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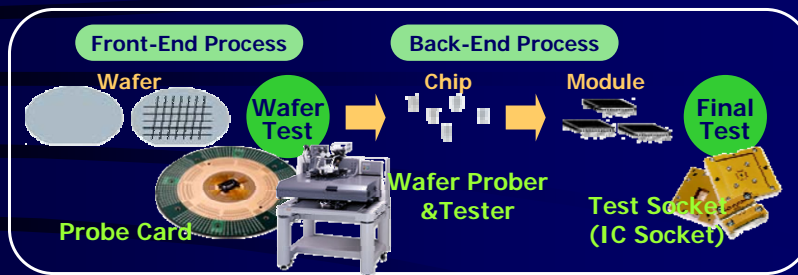
Feb. 2008



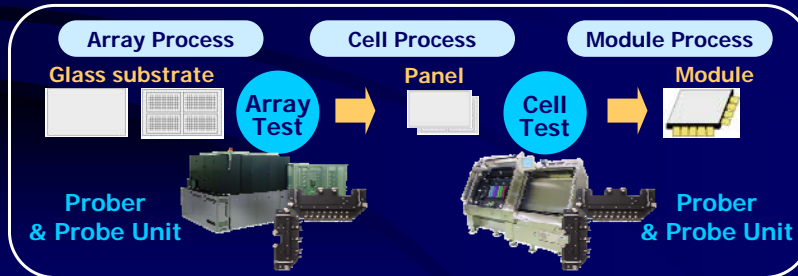
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Business Field

SEMICON
DUCTOR

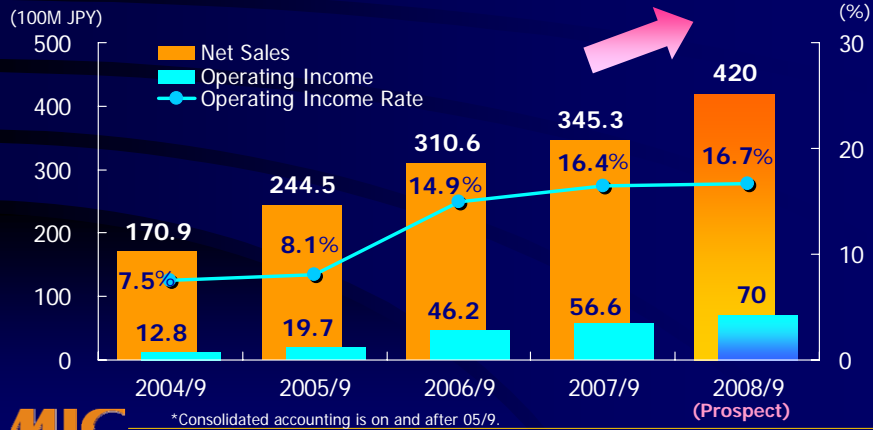
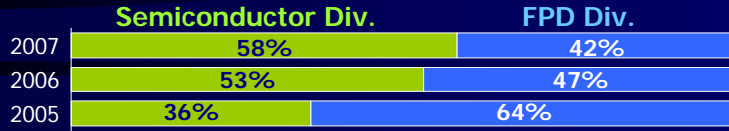


FPD(LCD)



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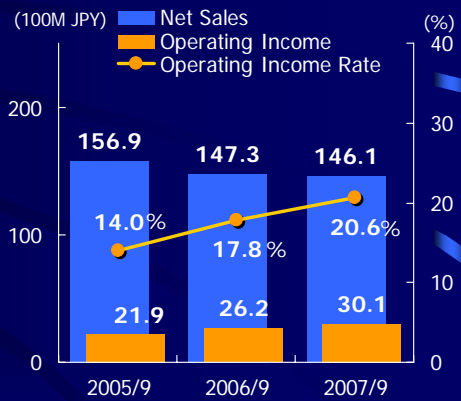
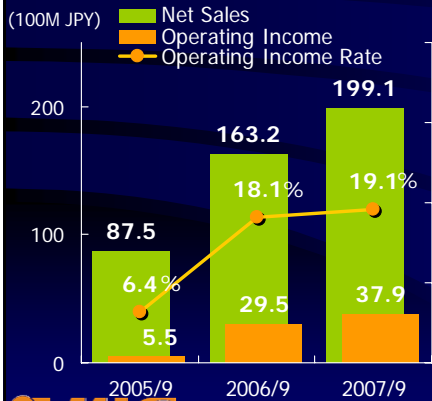
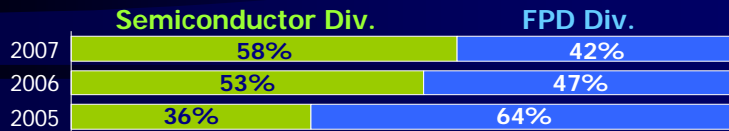
Business Performance Transition



*Consolidated accounting is on and after 05/9.

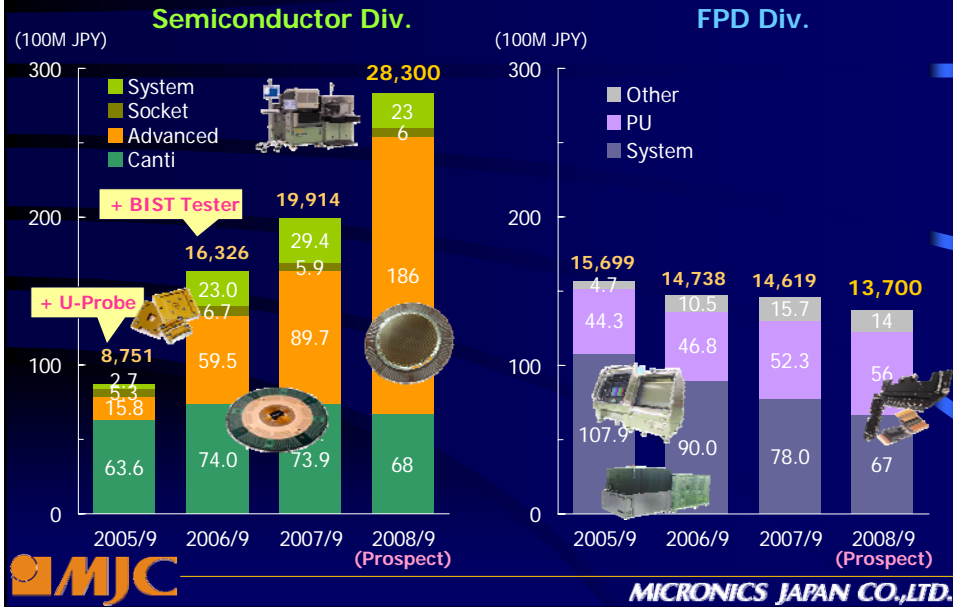
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Business Performance Transition

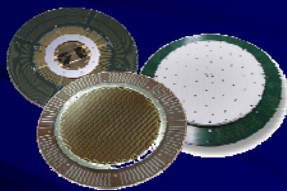


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Business Performance Transition



Semiconductor DIV.



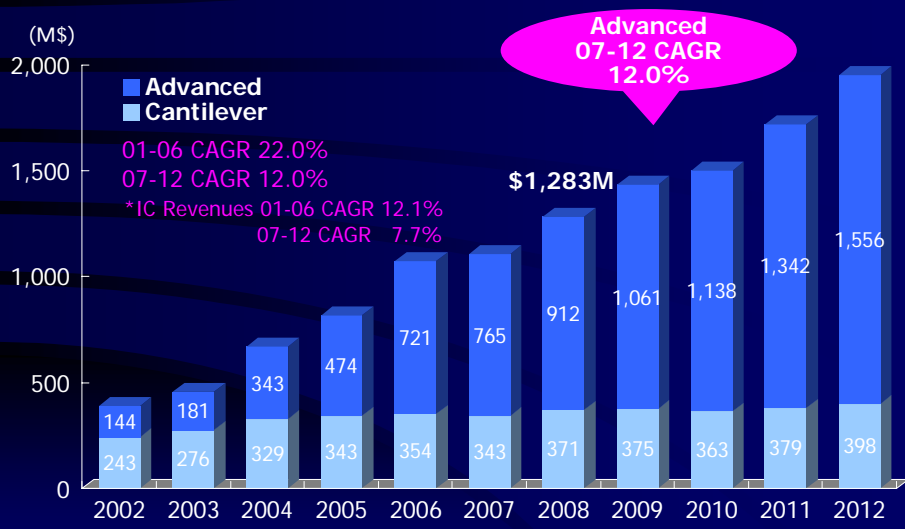
Probe Card Types

	Shape and features	Price	Market	Delivery	Method
Canti	Cantilever-type 	Low ↑ ↓	Vendor More ↑ ↓	Short ↑ ↓	Labor
	Vertical-type 				
Advanced	Lithography-type (MEMS, Membrane) 	High	Less	Relatively Long	Equipment



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Probe Card Market



Source VLSI Research Inc May 2007
MICRONICS JAPAN CO.,LTD.

Why Advanced Probe Card

- Improve Test efficiency

Most suitable multi-Die test

ex. DRAM Cantilever 64DUT, Vertical 128DUT,
MEMS 256DUT/384DUT

- Response to miniaturized structure Device

Fine Pitch, small PAD, etc...

- Fit the Known Good Die (KGD) Test

At-speed Test, Wafer Level Burn IN (WLBI) Test



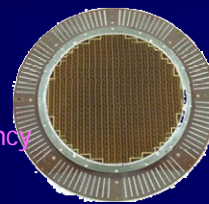
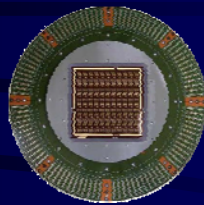
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Comparative Test efficacy

- Flash

traditional (Solid)

U-Probe for 12 inch

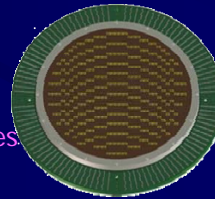
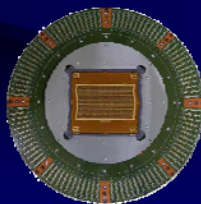


<
4 times efficiency

- DRAM

U-Probe traditional (Solid)

U-Probe Rainbow



<
1.2~1.5 times efficiency

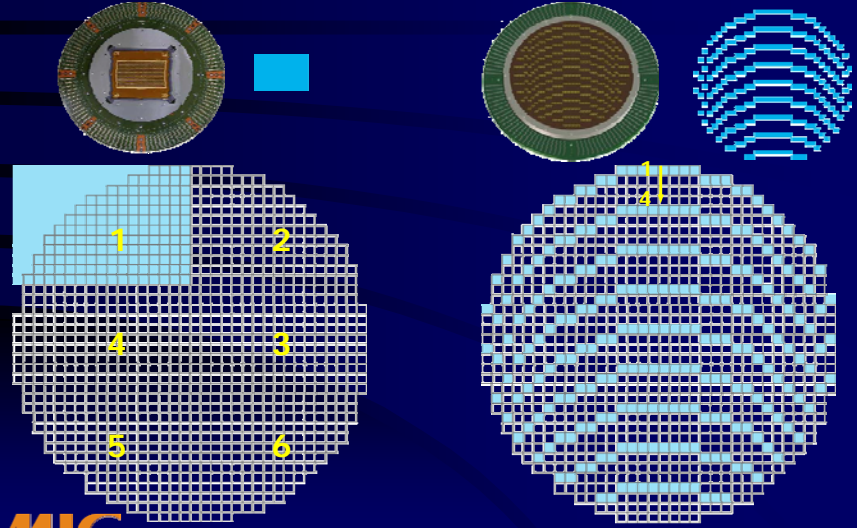


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Change the DRAM testing

Solid design

Rainbow design



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What's coming next

High pin counts

Progress Shared testing or Install high performance tester make the Die counts at one touch testing increase.

High speed

High speed testing reduce test time

High temperature adaptation

Increase the demand for Wafer Level Burn IN (WLBI) Test

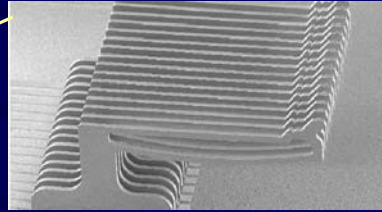
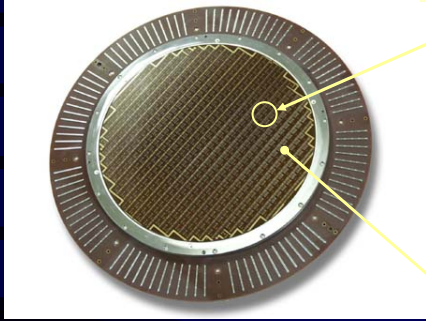


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MJC's MEMS Probe Card

"U-Probe"

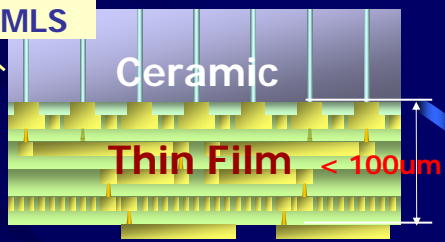
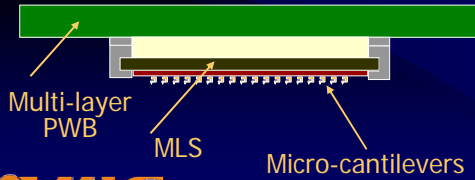
Micro-cantilevers



MLS

Ceramic

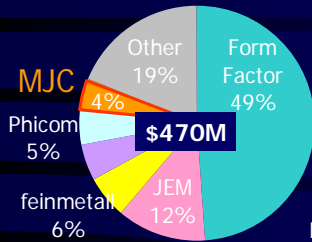
Thin Film < 100µm



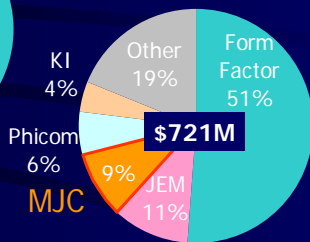
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Market Share Target

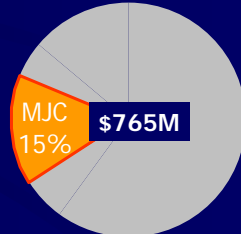
Advanced -CY2005



Advanced -CY2006



Advanced -CY2007



Target in CY 2008 is Share 25% or more.

* Share 20% or more of all Probe card.

Source: VLSI Research Inc
May 2006 and May 2007



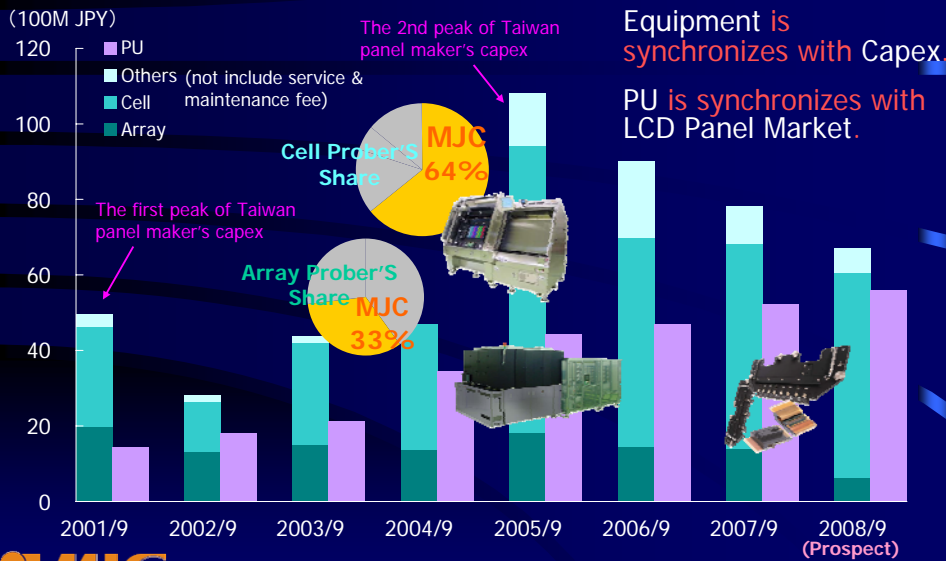
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FPD DIV.



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LCD Test Equipment



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MJC's Repair System

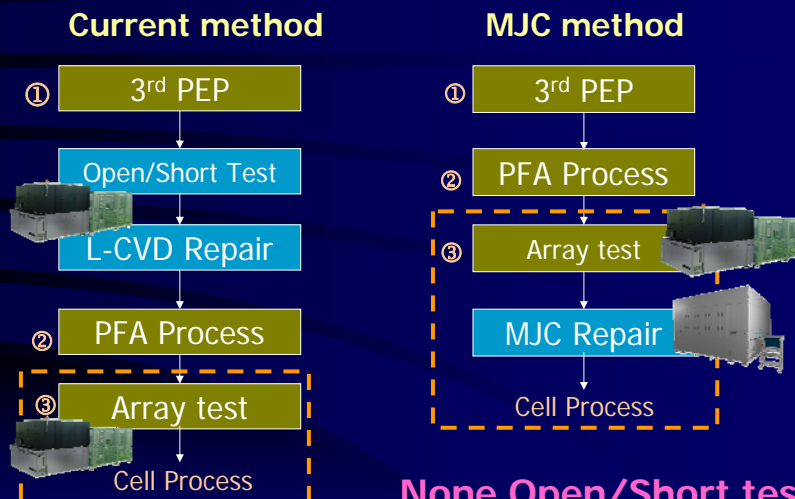
	L company	MJC
Draw speed	△ 5um/s	◎ 30-100um/s
Draw width	○ 3um	△ 7um (5um wt Laser trim)
Resistivity	△ Mo	◎ Au (15 μ Ω · cm)
Current capacity	△	○ 70 mA max
Step coverage	×	◎
Line Adhesion	◎	○
Material Safety	△	○
Machine Cost	×	◎
Running cost	○ Mo carbonyl	○ Au n-paste (40kus\$/Y)
UHA/PFA application	×	◎

NEO-7500



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New Repair Method reduces Process



None Open/Short test !

Note: UHA(Ultra high aperture), PFA(Polymer film on array) as organic passivation structure.



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MJC Repair's Merit

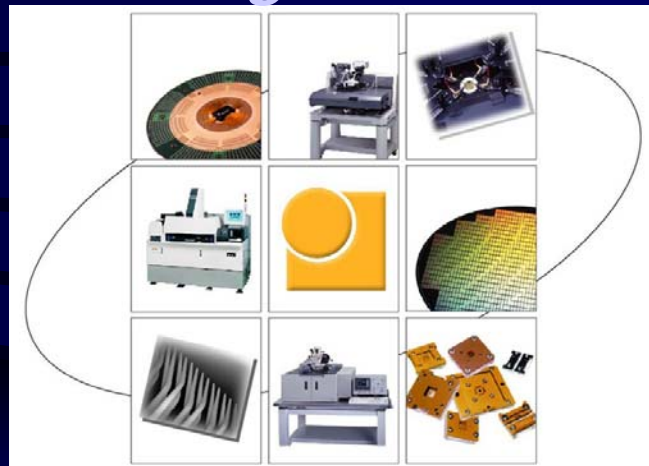
- Reduce O/S test process
- Short TAT
- Safety and low cost material
- High detect ability by Array test
- TFT full cover repair

Reduce test cost



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Probing the Future



Notice

Contents in this presentation material such as the product situation in the market are described based on information we can collect at present. Also, our strategy and goals are based on our present situation. Thus, please keep in mind that actual market situation and our future situation may be quite different from the description and information in this presentation material.



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