

Technoprobe S.p.A. Berenberg European Conference

December 2024



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Innovation begins with us

A leading company in the field of semiconductors and microelectronics



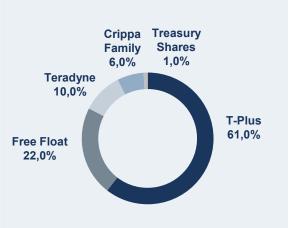


Company Overview

2023 Key financial metrics

Revenue	levenue Ebitda		Net Financial Position	Mkt Cap	
€409m +19% CAGR 19-23	€123m 30% EBITDA margin	€97m 24% on revenues	€351m as at 31/12/2023	~€3,8bIn as at 26/11/2024	

Shareholding Structure*





Leading player in designing and manufacturing of **probe cards**



Manufacturing process full vertical integrated



Strong focus on **innovation**



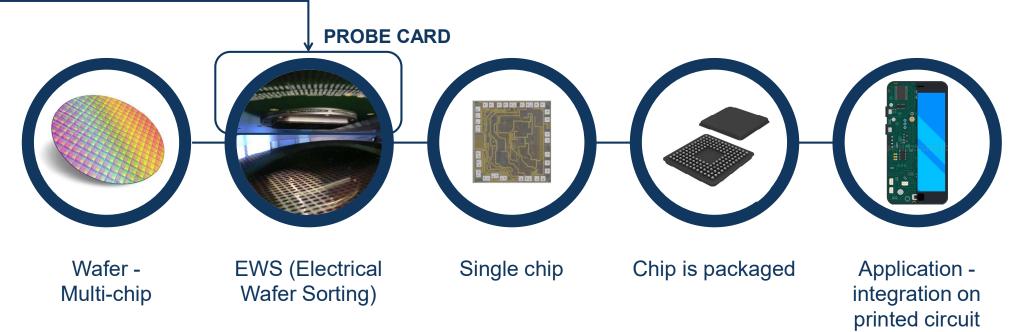
Extensive global presence and widespread local footprint

INNOVATION BEGINS WITH US *Listed on Euronext Milan since May 2, 2023

What is a Probe Card (1/2)

A **probe card** is an **electromechanical interface** that allows a chip to be tested when it is still on the wafer.

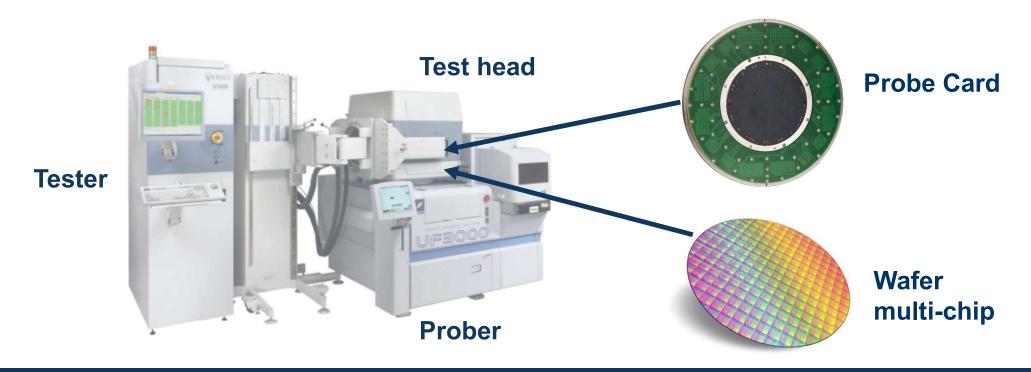






What is a Probe Card (2/2)

The probe card has very thin needles (**probes**) that touch the terminals (pads) of chips, thus electrically connecting to a **tester**.







Manufacturing



Offices





Our growth path



TP Singapore 2002



TP America TP Philippines 2008 2010



TP Italy Expansion 2011



TP Korea 2015

in Italy 2017

New fab



New fab and offices in Italy: Agrate, TPI5 Cernusco, Osnago 2021

1996 Technoprobe Foundation









TP acquires Microfabrica 2019



Grand Opening of new HQ 2017



Listed on the **Euronext Growth** Milan market 2022





Transition to the **Euronext Milan Market** 2023



TP acquires New office **Harbor Electronics** in Vimercate 2023



TP acquires **MW Plasma** 2023



TP acquires **DIS Tech** 2024



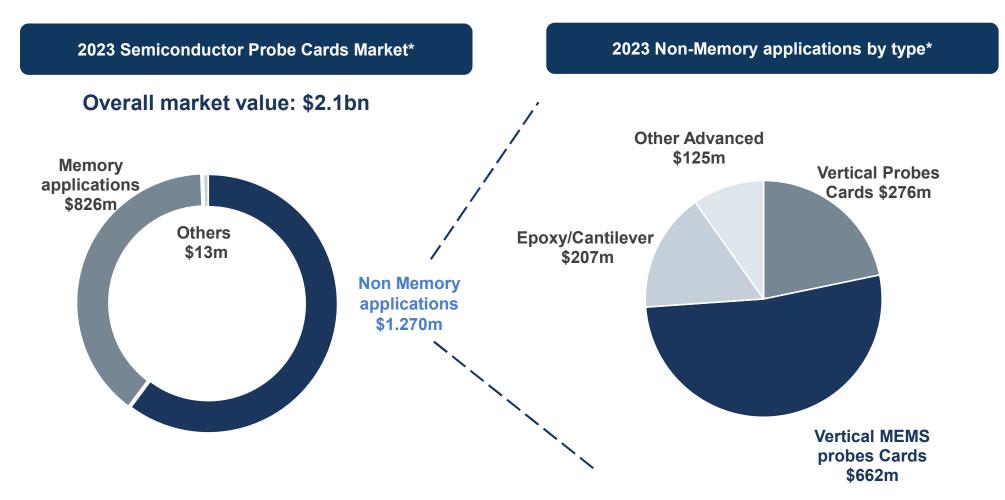




Reference Market



Overview of the Semiconductor Probe Cards market



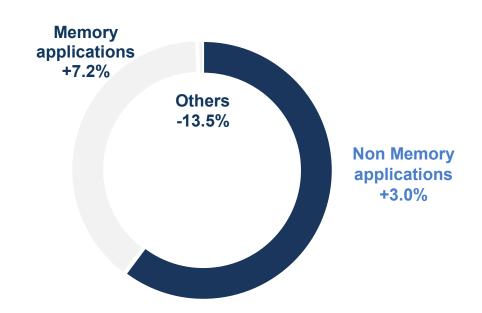




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Semiconductor Probe Cards Market 2019-2023 CAGR*

Overall market growth: +4.6%





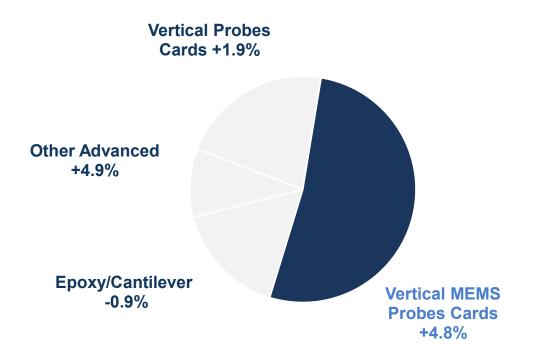


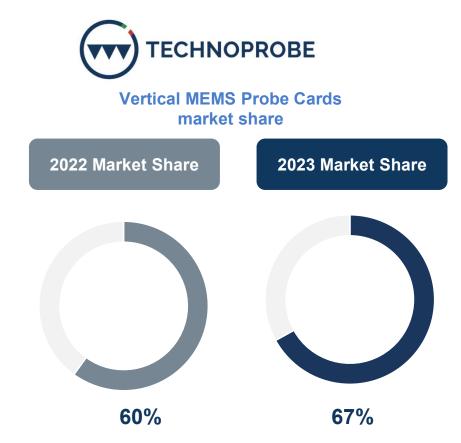
INNOVATION BEGINS WITH US *Source: TechInsights Market Report 2024, update May 24



Our serviceable available market

Non-Memory applications by type CAGR 2019-2023*







Compelling market characterized by solid entry barriers

Solutions and market intrinsic features...



Limited impact of probe card cost on tested products price



Strict quality requirements



Single use



Long approval process



Patent-protected engineered products



Additive manufacturing technology

... resulting in high barriers to entry CRITICAL SUPPLIERS
TO OEMs

LIMITED COMPETITION AND PRICE PRESSURE FOR CUSTOM-DEVELOPED PRODUCTS

ROADMAP FOR
PRODUCT DEVELOPMENT

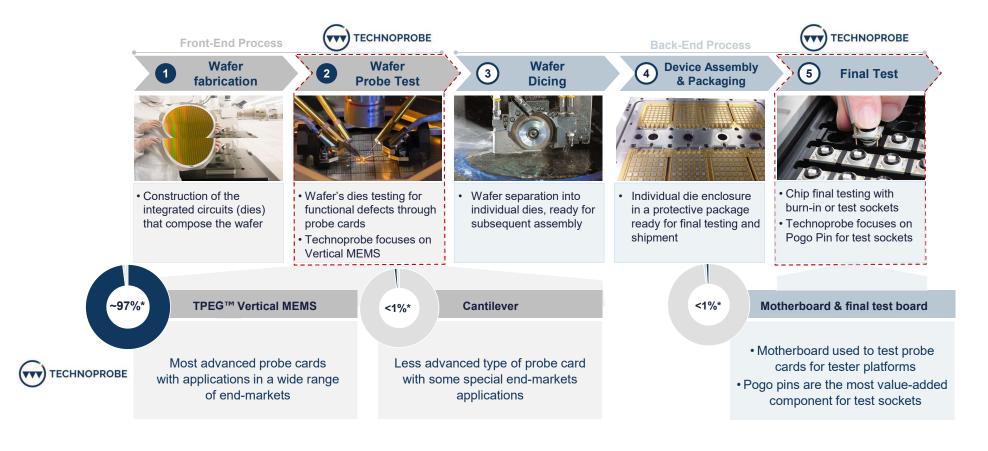
GLOBAL COMMERCIAL PRESENCE

HIGH IP CONTENT

SIGNIFICANT INITIAL CAPEX TO SET UP THE BUSINESS

INNOVATION BEGINS WITH US Source: Company information 12

Probe cards in the semiconductor manufacturing process



INNOVATION BEGINS WITH US Source: Company information 13



Business Model





A successful and vertically integrated business model

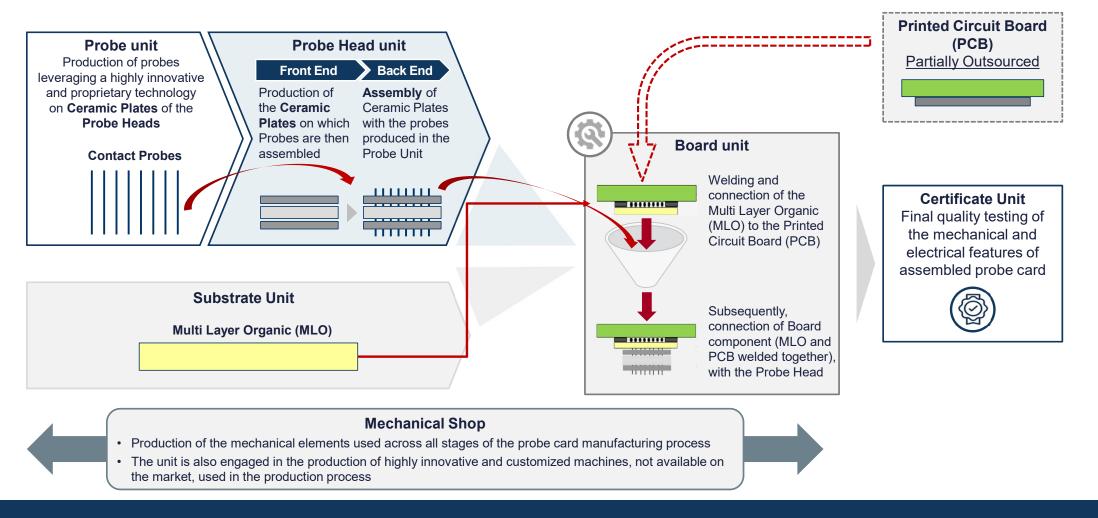
A winning business model has allowed Technoprobe to become the point of reference in the **MEMS non-memory-use market** thanks to the superior quality and performance of its products.

Probe Cards components	In-house designed	In-house manufacturing	Outsourced manufacturing		
1 PCB: Printed Circuit Board					
	√	√ (Partially)	✓ (Partially)	HARBOR ELECTRONICS, INC.	TECH
2 MLO: Multi-Layer Organic	√	√ (Partially)	✓ (Partially)		
3 Ceramic Plates					
	✓	✓	X		
4 Contact Probes					
	√	✓	X		

INNOVATION BEGINS WITH US Source: Company information



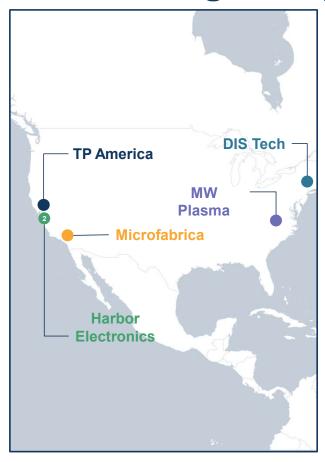
Overview of the Probe Cards manufacturing process



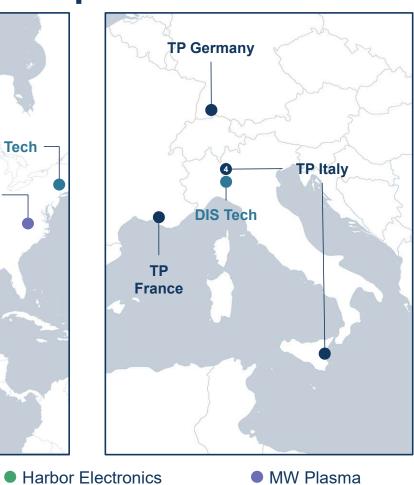
INNOVATION BEGINS WITH US Source: Company information 16

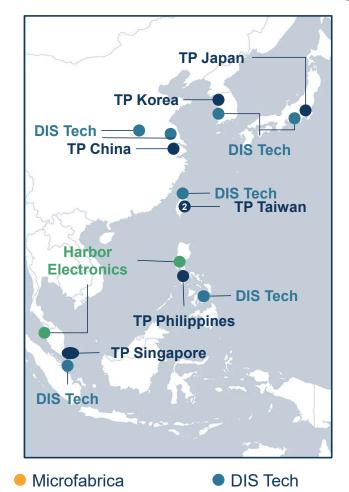
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Extensive global presence



Technoprobe









Advanced Micromachining

Advanced laser cutting: High accuracy and fast lead time

3D MEMS

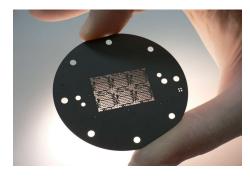
Acquisition of MICROFABRICA in 2019; the sole company in the world specialized in 3D metallic MEMS manufacturing

Thin film

Strong investment in advanced thin film technology to reduce lead time and improve quality and complexity

Advanced manufacturing

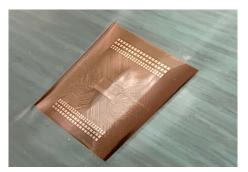
Advanced manufacturing for high volume and best quality assembly of micro components



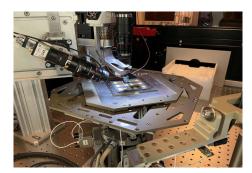










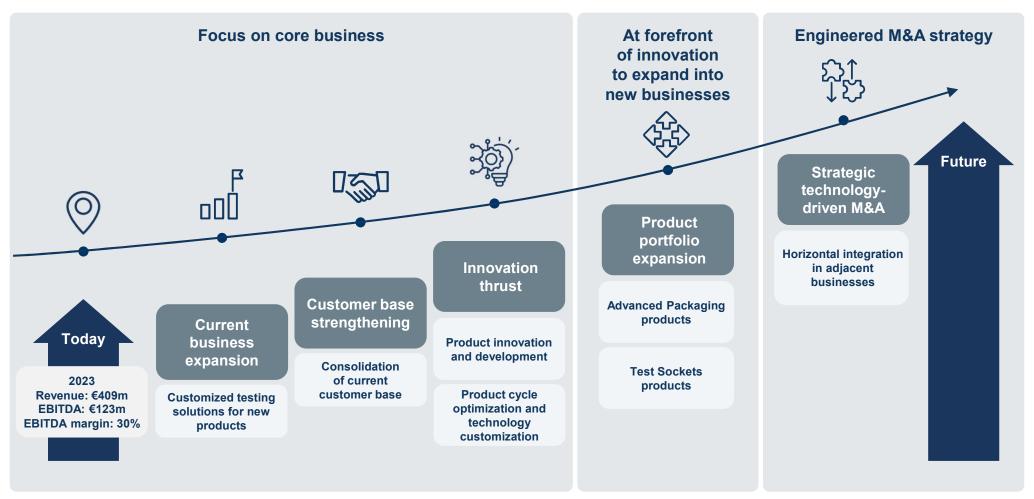




INNOVATION BEGINS WITH US Source: Company information 18



Overview of main strategic initiatives





9M Results

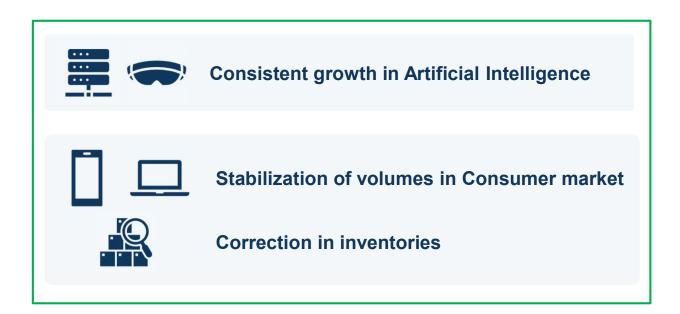






Revenues at 386.9€m

up 4.7% QoQ up 25.9% YoY





Financial Highlights



Q3 2024

9M 2024

Revenues were 145.8€m

up 31.2% YoY, up 4.7% QoQ

Gross Profit was **59.3€m**

up 8.0% YoY, with a margin of 40.7%

Ebitda was 34.6€m

down 3.4% YoY, with a margin of 23.7%

Revenues were 386.9€m

up 25.9% YoY

Gross Profit was 160.1€m

up 2.2% YoY, with a margin of 41.4%

Ebitda was 95.3€m

down 5.2% YoY, with a margin of 24.6%



9M 2024 results

	9M 2024	9M 2023	YoY Variance	Comments
€m				Revenues, driven by
Revenues	386.9	307.3	+25.9%	 Organic growth due to solid upward trend in AI change in the consolidation perimeter (Harbor Electronics and DIS Tech) partially offset by the weakness in automotive
				and industrial
Gross profit	160.1	156.7	+2.2%	Gross profit margin impacted by:
% margin	41.4%	51.0%		 expected dilutive effect from acquisitions manufacturing inefficiencies from product mix relevant increase of depreciation
EBITDA	95.3	100.5	-5.2%	Ebitda margin consistently affected by the acquisitions and the product complexity together
% margin	24.6%	32.7%		with a high level of investments in R&D (45€m)
				Net financial position: cash flow from operating
	30.09.2024	31.12.2023		activities (+64€m) and capital increase (+385€) partially offset by capex (-55€m), DIS acquisition
Net Financial Position	630.3	350.8		(-80€) and buy-back plan (-23€m)



Dis Acquisition





DIS Tech



With over 20 years of experience, DIS Tech is a business branch of Technoprobe S.p.A. aimed at strengthening company's competences in the PCBs and high-performance interfaces market consolidating the full vertical integration of its business model.

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Offices Worldwide 464

Employees Worldwide



Expected Synergies (1/2)





Consolidating the full **vertical integration** of our business model also leveraging on Harbor Electronics competencies

Probe Cards components	In-house designed	In-house manufacturing	Outsourced manufacturing		
PCB: Printed Circuit Board				HARBOR	DIS
	✓	✓ (Partially)	√ (Partially)	ELECTRONICS, INC:	DIS
2 MLO: Multi-Layer Organic	✓	✓ (Partially)	✓ (Partially)		
3 Ceramic Plates					
	✓	✓	*		
4 Contact Probes					
	✓	✓	*		



Position Technoprobe as leading player in the design and manufacturing of high end PCBs

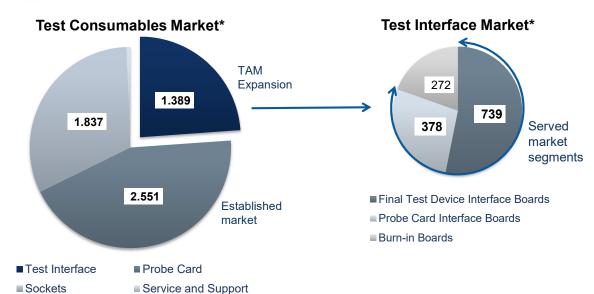


Expected Synergies (2/2)





Acceleration in the process to enter the final test and probe card interface markets



- TAM expansion into the \$1.1B* final test and probe card interface market
- Teradyne DIS and Harbor combined are the #1 supplier to the two served test interface segments
- The synergy of core competencies in design and manufacturing create opportunities to gain market share



Combine DIS and Harbor Electronics knowledge to enter a new market and gain market share

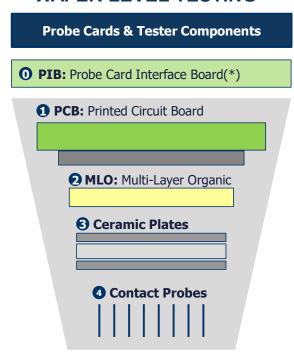
*Source: Market data provided by Yole Group (2022- USDm)

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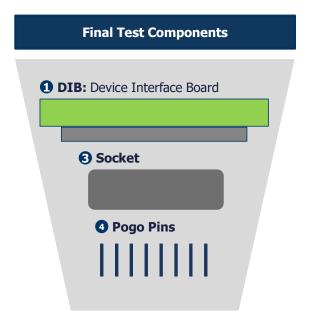
Glossary



WAFER LEVEL TESTING



FINAL TESTING



*If requested

Glossary

Device Interface Board (DIB): a Board used in the Final Testing of packaged devices. A DIB is typically composed of a large, high layer count PCB and assembled with thousands of components.

Probe Interface Board (PIB): a Board used as interface between tester and Probe Card Interface Board. These products are used only on certain tester configurations.

Probe Card Interface Board (PCB): a term used to identify the sub-assembly of a Probe Card PCB and substrate (when needed) before Probe Head mounting

Test Interface Board (TIB): a general term used to refer to a Device Interface Board or Probe Card Interface Board

