



Park Systems Investor Relations

Enabling Nanoscale Advances

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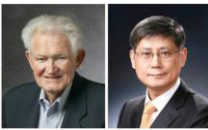
Introduction

- Over 30 yrs. History
- Customers
- Product Line
- Global Channels
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Over 30-Year History in Atomic Force Microscopy

Park Systems was founded by one of the original developers of atomic force microscopy (AFM) to bring the world's most accurate nanoscale metrology and imaging instruments to a broad market.

The Birth-Place of AFM



Stanford University

1982-1988

The First AFM Company



Park Scientific Instruments

1988-1997

세계 최초 원자현미경 개발 실리콘밸리 성공 신화 주역 고국서 두 번째 '벤처 人生'

대구가족기업의 박정호 회장(왼쪽)은 1988년 미국 실리콘밸리에서 원자현미경 개발을 주도한 박정호 회장을 소개하고 있다. 박정호 회장은 1988년 미국 실리콘밸리에서 원자현미경 개발을 주도한 박정호 회장을 소개하고 있다. 박정호 회장은 1988년 미국 실리콘밸리에서 원자현미경 개발을 주도한 박정호 회장을 소개하고 있다.

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The AFM Technology Innovator



1997-Present

KOSDAQ LISTED COMPANY 2015

세계 2위, 국내 유일 - 원자현미경 분야 '매운 고추'

박재호, 스탠포드에서 물리학 전공 후 교수로도 활동해 나눈 박재호 박사는 원자현미경 개발을 주도한 박정호 회장을 소개하고 있다. 박정호 회장은 1988년 미국 실리콘밸리에서 원자현미경 개발을 주도한 박정호 회장을 소개하고 있다.

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→ Customers

Park Systems' AFM is widely used for nanoscale measurement in Fabs, Global universities, State-run research institutes, Corporate research institutes, and Global semiconductor companies.



Product Line

Park Systems supplies research products for nanotechnology research and industrial products used by HDD manufacturers, Semiconductor manufacturers, and Display manufacturers around the world.

Research



Park NX7



Park NX10



Park NX20



Park NX12



Park NX-Hivac



Park FX40

Park
SYSTEMS

Industrial



Park NX-HDM



Park NX-3DM



Park NX-TSH



Park NX-Wafer



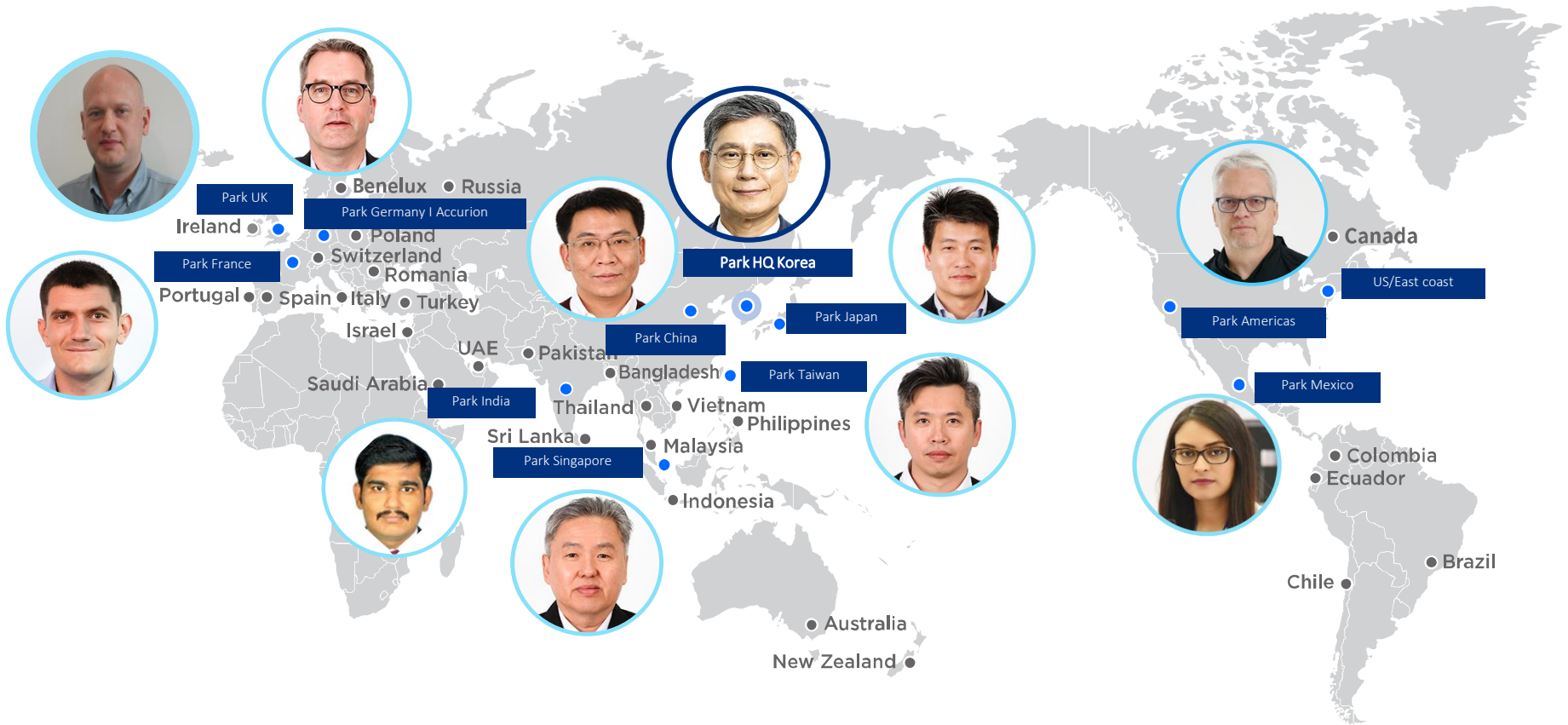
Park NX-Hybrid WLI



Park NX-Mask

Global Sales and Service Channels

Park Systems operates 12 local offices in 11 countries around the world and has established a sales network in 30 other countries and provided its own brand of products directly to customers worldwide.

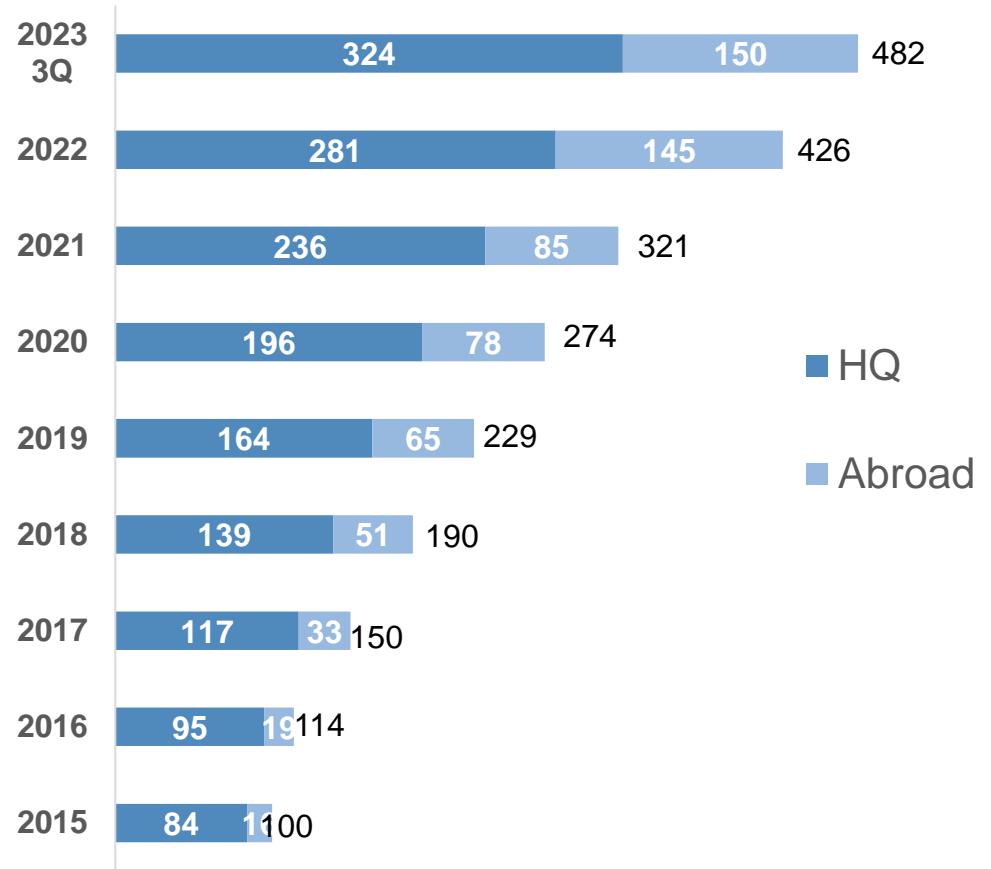


Park Systems currently has a total of 474 employees, 324 in Korea and 150 overseas.

Status of Employees



Total employees :
474 (As of 2023.09.30)



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Competitiveness

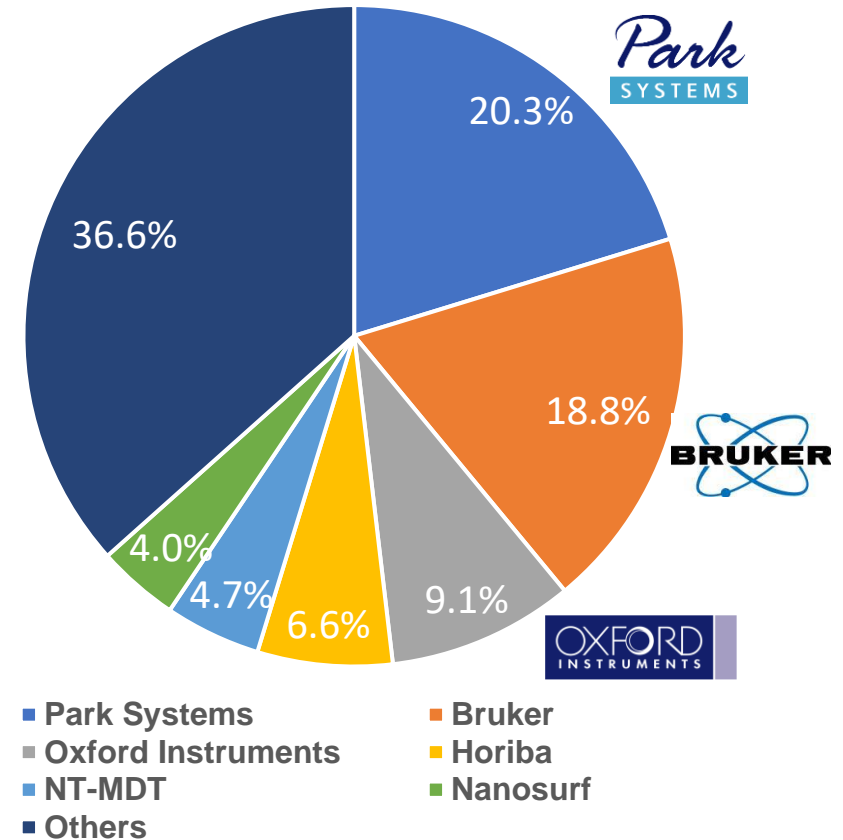
- Market size & Competitors
- R&D Focused Investment
- AFM Technology & Industrial Automation
- Patents

Market size & Competitors

Global No.1 AFM Player*

- Park Systems, a leading manufacturer of Atomic-Force Microscopy (AFM) systems, is the number one global leader in the industry.
- According to the recently released "Global Atomic-Force Microscopy Market Report" by QY Research 2023, Park Systems has overtaken long-time leader Bruker and other competitors, including Oxford Instruments, to secure the top position.
- The report states that in 2022, Park Systems' AFM revenue of \$84.72 million surpassed Bruker's revenue of \$78.44 million, and this trend is expected to continue with a wider margin in 2023, with Park Systems leading the market share by 29%.

Top 6 AFM Manufacturers*

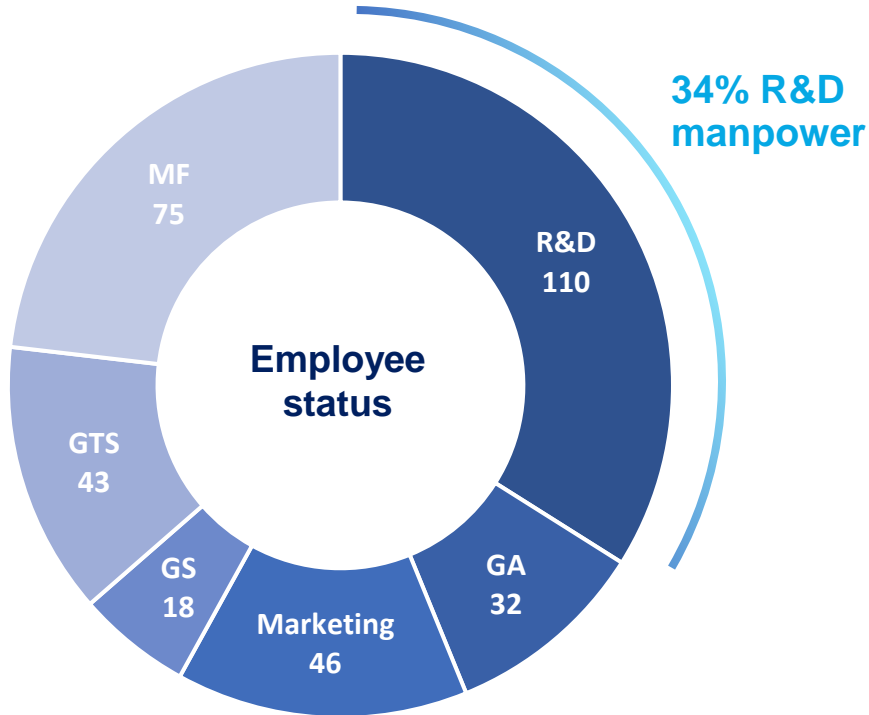


* Source: Global Atomic-force Microscopy Market Report(History and Forecast 2018-2029) by QYResearch

→ R&D Focused Investment

Park Systems is a world leading manufacturer of Atomic Force Microscopes. Headquartered in Suwon, Korea, the company has a **world-class R&D innovation capability for nanoscale metrology**.

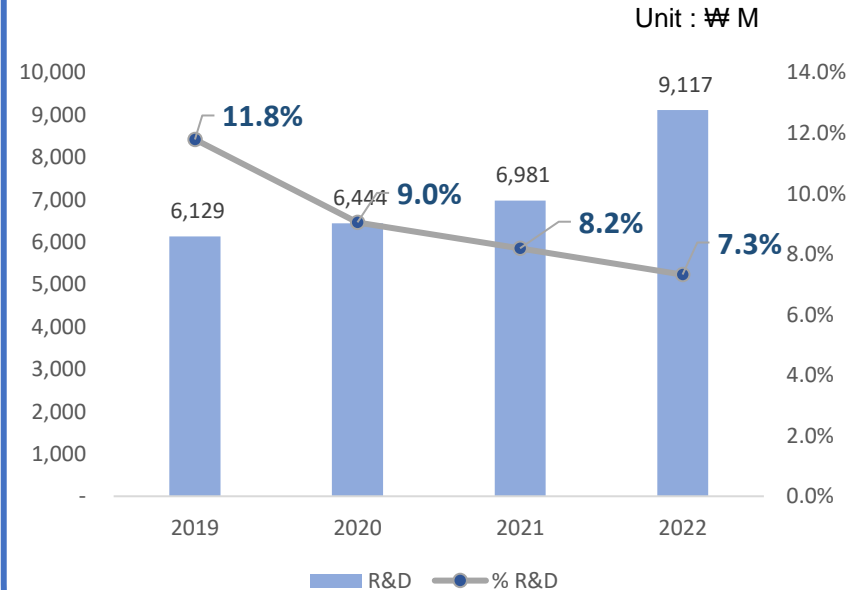
**Manpower by Department
(As of 2023.09.30)**



* The number of employees is based on H.Q

**R&D Expenditure
(As of 2022.12.31)**

Ratio of R&D to Revenue



* This information is based on **consolidated** Financial Statements

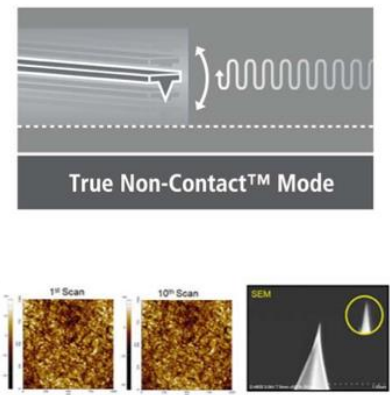
→ Innovative Technology

Park Systems has industry-leading atomic force microscope (AFM) core technologies that provide the accuracy and highest resolution of AFM measurements while maximizing user convenience ready for industrial automation.




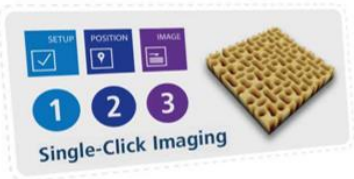
Measurement Accuracy

Park AFM Scanners
Decoupled XY & Z Scanners



Best Resolution

Park AFM Mode
True Non-Contact™ Mode



User Convenience

Park Operating Software
SmartScan™, SmartAnalysis™, XEA

*Park AFM Innovative technology : <https://youtu.be/wiFCYFrXkek>

→ Patents

Division	Contents	Registration date
Patent	ATOMICFORCEMICROSCOPEEQUIPPEDWITHOPTICALMEASUREMENT DEVICEANDMETHODOFACQUIRINGINFORMATIONONSURFACEOFMEASUREMENTTARGETUSINGTHESAME	2023-04-04
Patent	MEASURING METHOD FOR MEASURING HEAT DISTRIBUTION OF SPECIFIC SPACE USING STHM PROBE, METHOD AND DEVICE FOR DETECTING BEAM SPOT OF LIGHT SOURCE	2023-03-21
Patent	An apparatus and method for recognizing a target position in an AFM	2023-03-08
Patent	A method for measuring the heat distribution in a specific space using a thermal sensing probe, a method for detecting a beam spot of a light source, and a device	2022-12-09
Patent	Devices and methods for recognizing probe types in an AFM	2022-11-04
Patent	A method for measuring the heat distribution in a specific space using a thermal sensing probe, a method for detecting a beam spot of a light source, and a device	2022-06-27
Patent	An AFM equipped with an optical measurement device and a method of obtaining information on the surface to be measured using it	2022-06-13
Patent	How to obtain the properties of the surface of the measurement target using an inclined tip, an AFM for this method to be performed, and a computer program stored in a storage medium to perform this method	2021-12-24
Patent	Chip carrier exchanging device and atomic force microscopy apparatus having same	2021-11-16
Patent	AFM and control methods capable of automatic exchange of chip carriers	2020-11-25

43 cases of domestic and international patents in the field of atomic force microscopy

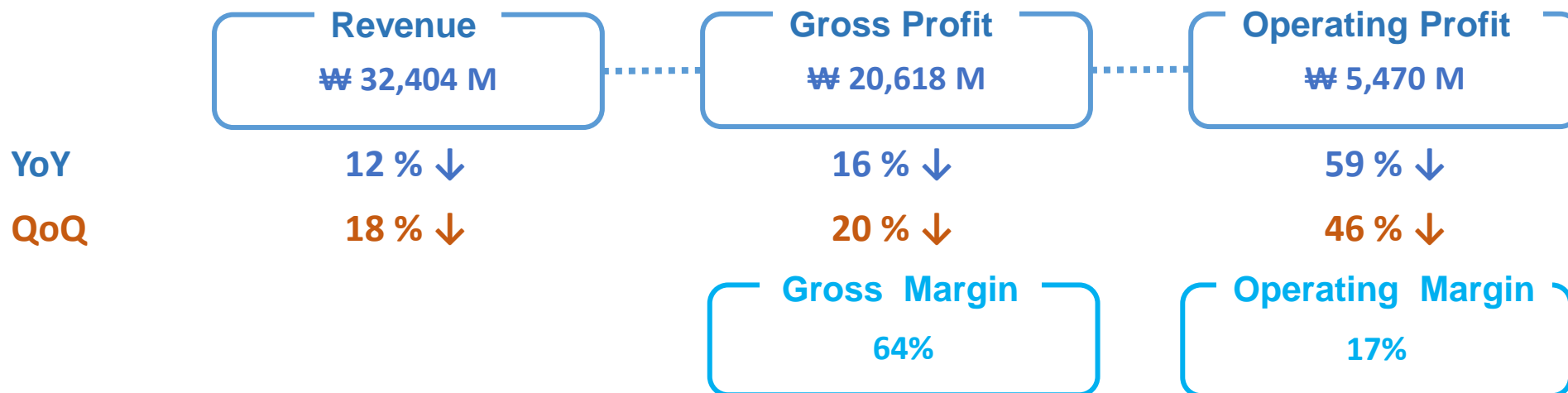
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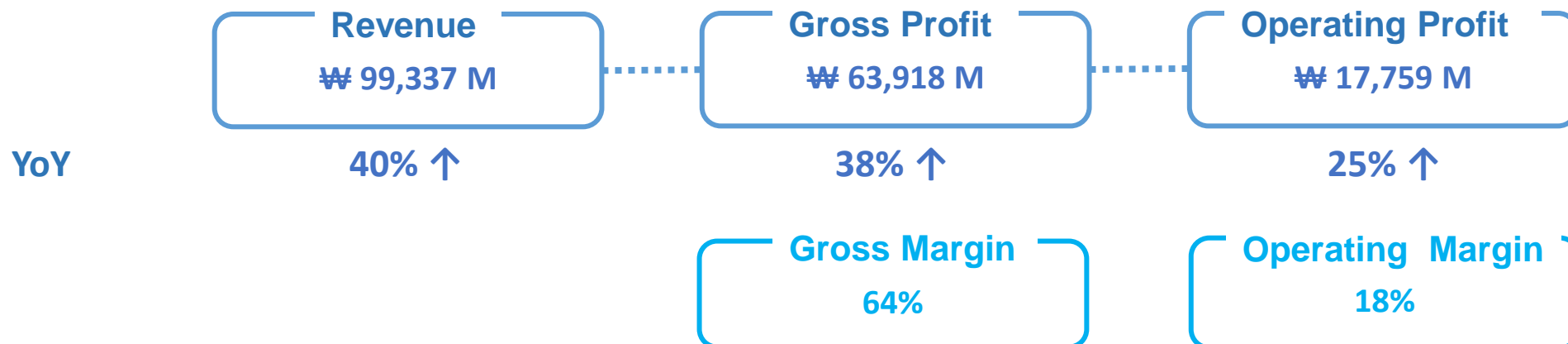
Financials

- Highlights of I/S
- Seasonality
- Sales Breakdown
- Order backlog
- Appendix

→ Highlight of I/S for 3Q, 2023



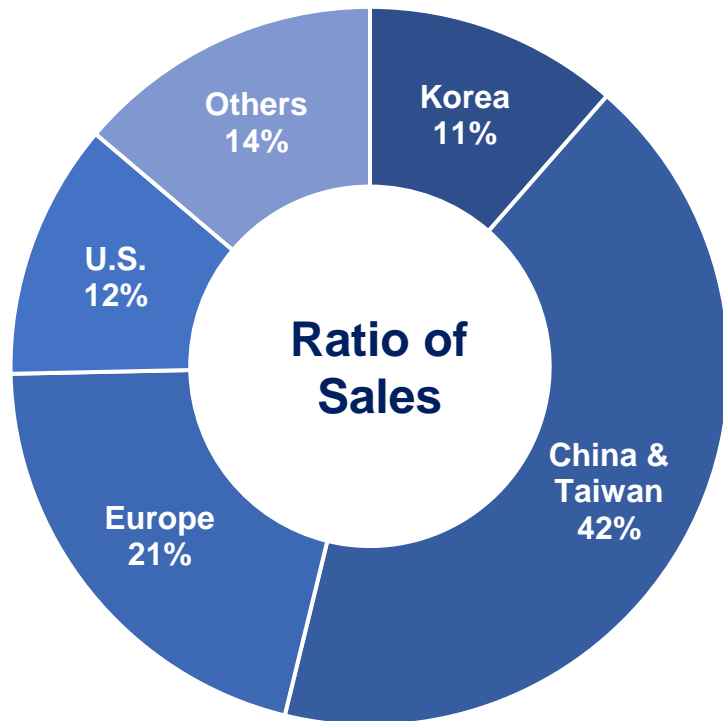
→ Highlight of I/S for 3Q (Accumulated), 2023



→ Sales Breakdown

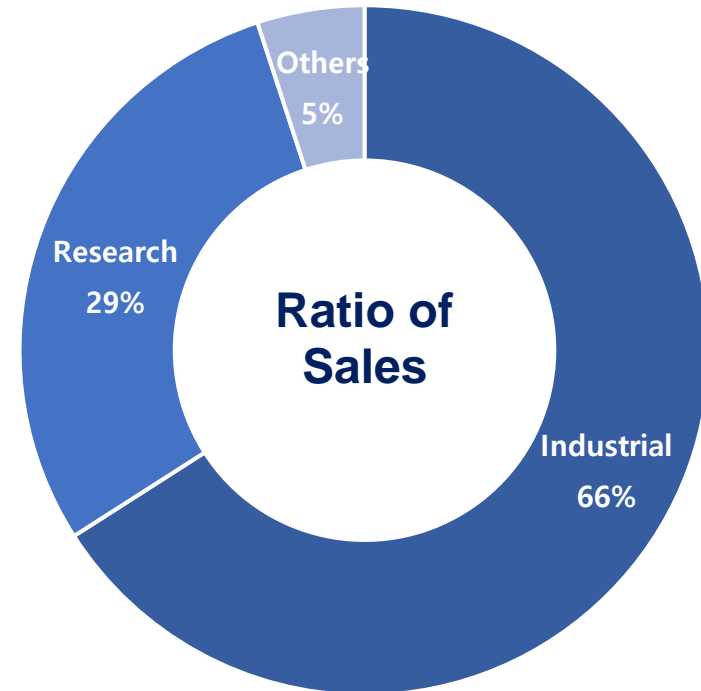
Park Systems generates more than 80% of its total sales from overseas, and by supplying products worldwide, it is realizing customer diversification for stable growth.

by Region



■ Korea ■ China & Taiwan ■ Europe ■ U.S. ■ Others

by Product line

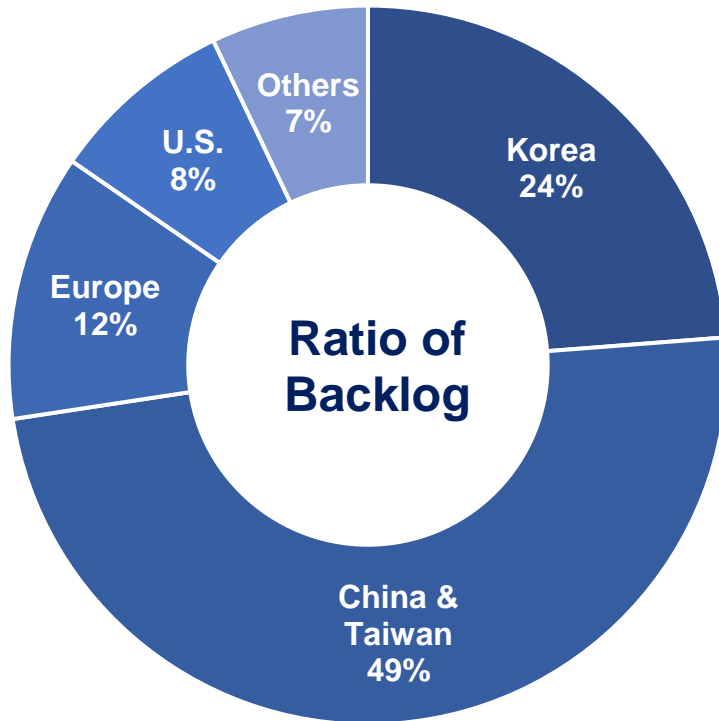


■ Industrial ■ Research ■ Others

→ Order Backlog

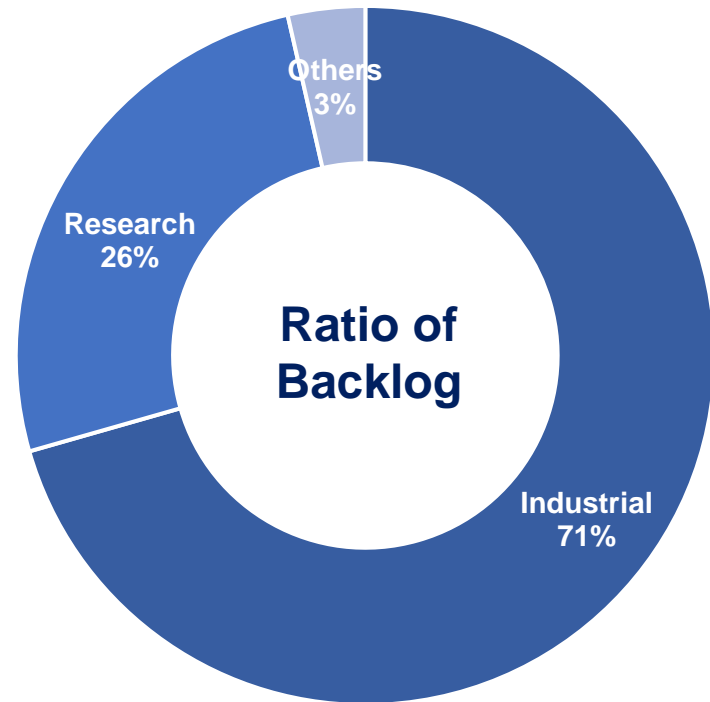
As the demand for AFM increases in many industries, we expect the proportion of industrial product sales to grow faster.

by Region



■ Korea ■ China & Taiwan ■ Europe ■ U.S. ■ Others

by Product line



■ Industrial ■ Research ■ Others

Appendix

Park Systems continues to grow at an annual average of 30% and achieves high profit margins through the supply of high value-added products.

B/S		Unit : ₩ M			
	2020	2021	2022	2023 3Q	
Current assets	80,727	106,681	126,307	135,702	
Non-current assets	23,688	27,234	40,742	47,446	
Total asset	104,415	133,915	167,049	183,148	
Current liabilities	27,265	26,669	39,688	39,374	
Non-current liabilities	24,068	17,103	7,898	8,737	
Total Liabilities	51,333	43,772	47,586	48,111	
Capital	3,334	3,449	3,474	3,482	
Additional paid in capital	14,644	43,629	48,146	49,015	
Others	(273)	(203)	(1,692)	(805)	
Retained earnings	35,377	43,267	69,535	83,345	
Total equity	53,082	90,142	119,463	135,037	

Note : K-IFRS consolidated financial statement basis

I/S		Unit : ₩ M			
	2020	2021	2022	2023 3Q	
Sales Revenue	71,223	85,250	124,522	99,337	
Cost of goods sold	25,049	30,063	43,053	35,419	
Operating expenses	31,193	37,606	48,821	46,159	
Operating profit	14,981	17,581	32,648	17,759	
Non-operating profit	2,068	10,962	11,332	5,853	
Non-operating expenses	6,333	19,788	12,099	5,148	
Profit before tax	10,716	8,755	31,881	18,464	
Tax expenses	760	(330)	3,897	1,893	
Net income	9,956	9,085	27,984	16,571	

Note : K-IFRS consolidated financial statement basis

Contents



ESG

- Environmental
- Social
- Governance
- Dividend Policy

Environmental

ISO 14001

ISO 14001 helps an organization achieve the intended outcome of its environmental management system, which provides value for the environment, the organization itself, and interested parties.

(<https://www.iso.org/standard/60857.html>)

Park Systems has got the ‘**Environmental Management System Certificate**’ on 25th, July 2005 and renewed it every two years.

Park Systems is working on an assembly manufacturing process.

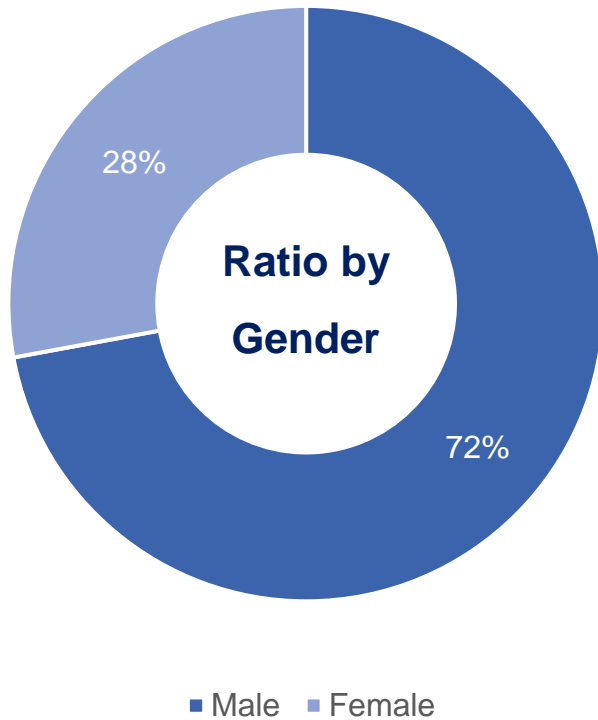
Therefore, there is no carbon and wastewater discharge.



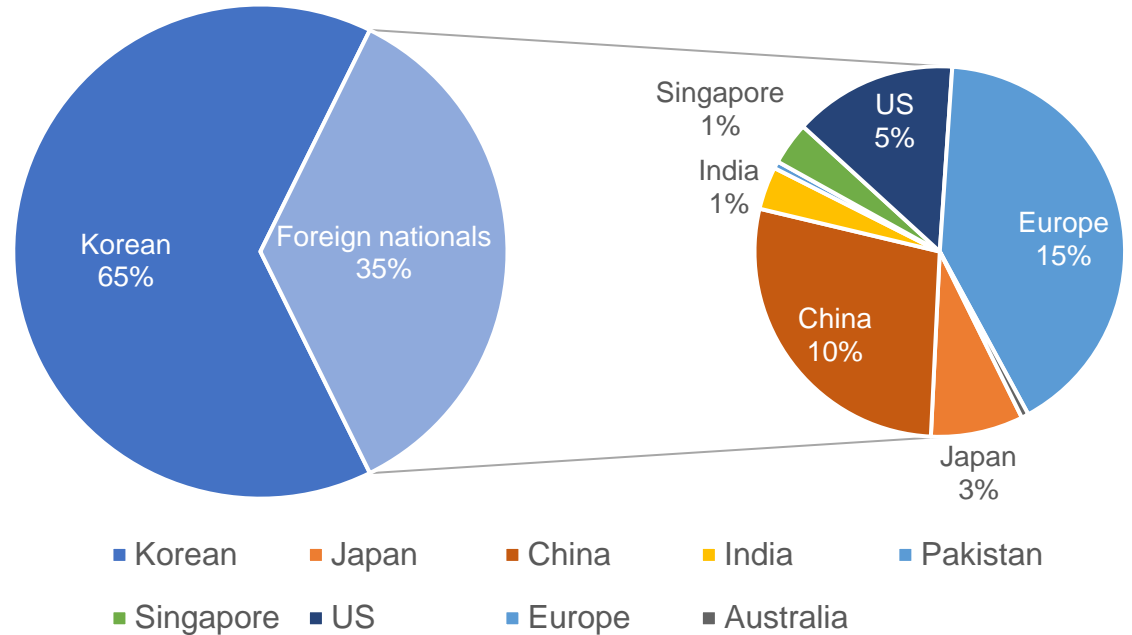
→ Social

Park Systems pursues the diversity of employees in Gender, Nationality, etc.

Gender Composition in H.Q.



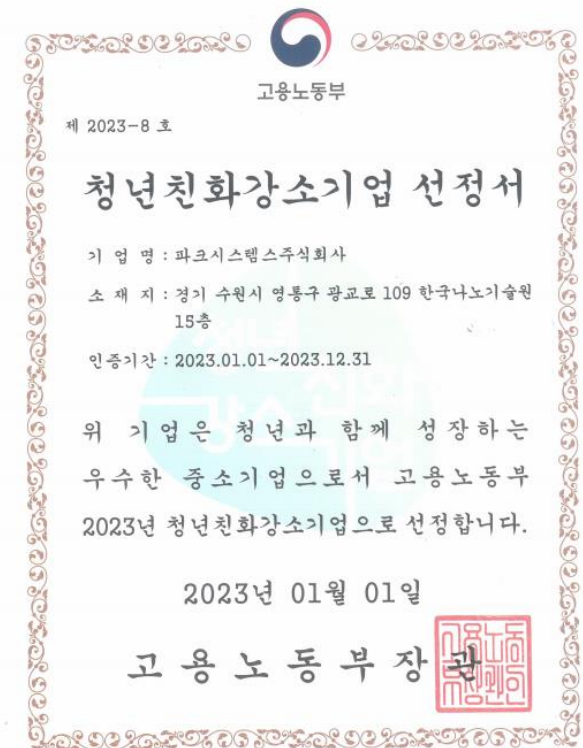
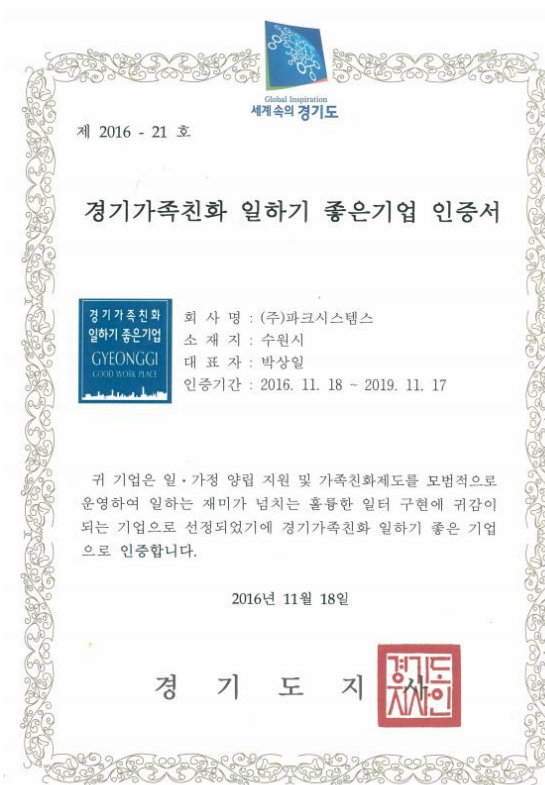
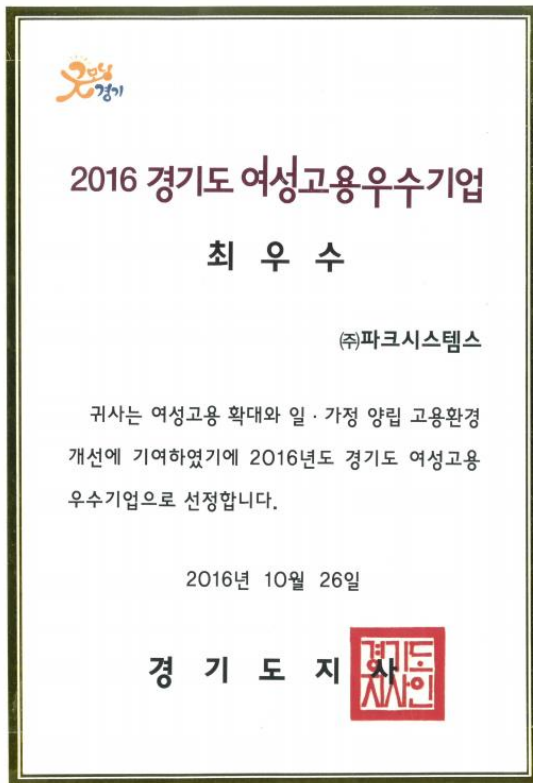
Nationality Composition in Park Systems Group (including overseas subsidiaries)



→ Social

Park Systems was selected as the best female employment company, family-friendly company, and youth-friendly company.

Awards & Certificates



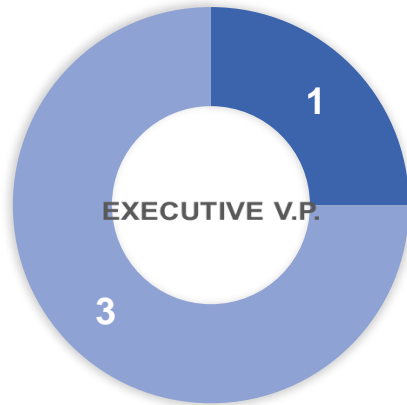
Governance

The Board of Directors consists of 1 CEO and 5 outside & non-executive directors for transparency in making decisions.

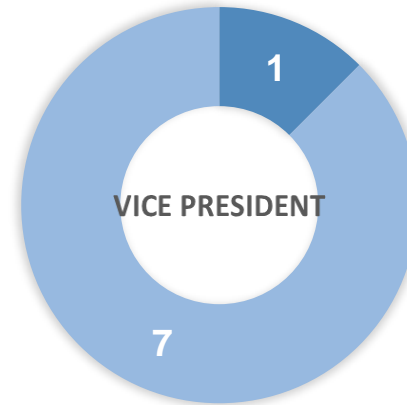


→ Governance

Gender Composition of Executive Directors



■ Female ■ Male



■ Female ■ Male

Compensation Committee

The company set up a compensation committee that comprises 4 non-executive directors

- To decide the compensation policy for all executive directors.
- To provide a transparent and market-acceptable compensation policy, independently

→ Dividend Policy

Dividend Pay-out

	unit	2019	2020	2021	2022
Earnings per Share	₩	1,208	1,629	1,508	3,258
Dividend per share	₩	120	180	250	400
Free Cash Flow (A)	₩ M	2,060	9,020	3,693	17,020
Total dividend (B)	₩ M	800	1,195	1,717	2,761
Payout ratio (B/A)	%	38.8%	13.2%	46.5%	16.2%

* FCF = OCF (Operating Cash Flow) minus CAPEX (Capital Expenditure)

** Payout Ratio = Total dividend / FCF

Dividend Policy to enhance shareholders' Value

- The company gives top priority to **investment in organic and inorganic growth** as well.
- And then has plans of **share repurchase and dividend payout**.
- The dividends are supposed to be within the range of **10%~50% of FCF**



Thank You

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