

#### Stock Symbol: 3167

## Ta Liang Technology Co., Ltd.

DG6Z

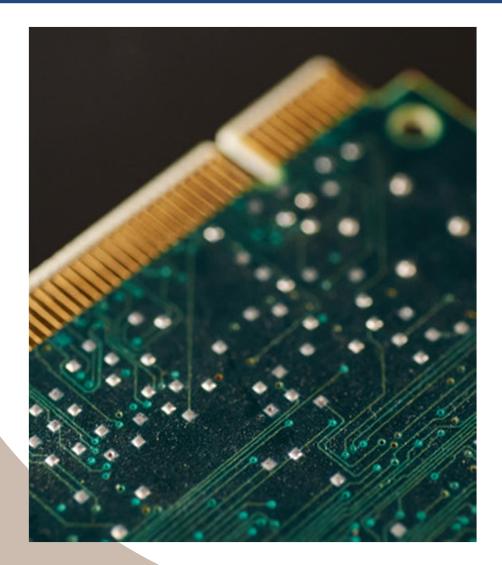




## Disclaimer

- The predictive information mentioned in this presentation, including operational outlook, business situation, etc., is obtained by the Company through internal and external sources.
- The company's actual operational results that may occur in the future due to factors including but not limited to market competition and the conditions of international economy.
- The outlook for the future in this presentation is the Company's external views until now. For these views, if there are updates or adjustments in the future, the Company is not responsible for reminding or updating again at any time.





## Company Profile



## **Company Overview**

Stock Symbol	3167
Capital	NTD 801,341,160
Chairman	Laurie Wang
General manager	Jerry Chen
Employee	TW 245, Group 573
Headquarter	No.49, Yulien St. Bader Dis. Tauyoun
Factories	Bade 🔨 Nanjing 🔨 Lianshui
大量	



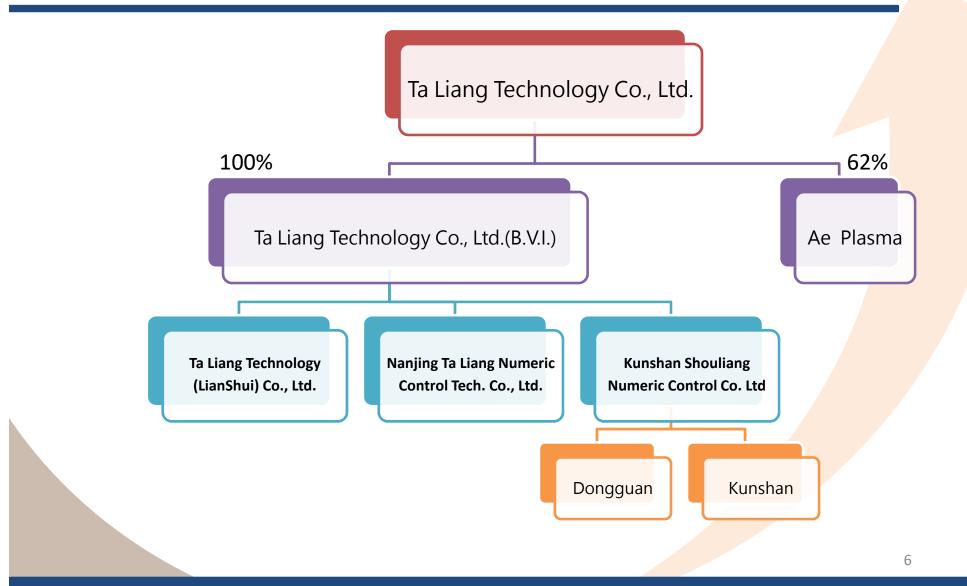


#### Milestone

#### 2017 2000 Company was renamed "Ta Liang Technology IC Packaging & Testing Machine Co., Ltd." . 2001 were developed. 2018 1980 Second plant was completed for PCB drilling Semiconductor products has machine. Ta Liang Industrial Co., Ltd. was entered for mass production stage. 2002 established in Taoyuan, Taiwan. Stock pubic offering and PCB routing 2020 machine was developed. IA equipment was developed. 2004 Semiconductor business Resin panel cutting machine was department was established and developed. producing for key customers. 2007 2021 Nanjing Taliang Numeric Control Tech. Co., Ltd. Taiwan acquired a new factory and was established. integrated. 1980~ 1990~ 2000~ 2020~ 2011 New factory location was located in Yangmei, Taoyuan, for expanding Production capability. 2012 TLSK Technology Co., Ltd. was established as joint venture with SAKI, Japan. 2013 Ta Liang Technology Co., Ltd. listed on TSEC. 2015 Taliang Tech. (Lianshui) Co., Ltd. was established. 5

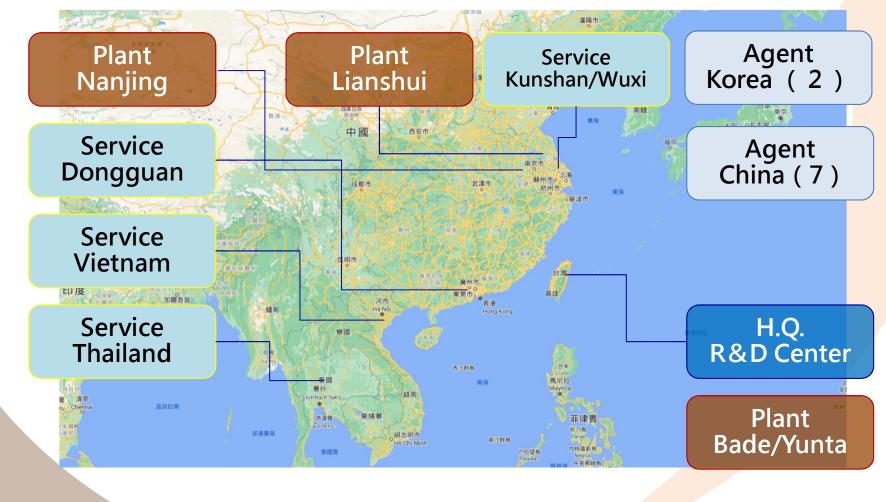


#### **Group Organization**



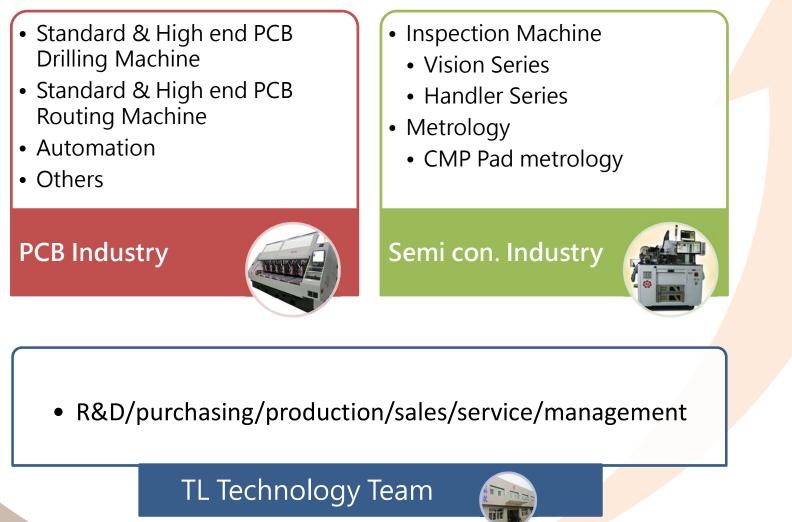


#### **Production & Service Base**



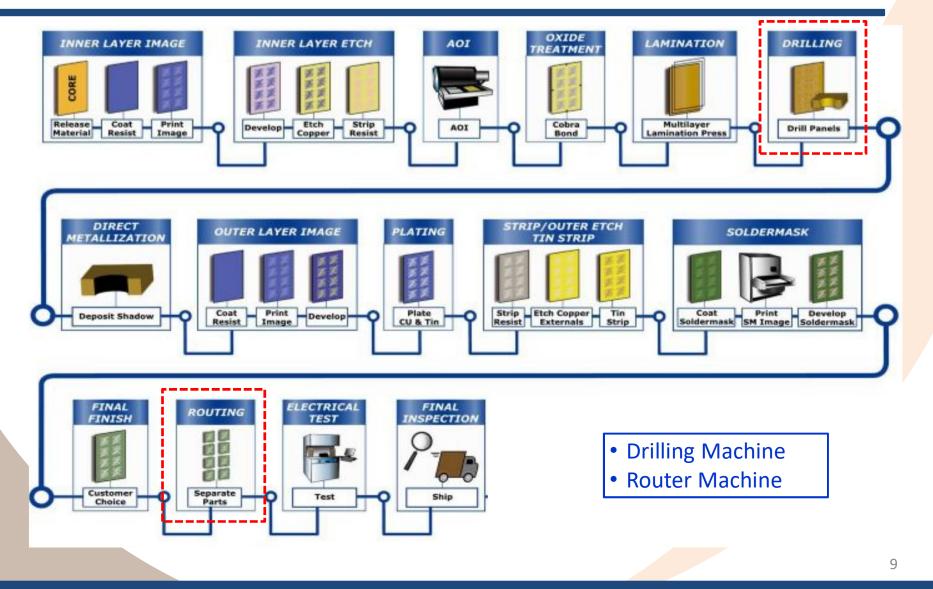


### **Business Scope**



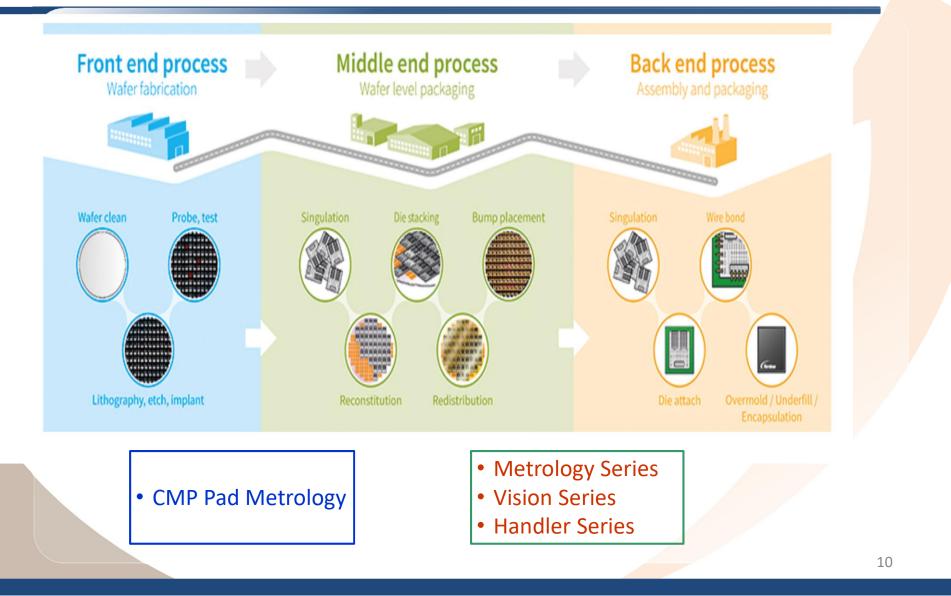


## **TL PCB Machines**





## **TL Semiconductor Machines**





### **Core Competitiveness**

#### Core Technology

Ta Liang Technology has the best R&D team and core technology to achieve the goal of providing customer with key product.



Capability of Precision CNC Machenical Structure Design .

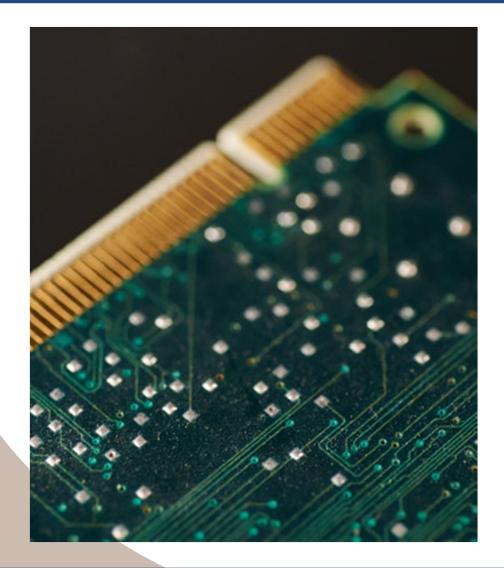
Capabilities of Manufacturing, Assembling and Testing for Precision CNC Machinary.

03

Controller Development capability for Multi-Axles with high speed movement .

Capability of Processing Application Software Development for CNC Controler.

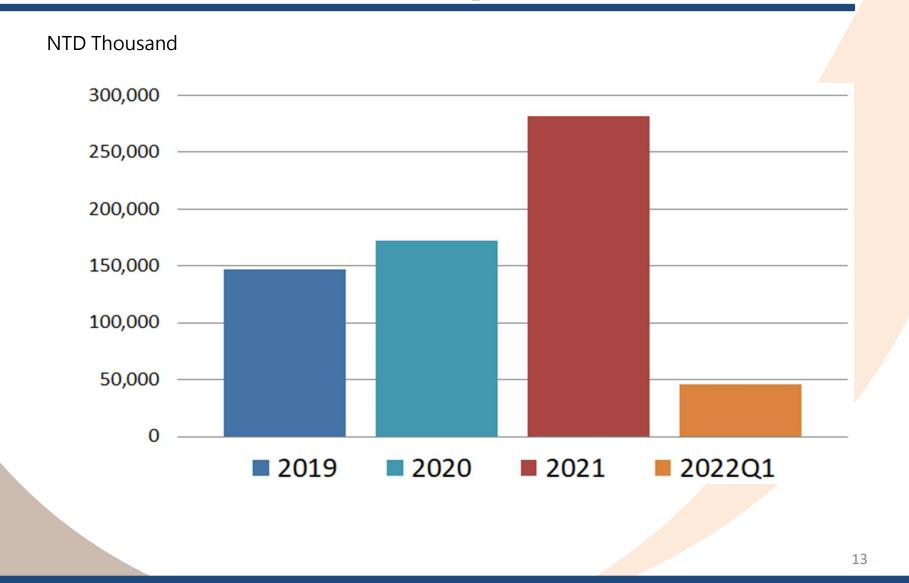




# Operational performance

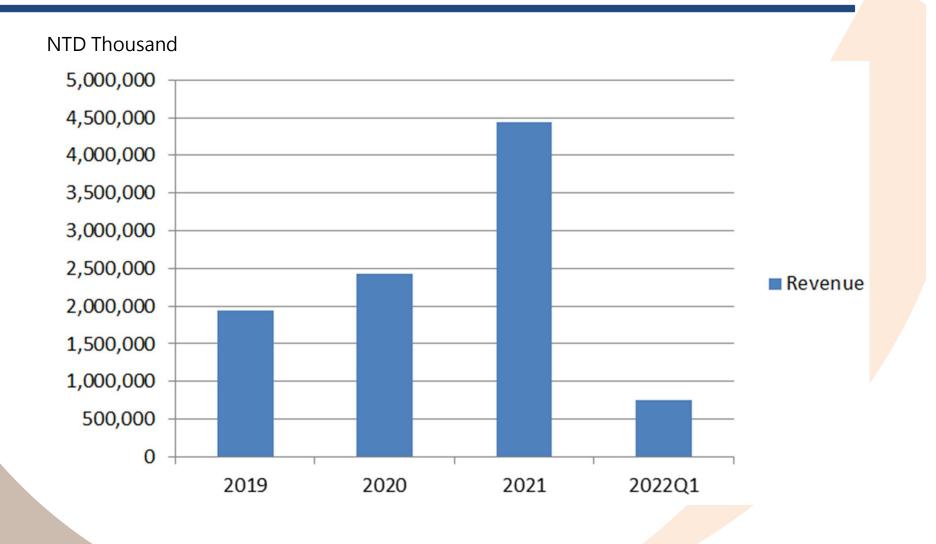


## **R&C** Expense



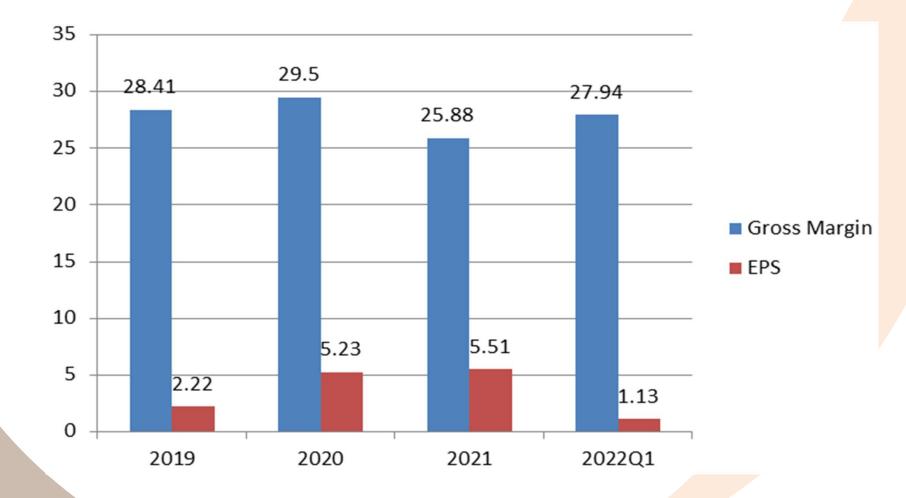


## Revenue

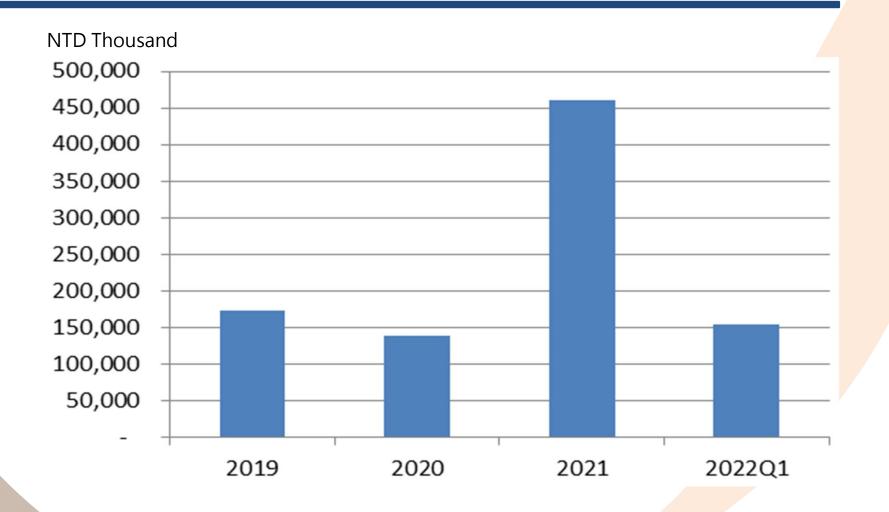




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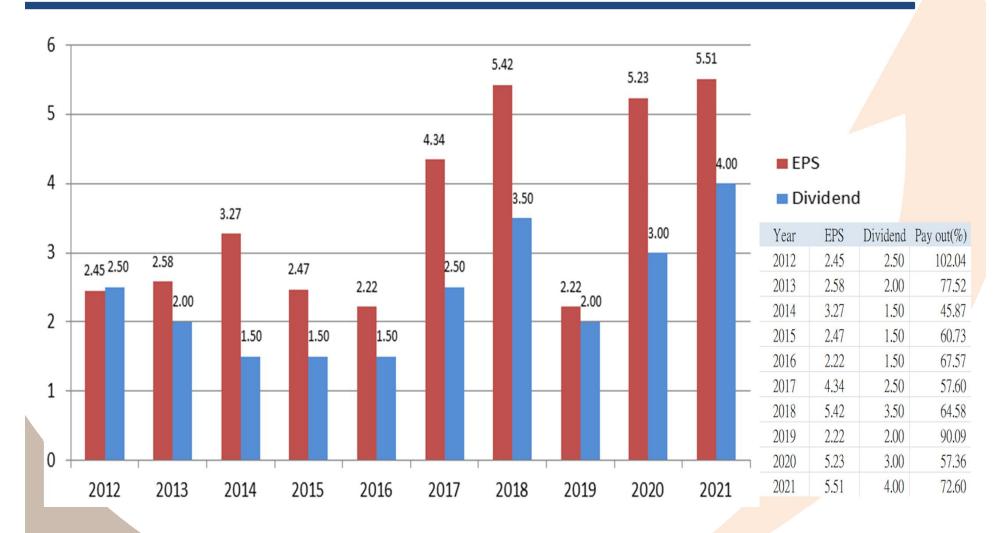
## **Taiwan New Plant**



- 1. This new plant is integrating the original factories in Taiwan. The yellow frame line in the above picture is the new plant area.
- 2. There are buildings A to F in this new plant. Now the decoration and relocation in D, E and F buildings have been completed.
- 3. The old production plant in Taiwan was registered on 6/28 for transferring, and the related sales benefit has been completed on 2022Q2.



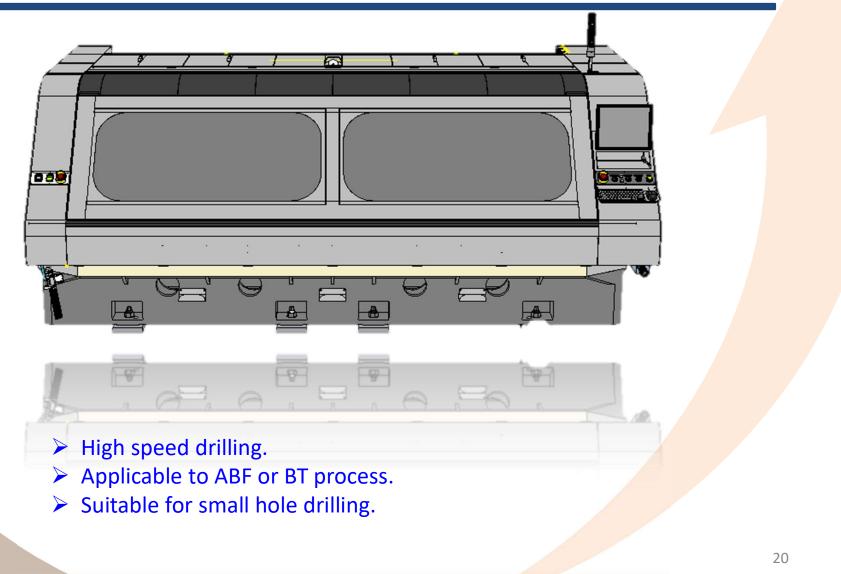
## **Dividend Policy**





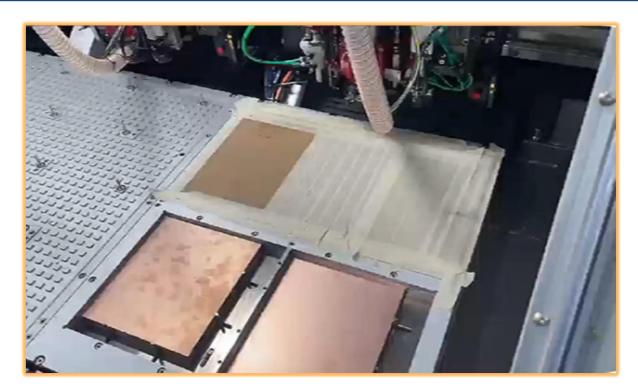
- 1. We expect CMP Pad Metrology to be available for production as soon as H12022.
- 2. AOI or Vision series machines are gradually entering the supply chain of important packaging and testing process customers.
- 3. PCB machines have been developing toward high-margin products. Now we are developing the related machines for ABF process customers, automatic high-end router and measuring the inner copper.







## Automatic high-end router Machine



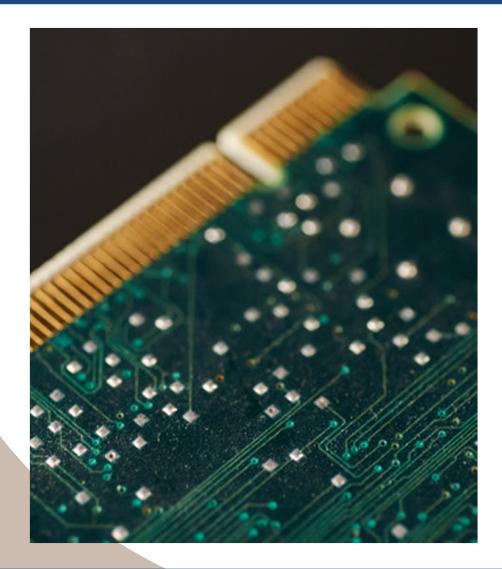
- It will be modular designed and can be flexible adjusted.
- Router efficiency will be doubled.
- It will help us into the market of ABC/BT process.

## A Measuring inner copper Machine



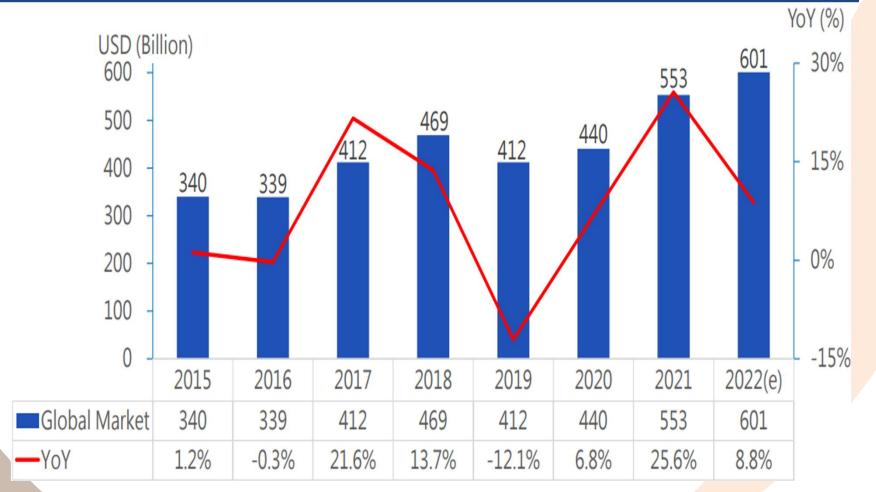
- It will be used to assist the producing in servo boards, communication boards and automotive boards.
- It will help to enhance/upgrade the accuracy of high-end drilling machines.
- It will further expand our sales revenue and market share in high-end drilling machines.





## Market analysis

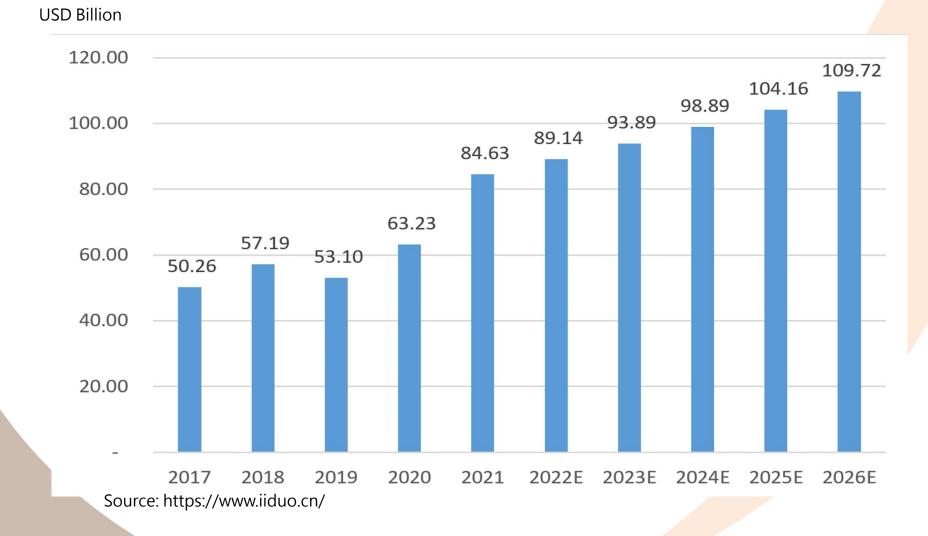




Source: WSTS, 2022.05.

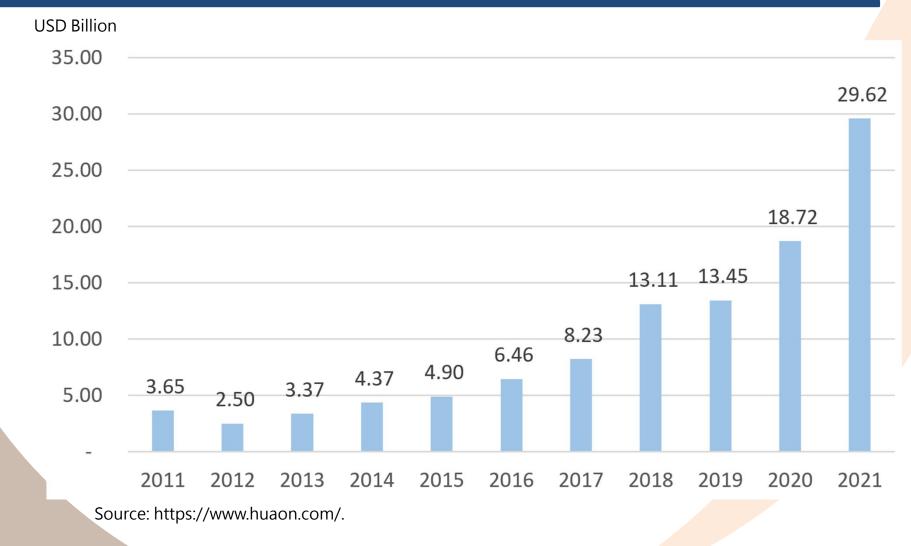


## Global Semiconductor "Equipment" Market

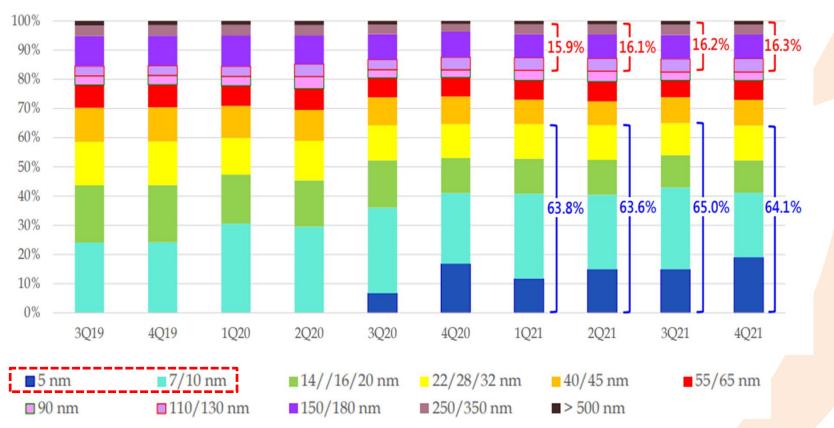




## China Semiconductor Equipment Market

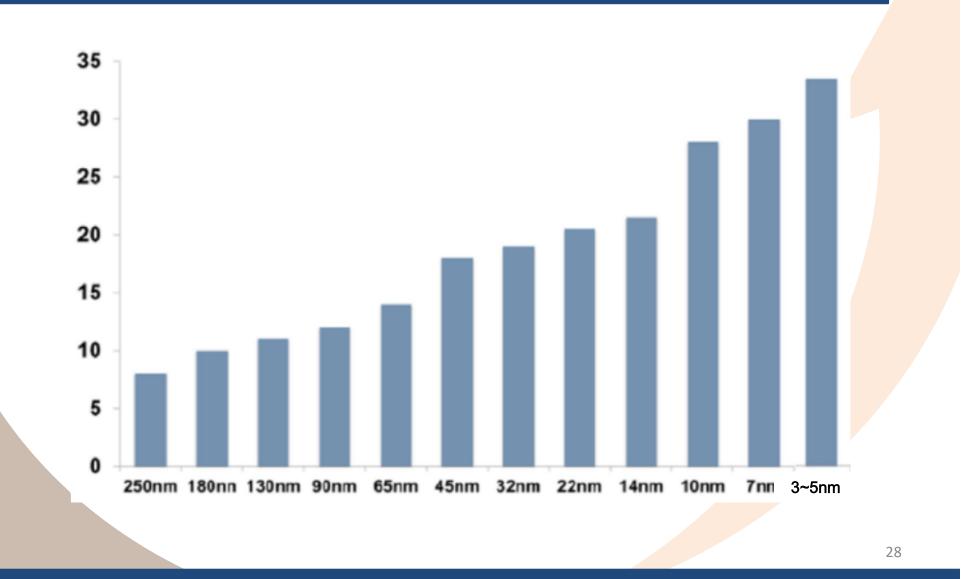


# Advanced process capacity in Semiconductor is growing



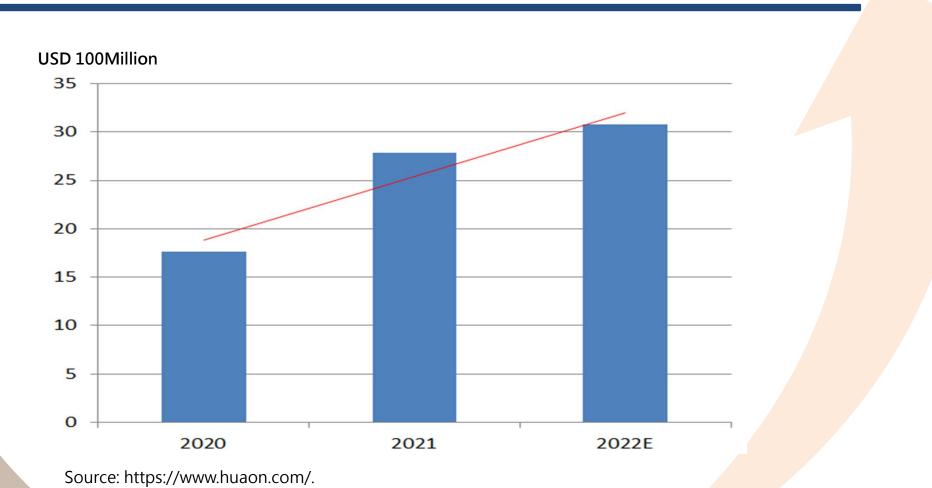
Source: TW MIC 2022.05.





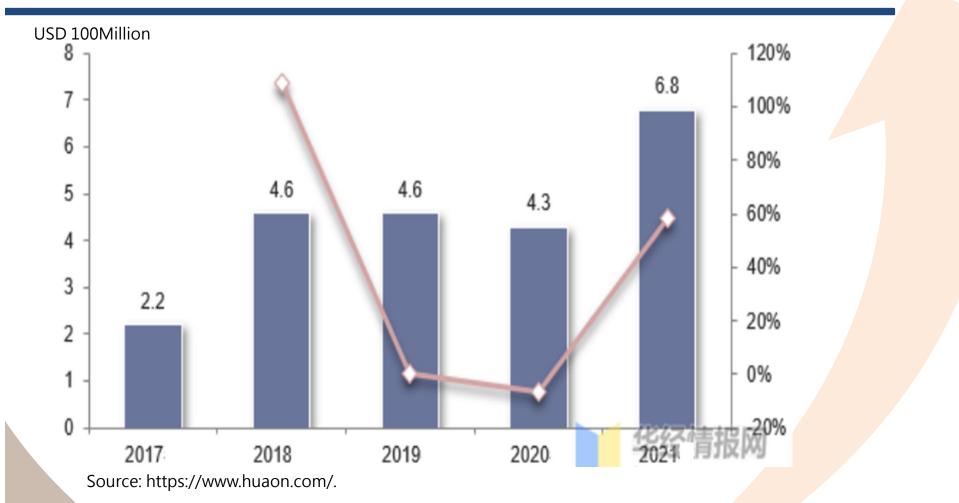


#### Global CMP Market

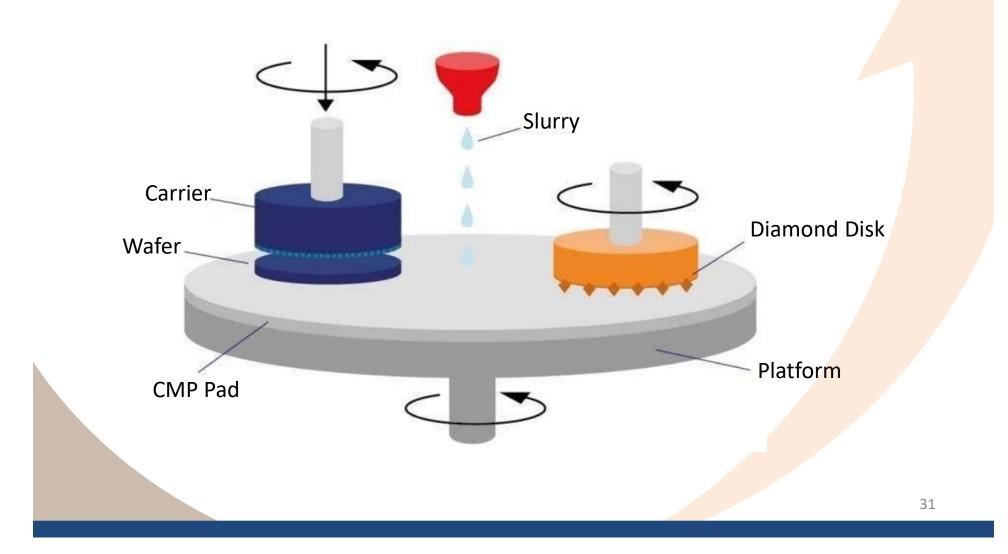




## China CMP Market

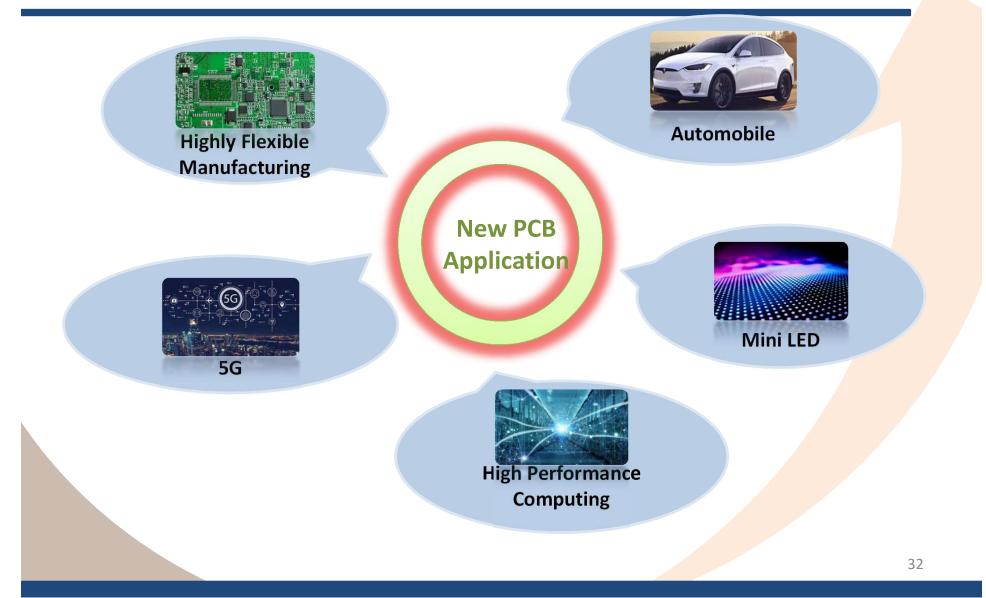




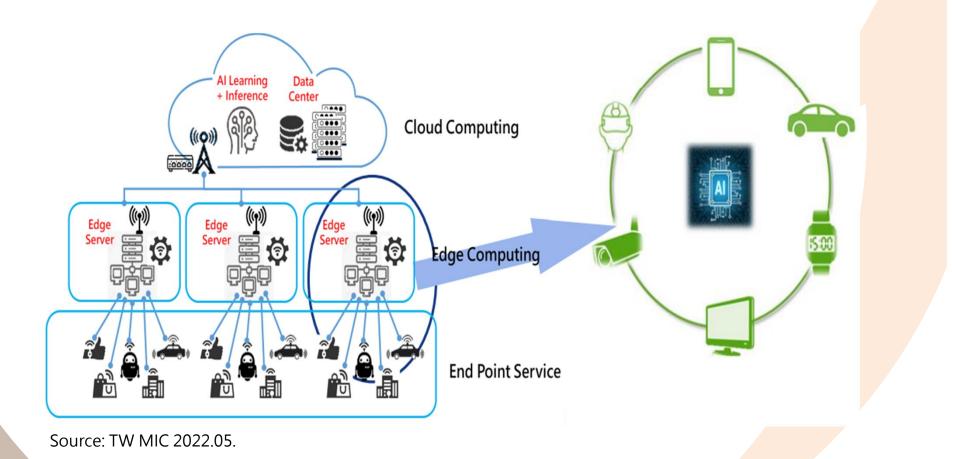




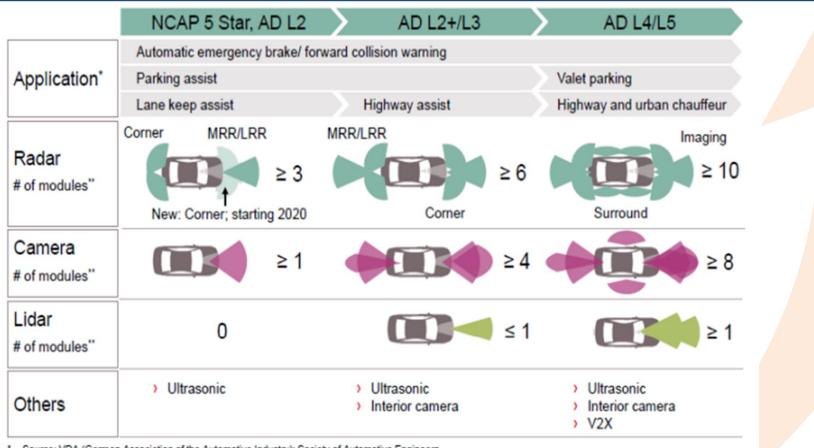
#### **New PCB Application**







## New Applications Drive PCB & Semi Demand

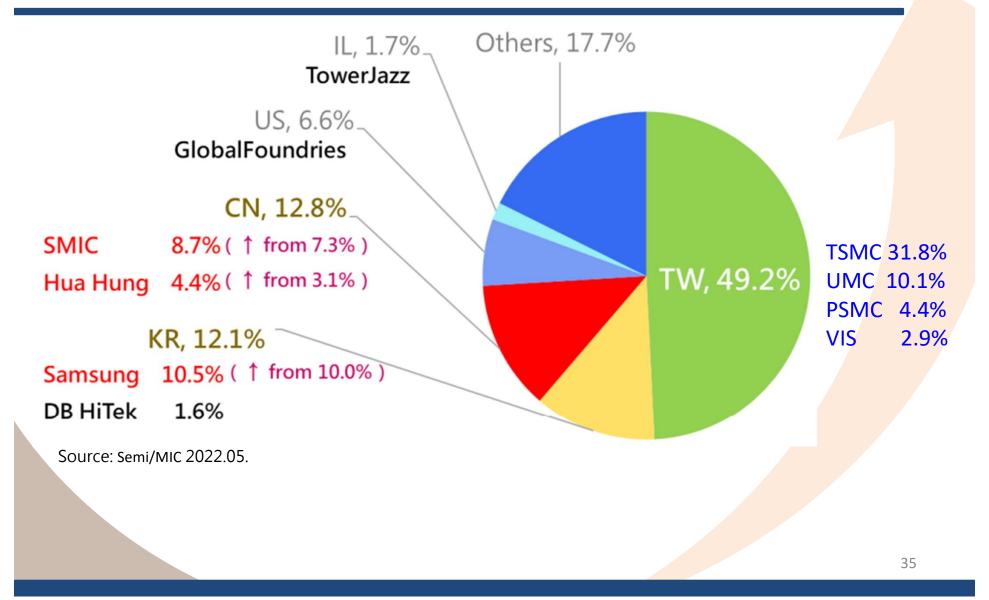


Source: VDA (German Association of the Automotive Industry); Society of Automotive Engineers

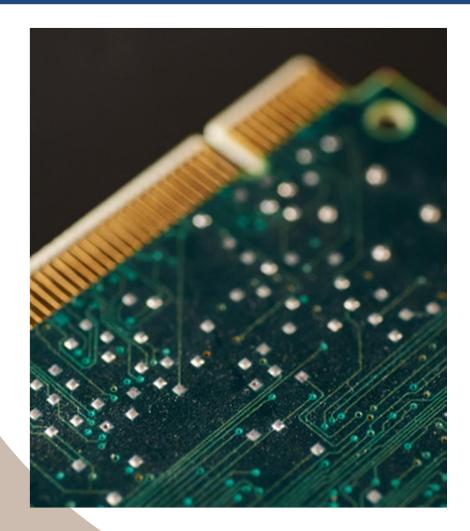
" market assumption

Source: Infineon 
STMicroelectronics 
MIC 2022.05.

## Capacity in Global foundry



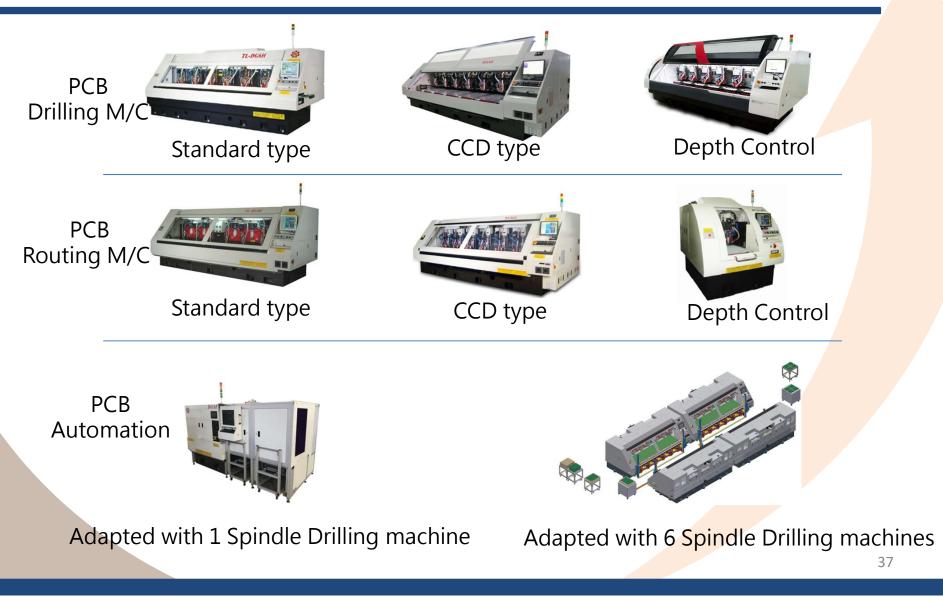




## Appendix



#### **Products in PCB industry**





#### Advantages to meet New requirements

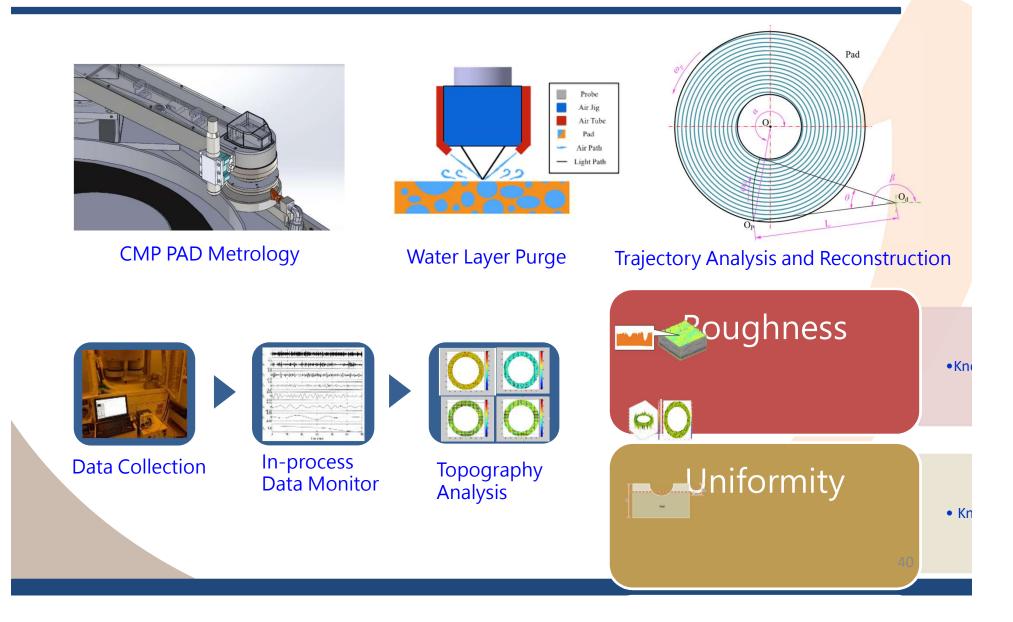
Method	Feasibility	Current Situation
Enhancing mechanical performance	Not Easy to reach	<ol> <li>The precision requirements for PCB equipment are getting higher and higher.</li> <li>The various functional advantages in the past are now the basic standard equipment in every manufacturer.</li> </ol>
		1. New PCB designs have characteristics of high-density, multi-layer, high-frequency or high-speed, thus the requirements of accuracy are much higher in position, depth controlling and precision.
Upgrade Software	High Entry Barrier	2. We(Ta Liang) improve the visual measurement, Cloud management and eliminate PCB expansion and contraction by software program (the position of X, Y axis, and the depth of Z axis).
	3.	3. TL has self-developed controller and abilities to develop the programs to meet customers' demands, unlike other competitors still using outsourcing software and programs.







#### **CMP PAD Metrology**





## **Metrology Patent**

CMP PAD Patent	Number/Application
Instant finishing method of CMP pad	1695754 (R.O.C.)
CMP pad Metrology method for chemical and mechanical equipment	Applying (R.O.C.)
Method for Repairing Polishing Pad in Real time	Applying (USA)
Detection Method and Detection Apparatus for Polishing Pad of Chemical Mechanical Polishing Device	Applying (USA)
Signal Analysis with AI module	Will Apply (R.O.C., USA)



ltems	Ta Liang	Sensofar	WaferMasters	NOVACAM
Source	Self-developed	Foreign	Foreign	Foreign
Туре	In-situ /Standalone	Standalone	Standalone	Standalone
Request	Dynamic	Static	Static	Static
Mode	Extensive	Single Point	Single Point	Single Point
Diagram				

Items	Before	After	
Roughness	Can't be Measured	Real-time Measured Monitoring	
Morphology	Limited sampling Measured	Real-time Large Area Monitoring	
Abrasion	Limited sampling Measured	Real-time Large Area or Zone Monitoring	
Micro Structure height	Limited sampling Measured	Real-time Measured Monitoring	



## Customers(PCB M/C)





## Customers(Semi con. M/C)





## Thank You!

## Ta Liang Technology Co., Ltd.