

# Gudeng Precision Industrial Co. Ltd

## 家登精密工業股份有限公司



2023.3

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

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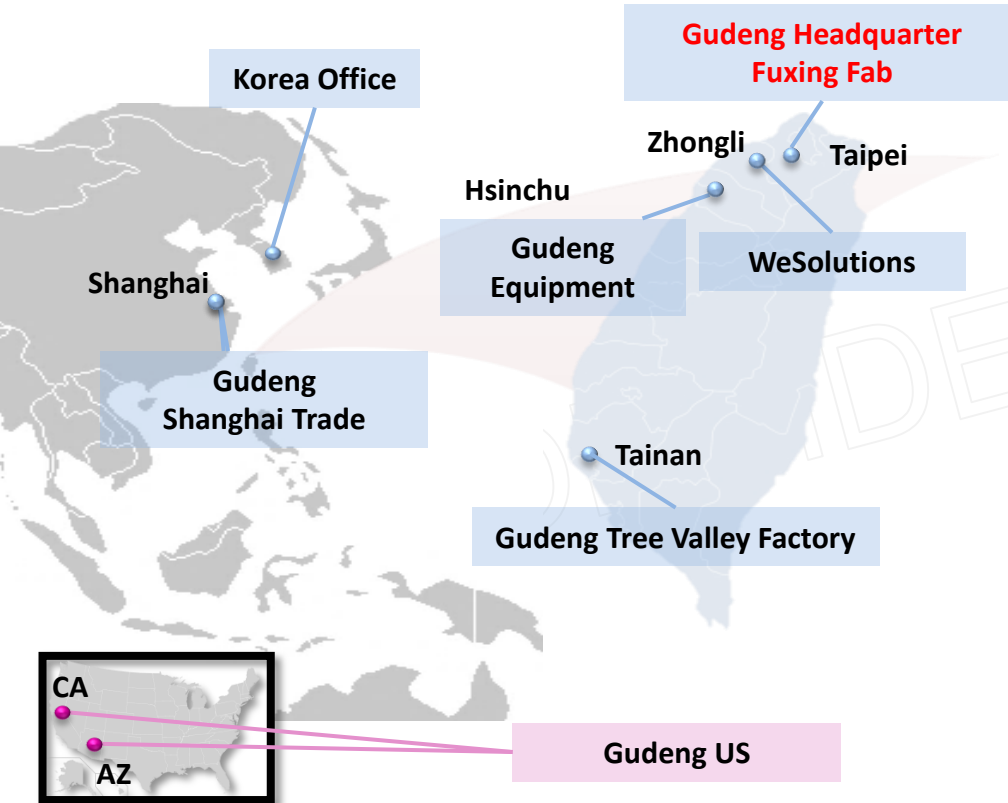
# Safe Harbor Notice



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 forward-looking 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



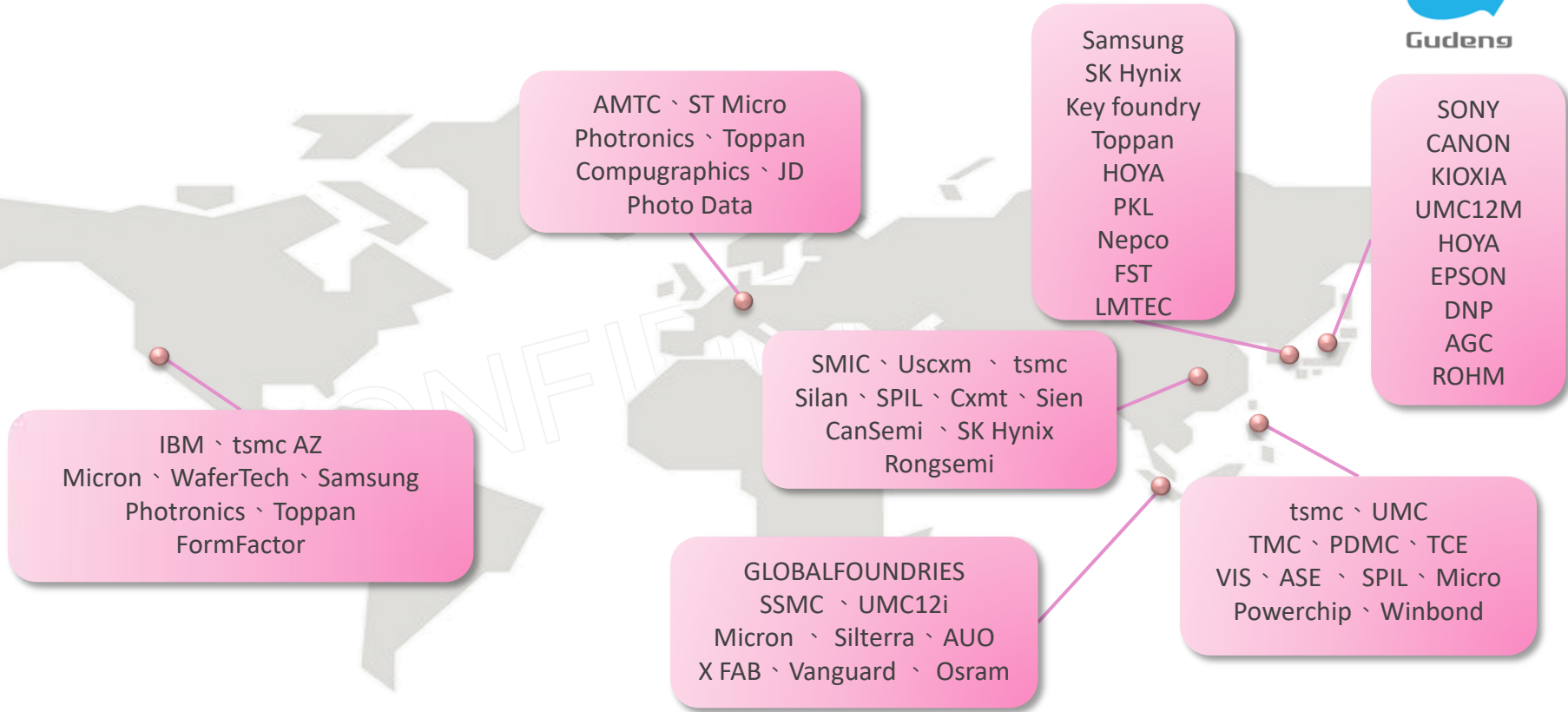
- ▶ Established : Mar. 20<sup>th</sup> , 1998
- ▶ Employee : **815**
- ▶ Capital : US\$ **28** million
- ▶ **2020** Group Revenue : US\$ **83** million
- ▶ **2021** Group Revenue : US\$ **104** million
- ▶ **2022** Group Revenue : US\$ **150** million
- ▶ Main Product :

## Semiconductor

- Mask Handling Solutions
- Wafer Handling Solutions
- Equipment
- Other Service

## Aerospace

# Customers



# Gudeng Total Solutions



Mask Carriers



Wafer Carriers



Logistic Automation Solutions



## Product Application

	Product Design	Front End	OSAT/ Back end
	IC Design / Mask maker	Foundry/ IDM	Assembly/ Wafer sorting/ Final Test
Mask Carriers	V	V	V
Wafer Carriers		V	V
Automation	V	V	

# Gudeng Total Solutions

Semiconductor Mature to Advanced Process

Gudeng Key Wafer Carriers

Process : 12" FOUP

Shipping : FOSB

Packaging : FP FOUP



## Semiconductor Production Process

Product Design

Front End

Back End

Board Assembly

IC Design

Mask Maker

Foundry

Wafer Sort

Assembly

Final Test

Board Assembly

Board Testing

- Communication
- Automotive
- Consumer Electronics
- National Defense
- PC/NB

- Circuit Design
- Engineering Test

- Materials Fab
- Wafer Bank

- Wafer Bumping
- Wafer Probing

- Module, Board Assembly & Test



# 3D Advanced Packaging FP FOUP



- To continue the validity of Moore's Law, 3D advanced packaging technology has begun to enter a rapid growth
- 2021 3D packaging global capex will reach 11.9 billion US dollars, with a high growth rate in the next three years
- Gudeng is the first to develop 3D advanced packaging 510 FOUP, with market leadership and pricing power



- ❑ High-efficiency protection for 510x510 PCB during transportation and storage
- ❑ Maintain a clean environment with low humidity inside the FOUP, effectively reducing the risk of PCB contamination
- ❑ Compatible with AGV transportation

## Market

Taiwan: tsmc 、 Unimicron 、 NanYa PCB 、 KINSUS  
Overseas: INTEL 、 Ibsiden 、 Samsung 、 AT&S

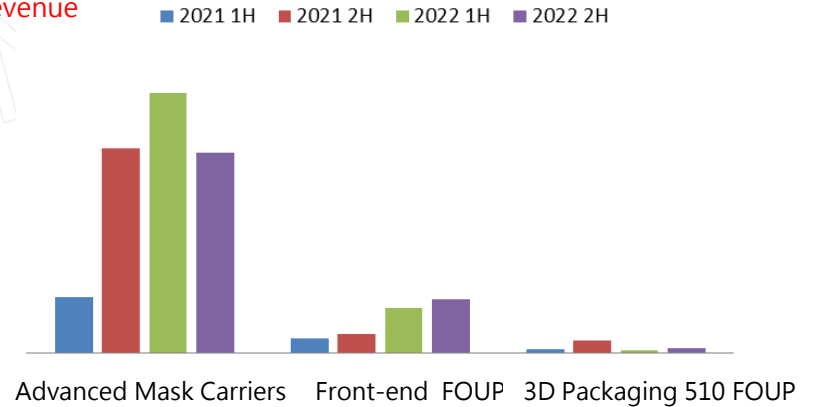
# Gudeng Revenue



## 2022 Jan.~Dec. Key Product Revenue Performance :

Advanced Mask Carriers US\$ **52** million **50% of the carrier revenue**  
 RSP Carriers US\$ **19** million **18% of the carrier revenue**  
 FOUP US\$ **19** million **18% of the carrier revenue**

	2021 1H	2021 2H	2022 1H	2022 2H
Product	Revenue			
Advanced Mask Carriers	6,344,557	23,425,144	29,680,599	22,908,274
Front-end FOUP	1,643,997	2,092,293	5,084,396	6,172,400
3D Packaging PCB FOUP	392,933	1,394,900	226,100	470,204
<b>Total</b>	<b>8,381,487</b>	<b>26,912,337</b>	<b>34,991,095</b>	<b>29,550,878</b>



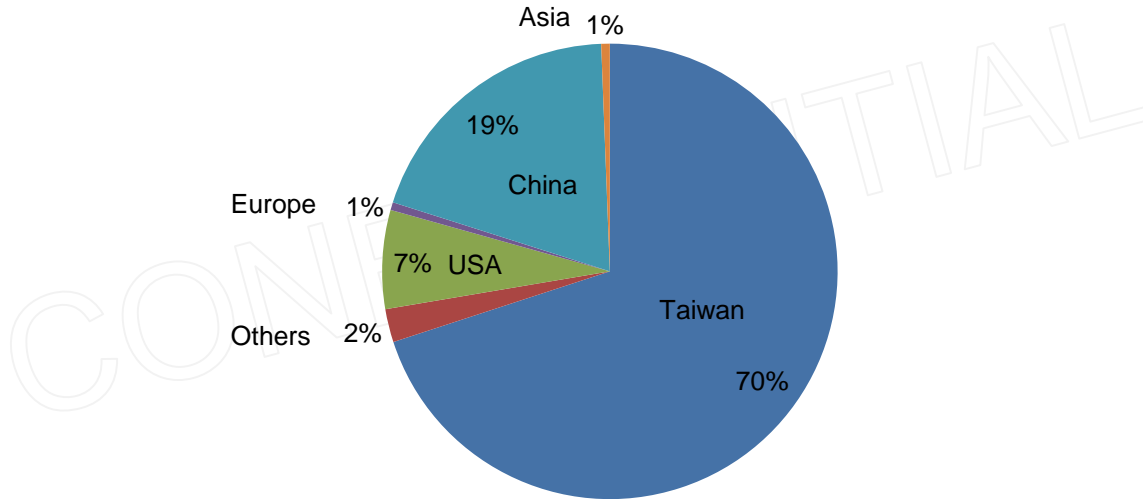
US dollars



# Gudeng Revenue



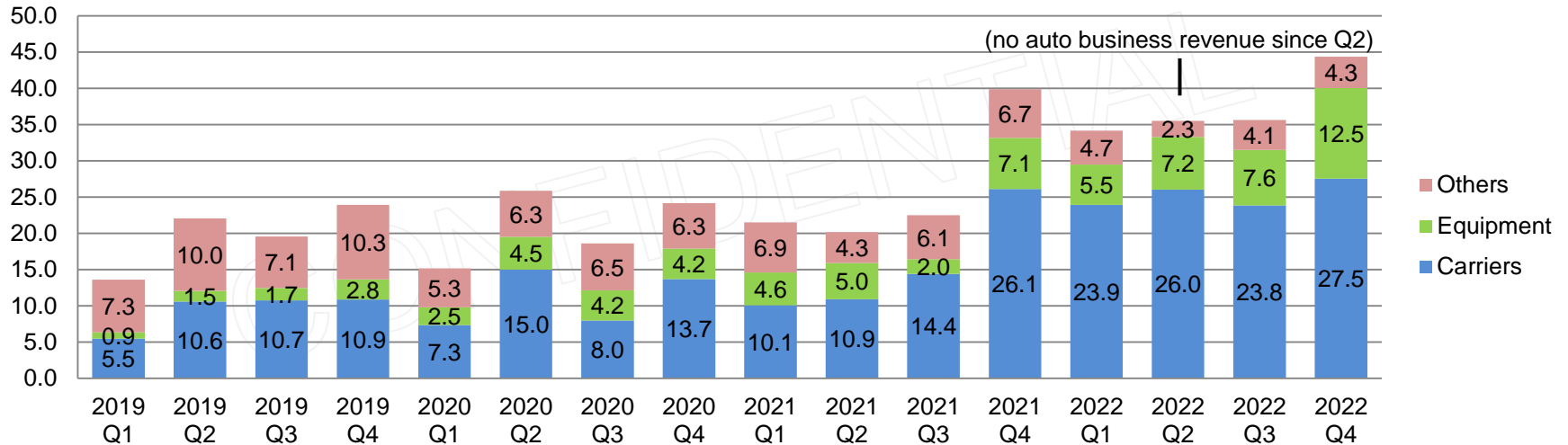
## 2022 Gudeng Revenue



# Gudeng Revenue by quarter



## Consolidated Revenue



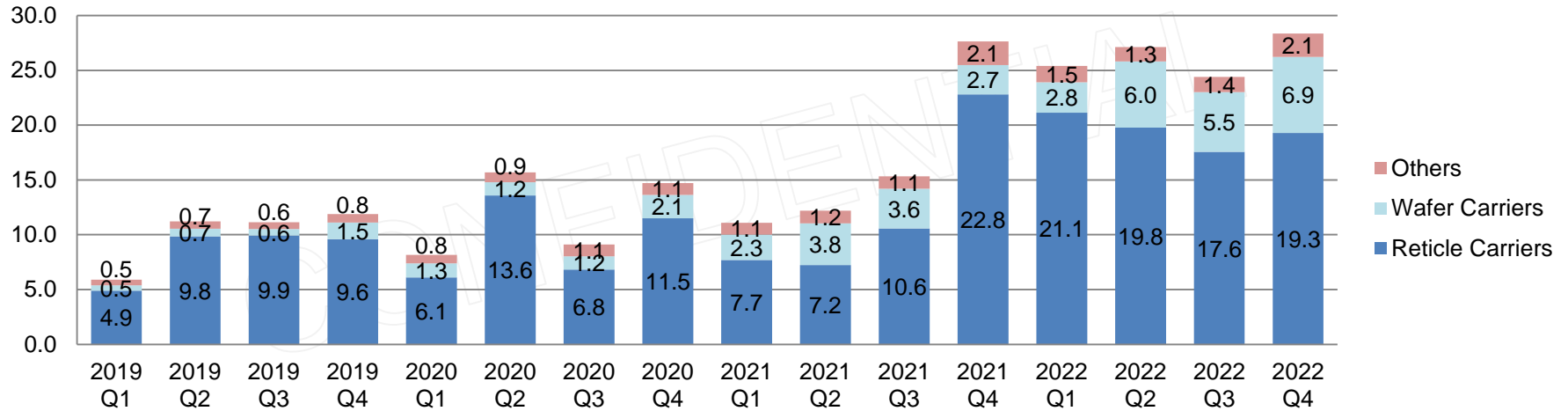
US million dollars

2022 Jan. US \$11 million revenue including auto business about 1.3 million  
 2023 Jan. US \$10.4 million revenue with no auto business  
 2022 Feb. US \$9.2 million revenue including auto business about 0.5 million  
 2023 Feb. US \$14 million revenue with no auto business

# Gudeng Revenue by quarter



## Core Business Revenue



US million dollars

# Gudeng Development Plan



## Hi-NA EUV Worldwide Provider

- EUV Phase 2
- Smart Temperature & Vibration Detection



## Mature Wafer Carriers

- FOSB
- Glass Box



## Advanced Wafer Carriers

- Diffuser FOUP
- HD FOUP
- Frame Cassette
- 3D Packaging FOUP



## New Material & Technology

- **Equipment**
  - Carrier Cleaning
  - Stocker Solutions
- **Inspection**
  - VOC Inspection
- **Precise Machining**
  - Reticle Stage

# Gudeng Core Competition



- Close relationship to customer
- Flexible manufacturing ability
- Rapid response toward customer needs
- 24-hours service for tier 1 customer
- With outstanding R&D talent
- Intensive training program for employees
- Project-base organization



# Gudeng ESG Performance



## Management



2022 Revenue  
**US\$150** million

2022 EPS  
**11.12**

Customer Satisfaction  
**80.82** score

CGV Ranking  
**2<sup>nd</sup> grade**



**TOP 100**  
High Value Enterprises List

## Social

Salary Increase Rate **>9%**  
better than industry



Charity Donation  
**US\$0.06** million

Medical Donation  
**US\$0.13** million

**8** Industry-University  
Cooperation Items



## Environment

Annual Power Savings  
**55,604** kWh



Annual Water Savings  
**30,091** tons

Complete **RO Water**  
System Project



Fully adopted  
**Hybrid Cars**

Fabs  
**Smart Electric Meters**

Homemade **Eco-Friendly Pallets**



# Gudeng Strategies Overview



- Gudeng business covers the world and remains strong growth power
- China Market :
  - ◆ Reticle and wafer carriers 'market share continue to grow and take the place of other suppliers
  - ◆ Capacity is sufficient to support the entire China market
  - ◆ Accelerate the production base plan in China
- US Market :
  - ◆ Focus on advanced processes and aim to become single source of key customers
  - ◆ EUV, 3D packaging(Panel FOUP) shipments are steadily increasing
- Taiwan Market :
  - ◆ Following Taiwan major customer global plan, Gudeng has become its main global supplier
  - ◆ Wafer carriers certification completed by key customer, driving global customers to follow up
- Gudeng subsidiary – Gudeng Equipment, 2023 Q1 public release, 2024 IPO, will grow simultaneously with carriers
- Aerospace materials have completed verification and started shipping, with significant revenue in 2023 and double-speed growth in 2024



Thank You  
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