

Tongtai Machine & Tool Co., Ltd. 2023 Investor Conference





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Agenda

- Tongtai and TTGroup Introduction
- Operating Performance of 2023 Q3
- Machine Tool Market Trends & Product Development
- OA PCB Market Trends & Product Development



Tongtai & TTGroup Introduction



Group Investment Structure

Data: Tongtai Finance and Accounting Department



shareholding %	Component manufacturer/Solution provider	Machine manufacturer	Trading			
>50%	TongYeh 94.58% TongFong 100.00% SKTD 98.73%	Shuzhou TongYu 100.00% Honor Seiki Pacific 99.83%	TTM (Thailand) (Vietnam) 100.00% TTS (Malaysia) 52.00%			
	CERIMATEC 100%	PCI (France) 100.00% ANGER (Austria) 100.00%	TTE (Netherlands) (Mexico) 100.00% TT Group France 100.00%			
% of cons	solidated revenue 5%	88%	TTJP 100.00% TSU 100.00% Anger USA 100.00%			
<50%	Contr Technol (TW-80 4.169	Anger Dutschland 100.00% Quicktech 99.14% Data of 2023.10.31				



Tongtai Introduction

Tongtai Machine & Tool Co., Ltd, established in 1969, was listed on the Taiwan stock market in 2003. Our headquarters is located in Kaohsiung, Taiwan. Starting with special purpose machines, the machine tool factory now has the most extensive product line in Taiwan.



Founder

Mr. Yoshii, Ryozo







Group Integration +Intelligent Software

2017~

Growth by Integration 2017~

- Internal resources integration
- Product line re-shaped
- Application capabilities enhanced
- Toward intelligent manufacturing

Profile

-Capital: NT\$2.56 billion

-Stock code: 4526.TW

-Chairman: Mr. Yen Jui-Hsiung

-Number of employees: 650 (TTG 1800)
-Certifications: ISO 9001, ISO 14001, ISO

50001, ISO 45001, AEO

Vision

The best partner who can assist industries to reach success

Mission

To be the machinery equipment's leading provider of integrated solutions.



2023 天下雜誌

Taiwan Top 2000 Survey

403rd

Taiwan's top 2000 manufacturers' rankings (Revenue) Taiwan's machine tool manufacturers' rankings (Revenue)

Special Purpose Customization **Machines** 1969~ 1980s~ Founding Era 1969~ Market Expansion 1980~ Product line expansion Special Overseas operation branches purpose m/c business **TWSE Listed** PCB business unit established Japan technical cooperation Founder Chairman Chairman Mr. Yen, Jui-Hsiung

Standard Machine +Optimization

2005~

Transformation 2005~

- New headquarters at Kaohsiung Scientific Industrial Park
- Brand image reinforcement

2022 Revenue (USD)

276 millio



Core Technology

Machine Tools

Turning

Milling

As a specialized machine tool manufacturer, we specialize in listening, analyzing, and integrating customer's pain points. In addition to traditional lathe and milling machines, according to the engineering division, we can combine turning and milling machines with 5-axis machining according to the customer's processed material, production volume, manufacturing process, etc., to form the engineering integration and division with the best customer benefit.





Grinding

Tongtai has developed its ultrasonic technology for many years, specializing in grinding ceramic hard and brittle materials, and has built up many hard and brittle material processing databases. We are now integrating our pneumatic/hydrostatic technology to develop wafer substrate grinding and polishing equipment.



Smart Manufacturing

Automation x Intelligence









TTGroup – The Members













- Vertical Lathe
 - Vertical Mill-Turn
 - Special Purpose M/C

High Speed Series

PL Series

A (*)

■ Horizontal 5-Axis M/C

■ Large Gantry M/C

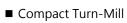
■ Large 5-Axis M/C

■ Large Moving-

Column M/C

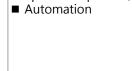


- MT Series
- Heavy Duty Series G/SK Series
 - G800 Series
 - GM/SKM Series
 - MTH Series
 - MC Series
 - HS Series
 - K





- I-42 Ultimate
- I-42 Twin
- T8 Hybrid-Y



Horizontal M/C

■ Special Purpose M/C

■ High Speed



- Meteor Series
- TS630/900/ 3000



- Transfer Centers
- Automation
- High Speed Horizontal M/C



SP2-P-3000

Flagship Models













* 65















Industry Focus

Aerospace







Electric Vehicle









Energy









Operating Performance of 2023 Q3



Condensed Consolidated Statement of Comprehensive Income Unit: In NT\$ mill (Loss) Per Share

Unit: In NT\$ million, Except Earnings (Loss) Per Share in NT\$

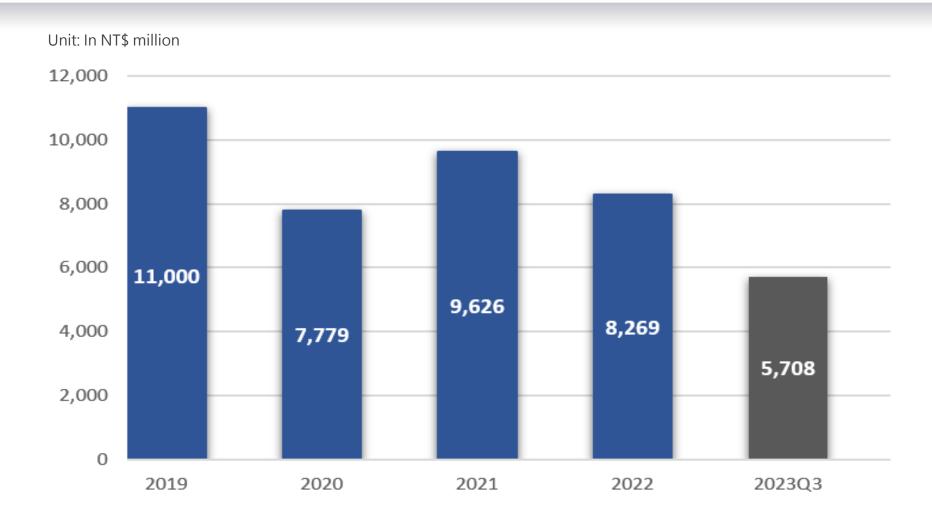
lt ann a	2023 Q 3		2022 Q 3		2022		2021		2020	
Items	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%
Revenue-Consolidated	5,708	100%	6,137	100%	8,269	100%	9,626	100%	7,779	100%
COGS	4,467	78.3%	4,812	78.4%	6,445	77.9%	7,748	80.5%	6,671	85.8%
Gross Margin	1,241	21.7%	1,325	21.6%	1,824	22.1%	1,878	19.5%	1,108	14.2%
Operating Expenses	1,259	22.0%	1,231	20.1%	1,661	20.1%	1,709	17.8%	1,778	22.9%
OperatingProfit (Loss)	(17)	-0.3%	94	1.5%	163	2.0%	169	1.8%	(670)	-8.6%
Net Non-Op. Profit	55	1.0%	105	1.7%	50	0.6%	55	0.6%	157	2.0%
Net Income before tax	38	0.7%	199	3.2%	213	2.6%	224	2.3%	(513)	-6.6%
Net Income after tax	52	0.9%	141	2.3%	143	1.7%	156	1.6%	(397)	-5.1%
Net Profit (Loss)										
Attributable to owners of the Company	(12)		110		91		173		347	
EPS	-0.05		0.43		0.36		0.68		-1.36	
ROE	0.9%		2.5%		2.5%		2.8%		-6.9%	
Debt Ratio	61.1%		63.4%		61.9%		64.8%		65.9%	

Data Source: 2020-2022 Audited Consolidated Report/2022 Q3, 2023 Q3 Reviewed Consolidated Report





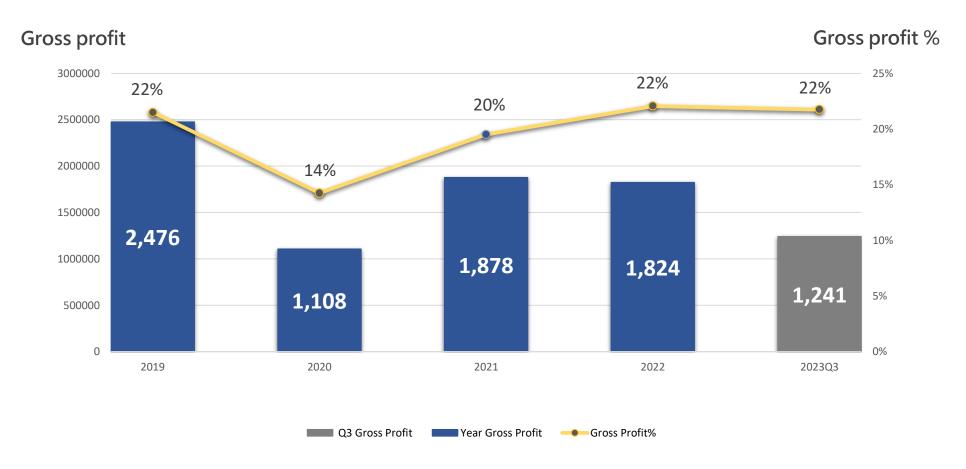
Consolidated Revenue





Consolidated Gross Profit and Gross Profit %



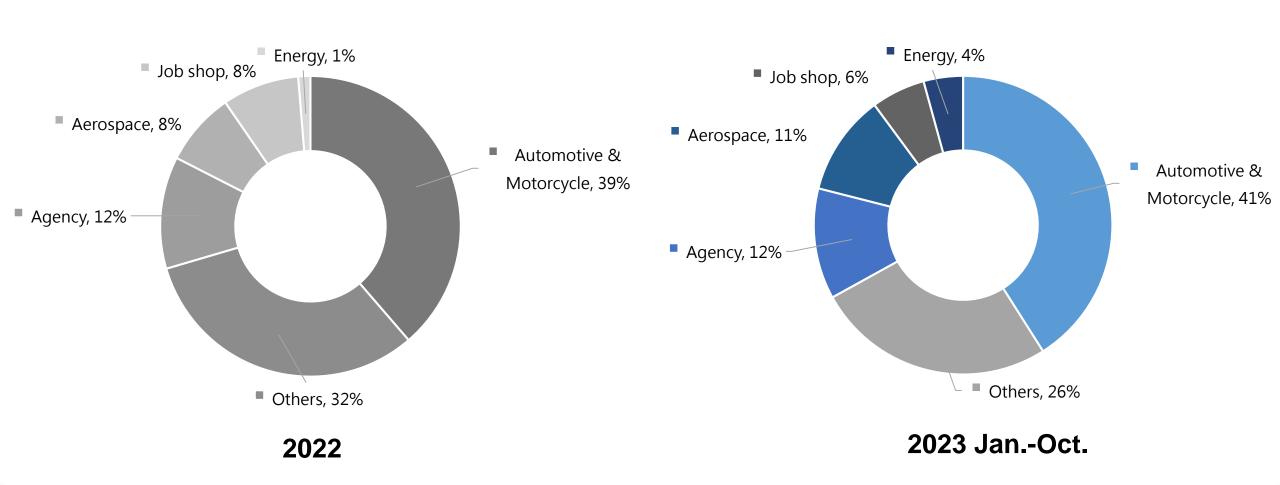


Data Source: 2019-2022 Audited Consolidated Report & 2023 Q3 Reviewed Consolidated Report





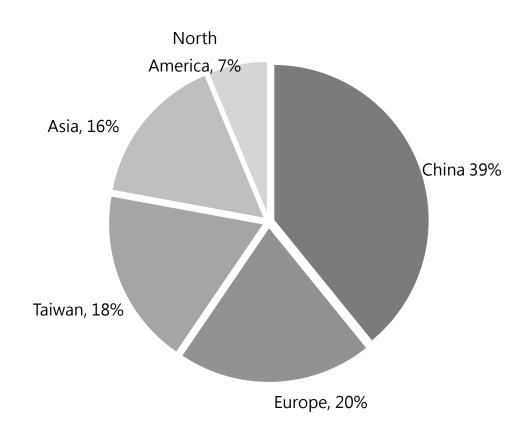
Consolidated Revenue by Industry



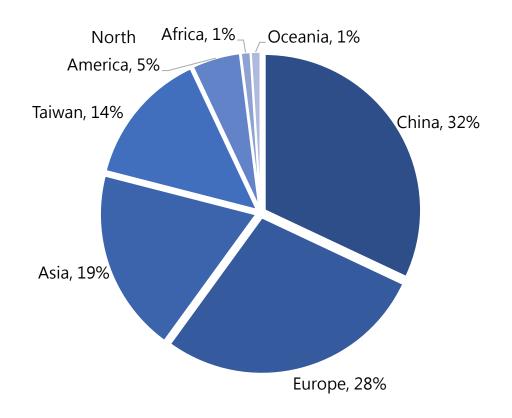
Data: Tongtai Finance and Accounting Department



Consolidated Revenue by Region



2022



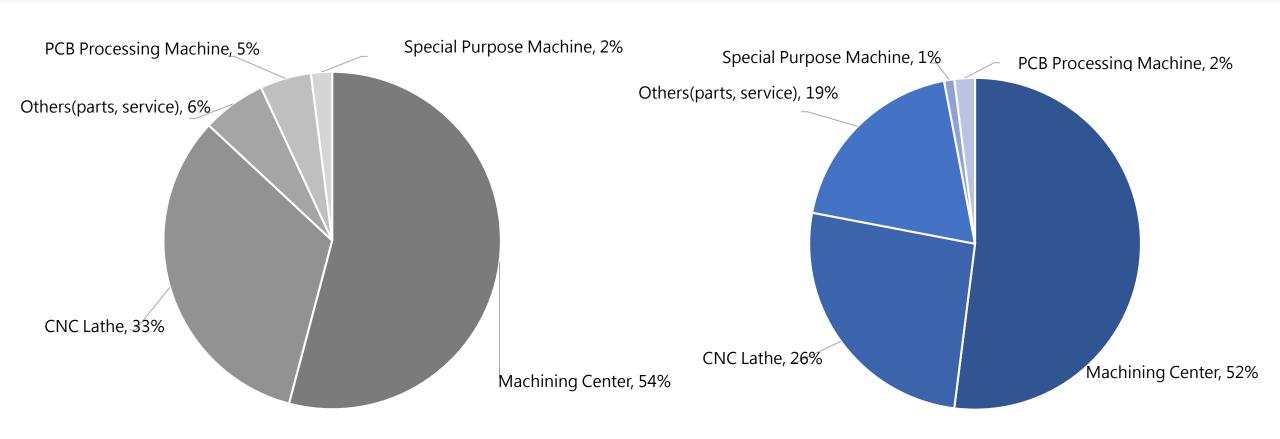
2023 Jan.-Oct.

Data: Tongtai Finance and Accounting Department





Consolidated Revenue by Product



Data: Tongtai Finance and Accounting Department

2023 Jan.-Oct.



2022Y



Machine Tool Market Trends & Product Development



Machine Tool Market Trends

Electric Vehicle

IEA estimate that 35% of new cars sold in 2030 will be electric.

Energy

The issue of global warming has led to the emergence of green power generation

Aerospace

Demand for airframes is expected to rise yearly as countries rapidly resume trade and travel from the gradual lifting of the global blockade from 2022 onwards.

Semiconductor

Generative AI provides growth momentum for the Semiconductor industry.

Vendors of related manufacturing process components have ample opportunities.

Global Machine Tools Production Value and Growth Rate

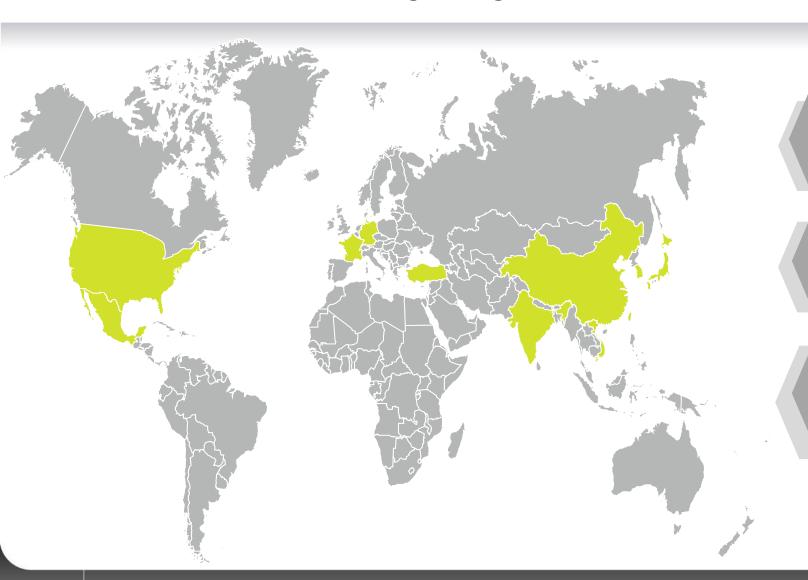


Taiwan Machine Tools Production Value and Growth Rate





Industry Layout



Electric Vehicle

Aim at the car body and battery components. Europe and USA markets are focused.

Aerospace

Aim at diverse alloy aircraft components. Korean, Turkish, and Indian markets are focused.

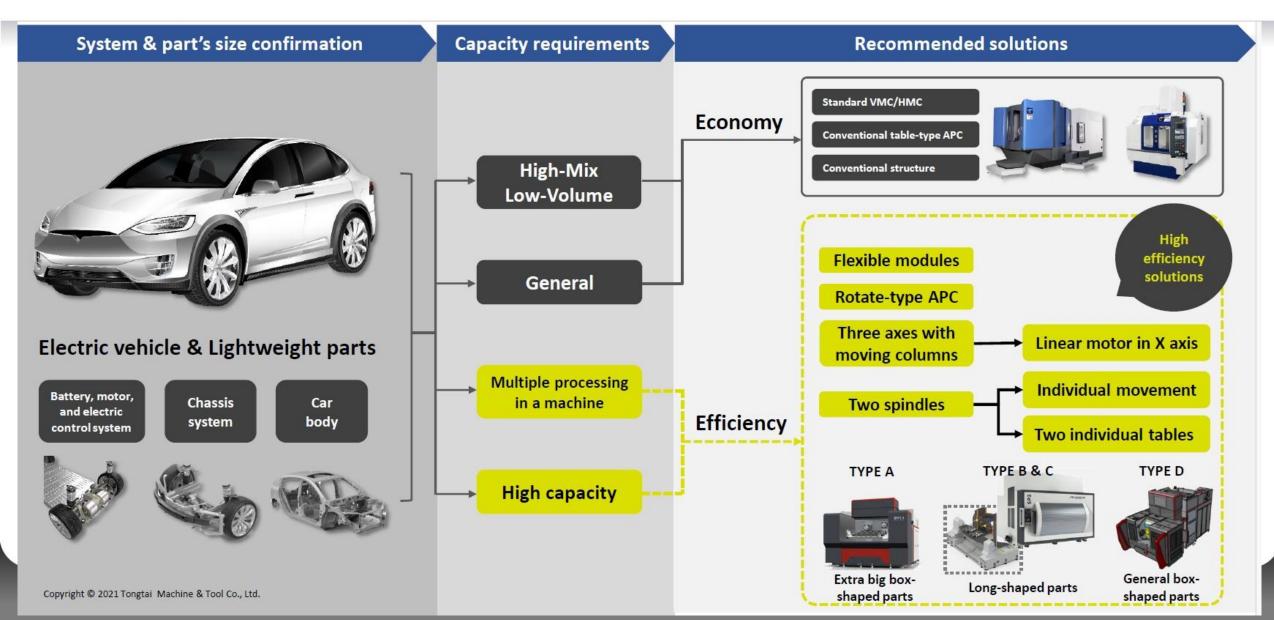
Energy

Aim at large-scale wind power workpiece s.

United States, Mexico, India, and Turkey markets are focused.



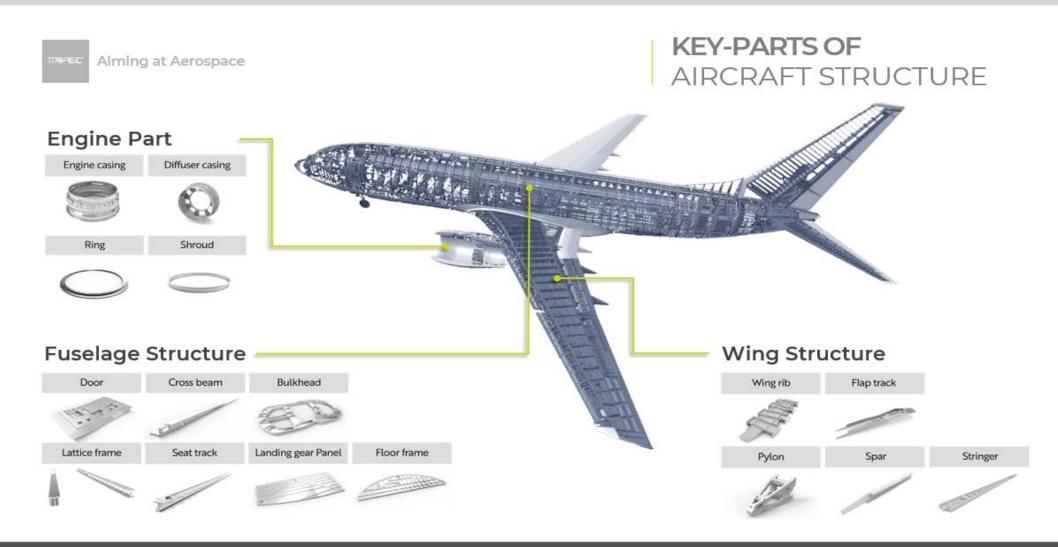
Electric Vehicle Industry Solution





Aerospace Industry Solution









PCB Market Trends & Product Development



PCB Market Trends

China+1

Due to geopolitical factors, various industrial chains seek production bases outside Taiwan and China. Southeast Asia is the most popular place.

Inventory Adjustment

Inventory adjustment is expected to come to an end. The cell phone, PC/NB, and consumer electronics markets will gradually recover.

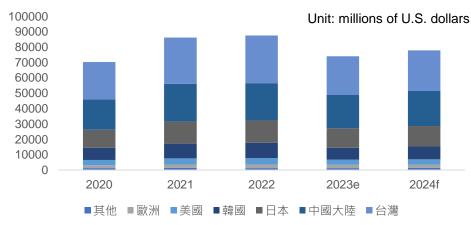
AI Server and Automotive

Automotive PCB usage composite growth rate is 7.1% from 2022 to 2028. Highend server PCB compound growth rate is 6.4% from 2022 to 2027

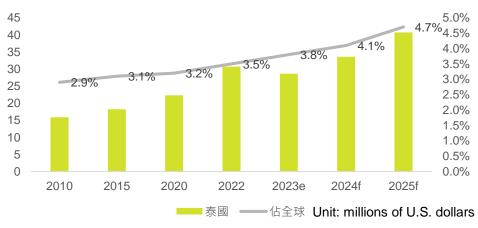
IC Substrate

In response to the development of semiconductors, it is a critical development project in Japan and Korea and will remain a hot topic in the next few years.

Global PCB Production Value by Major Countries



Thailand's Production Value and Global Share





PCB Industry Layout



Al Server PCB & IC Substrate

Respond to the AI server PCB and IC substrate m arket, focusing on the input and development of Tai wan's major board manufacturers.

Taiwan, Southeast Asia, India

We will deepen our relationship with the Taiwan, Southeast Asia, and India markets by responding to external factors such as geopolitics and inflatio

Intellectualization/Automation

Focus on drilling machines with linear mot ors, laser drilling technology, and intelligen t/automation development for high-end cu stomer technology.



Wide Band Gap Semiconductors Market Trends

8-inch

Major international companies are actively expanding their production capacity to capture the market, and developing towards 8-inch manufacturing process.

Cost down

Reducing product costs through the development of new substrate and process technologies.

High Pressure/High Temperature Applications

Focusing on the development of emerging applications such as low-carbon transformation, 5G private network, automotive electrification and automotive electronics.



- Power Components: Global market grows from \$0.8 billion (2021) to \$17.1 billion (2030) CAGR 39.8%
- Communication Components: Global market to grow from \$0.9bn (2021) to \$3.1bn (2030) CAGR 14.7%

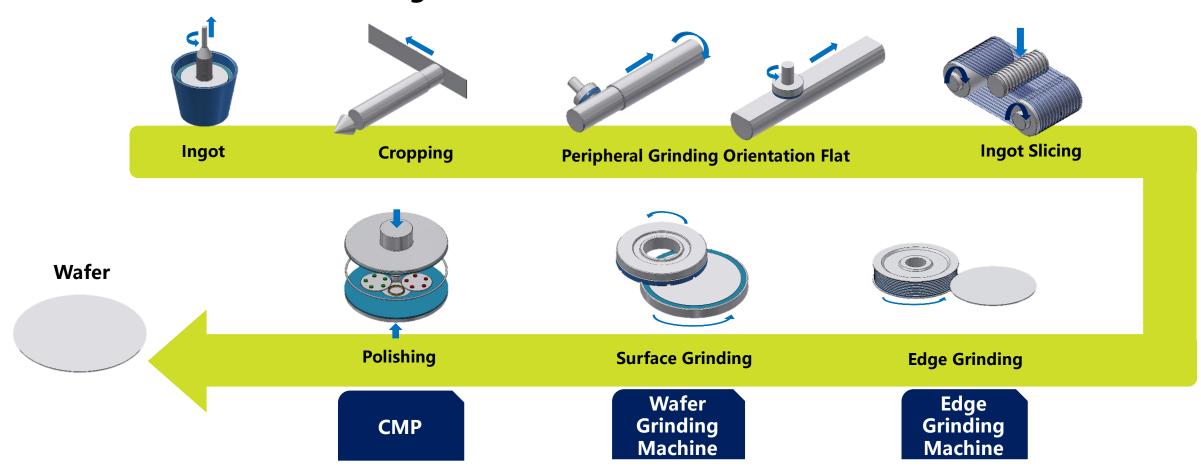
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Tongtai Wafer Substrate Processing Layout

Wafer Substrate Manufacturing Process





Q&A





7 solution solve the problems you meet during machining!

- ① Intelligent manufacturing solution
- ② Automation solution
- 3 Multi-axes solution
- Additive manufacturing solution
- S Carbon management solution
- ⑤ Industrial solution for Electric vehicle/ Aerospace/ Energy
- ⑦ Dr.TT platform

