

Tongtai Machine & Tool Co., Ltd.

– "AI Industry Chain" Investor Conferences and Industry Seminar -

Time August 21, 2024 (Wednesday) 14:00 - 14:40

Location Taipei 101, 1st Floor, Taiwan Stock Exchange Press Conference Room

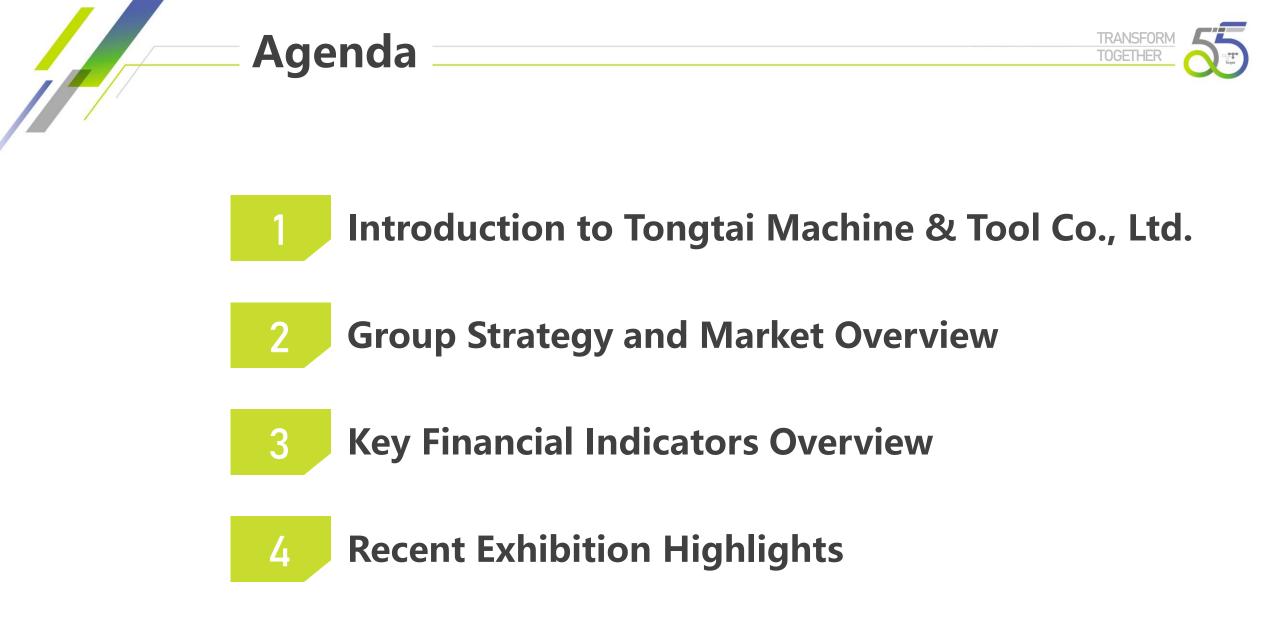


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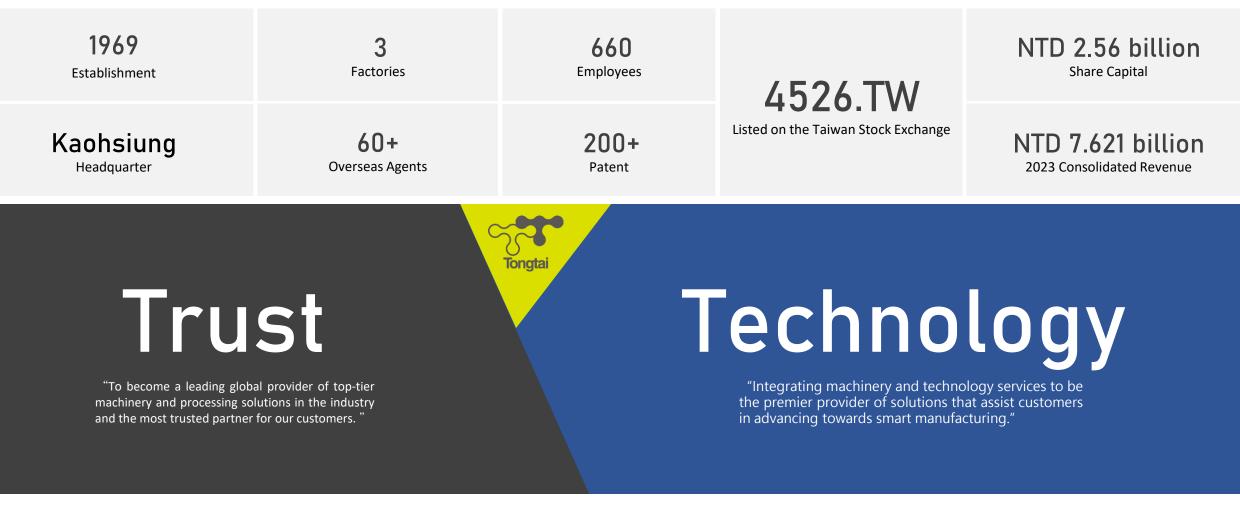
Introduction to Tongtai Machine



About Us

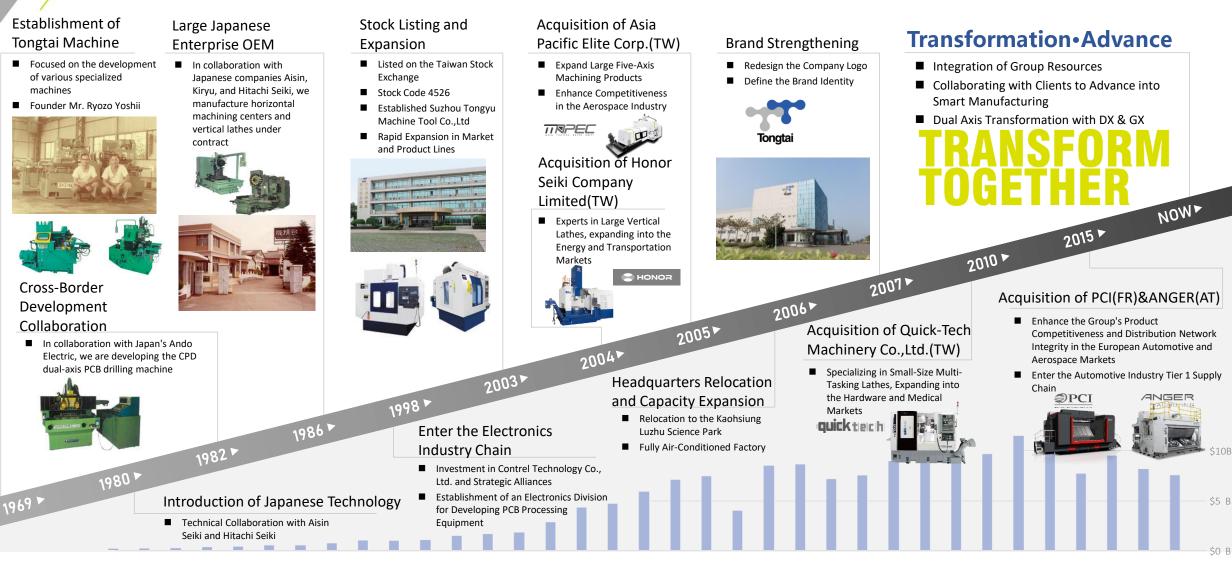


Tongtai Key Terms and Value Proposition





Historical Development





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Product Strategy Overview





- Standard Specifications
- Standard Options
- Custom Options





- Particular Workpieces
- Particular Industry

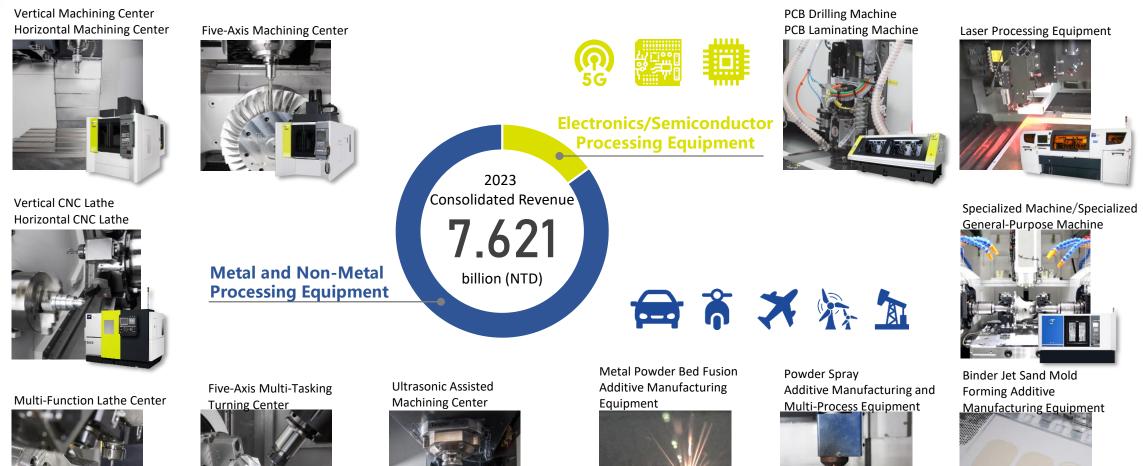


- I1: Turnkey Projects and Testing
- I2: Controllers, Sensors, and Intelligent Functions
- I3: Single Machine/Complete Line/Factory Automation and Smart Solutions



Introduction to Key Products The most comprehensive product line, spanning metal/non-metal

processing and the electronics and semiconductor industries



LIROUP

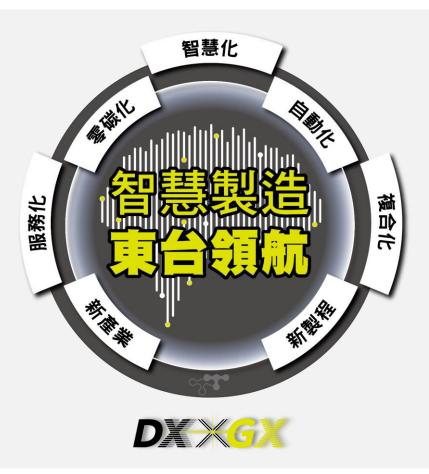
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Core Value – Solution Provider





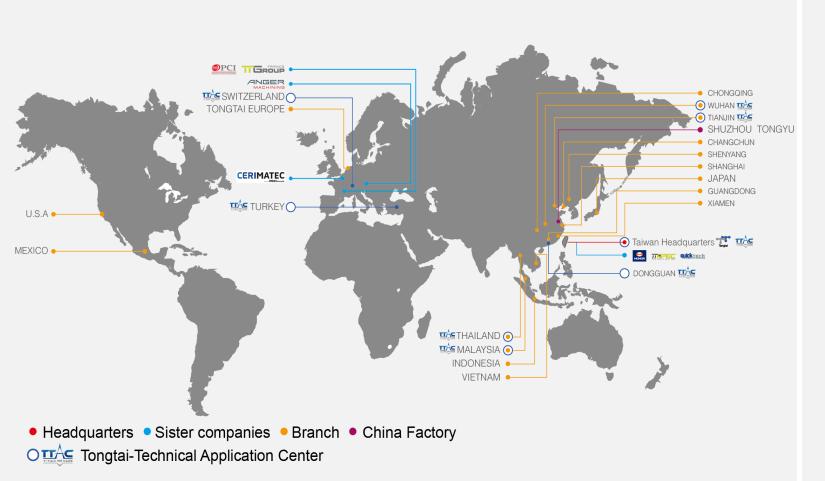


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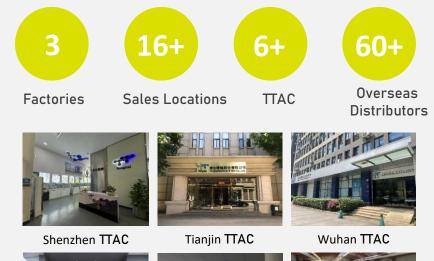
Tongtai Machine Global Network





Global Network

Tongtai Machine operates 3 manufacturing factories, 16 direct sales locations and subsidiaries, 6 technical application centers (TTAC), and has over 60 overseas distributors. This extensive network enables us to provide you with the fastest and most professional sales and maintenance services







Turkey TTAC



Thailand TTAC

Switzerland TTAC





Transformation · Advance

Strengthen DX and GX Dual Axis Transformation, and Promote and Implement ESG

Carbon Reduction Ambitions

Tongtai's carbon reduction achievements contribute 1.452°C to global warming, meeting the Paris Agreement's requirement of staying below 1.5°C. Among thousands of companies in Taiwan, we are ranked 58th, demonstrating exceptional carbon reduction results



Honors and Awards

- Top 100 Taiwan Brands
- Ministry of Economic Affairs' Industrial Excellence Award
- Emerging Mid-sized Enterprise" or "Promising Mid-sized Company
- National Brand Yushan Award
- Taiwan Excellence Award
- Tool Machine Research and Development Innovation Award
- Workplace Equality Excellence Award
- Kaohsiung Model Leadership Award
- Ding-Ge Award for Smart Manufacturing Transformation

Employees and Society

Tongtai values employee rights, providing education and training while fostering a supportive work environment. At the same time, we actively engage in social welfare and collaborate extensively with the industry, government, and academic institutions to create a better future together







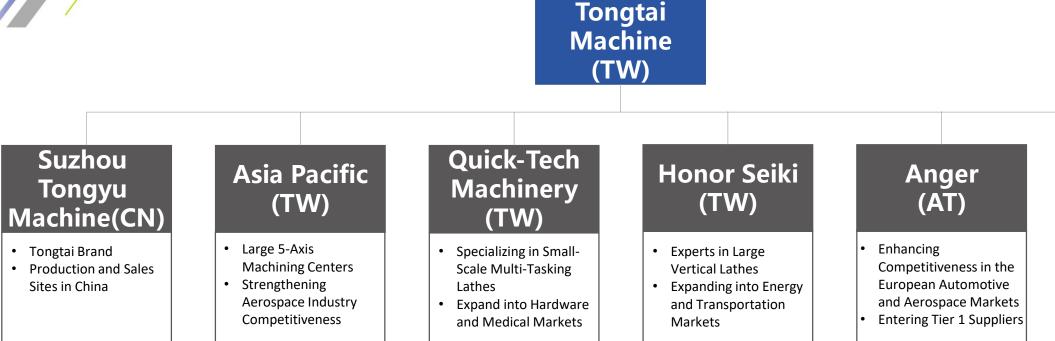


Group Strategy & Market Overview



Group Organization Overview

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100%

Sites in China

99.83%

99.14%

44.88%

PCI (FR)

- Enhancing Competitiveness in the **European Automotive** and Aerospace Markets
- Entering Tier 1 ٠ Suppliers

100%

100%

Cerimatec (FR)

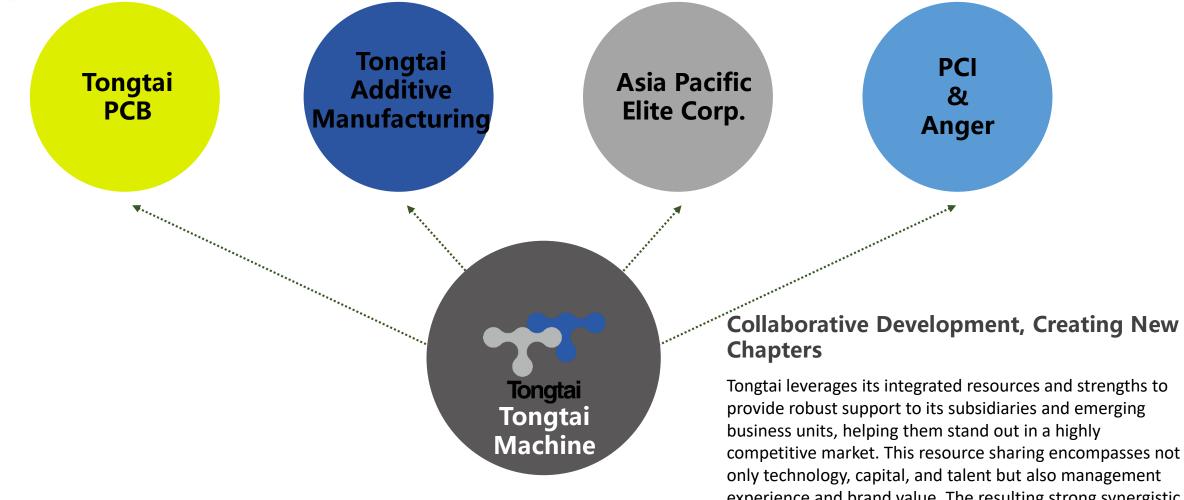
• Providing Integrated Automation and Smart Manufacturing Solutions with Hardware and Software

100%



Resource Sharing, Creating New Opportunities







Industry Focus Overview

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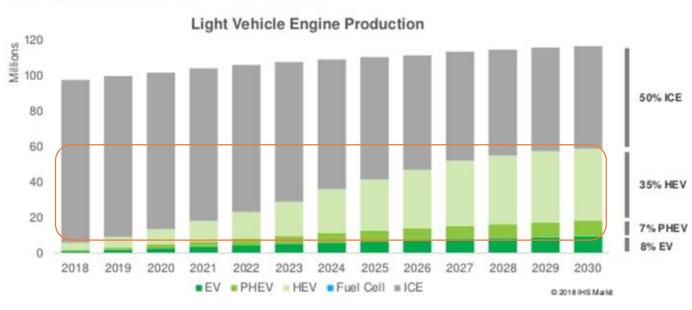
Automobile

Aerospace

Medical

Electronic Semiconductors

Global Automotive Market



Pure electric vehicles are still under development, while hybrid electric vehicles (HEV & PHEV) are capturing key growth opportunities. Tongtai continues to focus on local production needs for engines, chassis, brake systems, and wheel hubs.

- With the increasing electronic integration in automotive interiors, Tongtai is targeting the processing needs for critical alloy components.
- Geopolitical tensions have led to shorter supply chains, prompting Tongtai to concentrate on overseas manufacturing facilities for key clients and to strengthen its presence in Southeast Asia.

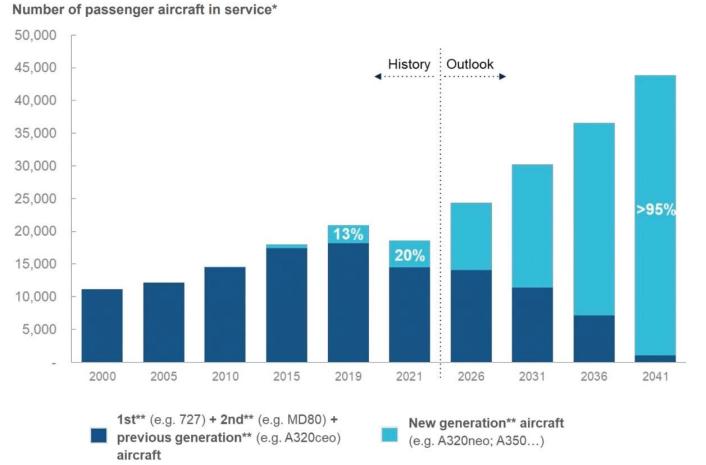
Data Source: IHS Markit Marklines



EV vs ICE growth, a gradual take over

Global Aerospace Market

By 2041, nearly 95% of aircraft are expected to be replaced by new models.



- Asia Pacific Elite Corp. (APEC) continues to deepen its presence in the United States, Japan, South Korea, India, and Taiwan.
- They will participate in the JIMTOF exhibition in Japan this November, with expectations for increased success in the high-end five-axis mold processing market in Japan.
- APEC is cautiously optimistic about this year's business outlook, with stable market demand and order intake. They anticipate growth in both revenue and profitability compared to 2023.

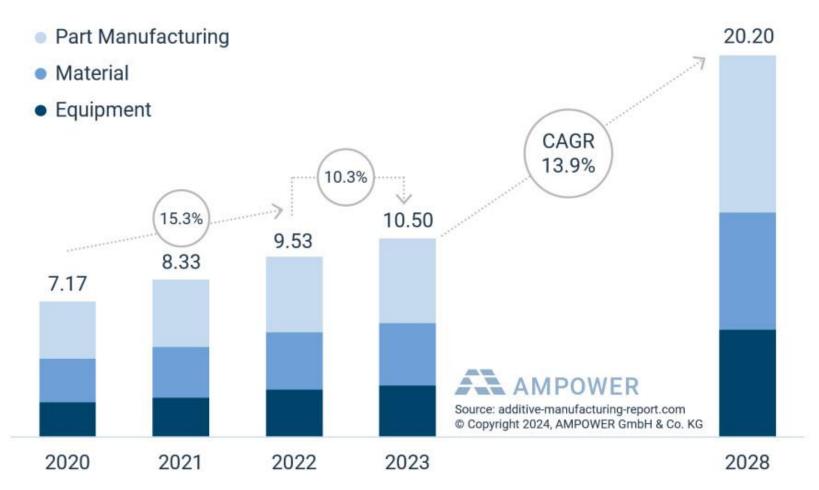
Data Source: Airbus



Global Additive Manufacturing Market

With Tongtai's core technological strengths, there is potential for development in workpiece manufacturing and equipment sales.

Unit: EUR Billion



Data Source: Ampower

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Additive Manufacturing Industry Layout:

Equipment Focused on Healthcare



Dental 3D Printing Market By Application Area, 2024-2035 (USD Million)



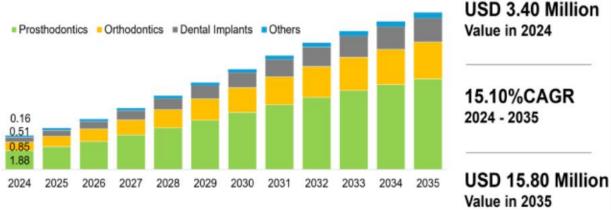


Developing customized and

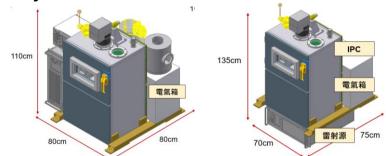
highly automated small-scale

dental machines





- The application of 3D printing in dental products is growing annually, ٠ with projections reaching \$15.8 million by 2035.
- Tongtai is addressing the demand for miniaturized dental solutions by developing customized and highly automated small-scale dental machinery.



Data Source: Roots Analysis



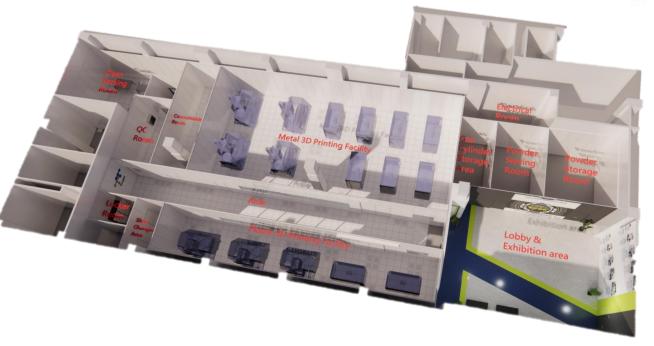
Additive Manufacturing Industry Layout:

Parts Production

Digital Manufacturing Service Center

02

Integrating machinery, optics, electronics, and software to provide comprehensive solutions



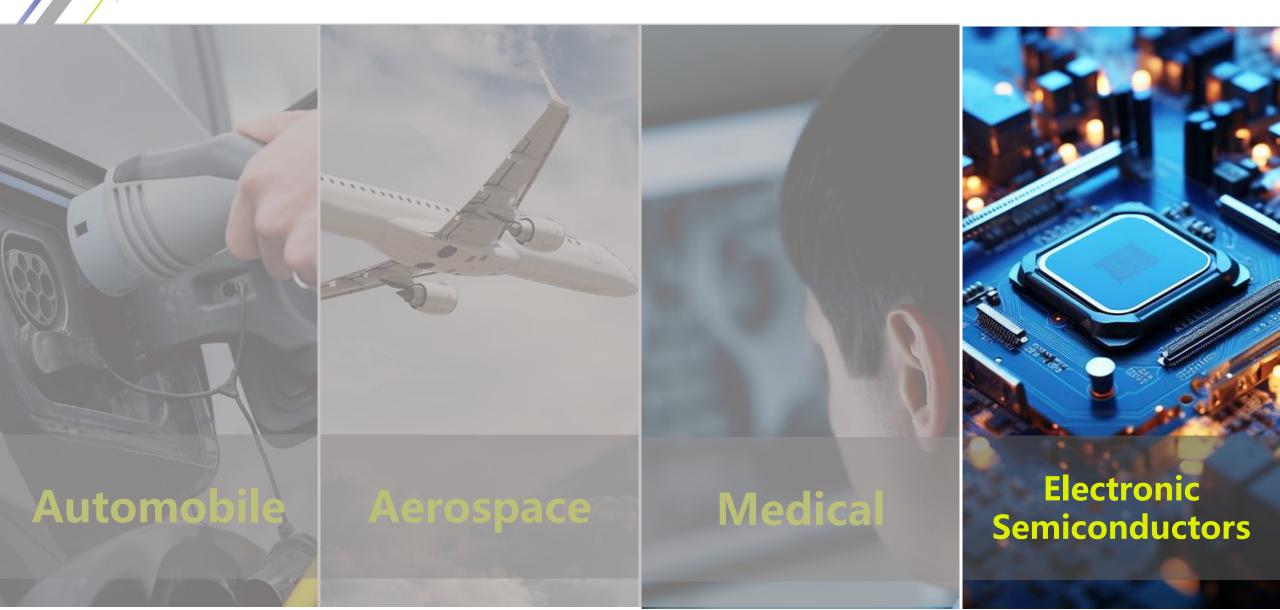
- To provide a comprehensive solution for additive manufacturing (AM) customers, Tongtai is establishing a full-service digital manufacturing center. The center will focus on the dental, semiconductor, and mold markets, and is expected to be operational by the fourth quarter of 2024.
- The service center will feature a total of 13 machines for both metal and non-metal processes.



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Industry Focus Overview

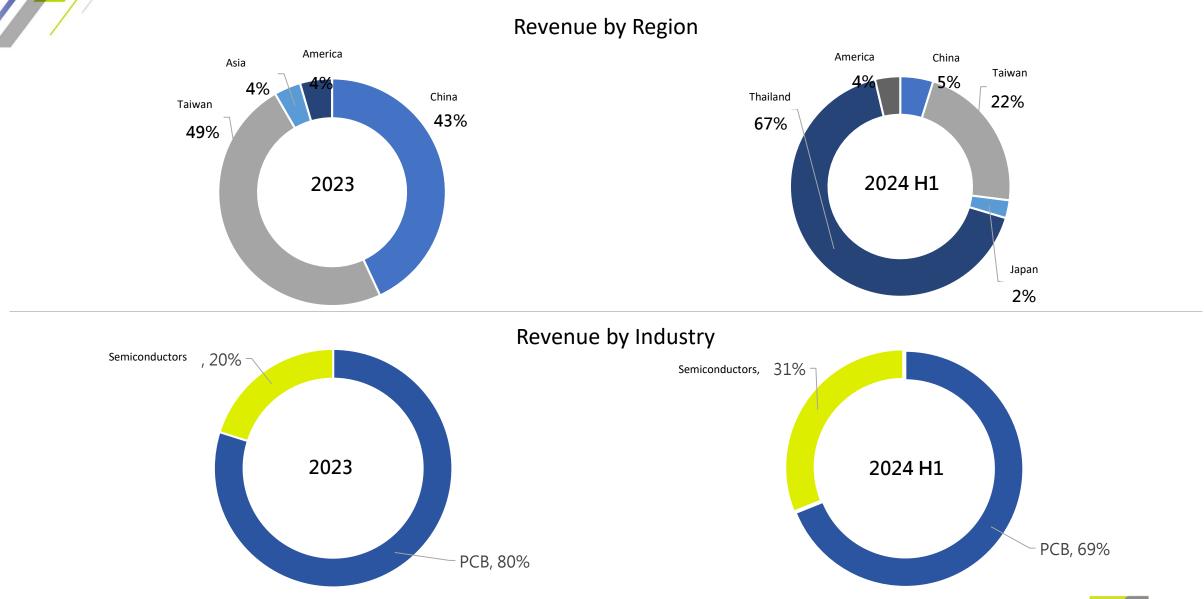




Two-Pronged Approach: PCB and Semiconductors



LIROUP



Global PCB Market:

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Focus on Rapid Growth of PCBs and Server Boards

	Product	ltem	2018	2019	2020	2021	2022	2023 E	2024 F	2025 F	2026 F	2027 F	2028 F	2023~2028 CAGR	
	RPCB	Market Value	33.225	31.969	32.674	40.641	38.720	34.292	35.659	37.554	39.240	40.724	42.005		
		Global Market Share	53.2%	52.1%	50.1%	50.2%	47.4%	49.3%	48.9%	48.5%	48.0%	47.3%	46.5%	4.1%	
	FPC+ SMA	Market Value	12.359	12.195	12.483	14.058	13.842	12.191	12.649	13.225	13.828	14.458	15.117		
		Global Market Share	19.9%	19.9%	19.1%	17.4%	16.9%	17.5%	17.3%	17.1%	16.9%	16.8%	16.7%	4.4%	
	HDI	Market Value	9.222	9.008	9.874	11.811	11.763	10.536	11.095	11.806	12.563	13.369	14.226	C D 0/	
		Global Market Share	14.8%	14.7%	15.1%	14.6%	14.4%	15.2%	15.2%	15.3%	15.4%	15.5%	15.7%	6.2%	
	IC Substrate	Market Value	7.554	8.139	10.188	14.410	17.415	12.498	13.568	14.772	16.083	17.511	19.065	0 00/	
		Global Market Share	12.1%	13.3%	15.7%	17.8%	21.3%	18.0%	18.6%	19.1%	19.7%	20.4%	21.1%	8.8%	
	Total		62,396	61,311	65,219	80,920	81,740	69,517	72,971	77,358	81,715	86,062	90,413	F 40/	
	YoY		6.0%	-1.7%	6.4%	24.1%	1.0%	-15.0%	5.0%	6.0%	5.6%	5.3%	5.1%	5.4%	

• The growth of the AI industry has driven the expansion of high-performance computing equipment, servers, data centers, and other infrastructure, thereby increasing the demand for PCBs and server boards.

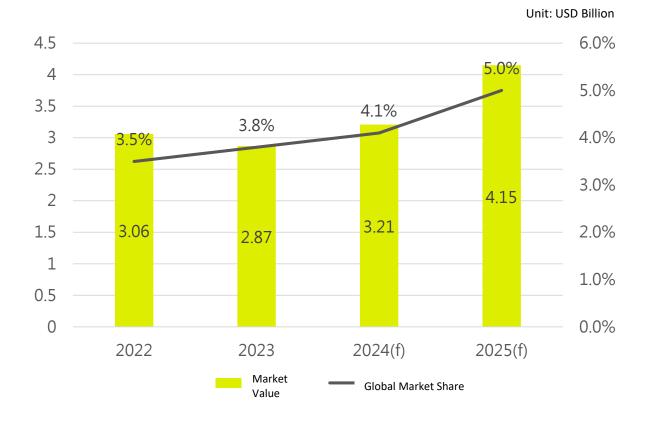
Data Source: TPCA



Unit: USD Billion



Forecast for Thailand's PCB Market Value



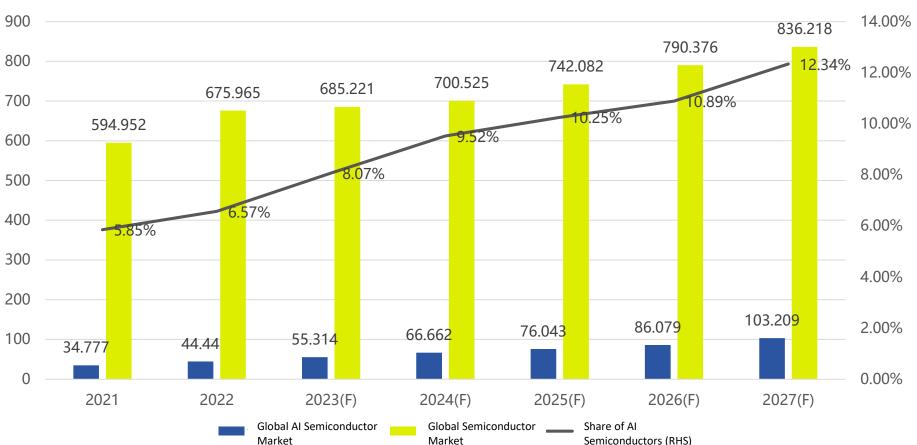
- In 2023, Thailand's PCB local production value is estimated to account for approximately 3.8% of the global market (THPCA forecasts that Thailand will become the fourth-largest PCB producer by 2030).
- Controller suppliers of Tongtai will establish a office at Tongtai Thailand, expected to be completed by the end of this year. Additionally, Tongtai will set up a service center in Prachinburi, Thailand, to facilitate key customer services.
- In response to the China+1 trend, the focus is on key customers setting up overseas manufacturing facilities and expanding presence in Thailand and other Southeast Asian countries.

Data Source: TPCA



Worldwide Semiconductor and AI Market Trends





Unit: USD Billion

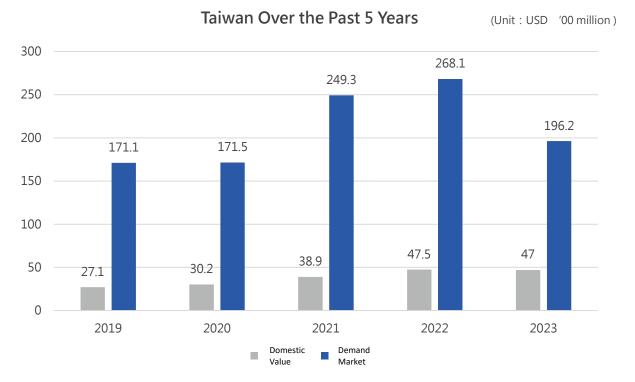
Data Source: Gartner



Niche Market for Semiconductor Equipment Taiwanese Manufacturers



Domestic Value and Market for Semiconductor Equipment in



Domestic market still offers entry opportunities for Taiwanese manufacturers

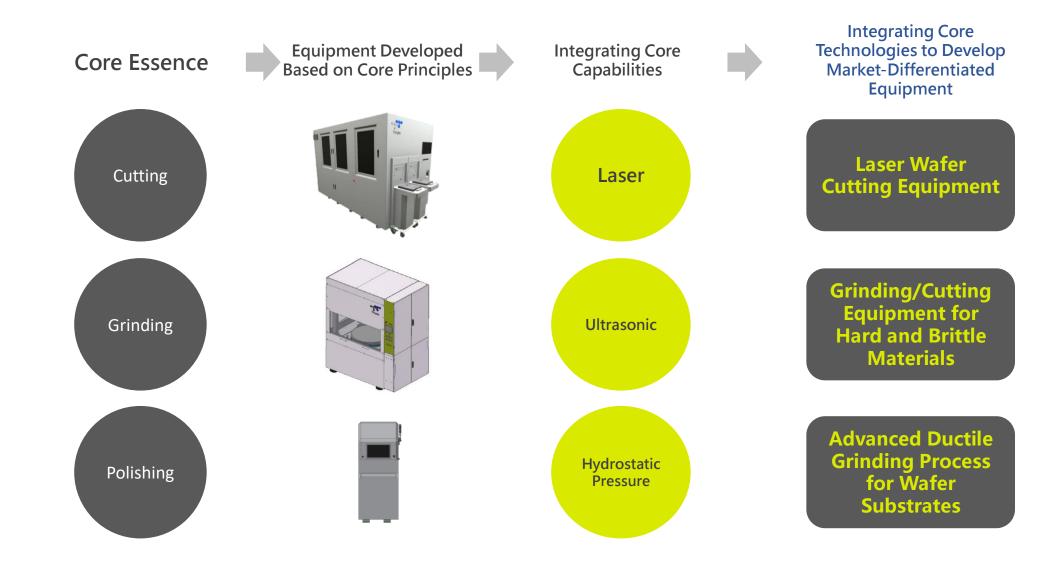
The value of Taiwan' s semiconductor equipment industry has shown significant growth in recent years, reaching NT\$141 billion (approximately USD 4.7 billion) in 2023. However, this still falls short compared to the market demand of USD 19.62 billion.

Data Source: SEMI, Taiwan Electronics Association, Metal Center

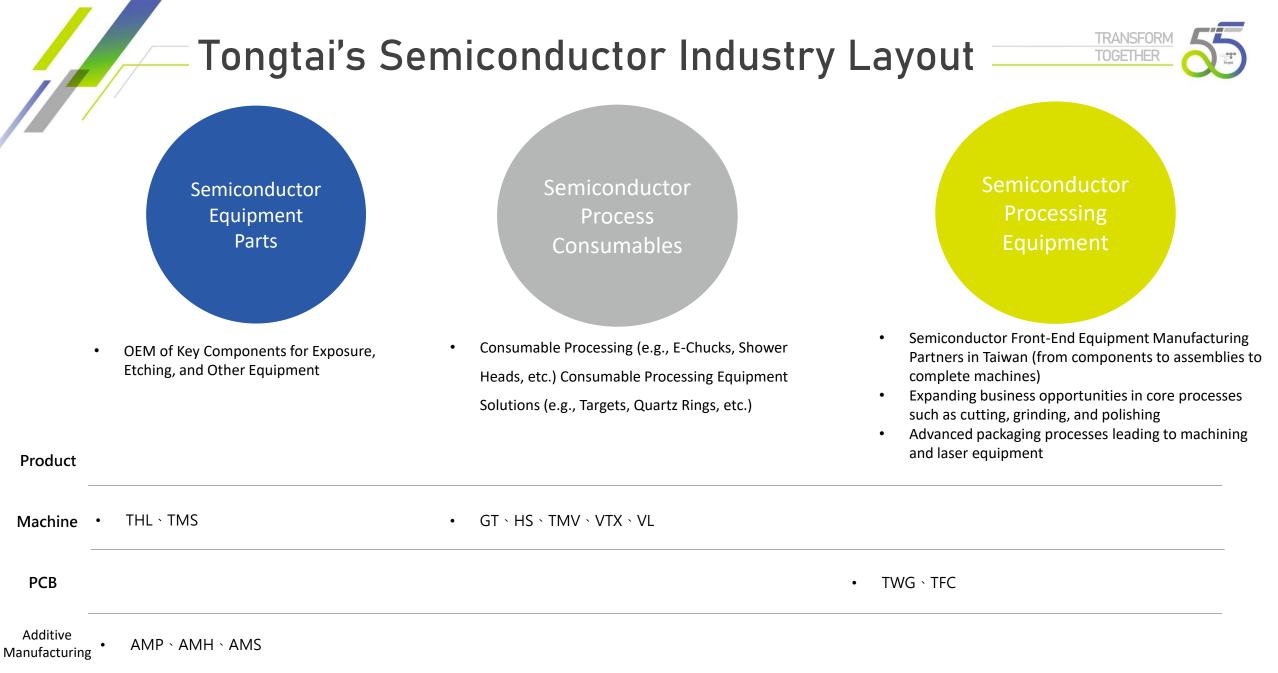


Core Technological Strength in Semiconductor Development













Key Financial Indicators Overview



H1 2024 Group Consolidated Operating Performance



Unit:NTD/Mio

	2024	4 H1	2023	3 H1	2023		
	Amount	%	Amount	%	Amount	%	
Revenue	2,693	100%	3,744	100%	7,621	100%	
Gross Profit	398	15%	821	22%	1,554	20%	
Operating Profit (Loss)	(371)	(14%)	(1)	0%	(156)	(2%)	
Non-Operating Income and Expenses	86	3%	14	0%	249	3%	
Net Profit (Loss) After Tax	(246)	(9%)	19	1%	121	2%	
EPS (NTD)	(0.97)		(0.09)		0.20		

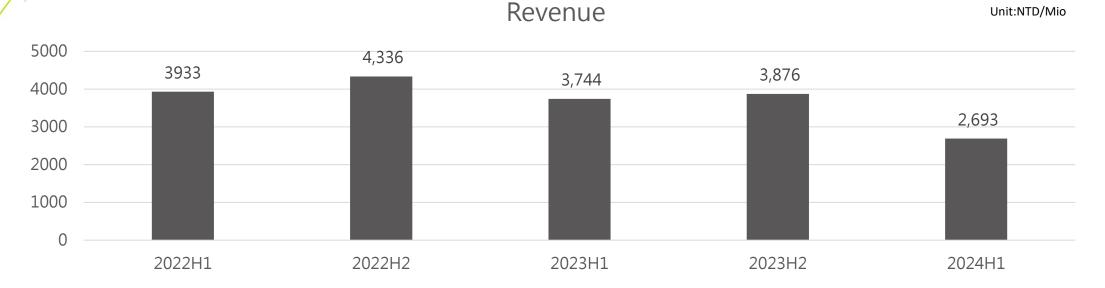
• The consolidated financial data for the FY2023 includes the consolidated entity, Honor Seiki Company Limited. However, it has not been included from December 2023 onwards.

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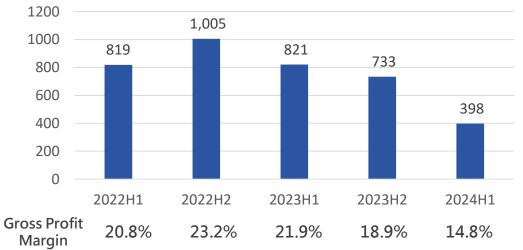


H1 2024 Group Consolidated Operating Performance

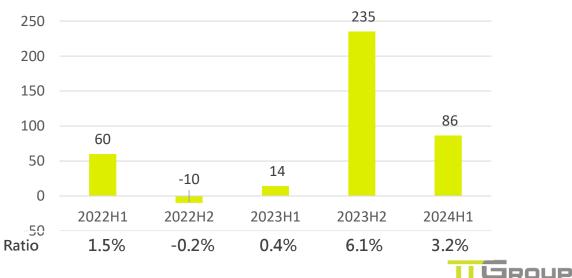




Gross Profit



Non-Operating Income and Expenses



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Recent Exhibition Highlights



Exhibition Highlights



Exhibitions: By the end of 2024, 8 events will be held around the world.

Month	Country	Category	Exhibition Name
Aug	Taiwan	Machine	In-House Exhibition – Industry Elite Group
	Taiwan	PCB	SEMICON Taiwan 2024 – International Semiconductor Exhibition
Sep	USA	Machine	IMTS 2024 – Chicago Machine Tool Show
	China	Machine	12th Wuhan International Machine Tool Show
Oct	Taiwan	PCB	TPCA Show Taipei 2024 – International PCB Exhibition
Nov	Japan	Machine	JIMTOF 2024 – Japan International Machine Tool Fair
INOV	China	Machine	DME – Dongguan International Machine Tool Exhibition
Dec	China	PCB	HKPCA Shenzhen – International Electronics Circuit Exhibition

2024 SEMICON Taiwan

Wafer Planarization Solutions

Wafer Thinning Grinder, Wafer Packaging Planarizer, Laser Drilling Machine/Engraving Machine

2024 TPCA Show Taipei

Al Servo Board Drilling & Automation Solutions

Comprehensive Automated Drilling Process Solutions

THANK YOU







