees charity participating 382 times

Stipends reached 651 students



17多元夥伴關係

12 Industry-University Cooperation Items



2023 Revenue US\$162 million

2023 FPS 10.24 NTD

27TH

National Quality Awards



Verification TIPS A-Class > ISO22301 > ISO20400

Platinum Certification

RBA

2024/9/2

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Revenue Growth :

US\$ 32million in 2019, US\$ 145 million in 2022, US\$ 162 million in 2023. As of July 2024, revenue is about US\$ 127 million , YOY 37%

Steadily Gross Profit Margin :

Over 20% in 2018, 49% in 2022, 48% in 2023, 45% as of July 2024

Growth in EPS :

0.27 in 2018, 3.25 in 2019, 11.12 in 2022, 10.24 in 2023, 5.24 in Q2 2024

Increasing Market Share :

Reticle carriers 70% worldwide, EUV Pod 85% worldwide, FOUP qualified by major customers, and 50% up of the customers in Greater China region apply Gudeng as the baseline

Prospect and Strategy

- Increasing market share in Wafer Carrier, which bring growth in revenue
 - Focus on advance process and become the main supplier for key customers
- FOSB had gradually been verified and become the main focus of Gudeng Wafer Carrier
- Continuing expanding factories, guickly responds to demands and supply locally
- With development of CoWoS, shipment of Panel FOUP have steadily increased
- Improving cooling technology and stabilizing production processes 2025
 - Strong revenue contribution from FOSB
 - As released of Hi-NA EUV, customer base of EUV Pod have expanded
 - Gudeng Total solution lead the market, group challenge higher revenue
 - Key components completed verification and get long-term order from customers.
- 2026

2024

- Expending special process to complete Aerospace Roadmap
- Strong revenue growth from CoWoS
- Revenue contribution from Hi-NA EUV Pod
- Continuing focus on high-revenue markets and M&A





