



# Park Systems Investor Relations

*Enabling Nanoscale Advances*

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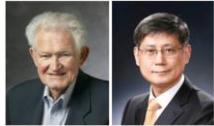
## Introduction

- Over 30 yrs. History
- Customers
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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



1982-1988

## The First AFM Company

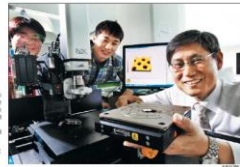


Park Scientific Instruments

1988-1997

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

**대구가족의 박정호 박사**은 1988년 미국 실리콘밸리에서 원자현미경(AFM)을 개발한 후, 1997년 미국에서 창업한 Park Scientific Instruments를 설립했다. 그는 AFM 기술의 상용화를 이끌었고, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다.



박정호 박사는 AFM 기술의 상용화를 이끌었고, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다.

## The AFM Technology Innovator



1997-Present

KOSDAQ  
LISTED COMPANY  
2015

### 세계 2위, 국내 유일 - 원자현미경 분야 '매운 고추'

박재호, 스탠포드에서 물리학 전공 후 교수로도 재직하고 나노 분야 국제 컨퍼런스, 학회, 소문 듣고 창업



박정호 박사는 AFM 기술의 상용화를 이끌었고, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다.

한국에서 유일하게 원자현미경 분야에 특화된 기업인 Park Systems는 AFM 기술의 상용화를 이끌었고, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다. 그는 AFM 기술의 발전에 크게 공헌했으며, 이 기술이 전 세계적으로 널리 사용되도록 했다.

## 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



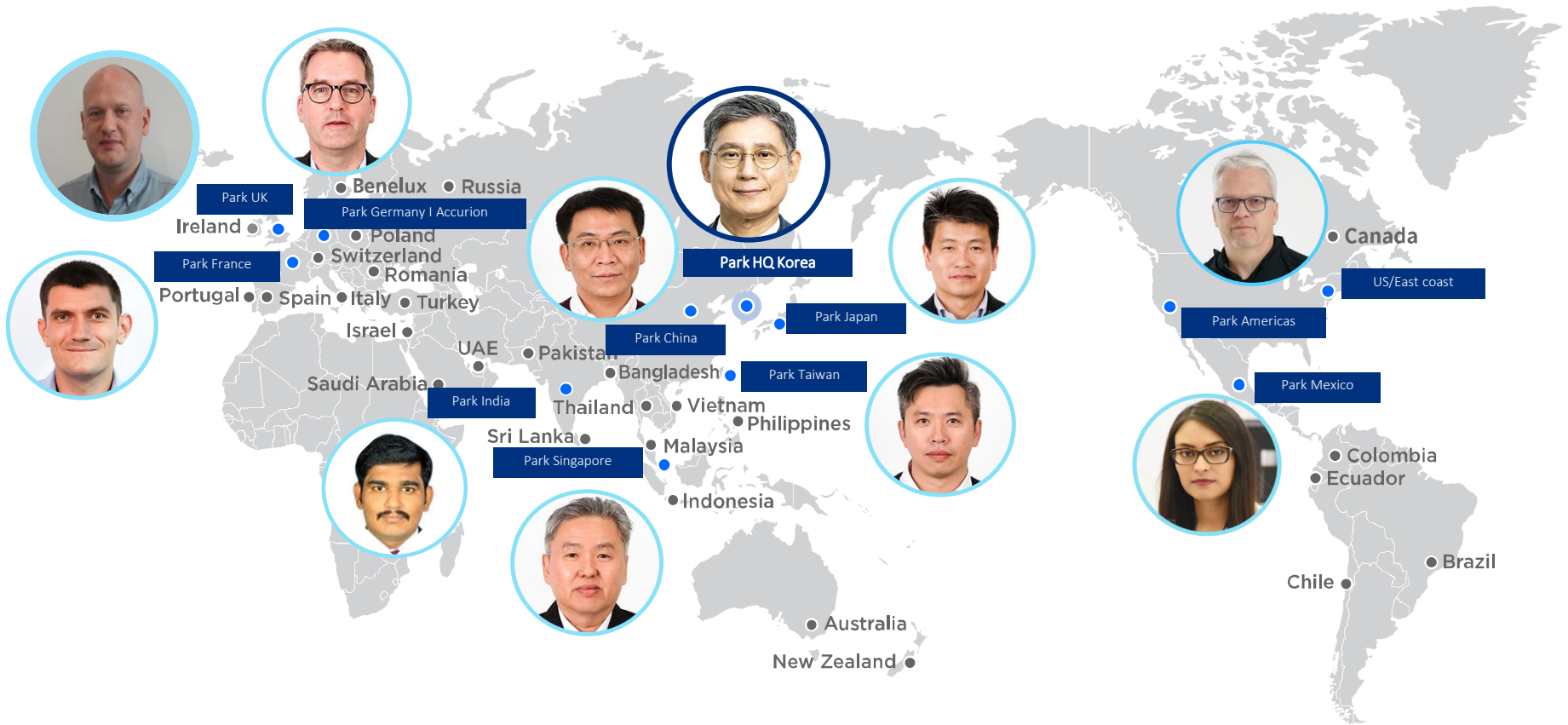
Park NX-Hybrid WLI



Park NX-Mask

## Global Sales and Service Channels

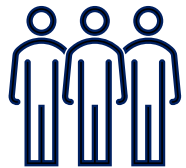
Park Systems operates 12 local offices in 11 countries around the world and has established a sales network in 30 other countries and provided its own brand of products directly to customers worldwide.



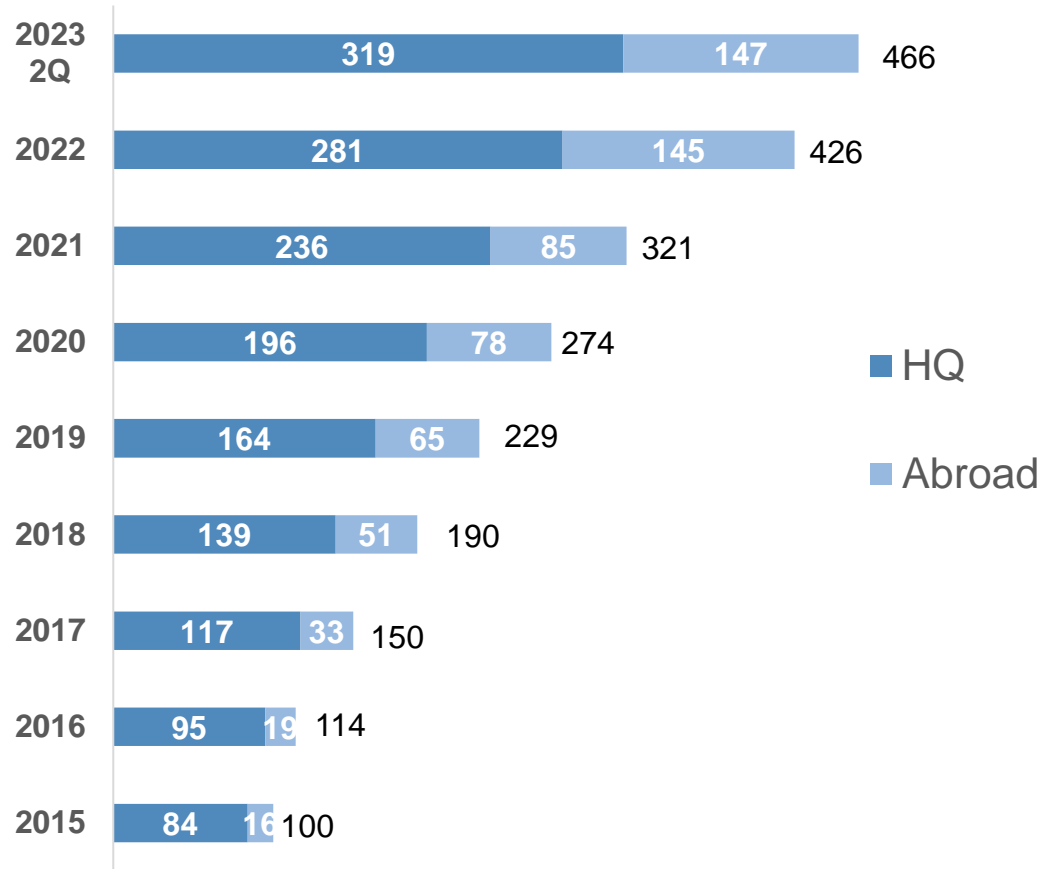


Park Systems currently has a total of 466 employees, 319 in Korea and 147 overseas.

### Status of Employees



**Total employees :**  
**466 (As of 2023.06.30)**



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## Competitiveness

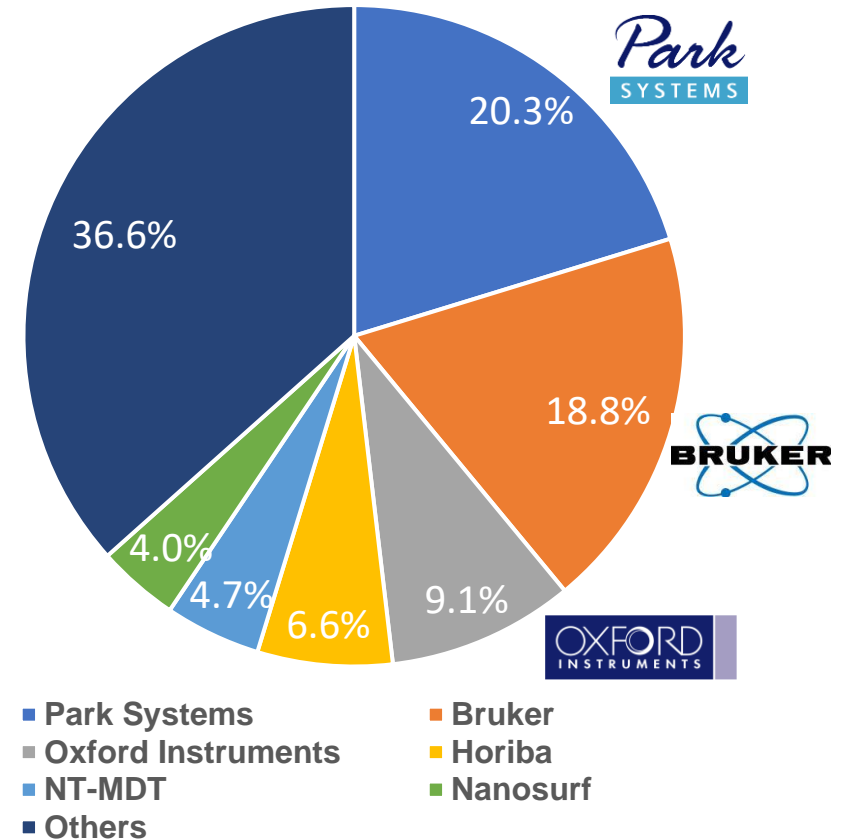
- Market size & Competitors
- R&D Focused Investment
- AFM Technology & Industrial Automation
- Patents

## 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\*

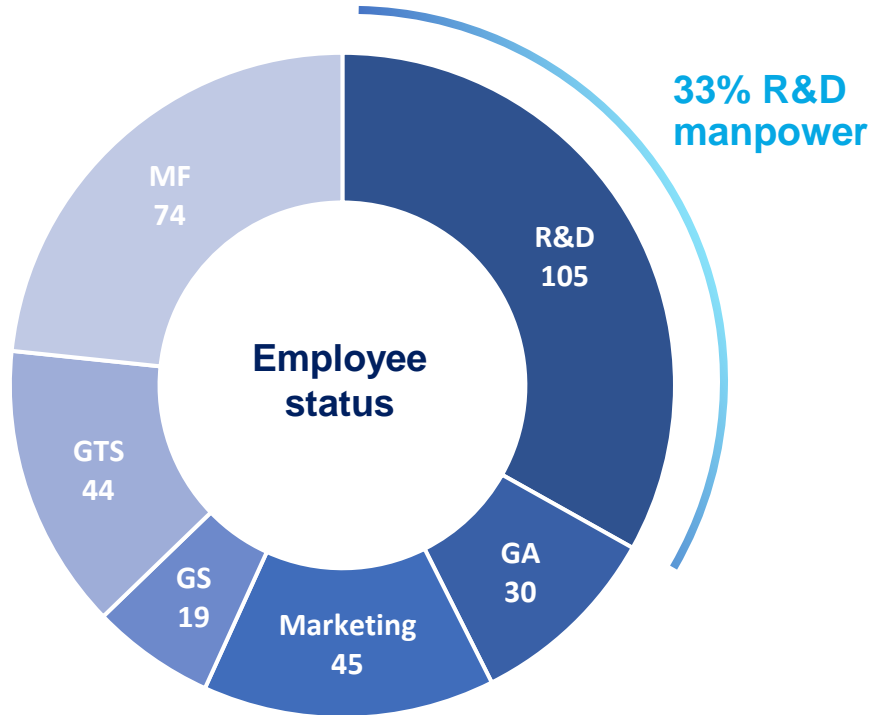


\* Source: Global Atomic-force Microscopy Market Report(History and Forecast 2018-2029) by QYResearch

## → 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**.

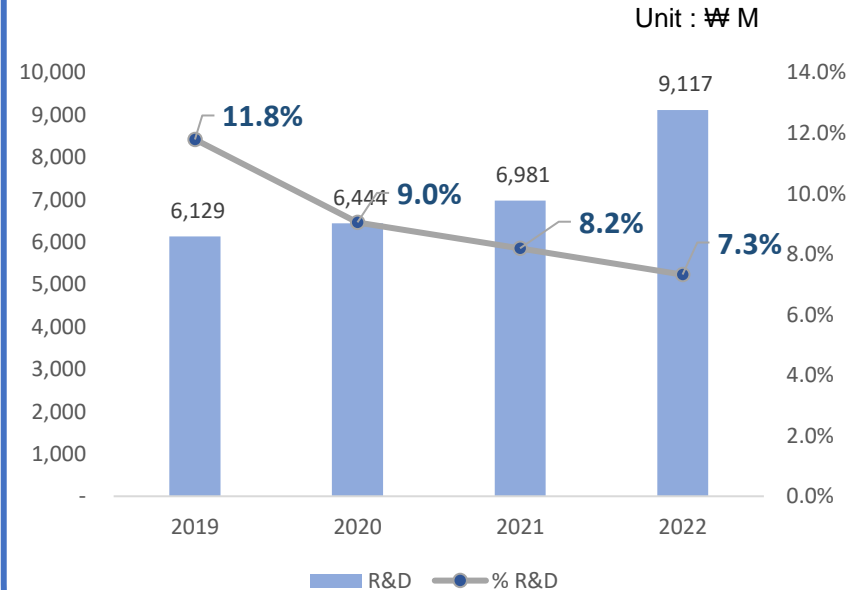
**Manpower by Department  
(As of 2023.06.30)**



\* 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

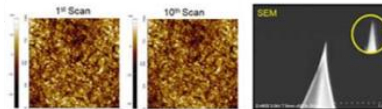
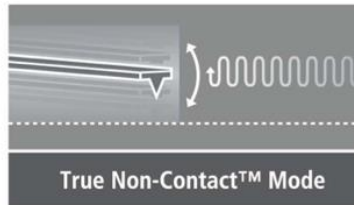
## → Innovative Technology

**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.



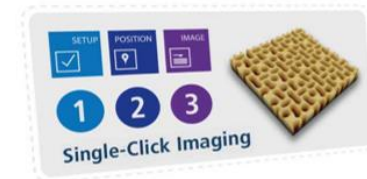
### Measurement Accuracy

**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

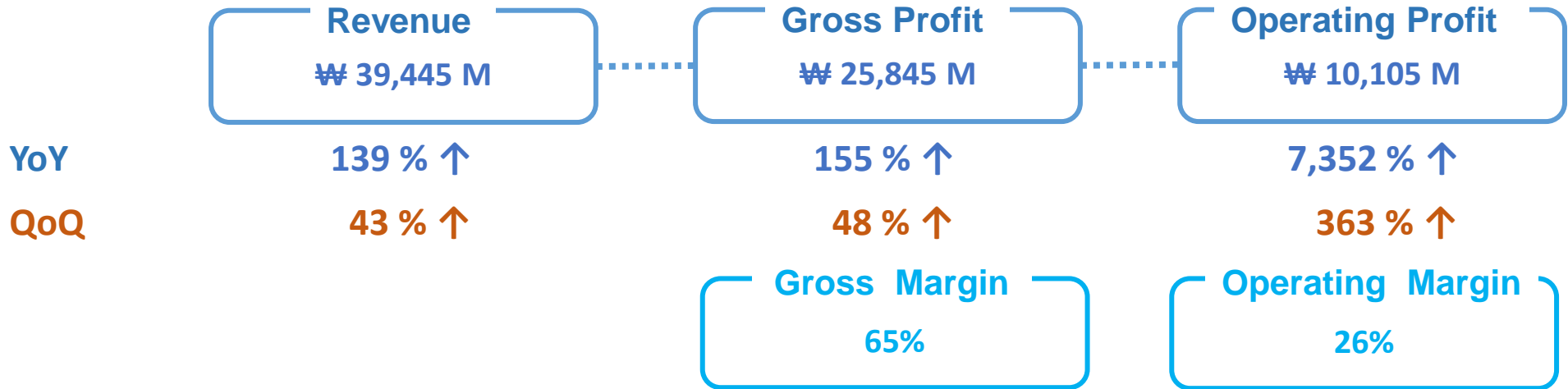
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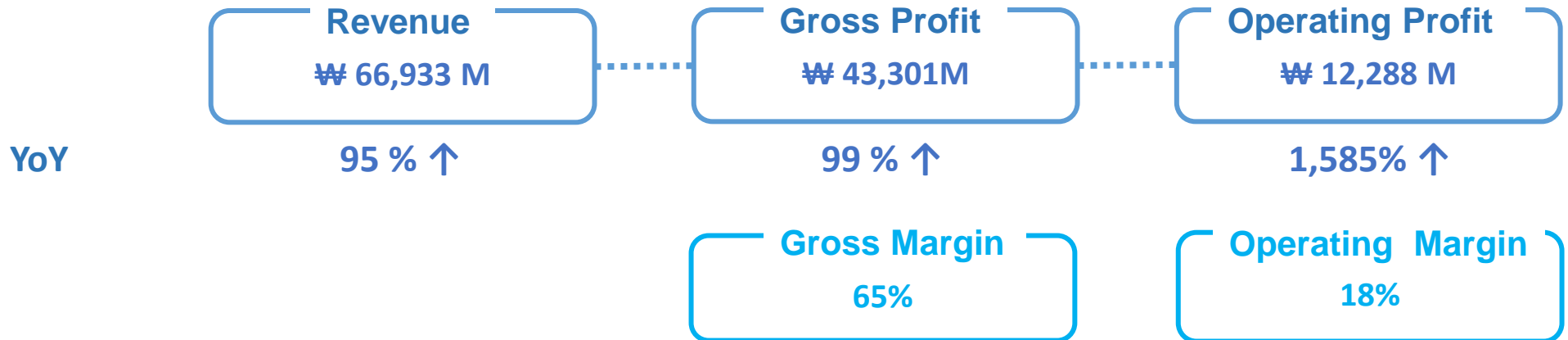
## Financials

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

## → Highlight of I/S for 2Q, 2023



## → Highlight of I/S for 1H (1Q&2Q), 2023

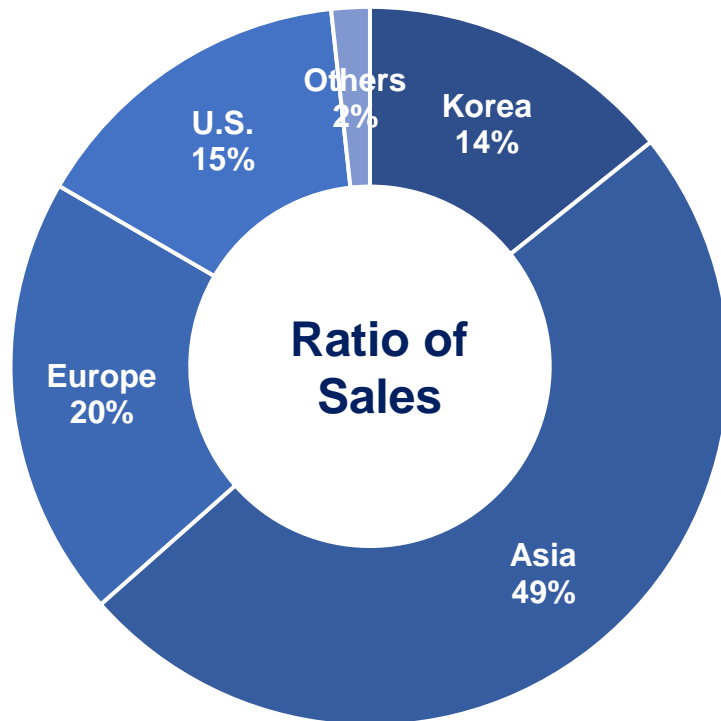




## → Sales Breakdown

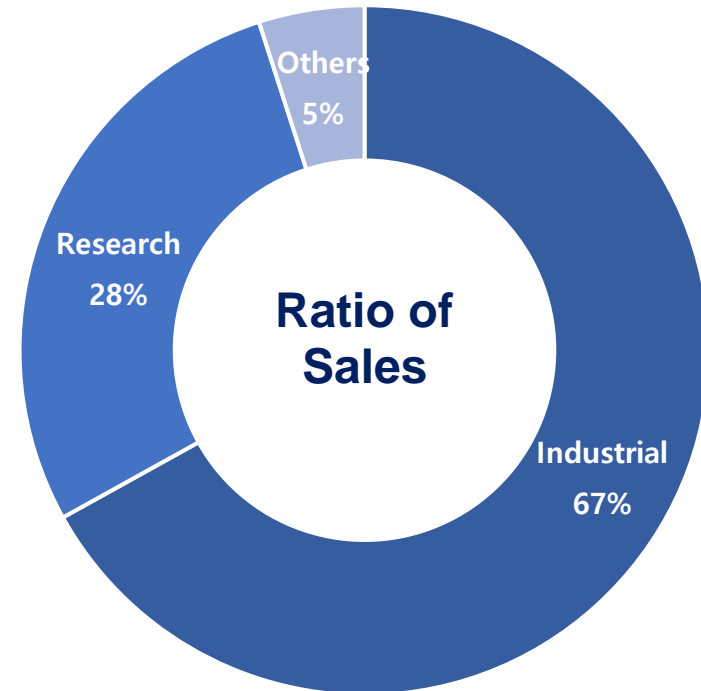
**Park Systems** generates more than 80% of its total sales from overseas, and by supplying products worldwide, it is realizing customer diversification for stable growth.

by Region



■ Korea ■ Asia ■ Europe ■ U.S. ■ Others

by Product line

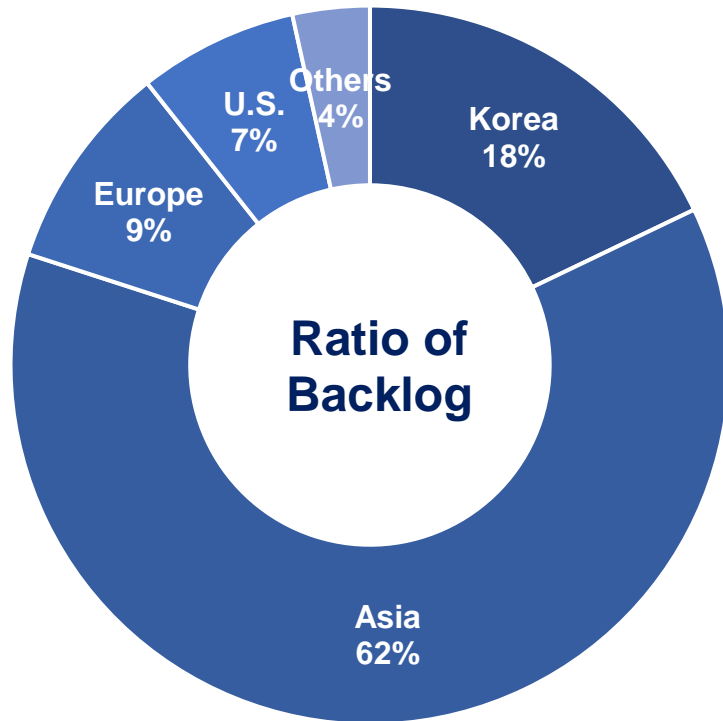


■ Industrial ■ Research ■ Others

## → Order Backlog

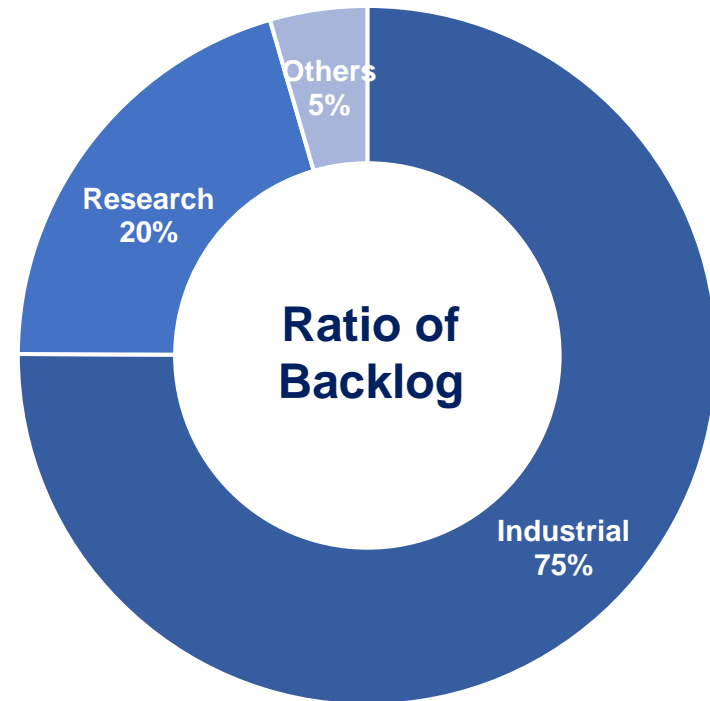
As the demand for AFM increases in many industries, we expect the proportion of industrial product sales to grow faster.

by Region



■ Korea ■ Asia ■ 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>B/S</b>	Unit : ₩ M			
	2020	2021	2022	2023 1H
<b>Current assets</b>	80,727	106,681	126,307	<b>132,656</b>
<b>Non-current assets</b>	23,688	27,234	40,742	<b>44,252</b>
<b>Total asset</b>	104,415	133,915	167,049	<b>176,908</b>
<b>Current liabilities</b>	27,265	26,669	39,688	<b>41,124</b>
<b>Non-current liabilities</b>	24,068	17,103	7,898	<b>7,434</b>
<b>Total Liabilities</b>	51,333	43,772	47,586	<b>48,558</b>
<b>Capital</b>	3,334	3,449	3,474	<b>3,481</b>
<b>Additional paid in capital</b>	14,644	43,629	48,146	<b>48,937</b>
<b>Others</b>	(273)	(203)	(1,692)	<b>(1,098)</b>
<b>Retained earnings</b>	35,377	43,267	69,535	<b>77,030</b>
<b>Total equity</b>	53,082	90,142	119,463	<b>128,350</b>

Note : K-IFRS consolidated financial statement basis

<b>I/S</b>	Unit : ₩ M			
	2020	2021	2022	2023 1H
<b>Sales Revenue</b>	71,223	85,250	124,522	<b>66,933</b>
<b>Cost of goods sold</b>	25,049	30,063	43,053	<b>23,632</b>
<b>Operating expenses</b>	31,193	37,606	48,821	<b>31,013</b>
<b>Operating profit</b>	14,981	17,581	32,648	<b>12,288</b>
<b>Non-operating profit</b>	2,068	10,962	11,332	<b>3,610</b>
<b>Non-operating expenses</b>	6,333	19,788	12,099	<b>3,901</b>
<b>Profit before tax</b>	10,716	8,755	31,881	<b>11,997</b>
<b>Tax expenses</b>	760	(330)	3,897	<b>1,741</b>
<b>Net income</b>	9,956	9,085	27,984	<b>10,256</b>

Note : K-IFRS consolidated financial statement basis

# Contents



## ESG

- Environmental
- Social
- Governance
- Dividend Policy

# Environmental

## ISO 14001

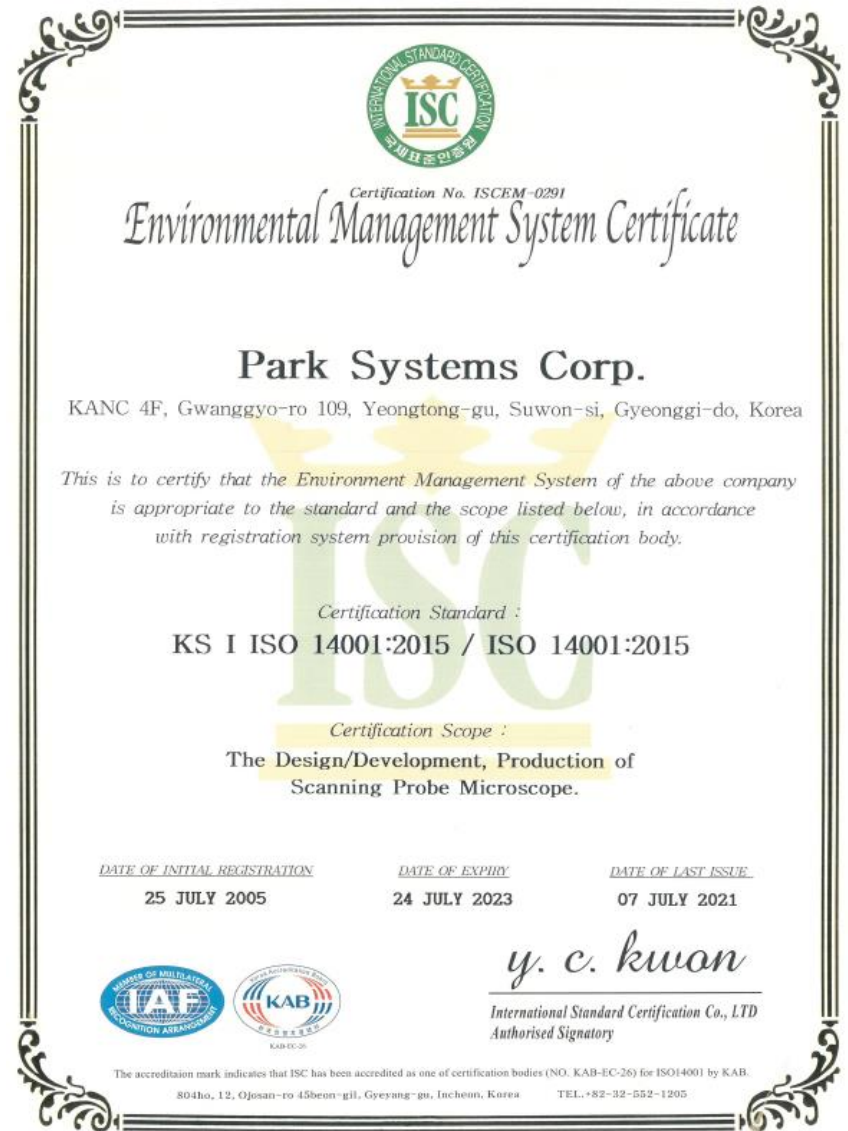
**ISO 14001** helps an organization achieve the intended outcome of its environmental management system, which provides value for the environment, the organization itself, and interested parties.

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

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

**Park Systems** is working on an assembly manufacturing process.

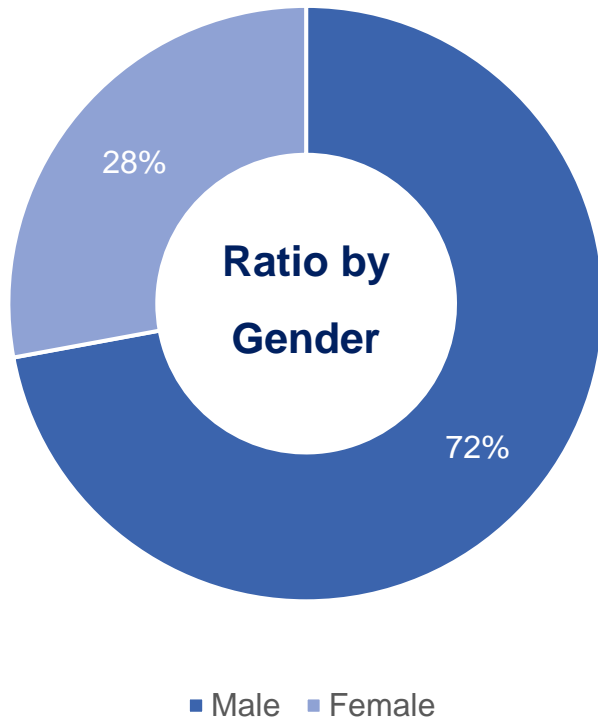
Therefore, there is no carbon and wastewater discharge.



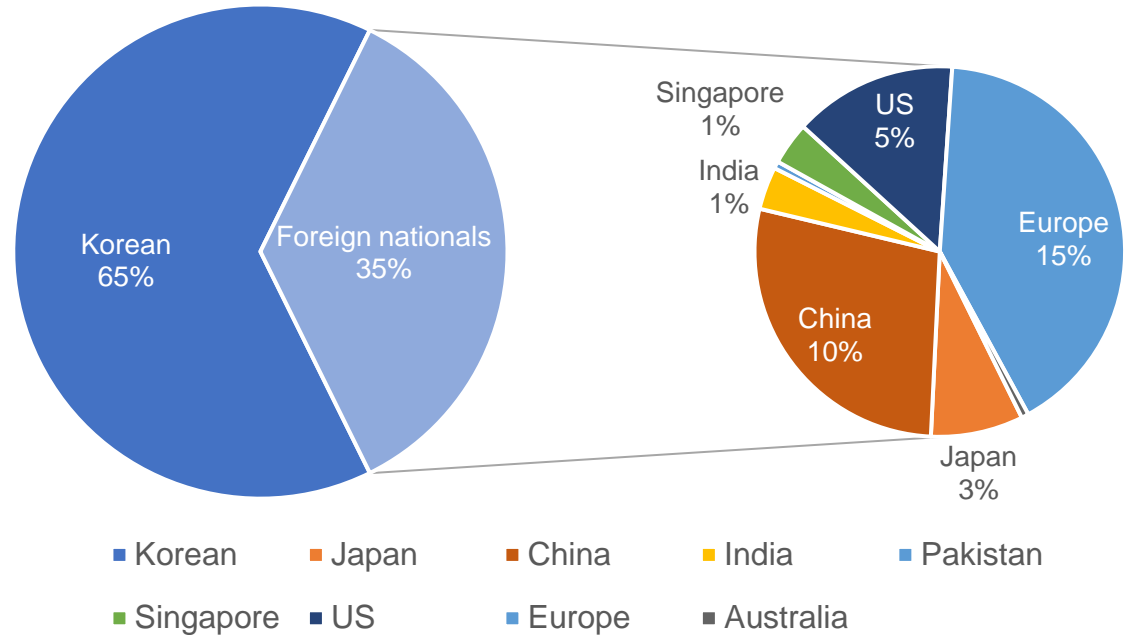
## → Social

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

### Gender Composition in H.Q.



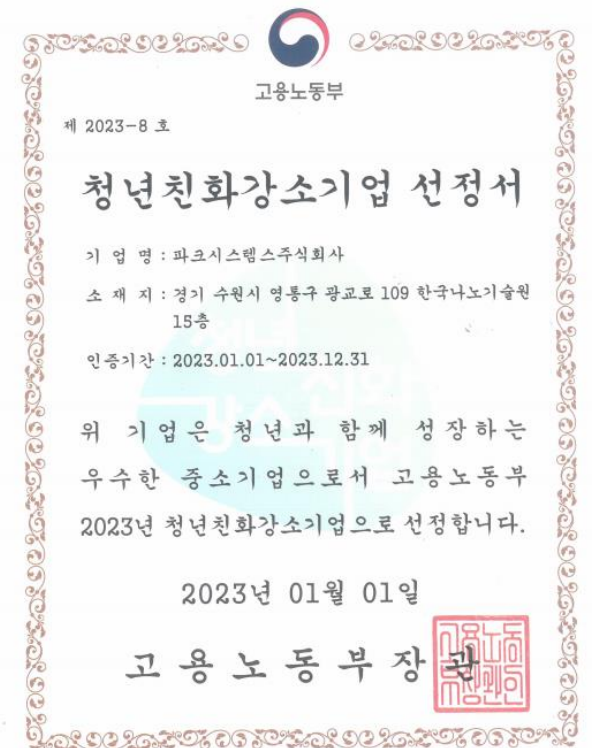
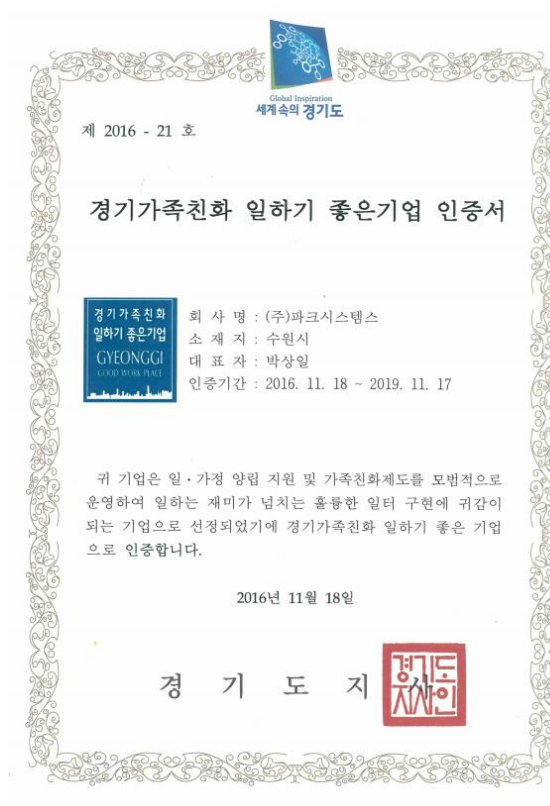
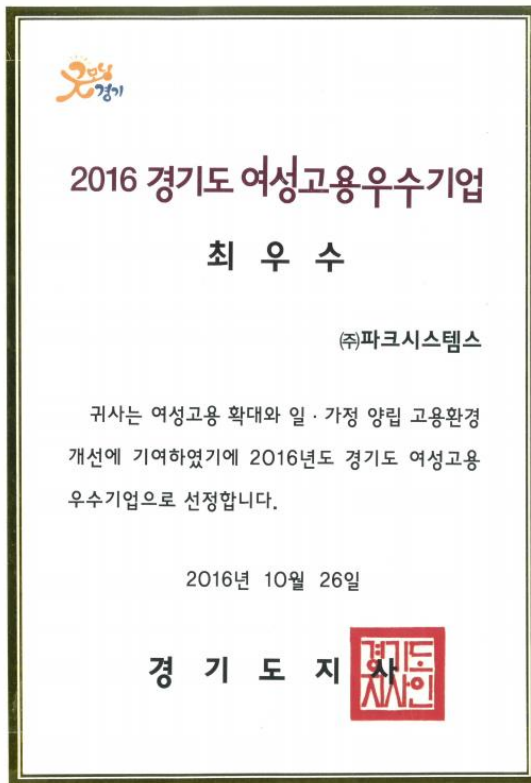
### Nationality Composition in Park Systems Group (including overseas subsidiaries)



## → Social

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

### Awards & Certificates



# Governance

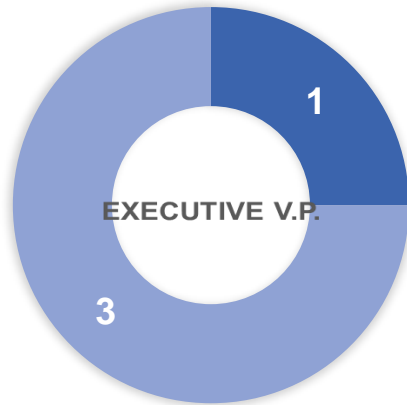
The Board of Directors consists of 1 CEO and 5 outside & non-executive directors for transparency in making decisions.



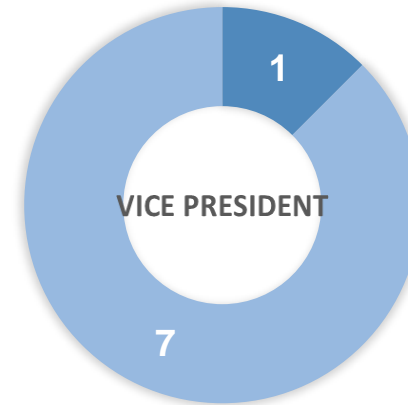


## → Governance

### 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	<b>3,258</b>
Dividend per share	₩	120	180	250	<b>400</b>
Free Cash Flow (A)	₩ M	2,060	9,020	3,693	<b>17,020</b>
Total dividend (B)	₩ M	800	1,195	1,717	<b>2,761</b>
Payout ratio (B/A)	%	38.8%	13.2%	46.5%	<b>16.2%</b>

\* 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

For more information contact Investor Relations

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Tel 031 546 6900

