



# Company Introduction

Park Systems

IR Team

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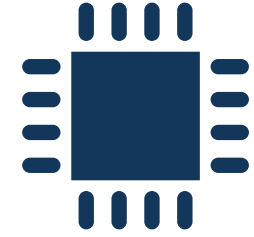
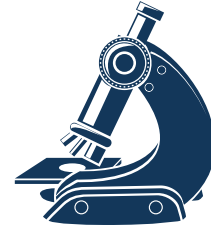
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# Introduction

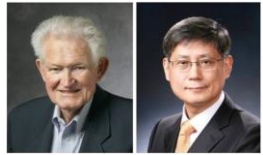


- Park Systems is a leading manufacturer of Atomic Force Microscopes, headquartered in Suwon, South Korea, with a global market presence.
- An Atomic Force Microscope is an essential tool for advancing the era of nanotechnology. It is a device that can measure and analyze a sample's shape and physical properties at the nanometer level.

# History

- Park Systems was established by one of the original developers of the Atomic Force Microscope (AFM) to make the world's most precise nanoscale metrology and imaging instruments widely available.

## The Birth-Place of AFM



Stanford University

1982-1988

## The First AFM Company

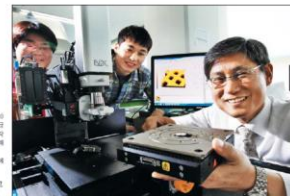


Park Scientific Instruments

1988-1997

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

CEO가 된 과학자 박정민 박사는 1988년 미국 실리콘밸리에서 설립된 원자현미경 개발 회사인 파크 사이언티픽 인스트루먼트의 CEO가 되었다. 그는 이 회사에서 10년간 근무하며 원자현미경 기술의 상용화를 이끌었다. 그의 리더십은 파크 사이언티픽 인스트루먼트가 세계적인 기업으로 성장하는 데 크게 공헌했다.



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## The AFM Technology Innovator



1997-Present

KOSDAQ LISTED COMPANY

2015

### 세계 2위, 국내 유일 ... 원자현미경 분야 '매운 고추'

박 대표, 스탠퍼드에서 원자현미경 전공 교수로도 겸임하고 노벨상 분야 '막스 볼랑타르' 창업 소문 듣고 첫 주주 마이크로폰 등 글로벌 업체가 주 고객



박정민 박사는 원자현미경 기술의 상용화를 이끌었다. 그는 이 회사에서 10년간 근무하며 원자현미경 기술의 상용화를 이끌었다. 그의 리더십은 파크 사이언티픽 인스트루먼트가 세계적인 기업으로 성장하는 데 크게 공헌했다.

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# Customers

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



# Product line

- Park Systems provides research products for nanotechnology research, and industrial products for semiconductor, display and other manufacturers.

## Research



Park FX40



Park FX200



Park NX10



Park NX20



Park NX12



Park NX-Hivac

## Industrial



Park NX-HDM



Park NX-3DM



Park NX-TSH



Park NX-Wafer



Park NX-Hybrid WLI



Park NX-Mask

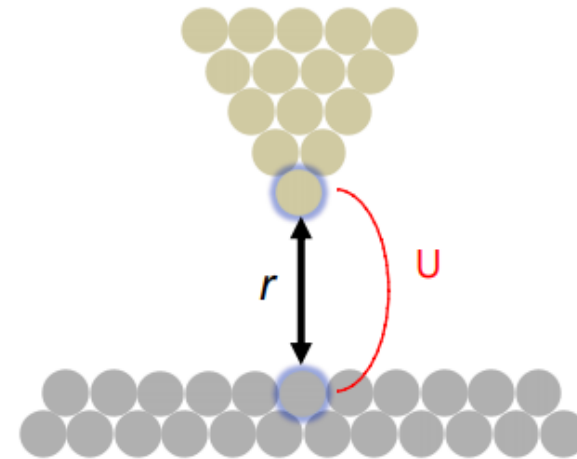
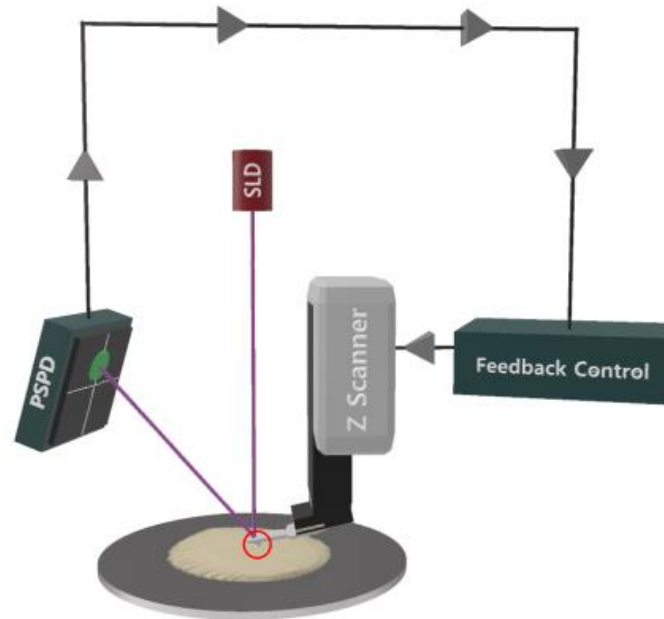
# Global Channels

- Park Systems has 14 direct offices in 11 countries and 30 distributors in major countries worldwide.



# Principle

- Monitoring the surface topography using interaction(Atomic Force) between tip and sample surface.
- It can measure the **Electrical, Mechanical, Magnetic, and Thermal properties** and **Topography**.



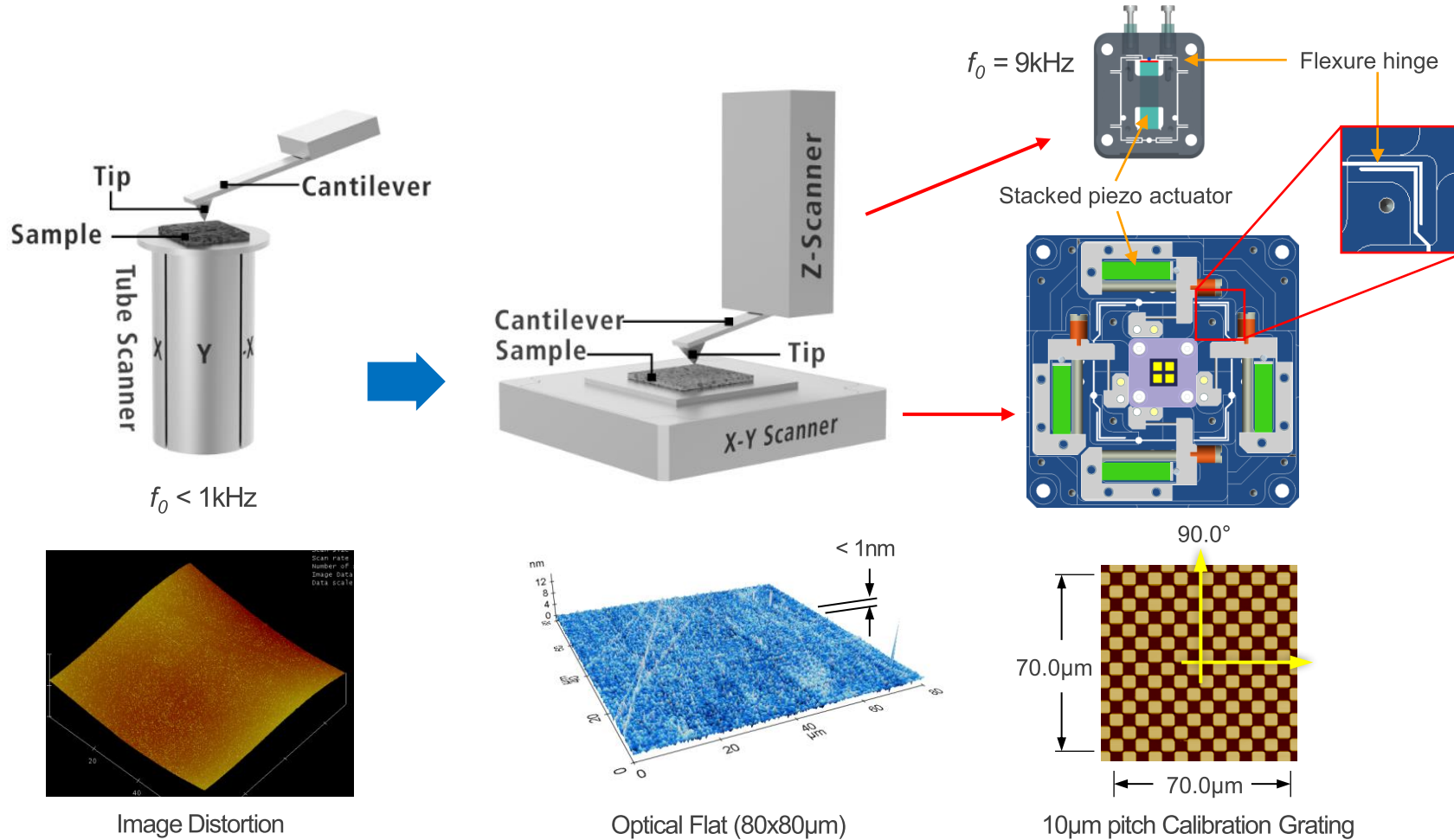
Potential ( $U$ ) changes depending on the distance between two atoms.

Source : ParkSystems Youtube( <https://www.youtube.com/watch?v=wiFCYFrXkek> )



# Innovative Technology

- Our AFM separating the X-Y and the Z scanner provides more accurate measurement results than others.



# Patents

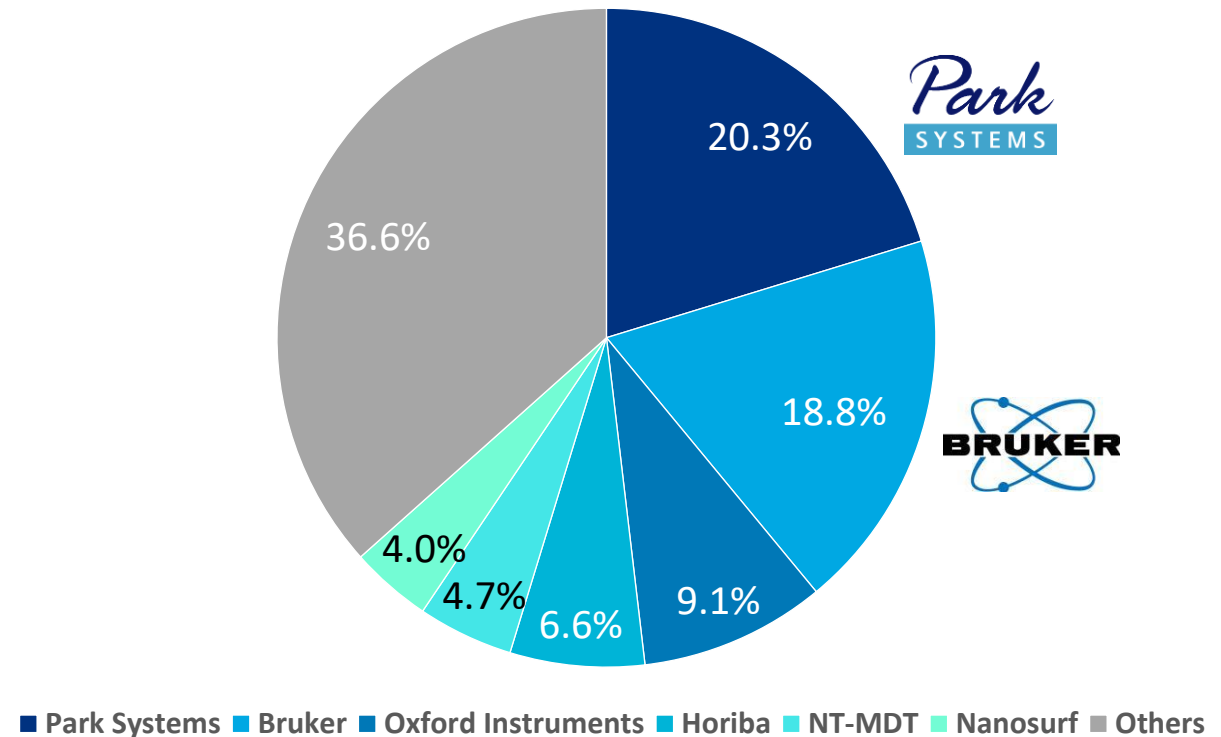
Division	Contents	Registration date
Patent	ATOMICFORCEMICROSCOPEEQUIPPEDWITHOPTICALMEASUREMENT DEVICEANDMETHODOFACQUIRINGINFORMATIONONSURFACEOFMEASUREMENTTARGETUSINGTHESAME	2023-04-04
Patent	MEASURING METHOD FOR MEASURING HEAT DISTRIBUTION OF SPECIFIC SPACE USING STHM PROBE, METHOD AND DEVICE FOR DETECTING 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

# Market Share in AFM

- Park Systems, a leading manufacturer of Atomic-Force Microscopy (AFM) systems, is celebrating its new status as 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

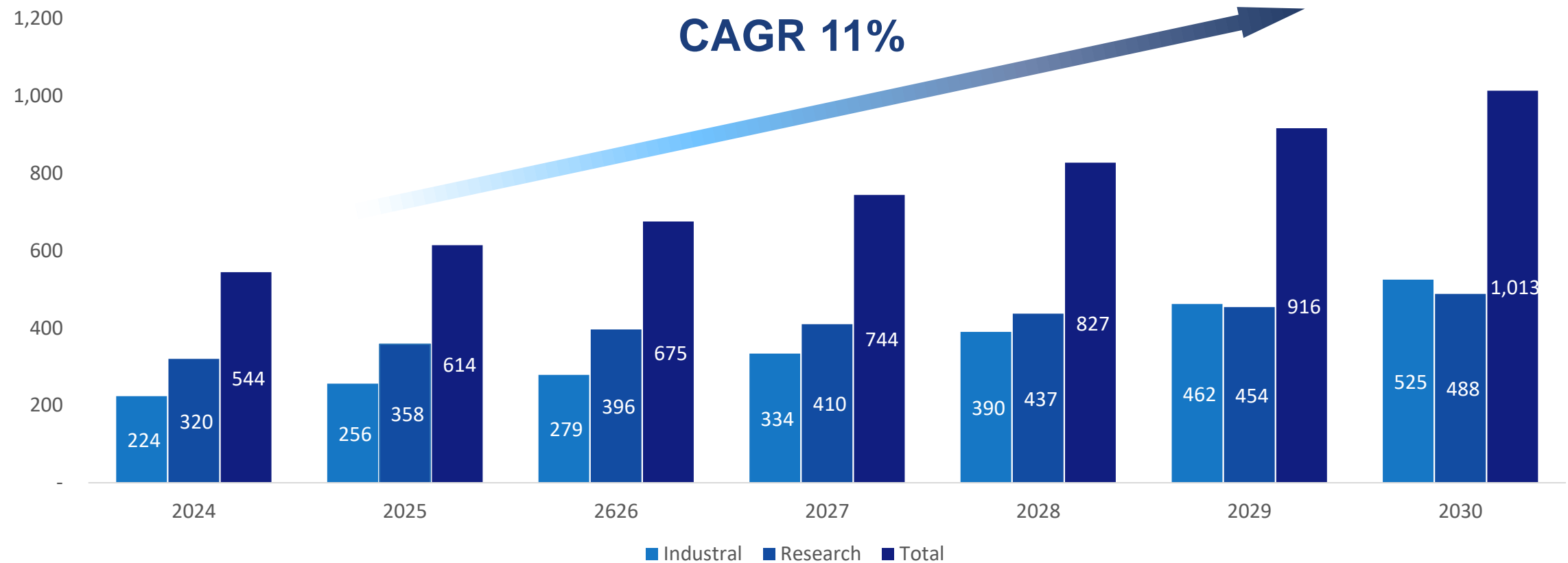


Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2023

# Market Growth

- The Atomic Force Microscopy market has been growing rapidly.

Unit : M USD



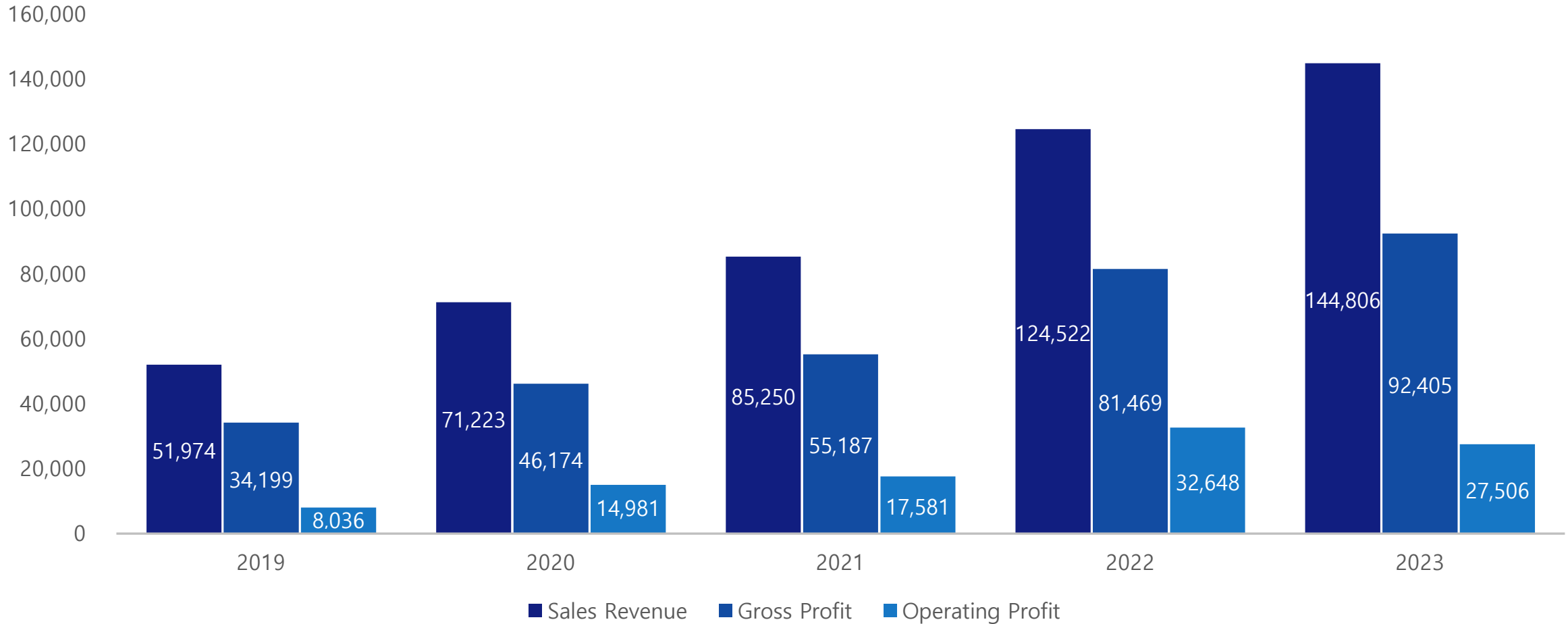
Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2023

# Market Opportunity

- Miniaturization and Increasing Complexity of Semiconductor Processes
  - Semiconductor chips are becoming more complex and multi-layered with 3D structures.
  - Logic, memory, front-end, and back-end processes all follow the miniaturization trend.
  - Increasing Importance of Metrology Processes in Advanced Nodes
- Increasing Utilization in Advanced Processes
  - Both logic and memory semiconductors will increasingly adopt advanced processes.
  - In advanced nodes, new processes are continually emerging.
  - With the expansion of advanced processes, the use of AFM will increase proportionally.
- Growing Applications in Back-End Processes
  - Advanced packaging is becoming as miniaturized and complex as front-end processes.
  - With the growth of AI semiconductors, the importance of back-end processes has increased.
- Expansion into various industries
  - Miniaturization of the display industry
  - Advancement of other industries such as secondary batteries, bio, and others

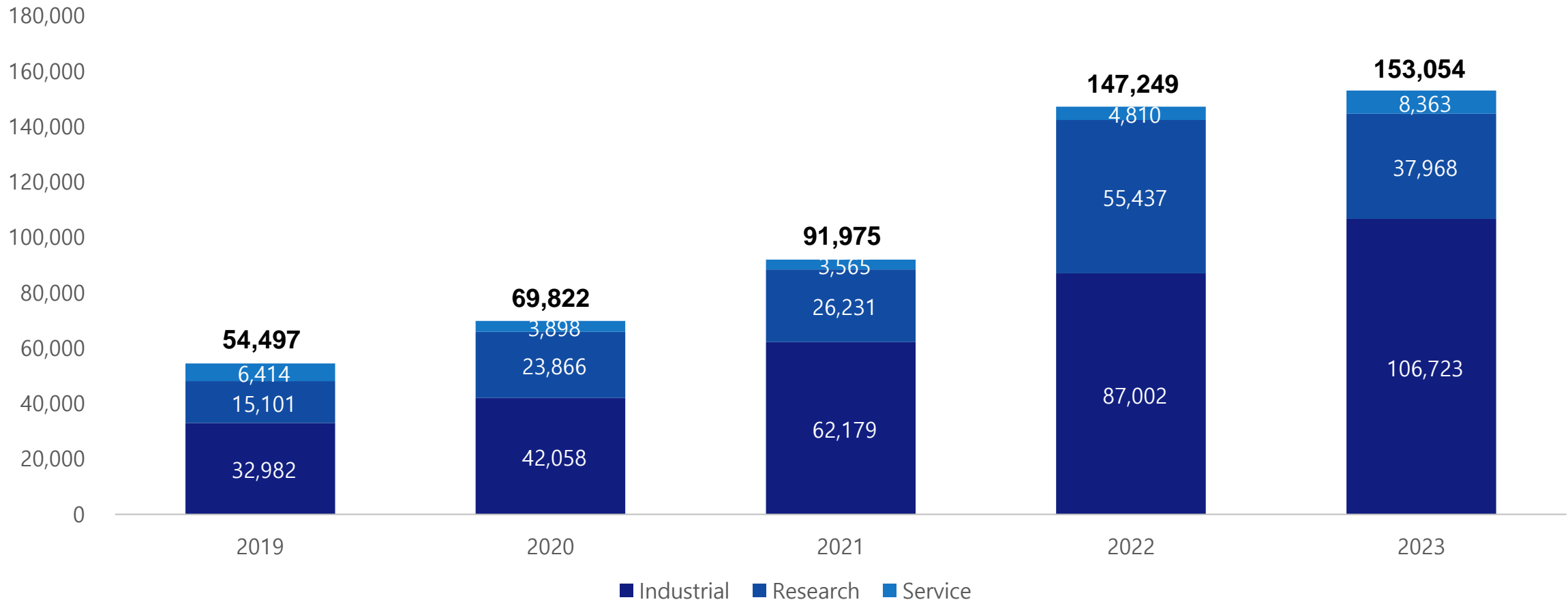
# Sales Revenue for the 5 past years

Unit : M KRW



# POs for the 5 past years

Unit : M KRW



# Financial Statements

- Park Systems continues to grow at an annual average of 20~30% and achieves high profit margins through the supply of high value-added products.

Unit : M KRW

B/S	2020	2021	2022	2023
Current assets	80,727	106,681	126,307	148,107
Non-current assets	23,688	27,234	40,742	53,566
<b>Total asset</b>	<b>104,415</b>	<b>133,915</b>	<b>167,049</b>	<b>201,673</b>
Current liabilities	27,265	26,669	39,688	49,665
Non-current liabilities	24,068	17,103	7,898	8,523
<b>Total Liabilities</b>	<b>51,333</b>	<b>43,772</b>	<b>47,586</b>	<b>58,188</b>
Capital	3,334	3,449	3,474	3,483
Additional paid in capital	14,644	43,629	48,146	49,189
Others	(273)	(203)	(1,692)	(523)
Retained earnings	35,377	43,267	69,535	91,336
<b>Total equity</b>	<b>53,082</b>	<b>90,142</b>	<b>119,463</b>	<b>143,485</b>

Note : K-IFRS consolidated financial statement basis

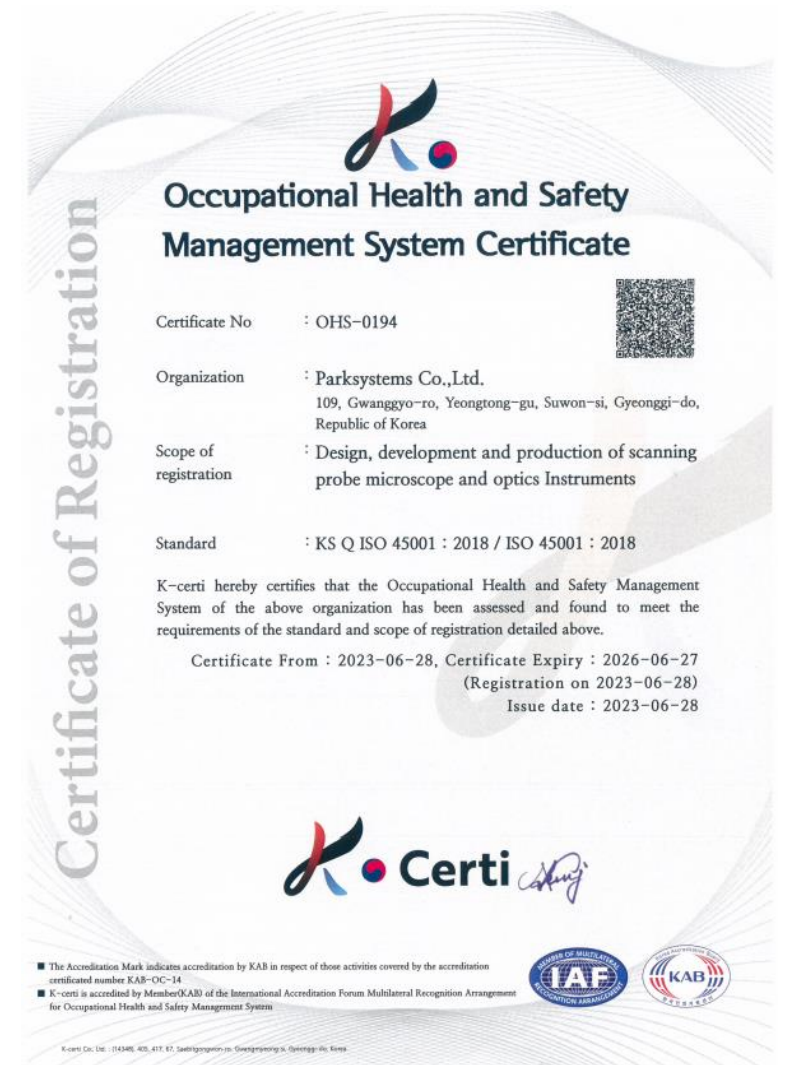
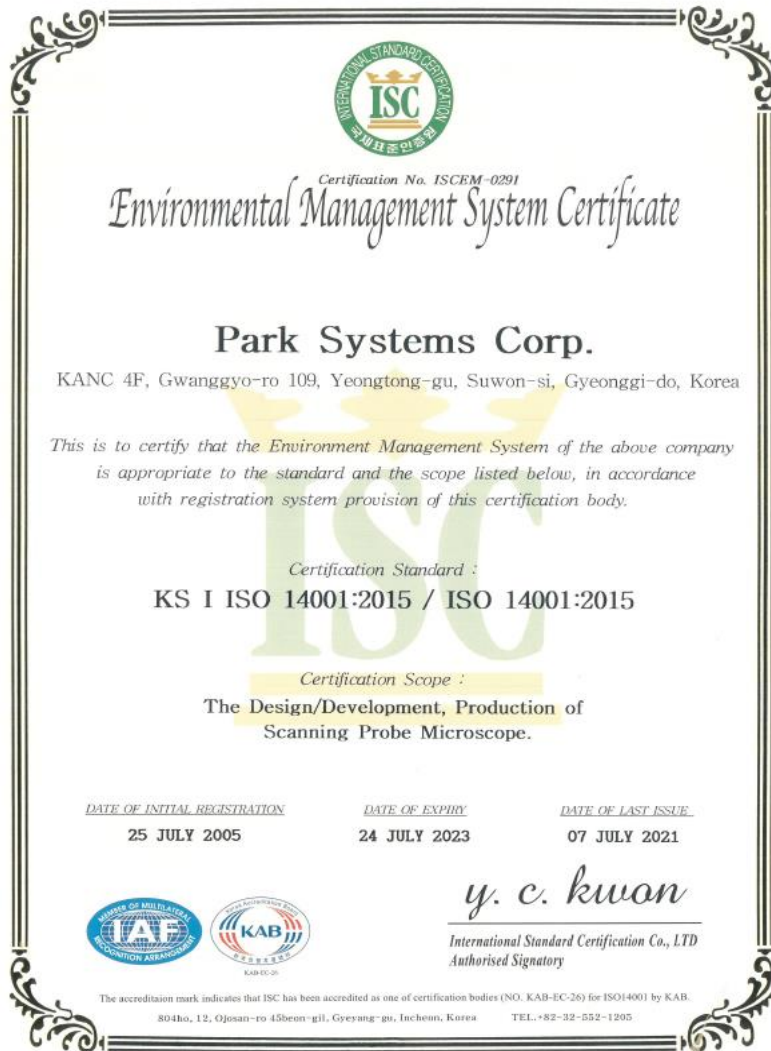
Unit : M KRW

I/S	2020	2021	2022	2023
Sales Revenue	71,223	85,250	124,522	144,806
Cost of goods sold	25,049	30,063	43,053	52,401
Operating expenses	31,193	37,606	48,821	64,845
Operating profit	14,981	17,581	32,648	27,560
Non-operating profit	2,068	10,962	11,332	6,662
Non-operating expenses	6,333	19,788	12,099	7,079
Profit before tax	10,716	8,755	31,881	27,143
Tax expenses	760	(330)	3,897	2,581
<b>Net income</b>	<b>9,956</b>	<b>9,085</b>	<b>27,984</b>	<b>24,562</b>

Note : K-IFRS consolidated financial statement basis

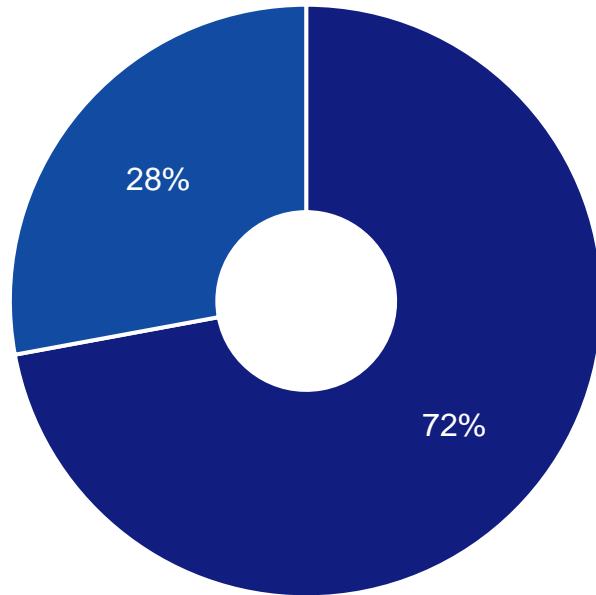


# Environmental

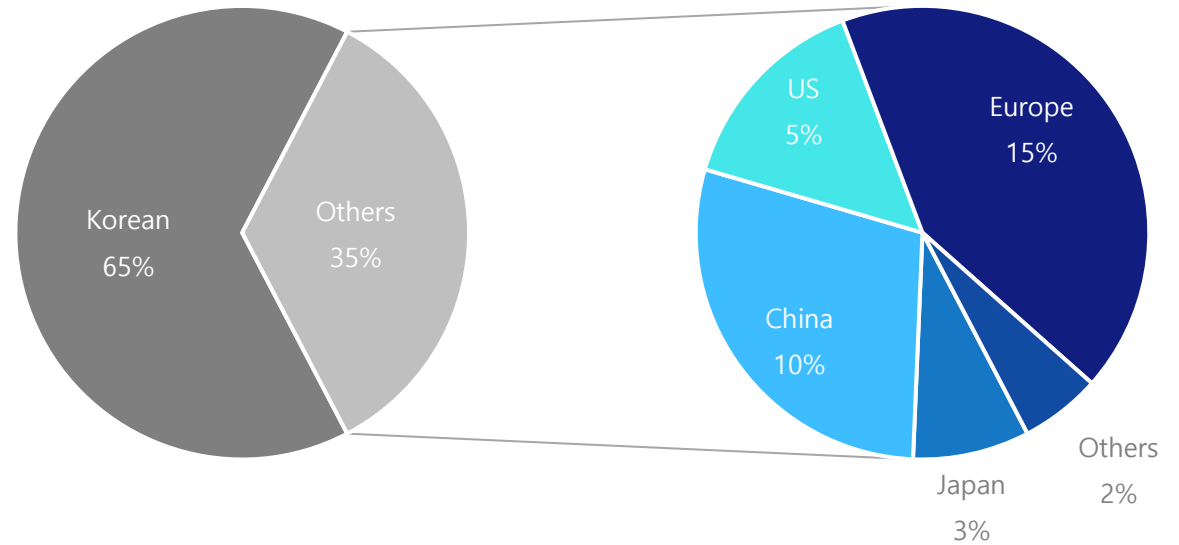


# Social

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



■ Male ■ Female



■ Korean ■ Japan ■ China ■ US ■ Europe ■ Others

# Governance

- The Board of Directors consists of 1 CEO and 6 outside directors for transparency in making decisions.



**Sang-il Park** Chairman

- CEO of Park Systems Corp. (1997~)
- Park Scientific Instruments, CEO (1988~1997)
- MBA, AEA-Stanford Executive Institute (1994)
- Ph.D. Applied Physics, Stanford Univ. (1987)
- BS. Physics, Seoul National Univ. (1981)

## Compensation Committee



**Jung-hwa Han** Outside director

- Professor of Hanyang Univ.(1989~)
- Chairman of Asan foundation(2019~2021)
- Director of Small and Medium Business Administration(2013~2016)



**Sang-gil Jeon** Outside director

- Professor, Department of Business Administration, Hanyang University
- President, Korea Human Resources Development Institute
- Member of the Personnel Innovation Committee of the Prime Minister's Office



**Jun Chung** Outside director

- CEO of Solid(1998~)
- Professor of KAIST(2020~)
- Researcher of Korea Telecom (1994~1998)
- Researcher of Hitachi(1993~1994)

## Audit Committee



**Kee-jun Park** Outside director

- CPA of Woori accounting firm(2020~)
- Outside Director of Meta-Branding(2023~)
- CEO of Kitus Co., Ltd.(2009~2019)
- CPA of Garib accounting firm(1997~1999)
- CPA of Anjin accounting firm(1988~1997)



**Kyu-Shik Kim** Outside director

- SM Ent. Outside director(2023~)
- Korea governance forum outside director(2021~)
- Executive Director of Soorim Asset Management (2018)
- Audit of Unimax (2016 ~ 2018)
- Risk Judge of Korea Asset Management Corp(2015 ~ 2016)



**Seung-ki Chae** Outside director

- Technical Committee of LG Display(2019~)
- Professor of Sungkyunkwan Univ.(2016~2019)
- Managing Director of Samsung Display(2013~2015)
- Director of Samsung Mobile Display(2011~2012)
- Samsung semiconductor(1993~2010)

# Dividend

	Unit	2020	2021	2022	2023
Earnings per Share	KRW	1,629	1,508	3,258	<b>3,786</b>
Dividend per share	KRW	180	250	400	<b>400</b>
Free Cash Flow (A)	M KRW	9,020	3,693	17,020	<b>17,080</b>
Total dividend (B)	M KRW	1,195	1,717	2,761	<b>2,768</b>
Payout ratio (B/A)	%	13.2%	46.5%	16.2%	<b>16.2%</b>

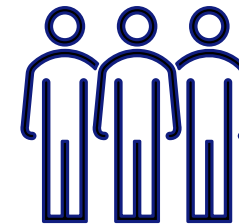
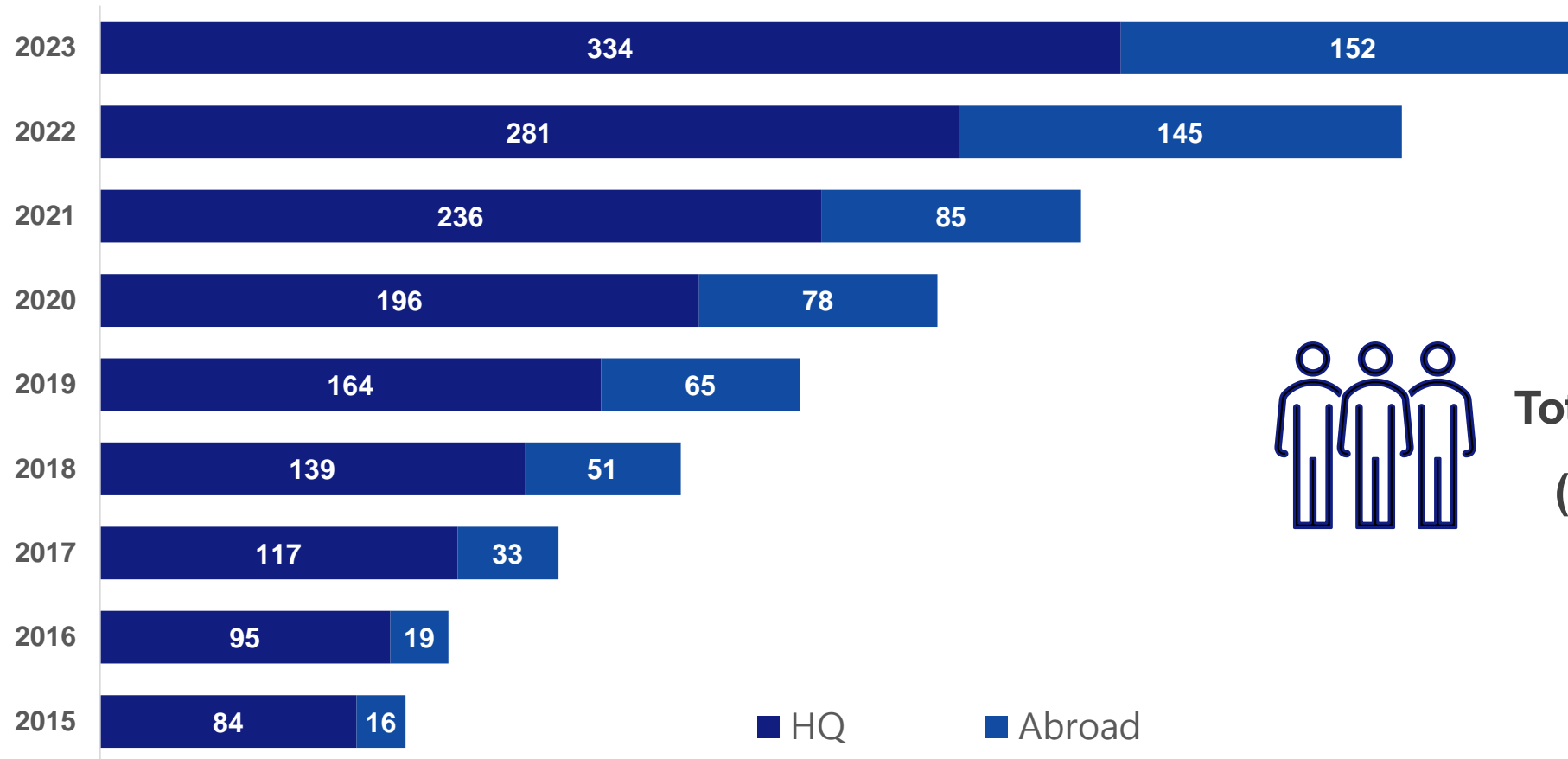
- Dividend Policy to enhance shareholders' Value
  - The company gives top priority to investment in organic and inorganic growth.
  - And then it has plans of share repurchase and dividend payout.
  - The dividends are supposed to be within the range of 10%~50% of FCF

# Appendix

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# HR

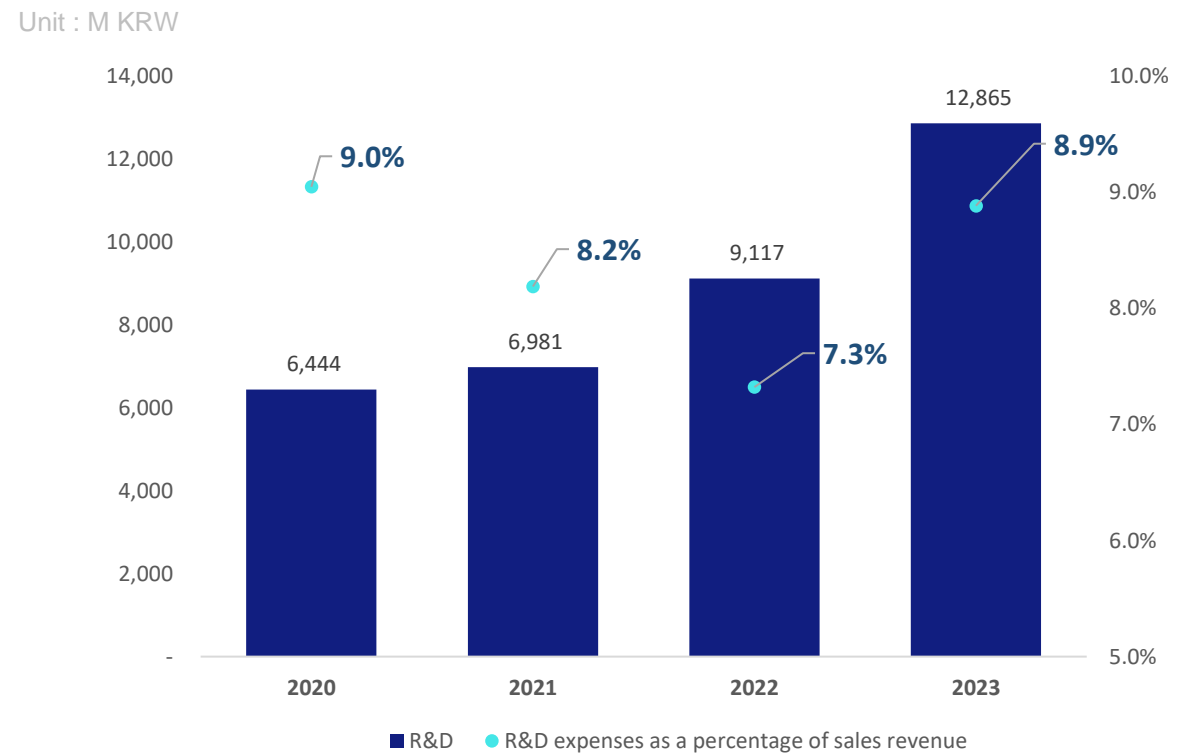
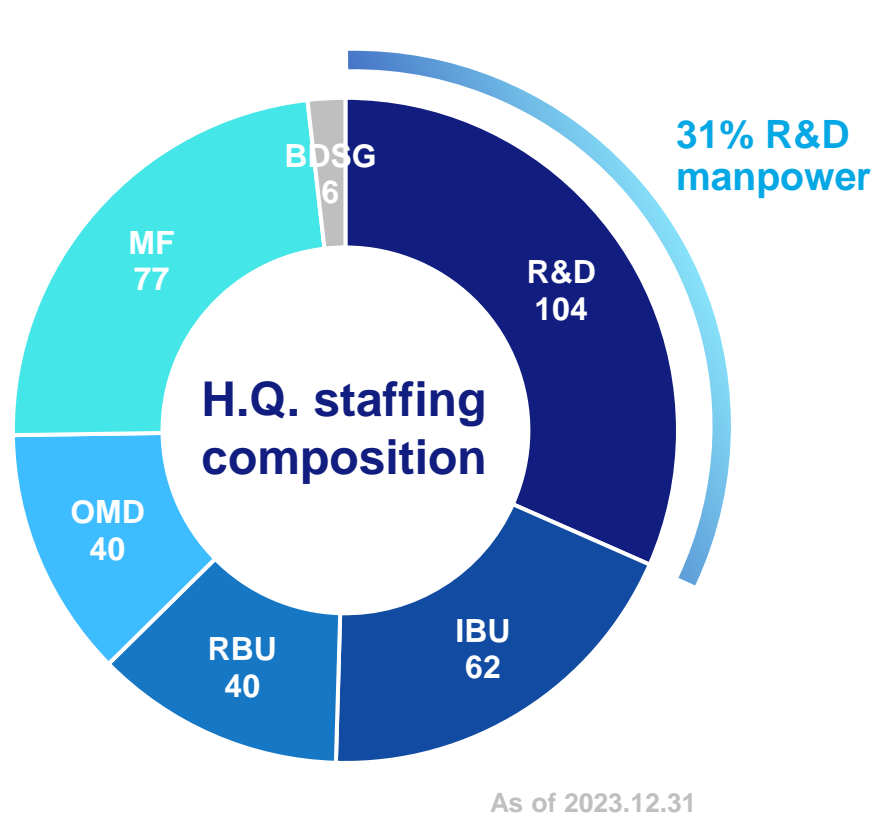
- Numbers of Employees



**Total employees : 486**  
**(As of 2023.12.31)**

# R&D

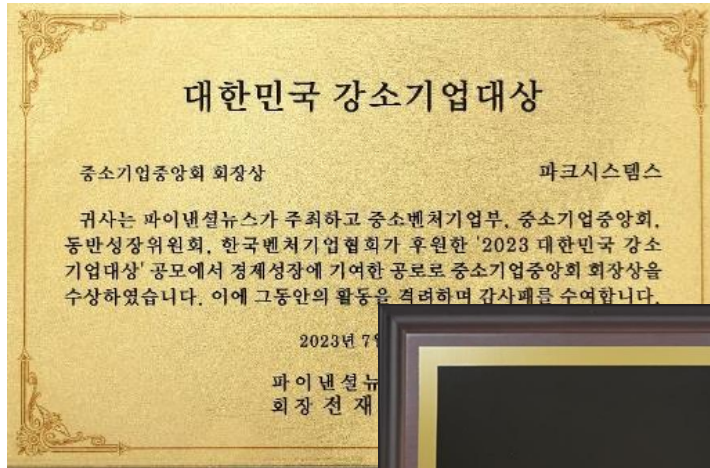
- Park Systems, headquartered in Suwon, is a world leader in manufacturing Atomic Force Microscopes with world-class R&D innovation capability for nanoscale metrology.



\* This information is based on consolidated Financial Statements

# Awards

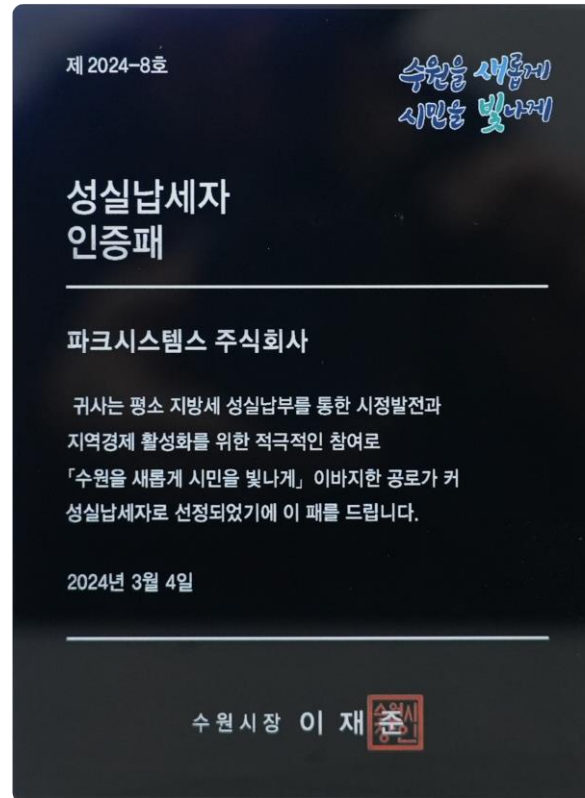
- Park Systems is garnering numerous awards from state agencies while continuing to operate as a transparent company.



Small and Medium Business Awards



Kosdaq Rising Star



Faithful tax payment corporation



Minister of Trade, Industry and Energy Commended



# Awards

- CEO Park Sang-il Wins Hanyang Baeknam Engineering Award

- Established to honor and inherit and develop the spirit of ‘practice of love’, the philosophy of life of the founder of Hanyang Academy, Baeknam Kim Yeon-joon, and the founding ideology of Hanyang Academy.
- Engineering Award: A person who has contributed to the development of our society through world-class creative and practical research and development.



# Others

- Park Systems Recognized in Forbes Asia's Best Under A Billion 2023
  - Listed companies in Asia/Pacific with sales of less than \$1 billion
  - Selection of 200 companies out of 20,000 companies in Asia-Pacific region
  - A total of 16 Korean companies, including our company, were selected
  - It's the second choice after 2020



SEARCH BY NAME  South Korea

NAME	COUNTRY/TERRITORY	SALES	NET INCOME	MARKET VALUE
Daechang Forging	South Korea	\$326 M	\$28 M	\$115 M
Dentium	South Korea	\$275 M	\$67 M	\$717 M
Gabia	South Korea	\$185 M	\$13 M	\$116 M
Global Standard Technology	South Korea	\$243 M	\$36 M	\$137 M
Hecto Innovation	South Korea	\$204 M	\$23 M	\$149 M
Jinsung T.E.C.	South Korea	\$419 M	\$35 M	\$176 M
JYP Entertainment	South Korea	\$435 M	\$111 M	\$3.41 B
KC	South Korea	\$664 M	\$77 M	\$208 M
Mgame	South Korea	\$57 M	\$18 M	\$109 M
Miwon Commercial	South Korea	\$339 M	\$56 M	\$669 M
MSC	South Korea	\$158 M	\$14 M	\$78 M
Park Systems	South Korea	\$96 M	\$22 M	\$521 M
Samyang Foods	South Korea	\$704 M	\$62 M	\$594 M
Sangsin Energy Display Precision	South Korea	\$225 M	\$19 M	\$166 M
SJ Group	South Korea	\$153 M	\$22 M	\$160 M

# Others

- Construction progress of the new building
  - Construction Start date: 2023.9.15
  - Estimated move-in: the 1<sup>st</sup> half of 2026

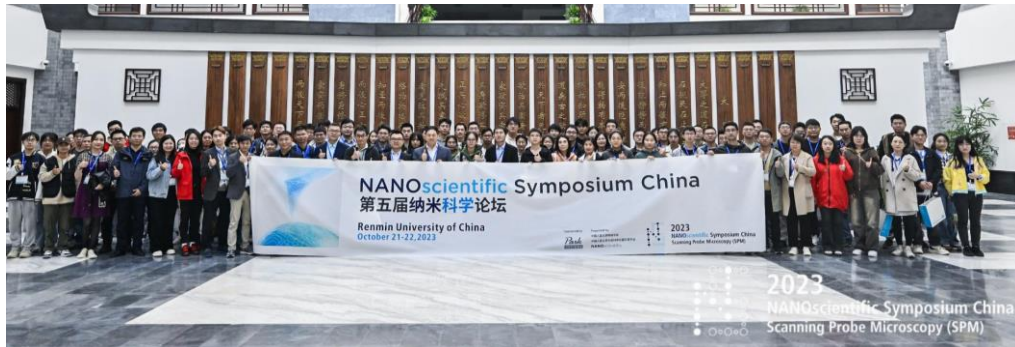


## 공사개요

공사명	과천시식정보타운 11-3BL 신축공사
대지위치	경기도 과천시 문원동 888-1 외
대지면적	6,074.00 m <sup>2</sup>
건축면적	3,739.07 m <sup>2</sup>
주용도	공장(지식산업센터)
공사규모	지하5층 ~ 지상15층
연면적	54,173.29 m <sup>2</sup>
공사기간	2023.07.14 ~ 2026.02.13
건축주	파크시스템스(주), (주)다원시스
설계자	(주)이가중합건축사사무소
	(주)이가중합건축사사무소
공사감리자	(주)선진엔지니어링중합건축사사무소
	(주)한석소방이엔씨
공사시공자	(주)케이씨씨건설

# Others

- Park Systems holds a symposium for nanotechnology exchange every year.

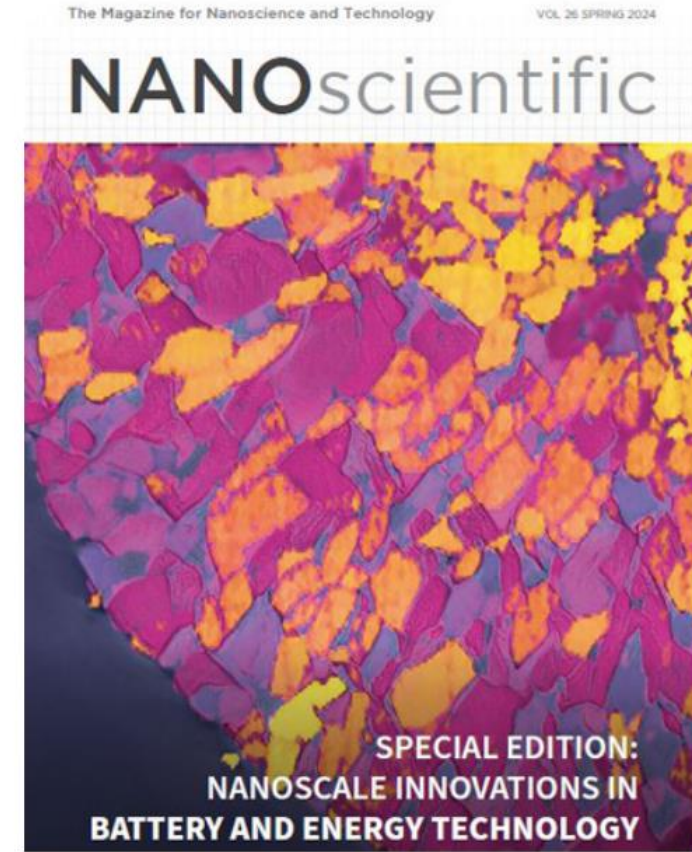


# Others

- Park Systems regularly publishes magazines for the development of nanotechnology.

# NANOscientific Magazine, SPRING 2024

Volume 26 | 07 May 2024



# Others

- Park Systems is actively engaging in public relations and media activities.

## [INTERVIEW] S. Korean atomic force microscope developer hopes for ecosystem for novel technologies

By Kim Joo-heon

Posted : January 16, 2024, 14:56 | Updated : January 18, 2024, 08:29



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### Park Systems Announces 2024 NANOscientific Symposiums



NEWS PROVIDED BY  
Park Systems Corp. →  
May 02, 2024, 09:00 ET

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SEOUL, South Korea, May 2, 2024 /PRNewswire/ – Park Systems, a global leader in nanoscale microscopy, is pleased to announce the 2024 schedule for the NanoScientific Symposiums. These renowned events are set to take place across major global regions, including SE Asia, China, Japan, Europe the Americas, and Korea.

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### Park Systems Continues Its Reign as Market Leader in Atomic Force Microscopy



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Park Systems Corp. →  
Mar 20, 2024, 07:00 ET

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### HYU ERICA and Park Systems Sign Industry-University Cooperation Agreement

Kim Sung-joo translator | HYU Global editor | 입력 2024.01.04 16:23 | 댓글 0

#### Hanyang University ERICA and Park Systems sign industry-university cooperation agreement

#### The Latest N

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- Prof. Jang Joor
- HYU ERICA-KOI
- Providing a Mer
- HYU Global Soc

On November 29, Hanyang University ERICA (President Lee Ki-jeong) and Park Systems (CEO Park Sang-il) signed a business agreement to enhance industry-university cooperation and foster outstanding talent, as announced by Hanyang University.



# Thank you

Park Systems

IR Team

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