

Spirox Group

Professional Semiconductor Equipment Provider

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Agenda

- Company Profile & Product Portfolio
- Financial Review
- Q&A





Spirox Group

Professional Semiconductor Equipment Provider



Hsinchu, Taiwan | HQ



- Own Products
- Semiconductor Equipment Distribution
- Optical Technology R&D Center
- Board Repair Service

Subsidiary

Jetek Technology Corp.

- System Integration Services
- · Customized Test Solutions

Spirox Technology Shanghai

- · Semiconductor Equipment Distribution
- · Board Repair Service

Spirox Group

- Established in 1987
- TWSE: 3055, Listed in 2002
- Capital: 38.3M USD
- Market Cap: 294M USD (as of 2025/02/20)
- Employees: 161 (as of 2025/02)
- Business Coverage: Semiconductor Test / Package / Inspection Equipment

Spirox Products

- SP2500 SoC Test System
- MA6503D Micro Inspection System
- SP8000G/S Non-Destructive Laser Modification / TGV / TSV Inspection System
- SP8000A Laser Scanning Confocal Measurement Development Platform
- SP3055B Non-Destructive SiC Defects Inspection System

Southport Corporation

- · Advanced Optics Technologies
- · Compound Semiconductor Inspection System
- Confocal Measurement Development Platform

Distribution Products











Core Competencies







Business Philosophy

Build a customer-oriented culture and set win-win goals with customers and partners.



Industry Experience

With over 30 years of experience in semiconductor industry, Spirox has a strong and stable customer base.



Professional Team

R&D team as a percentage of total employees: 25% R&D team educational background: 55% hold a master's degree or higher



R&D Capability

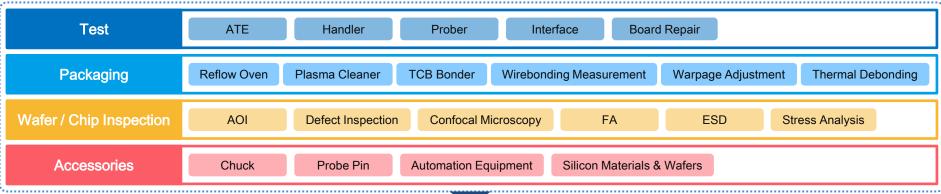
Invested in in-house R&D with test solution development capability Established an Optical Technology R&D Center 34 patent applications and 3 trademark registrations to date

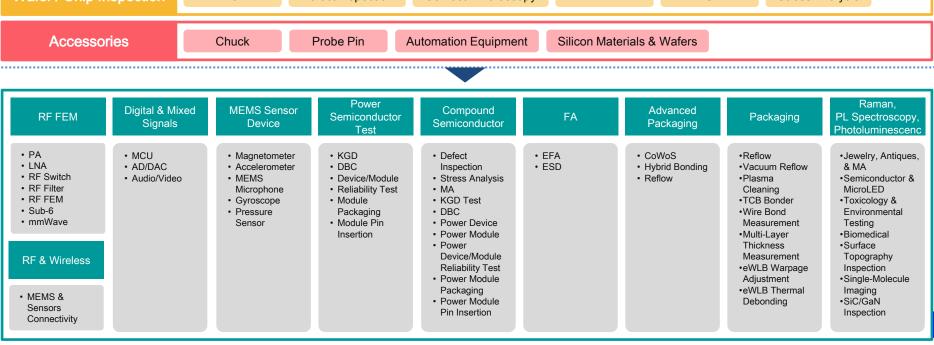


Strong FIN

Strong & health finance status

Product Categories and Applications







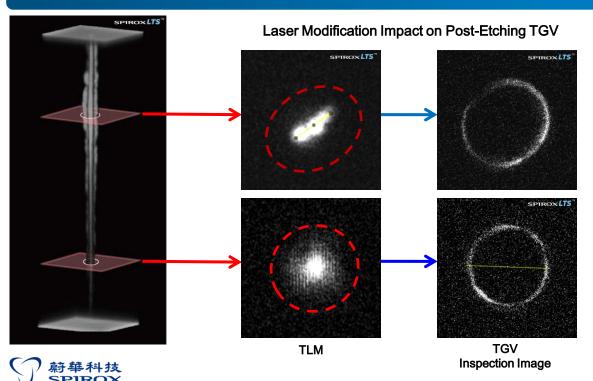
Own Technology and Own Products

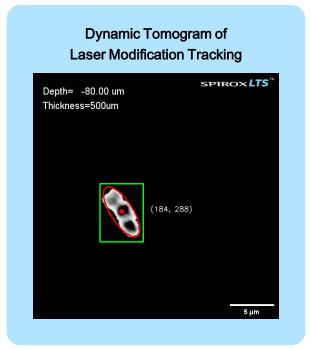
Spirox Laser Tomography Scan



Advanced Nonlinear Optical Measurement: SpiroxLTS technology precisely controls laser modification and glass compatibility!

Patent Pending



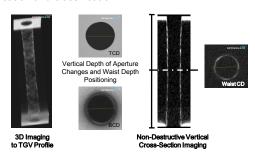


Non-Destructive Laser Modification / TGV / TSV Inspection System

SP8000G

TGV (Through Glass Via)

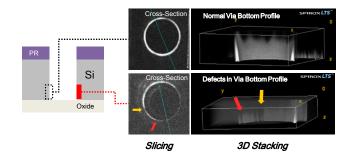
- Exclusive optical scanning technology with patented nondestructive defect inspection enables real-time analysis without making physical cross sections.
- Al-assisted precision inspection of TSV side walls ensures accurate defect detection, supporting both blind and through vias.
- TSV quality assessment across the entire functional die on the wafer enables precise quantified evaluation for the die qualification and classification.



SP8000S

TSV (Through Silicon Via)

- Exclusive optical scanning technology with patented SpiroxLTS technology enables real-time analysis without slicing.
- Al-assisted precision inspection of TSV walls ensures accurate defect detection, supporting both blind and through vias.
- TSV quality assessment across the entire die functional area on the wafer enables precise quantification to evaluate die yield and assist in classification.



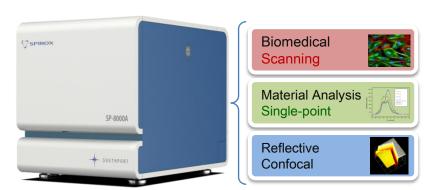


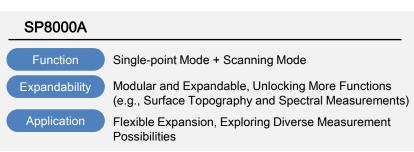
SPIROX

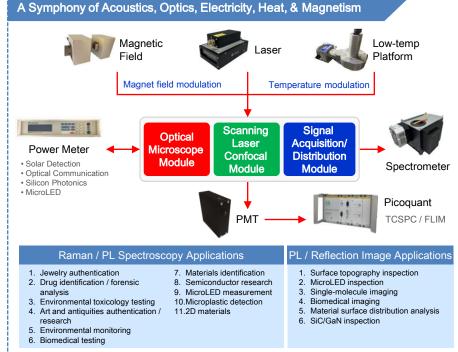
SP8000A: A Development Platform That Does More



More than just a single-function instrument, SP8000A offers diverse and versatile measurement capabilities.









Other Products and Services

Semiconductor IC Testing Equipment





Turbodynamics

ATE Docking Systems

Spirox

ATE/Prober Board Repair

AFORE(AEM)

MPP



Semiconductor Packaging Equipment













Wafer/Chip Inspection Equipment



High Reliability



EFA



HAMAMATSU

- Front side/Back side EFA
- Static/Dyanmic EFA
- Magnetic Optical Current Imaging

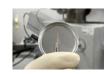
ESD



HANWA

- HBM/CDM/TLP ESD
- Lactch Up
- Wafer Level ESD

Nano Probes





 Meet the demands for failure analysis in 3 nm process

AOI (Wafer)



TORAY

TASMIT, Inc.

- Whole Wafer/Sawn Wafer
- Thin Wafer
- Color Camera Inspection



新華科技 SPIROX

- Replace QC visual inspection on surface defects
- Auto-storing Defects Image
- Position Coordinate Records

AOI (PKG)





- Auto-pitch adjustment of sealing blade for efficiency
- Post-sealing inspection ensures quality service
- Friendly user-interface



- Replace manual IQC incoming inspection
- Replace manual FT first tray inspection and IPQC
- Provide tray maps for data comparison and tracking



Jetek Technology

Customization Test Solutions



System Integration

Flexibility: Fast function expansion

Friendly: One Human-Computer Interface

Test Module Board Design

Develop cost-effective and precise measure module to fulfill customer demands

Software Development

Customized developing environment and analysis tools for more effective engineering process



Close team work with customers to achieve win-win goal



Bio-Sensor



CIS



MEMS (MIC,TPMS)



Silicon Photonics Test Solution



Automation Test Recipe Maintain



Data Analysis & Operation



Datalog Store & Management

Support Instruments

- Laser & Power meter: EXFO, Santec, Keysight
- OFDR: Luna, Santec
- Network Analyzer: Anritsu, R&S
- SMU: NI, Keithley



Test Stage

- Probe Station: FormFactor, MPI
- Mechanical Arm: PI, SURUGA



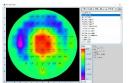




Diverse and Scalable Data Analytics Platform













Financial Review

Summary of Consolidated Balance Sheet

SPIROX CORPORATION and Subsidiaries

Summary of Consolidated Balance Shee (In NT\$ Millions)

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	2023.12.31	2024.12.31	change
Cash and time deposits(AC)	1,554	1,400	(154)
Accounts Receivable,net	337	202	(135)
Other receivable, net	53	10	(43)
Inventories, net	74	70	(4)
Financial Assets(except AC	789	121	(669)
Property, plant and equipme	616	589	(26)
Other assets	202	204	2
Total Assets	3,624	2,596	(1,028)
Borrowings	421	77	(345)
Contract Liabilities	83	42	(42)
Account payable & other Li	523	351	(172)
Total Liabilities	1,027	469	(558)
Common Stock	1,150	1,150	0
Additional Paid-In Capital	437	391	(46)
Retained Earnings	1,102	785	(318)
Other Equity+Treasury Stoo	(171)	(247)	(75)
Minority Interest	79	49	(30)
Total equity	2,597	2,127	(470)

Consolidated total assets decreased by NT\$1.028 billion, mainly due to:

- * A decrease in consolidated liabilities and payables by NT\$558 million, Net cash outflow from operating activities during the period of NT\$211 million,
- * Repurchase of company shares amounting to NT\$112 million,
- * Cash dividends distributed totaling NT\$114 million.



Summary of Statements of Consolidated Income (YoY & QoQ)

SPIROX CORPORATION and Subsidiaries

Summary of Consolidated Statements of Income (In N	NT\$ Millions)	
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	112/Q4	113/Q1	113/Q2	113/Q3	113/Q4	112	113
Net Revenue	308	223	166	221	63	1,343	673
YoY	(88)	(142)	(191)	(91)	(245)	(572)	(669)
YoY%	-22.1%	-39.0%	-53.5%	-29.2%	-79.5%	-29.9%	-49.9%
Gross Profit	71	47	46	30	14	238	138
YoY	72	22	(27)	(39)	(57)	67	(101)
YoY%	7097.2%	87.4%	-37.2%	-56.4%	-79.7%	38.8%	-42.2%
GP Margin %	23.1%	21.2%	27.6%	13.6%	22.9%	17.8%	20.5%
Operating Expense	107	78	100	92	134	428	404
YoY	(49)	(30)	8	(29)	27	(161)	(25)
YoY%	-31.5%	-27.6%	8.2%	-24.3%	25.4%	-27.4%	-5.7%
Operating Income	(37)	(31)	(54)	(62)	(119)	(191)	(266)
YoY	120	52	(35)	(9)	(82)	225	(75)
YoY%	76.2%	62.7%	-180.5%	-18.0%	-219.4%	54.0%	-39.0%
Op. Income(loss) n	-12.1%	-13.8%	-32.7%	-28.0%	-188.9%	-14.3%	-39.5%
Non-Operating Re	37	(100)	39	6	30	146	(25)
YoY	(503)	(309)	64	80	(7)	(587)	(171)
YoY%	-93.2%	-148.2%	257.1%	108.0%	-18.8%		-117.2%
as % of revenue	12.0%	-45.0%	23.5%	2.7%	47.5%	10.9%	-3.7%
Net Income (loss)	8	(112)	(14)	(52)	(98)	(55)	(276)
YoY	(325)	(215)	35	66	(106)	(312)	(221)
YoY%	-97.6%	-208.3%	71.1%	55.6%	-1313.6%	-121.5%	-399.5%
Net Income (loss)	2.6%	-50.1%	-8.4%	-23.7%	-154.8%	-4.1%	-41 .0%
Net Incom (loss) attributable to:							
Owners of the l	7	(105)	(10)	(48)	(88)	(56)	(252)
Non-controlling	1	(6)	(4)	(5)	(9)	1	(24)
EPS (NT Dollars)	0.06	(0.90)	(0.09)	(0.43)	(0.78)	(0.49)	(2.23)



Summary of Consolidated Cash Flow Highlights & Financial Ratio

Consolidated Statements of Cash Floows Summary	(In NT\$ Millions)			_
item	2022	2023	2024]
Net cash generated from (used in) Op. activities	253	138	(211)	—
Net cash used in investing activities	(245)	615	577	_
Net cash generated from financing activities	64	(396)	(564)	_
Cash and cash equivalents at the end of the year	1,103	1,554	1,400	
			1	•
Financial Analysis Summary	cash+4	51M -	- <u>154M</u>	
item	2022	2023	2024	
Account Receivable turnover days	√ 135	√ 123	× 165	—
Inventory turnover days	√ 51	× 74	× 128	—
Debts ratio%	√ 30%	√ 28%	√ 18%	—
Current ratio%	√403%	×354%	√ 555%	←
ROA%	5.44%	→ -1.22%	-8.73%	
ROE%	9.63%	-2.03%	■-11.68%	





Q & A



Thank you.