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





2024.11

Partner with H.E.A.R.T., Grow with P.A.S.S.I.ON.

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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).

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Gudeng Company Overview





► 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 Oct Group Revenue: US\$ 182 million

(28%growth)

Semiconductor

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

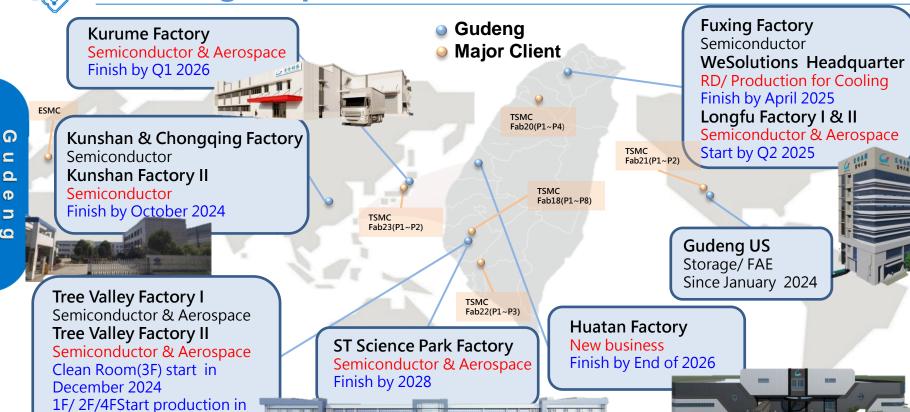
- Aerospace
- a. Hydraulic Cylinders
- b. Heat Conduction Tubes
- c. Dynamic Balancing Motor
- d. Thermal Conductivity
 Bead

2024/11/18

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Gudeng Expansion Plan





July 2025



Semiconductor Industry Outlook



With the maturity of generative AI and the increasing demand for related services, the development combining semiconductor and AI will drive the transformation and reconstruction of the global technology ecosystem. It is expected that the semiconductor market will be influenced by more AI policy factors after 2026.

MIC stated that AI applications have become the main driver of the global semiconductor market. With the explosive demand for AI chips, it is estimated that the global semiconductor market will reach a scale of 700-800 billion US dollars by 2027, and exceed 1 trillion US dollars by 2030.

In order to improve the overall performance and power efficiency of chips, advanced packaging technology plays a key role in integrating computing chips and memory. In addition, heat dissipation has become an important part of supporting the stable operation of electronic products under high-efficiency computing systems. Various factories have begun to plan and introduce different heat dissipation solutions to drive the development of related supply chains.



Source: MIC



The Impact of new US Government



- The new policy encourages local production and increases the cost of exporting from Taiwan to the United States
- Production needs to be done locally in the United States, resulting in increased factory construction and labor costs

Increase Import Tax China Local Production

- Due to trade War between US and China trade, Gudeng has become the first choice for customers in Greater China, and its market share in Greater China continues to rise
- Gudeng planed ahead in laying out the local production base of Greater China, reducing the risk of material breakage due to political factors.

- There is a significant gap in work culture between the United States and Taiwan, resulting in increased costs
- Need to consider the delivery location of raw material or whether to re-evaluate local suppliers.

Cost of Produce Locally

Demand Increase

 As new government encourages the development of AI industry, and the demand for high-efficiency computing chips and related products also increases.



Key Customer Advance Packaging Plan



Japan Fab(P1~P2)

6/7/12/16/22/28 Nano

P1: Start production by end of 2024

P2: Start production by end of 2026

Germany Fab

12/16/22/26 Nano Start production by 2027

Chiayi Fab

Expand Advance Packaging Start production by 2026

Fab18(P1~P8)

5/4/3 Nano Expanding 3 Nano

Fab22(P1~P3)

2 Nano

Fab21(P1~P3)

4/3 Nano

P1: Start production by 2025

P2: Start production by 2027

P3: Start production by

Fab20(P1~P4)

2 Nano

Start production by 2025

Taichung Fab

2 Nano Finished by 2027

Miaoli Fab

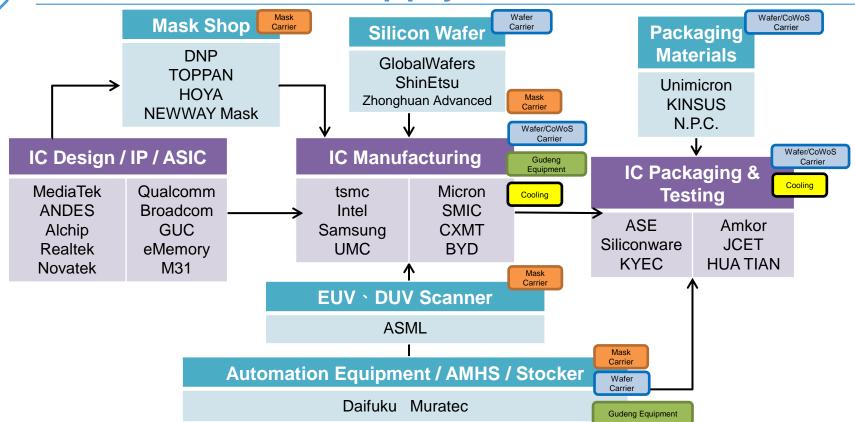
Expand Advance Packaging

TSMC has advanced process layout in Taiwan and abroad, among which high-level process and packaging technology are rooted in Taiwan.



Semiconductor Supply Chain







Gudeng Total Solutions



Semiconductor Production Process

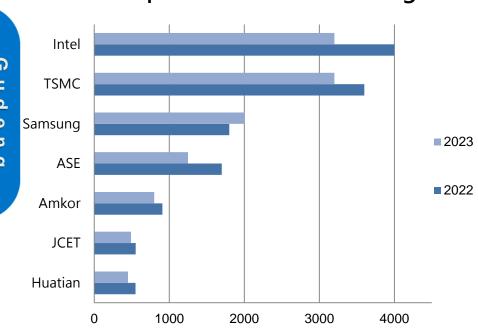
Product Design Front End Back End Board Assembly Communication IC Mask Final **Board** Board Automotive **Foundry Packaging** Consumer Electronics Assembly Design Maker Test **Testing** · National Defense PC/NB **Circuit Design** · Module, Board Materials Fab Wafer Bumping **Engineering Test** Wafer Bank **Assembly & Test** Wafer Probing



Development Plan of Advance Packing







To continue improving the manufacturing of chip, Advance Packaging has become the key technic

Moore's Law:

 The number of transistors that can be accommodated on the chip is doubled every 18 months, which the processing efficiency has doubled.

Industry Status:

- With the improvement of product performance requirements, the initial micrometer process is gradually approaching 3 nanometers and 2 nanometers, but the chip line width process has reached its limit.
- New Solution from Leading Semiconductor Companies >Advanced Packaging

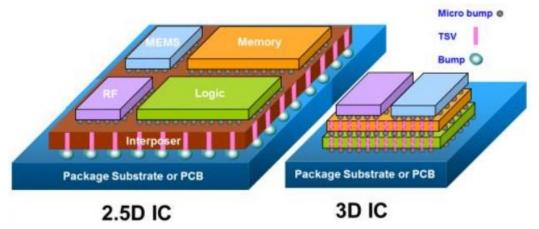


Advance Packaging



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.

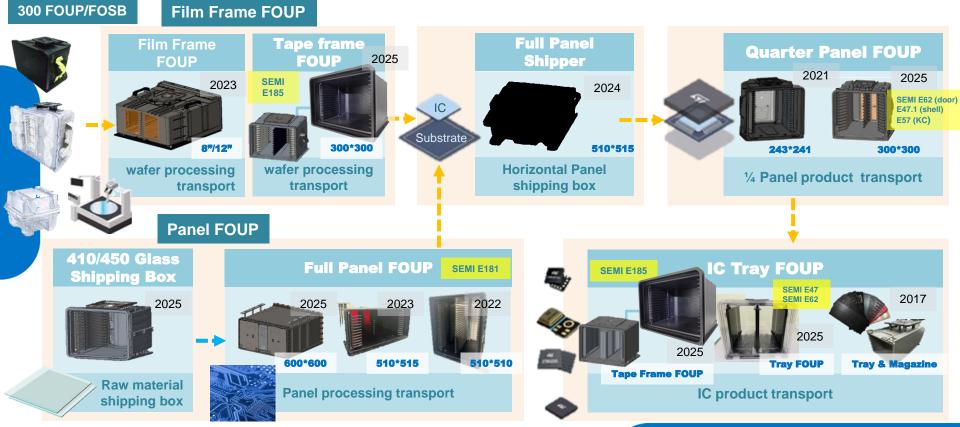
Advance package is considered as an important techniques to extend the lifespan of Moore's Law. It can increase the density of transistor and utilize the powerful and efficient computing power. Currently, the target customers are those with 7 nm process and below, like Apple, NVIDIA, and AMD. With that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





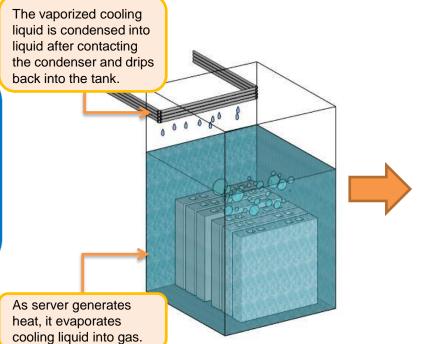
Advance Packaging Product Line





Immersion Cooling (ESG Issue)





PUE 1.09 ~1.03

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

High Technological Threshold

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

Automated Data Center

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

Real-time monitoring system

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

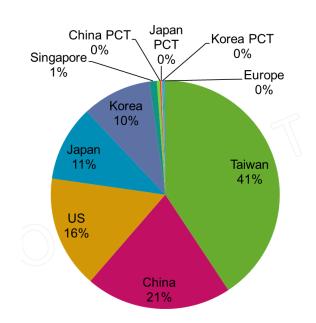
Two Phase Immersion Cooling Rack Cabinet



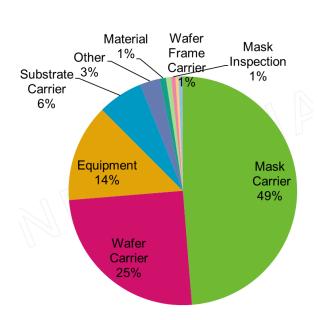
Gudeng Patent



Location



Product

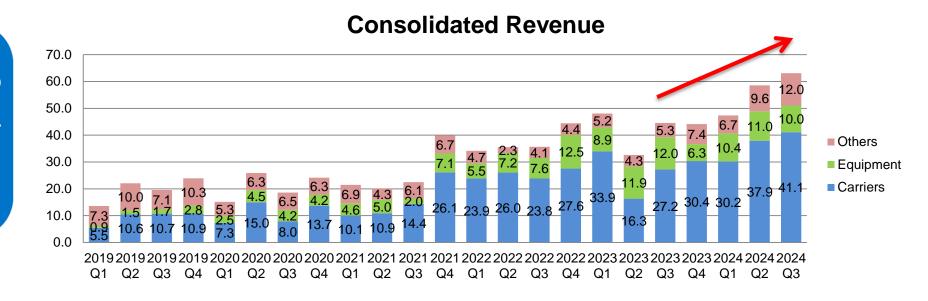


As of October 2024, obtain 682 patent and continue to build a high-tech patent layout



Gudeng Group Revenue (Quarterly)



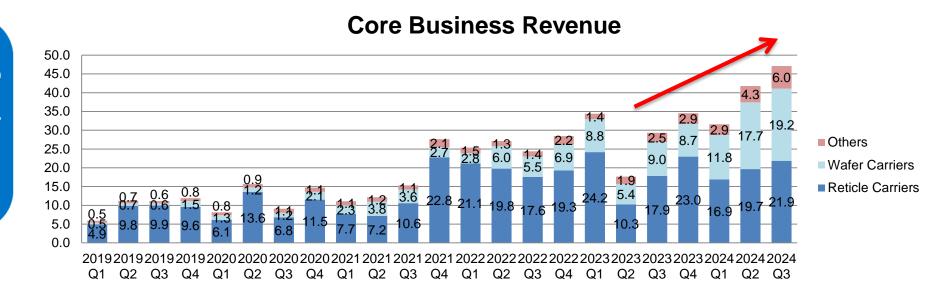


US million dollars



Gudeng Revenue (Quarterly)





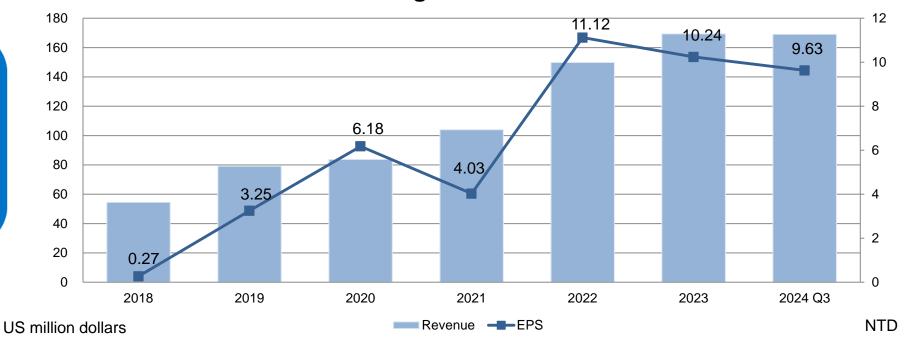
US million dollars



Gudeng Annual Revenue Performance



Gudeng Revenue/ EPS

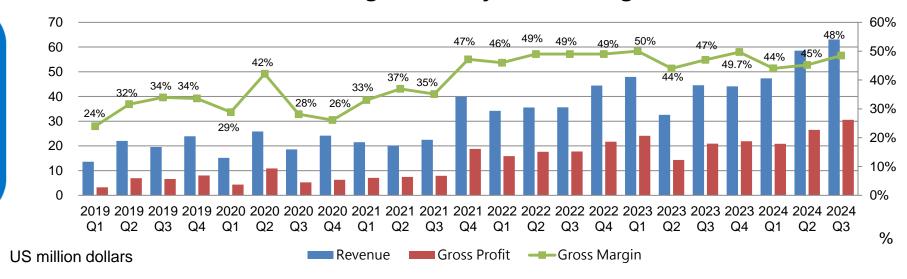




Gudeng Gross Margin (Quarterly)



Gudeng Quarterly Gross Margin



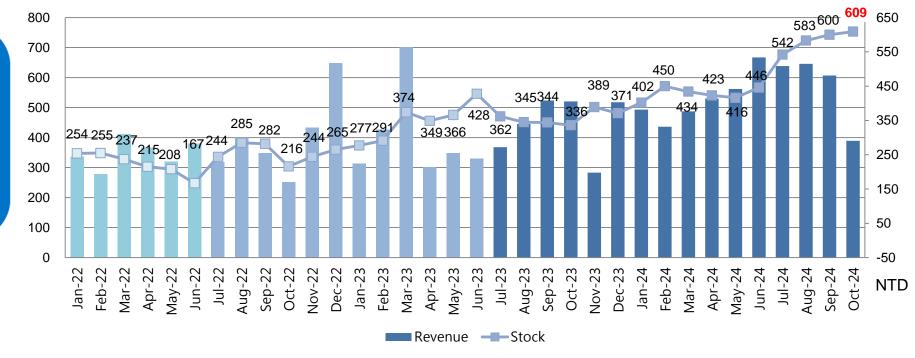
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Gudeng(3680)Stock Price Trend



Revenue/Stock





Gudeng Group Revenue/ Gross Margin/ CapEx/ 🚄 Asset



Year	Revenue	Gross Profit	Gross Margin	EPS	CapEx	Asset
2019	79,000	25,000	32%	3.24	3,167	160,667
2020	83,667	26,667	32%	6.18	37,667	207,667
2021	104,000	41,333	40%	4.03	68,700	316,667
2022	149,667	73,000	49%	11.12	24,367	406,667
2023	169,333	81,333	48%	10.24	43,467	543,000
2024 Q3	169,000	77,867	46%	9.63	42,467	644,300

US million dollars





Gudeng Expense and Margin Ratio



US Million Dollar	2024							2023				
	Q1	YoY%	Q2	YoY%	Q3	YoY%	Total	YoY%	Q1	Q2	Q3	Total
Revenue	47.35	-1%	58.54	80%	63.13	42%	169.02	31%	48.04	32.60	44.57	125.20
Cost	26.50	11%	32.06	74%	32.57	39%	91.13	38%	23.91	18.45	23.47	65.82
Gross Profit	20.84	-14%	26.48	87%	30.57	45%	77.89	24%	24.13	14.15	21.1	59.38
OER EPS	28% 2.24		23% 3.00		23% 4.39		25% 9.63		20% 3.94	33% 1.68	30% 1.94	28% 7.56

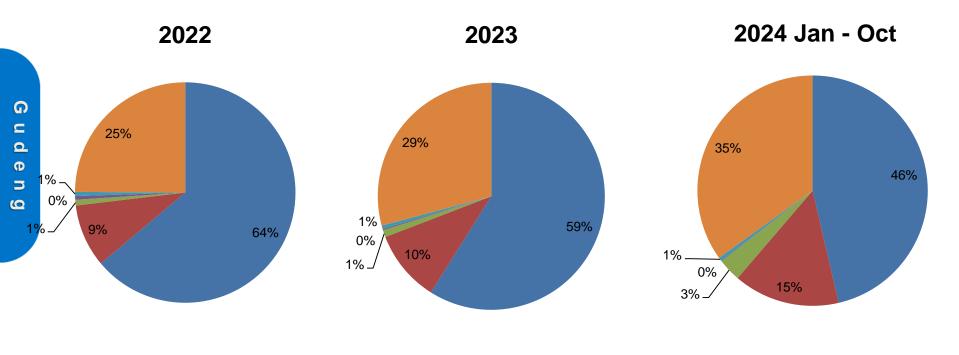
2024 Q3 Expense:

- To meet growth demands, M&A and related expenses have increased
- Due to demand from Greater China, the cost of delivery and related fee had increased.
- To increase production capacity, had purchase molds, machines and equipment, which depreciation had increased.



Gudeng Revenue Regional Distribution





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



Distribution of Gudeng's Customers



Logic/Power Foundry&IDM.



Memory Foundry&IDM.



Equipment



A H K K

Reticle / Mask

and Test)



Local Supply Chain Alliance



"Integrated service provider of innovative critical material technology"

Build Taiwan Semiconductor Team

Gudeng **Global Semiconductor** 3680 **Carrier solution** Gudeng **EUV** stocker and **Equipment** inspection equipment 6953 Gudeng Holding 45.44% **Advanced system Symtek** equipment storage and 6438 positioning system **Gudena Holdina** 8.57% **Asia Neo CoWoS Carrier** 4542 Cleaning equipment **Gudeng Holding** 7.61% **Microprogram EUV** precision

sensing instrument

Ecosystem Total Solution

Create a flexible and efficient service platform

Ultra-high cleanliness GreenFiltec and clean room 6823 filter material **Key material for Nytex** advanced process and packaging Yeedex Key component of **EUV** yield improvement 7556 **Precision process ChyiDing** environmental control **Gudeng Holding** 1.72% Santa Micro pollution prevention and control **Phoenix**

7721



Gudeng Growth Blueprint-Highlights



2024 ~

EUV Pod

With the continuous expansion of advanced process, related demand is growing.

2025 Q3 ~

CoWoS Carrier

Our complete solution of CoWoS and back-end 3D package leads the world.

2025 Q3 ~

New Technique

Continue to develop new technologies and expand new markets.



Wafer Carrier Solutions

The market share of our series of wafer carrier is rising worldwide.



2026 ~

2024 ~

Aerospace Pioneer

Constantly expand customer base and challenge doubling revenue growth this year.



Co-Creation

9



Major Customers & Products







Manufacturing Conducting
Tubes, Check Valves,
Fasteners, as well as Machining
parts, supporting the assemble
of engines for GE

Honeywell

Providing different metal materials of Conducting Tubes, with in-house Chemical Processes, and Special Welding



Origin

High Barriers to Entry
High Gross Margin
Precision Machining





Not only Sheet Metals parts, Machining parts, and Tube Connectors, but also providing Plastic Injection



Expert in 3 ~ 5axis of milling and turning · manufacturing hydraulic components, such as Cylinders, Differentials, Shafts, Piston and Rods





Aerospace Strategy Roadmap



Flight Control Hydraulic Parts



Metal Precise Machining

Gudeng Aerospace

Gudeng Precision

Airplane Cabin & MRO Components

Plastic Injection



Sales / Warehouse



Gudeng Aerospace USA JYR Aviation

Tubing & Special Process

Tube Bending & Welding & NADCAPs



ESG Report

2024/11/18

Gudeng Sustainability Performance





2023 Reduce 33% of Carbon Emissions

2023 Reduce **54%** of Water Usage

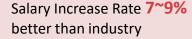
2023 Reduce21% of Industrial Waste







Homemade Eco-Friendly Pallets
Transport Cases



Employees charity participating 382 times

Stipends reached **651** students







12 Industry-University Cooperation Items



2023 Revenue US\$162 million

2023 EPS

10.24 NTD

RBA

Platinum Certification

27TH

National Quality Awards





Verification
TIPS A-Class > ISO22301 > ISO20400



Gudeng Overall Performance



Revenue Growth:

US\$ 32 million in 2019, US\$ 145 million in 2022, US\$ 162 million in 2023. As of Oct 2024, revenue is about US\$ 182 million, YOY 28%

Steadily Gross Profit Margin:

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

Growth in EPS:

0.27 in 2018, 3.25 in 2019, 11.12 in 2022, 10.24 in 2023, 9.63 in Q3 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

2024

- 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, quickly responds to demands and supply locally
- With development of CoWoS, shipment of Panel FOUP have steadily increased

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, get long-term order from customers, and expanding special process to complete Aerospace Roadmap

2026

- Strong revenue growth from CoWoS
- ◆ Revenue contribution from Hi-NA EUV Pod
- ◆ Continuing focus on high-revenue markets and M&A















