



Company Introduction

Park Systems

IR Team

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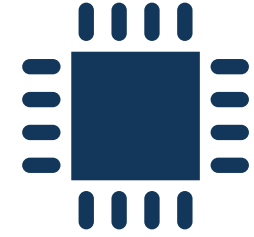
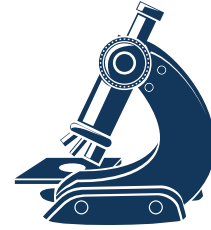
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Introduction



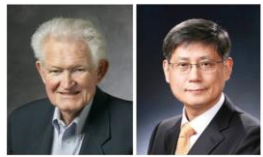
- Park Systems is a leading manufacturer of Atomic Force Microscopes, headquartered in Suwon, South Korea, with a global market presence.
- An Atomic Force Microscope is an essential tool for advancing the era of nanotechnology. It is a device that can measure and analyze a sample's shape and physical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

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 박성일 박사: 성공의 비결은 '공부'와 '사람'이다. 박성일 박사는 "AFM 개발 당시에는 원자현미경이 없었고, 원자현미경이 없으면 AFM을 개발할 수 없었다"고 말했다. 그는 "AFM은 원자 하나하나를 볼 수 있는 현미경이다. 이를 개발하기 위해서는 원자 하나하나를 볼 수 있는 현미경이 필요하다. 이를 개발하기 위해서는 원자 하나하나를 볼 수 있는 현미경이 필요하다. 이를 개발하기 위해서는 원자 하나하나를 볼 수 있는 현미경이 필요하다."

미국에 불리한 경쟁환경 딛고 기술도 중무게도 뚝 딛고 성공했다. 박성일 박사는 "미국은 원자현미경 개발에 유리한 환경이었는데, 우리는 그렇지 않았다. 하지만 우리는 더 나은 기술을 개발했고, 결국 미국 시장을 뚫고 성공했다."

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Park SYSTEMS

1997-Present

KOSDAQ LISTED COMPANY

2015

세계 2위, 국내 유일 ... 원자현미경 분야 '매운 고추'

박 대표, 소벤처벤처서 창업 후 20년째 CEO로 근무하며 세계 유일 원자현미경 분야 '매운 고추'를 키워냈다. 박성일 박사는 "AFM은 원자 하나하나를 볼 수 있는 현미경이다. 이를 개발하기 위해서는 원자 하나하나를 볼 수 있는 현미경이 필요하다. 이를 개발하기 위해서는 원자 하나하나를 볼 수 있는 현미경이 필요하다."

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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

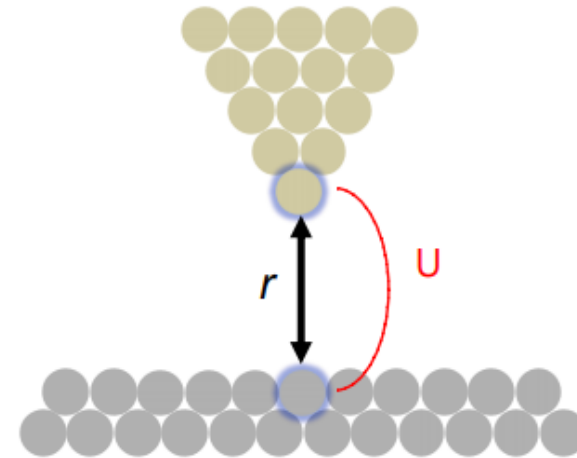
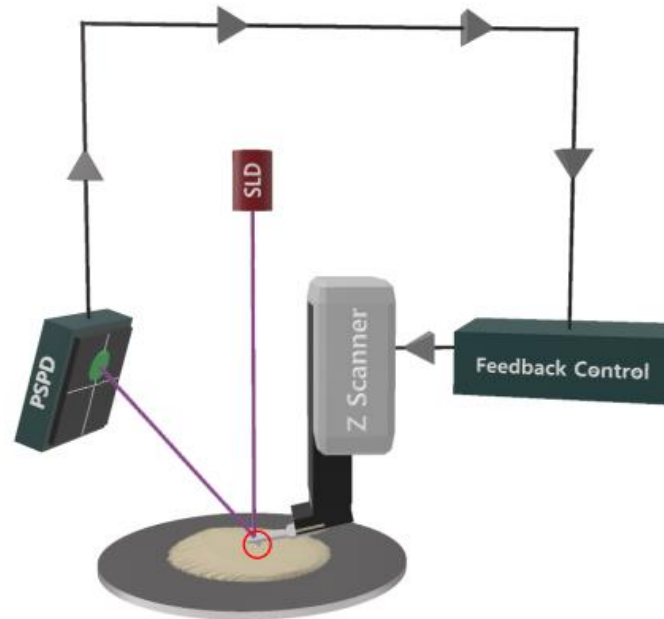
Global Channels

- 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**.

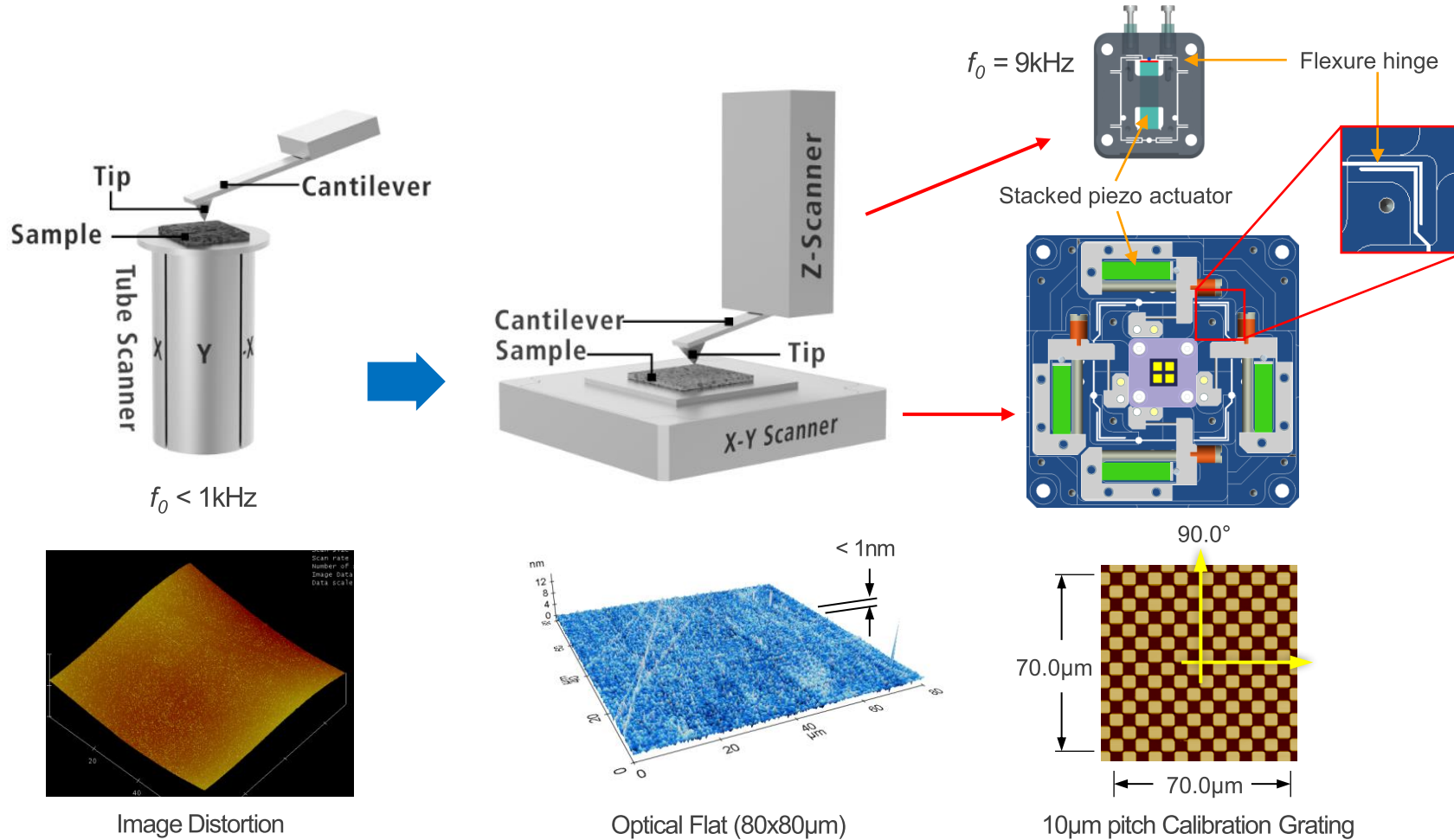


Potential (U) changes depending on the distance between two atoms.

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

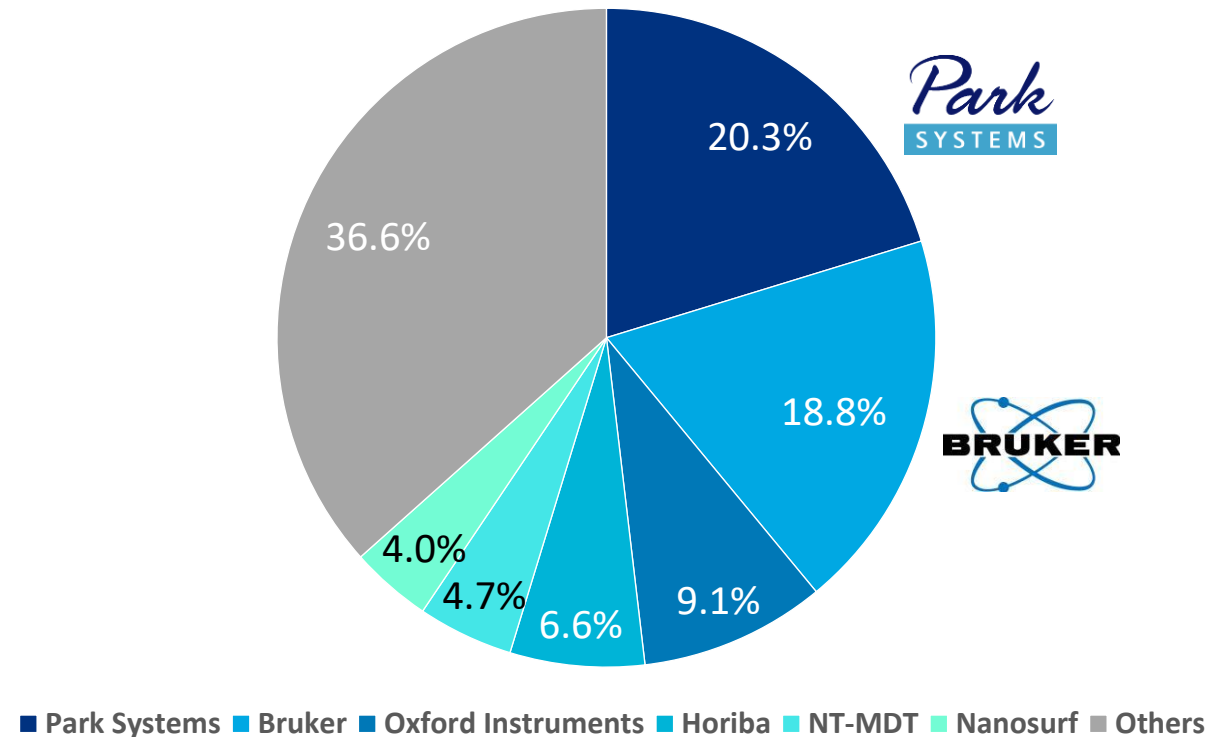
Division	Contents	Registration date
Patent	ATOMICFORCEMICROSCOPEEQUIPPEDWITHOPTICALMEASUREMENT DEVICEANDMETHODOFACQUIRINGINFORMATIONONSURFACEOFMEASUREMENTTARGETUSINGTHESAME	2023-04-04
Patent	MEASURING METHOD FOR MEASURING HEAT DISTRIBUTION OF SPECIFIC SPACE USING STHM PROBE, METHOD AND DEVICE FOR DETECTING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

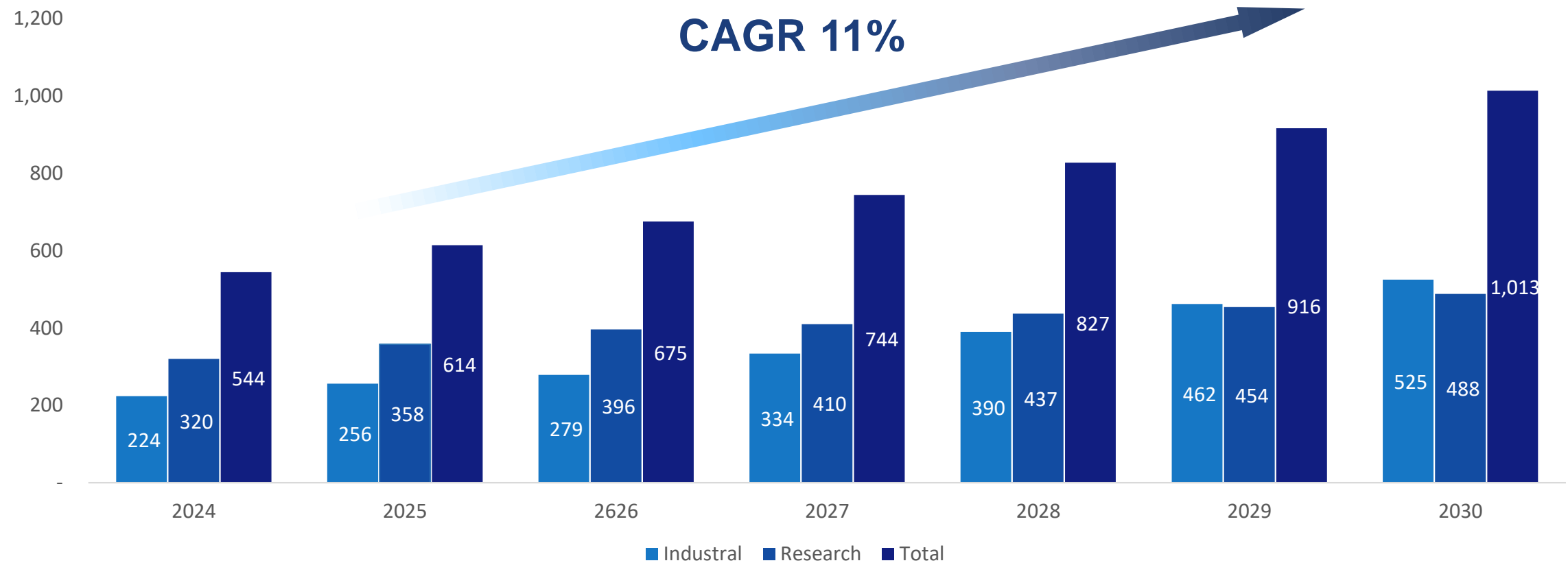


Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2023

Market Growth

- The Atomic Force Microscopy market has been growing rapidly.

Unit : M USD



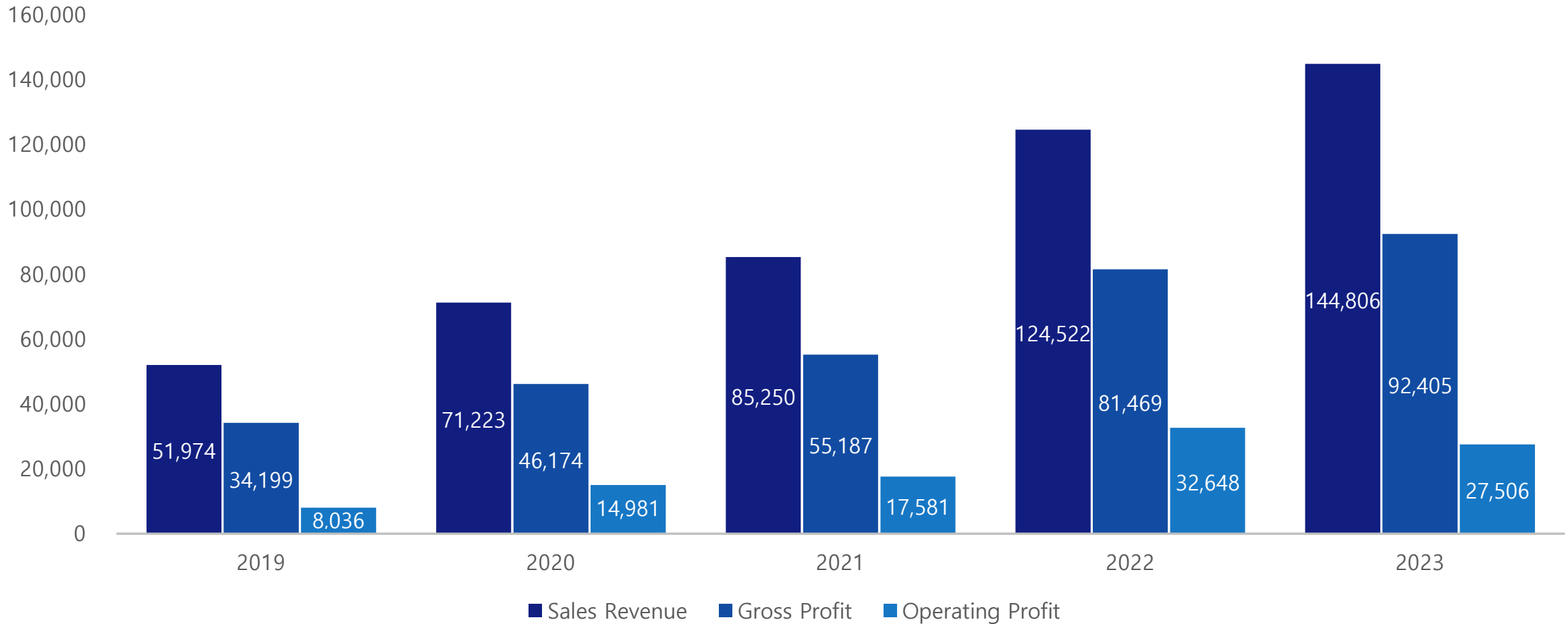
Source: Above companies; Secondary Sources, Expert Interviews and QYResearch, 2023

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 EUV Processes
 - Both logic and memory semiconductors will increasingly adopt EUV processes.
 - In advanced nodes, new processes are continually emerging.
 - With the expansion of EUV 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

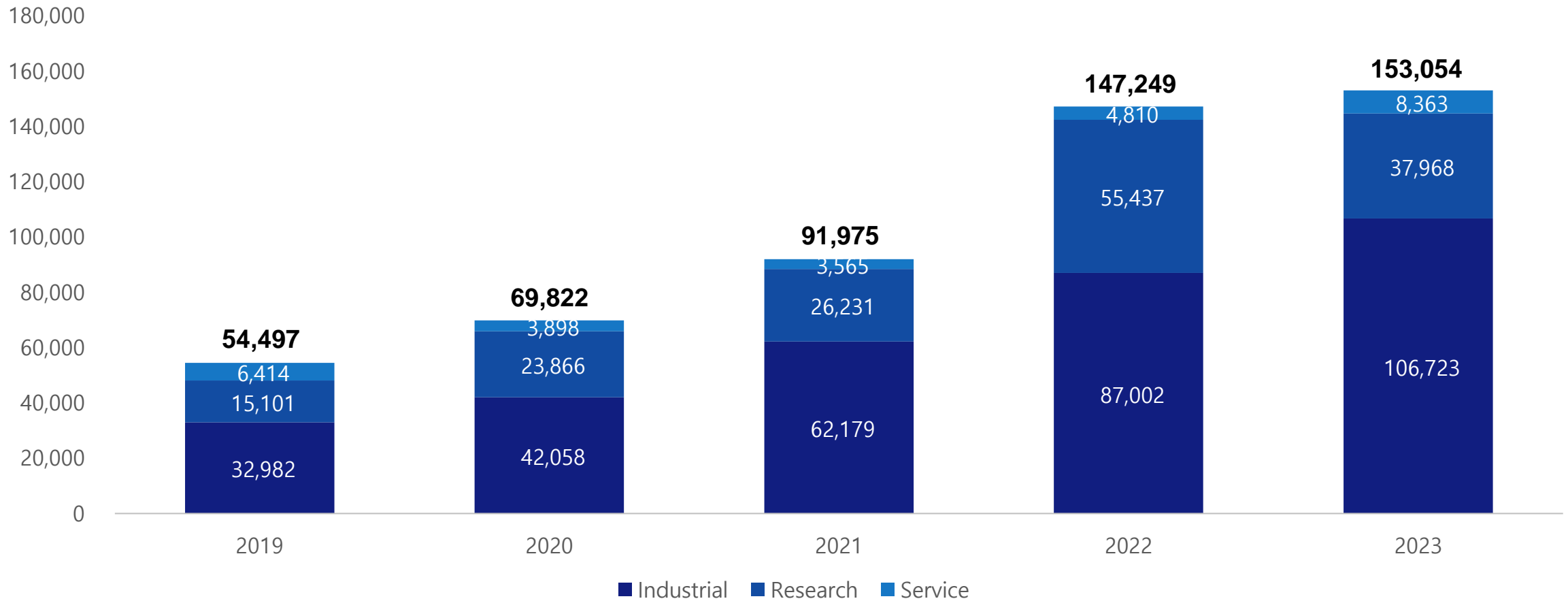
Sales Revenue for the 5 past years

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
Total asset	104,415	133,915	167,049	201,673
Current liabilities	27,265	26,669	39,688	49,665
Non-current liabilities	24,068	17,103	7,898	8,523
Total Liabilities	51,333	43,772	47,586	58,188
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
Total equity	53,082	90,142	119,463	143,485

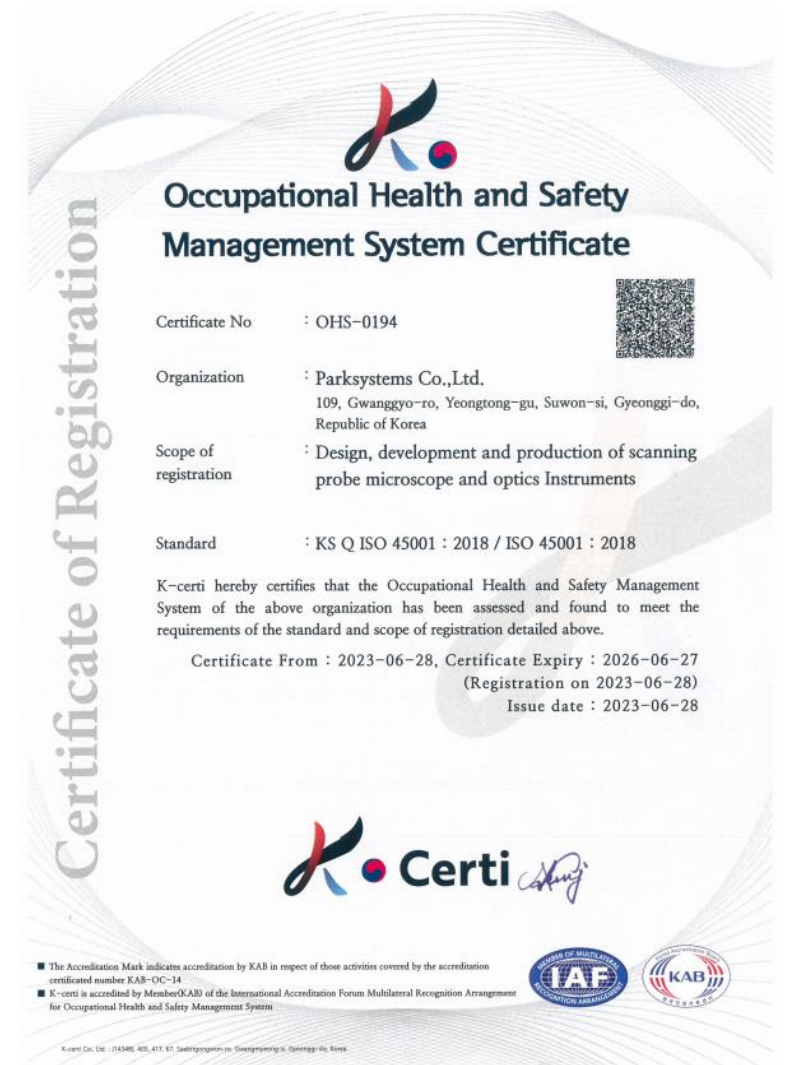
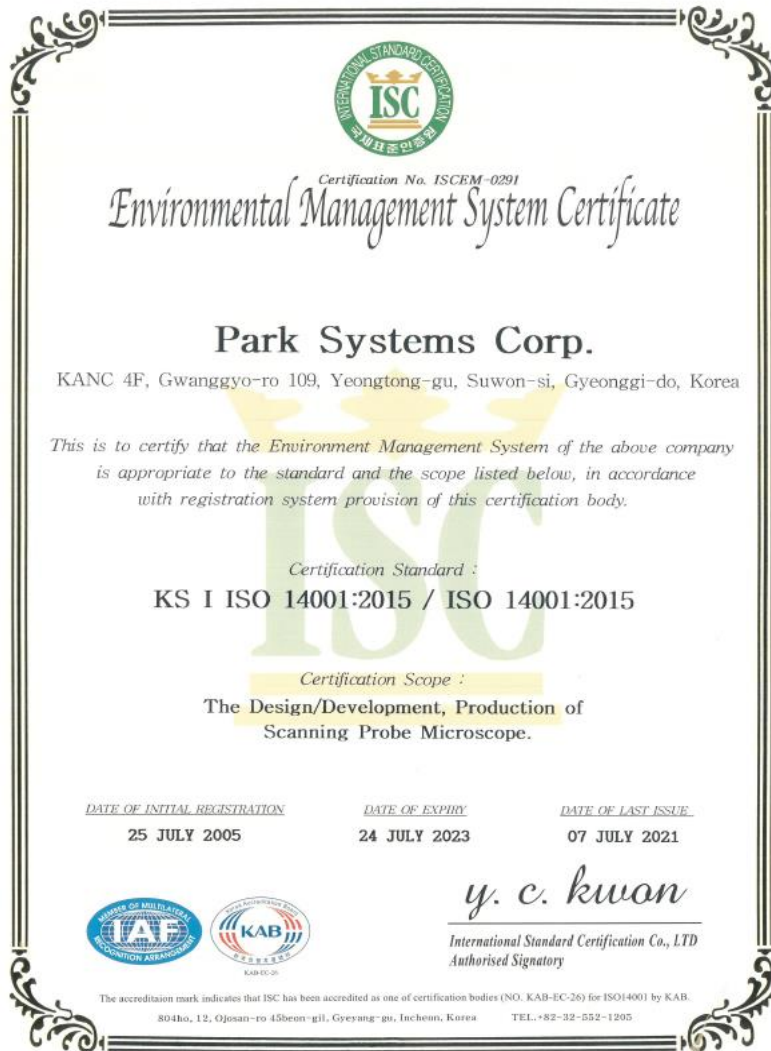
Note : K-IFRS consolidated financial statement basis

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
Net income	9,956	9,085	27,984	24,562

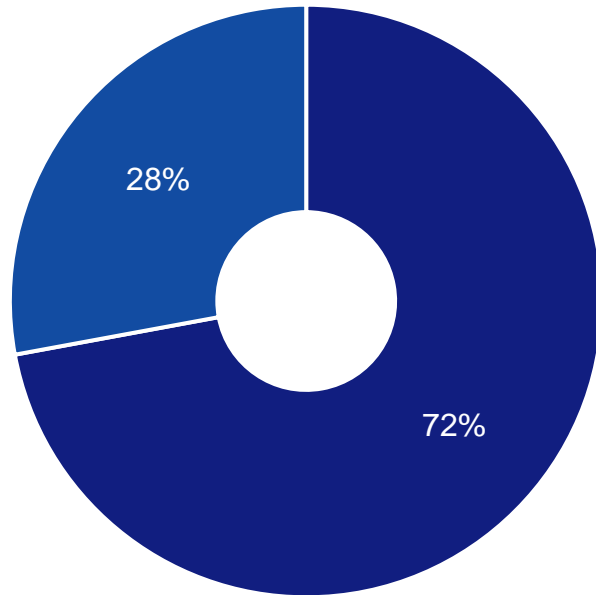
Note : K-IFRS consolidated financial statement basis

Environmental

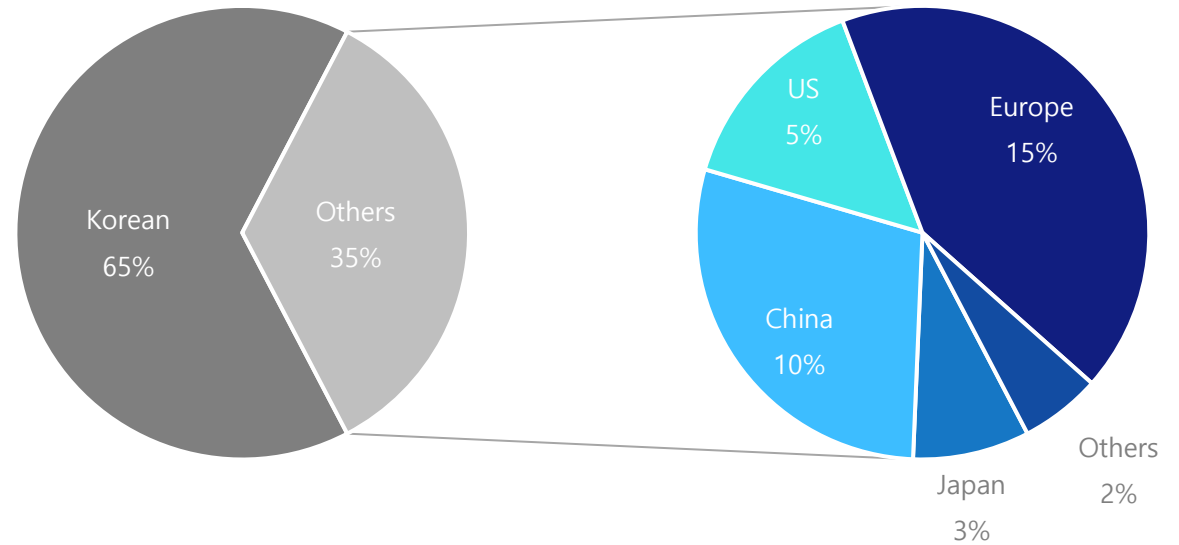


Social

- 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

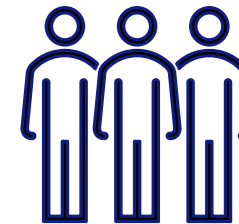
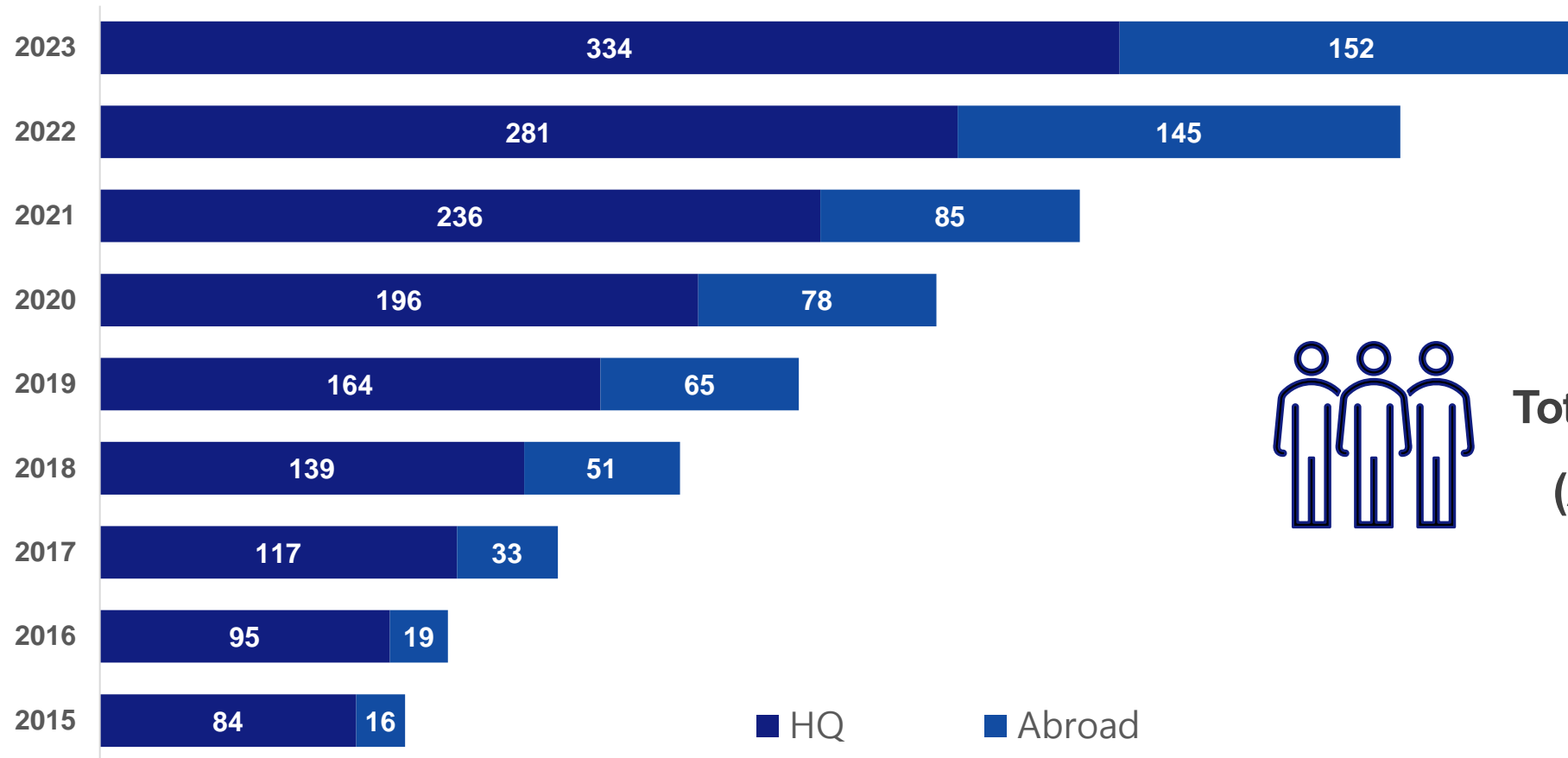
	Unit	2020	2021	2022	2023
Earnings per Share	KRW	1,629	1,508	3,258	3,786
Dividend per share	KRW	180	250	400	400
Free Cash Flow (A)	M KRW	9,020	3,693	17,020	17,080
Total dividend (B)	M KRW	1,195	1,717	2,761	2,768
Payout ratio (B/A)	%	13.2%	46.5%	16.2%	16.2%

- 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

HR

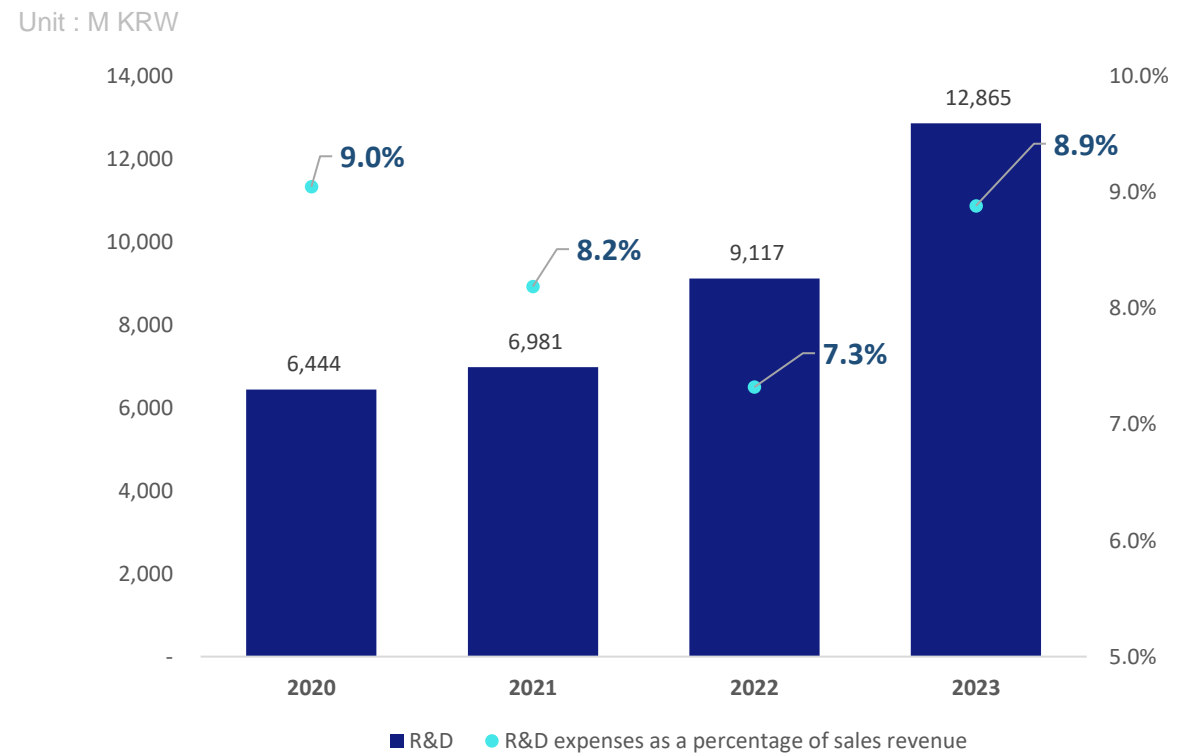
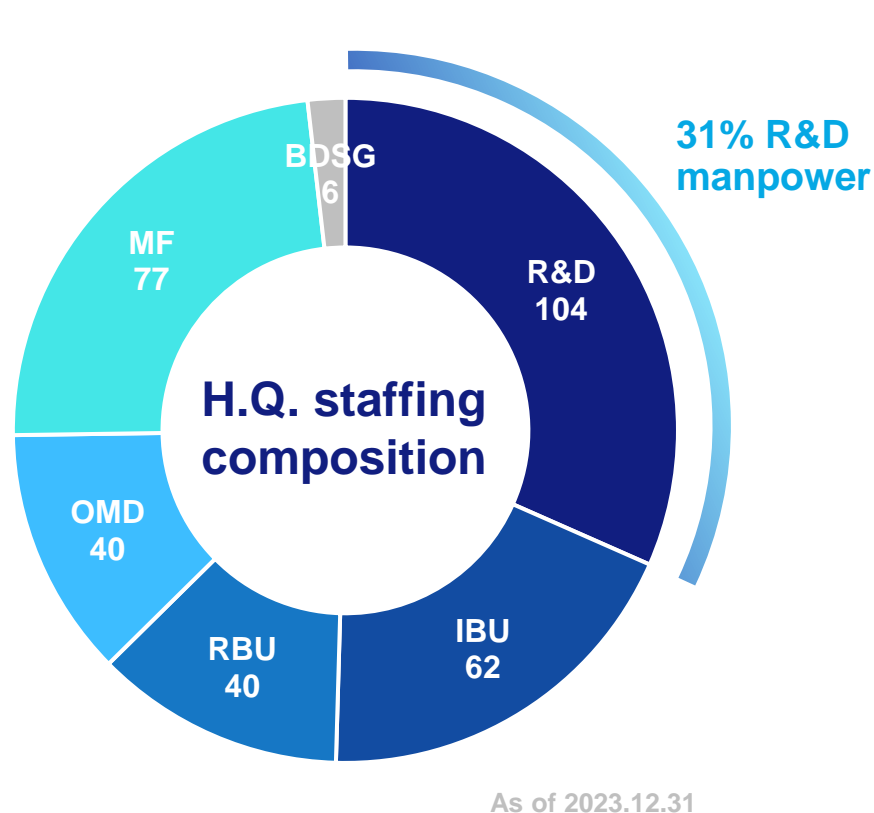
- Numbers of Employees



Total employees : 486
(As of 2023.12.31)

R&D

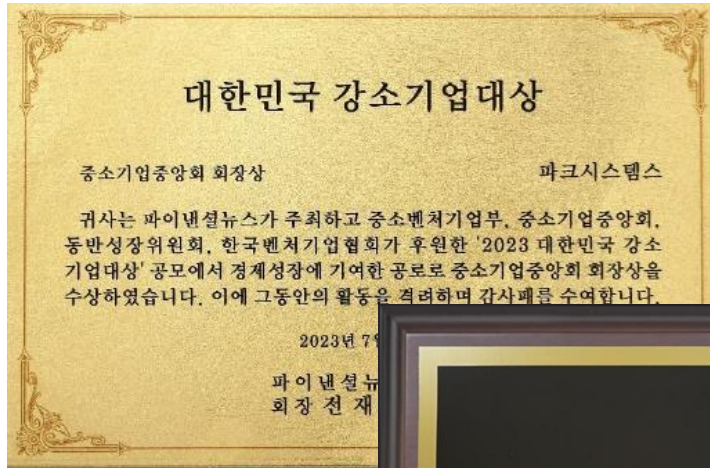
- Park Systems, headquartered in Suwon, is a world leader in manufacturing Atomic Force Microscopes with world-class R&D innovation capability for nanoscale metrology.



* This information is based on consolidated Financial Statements

Awards

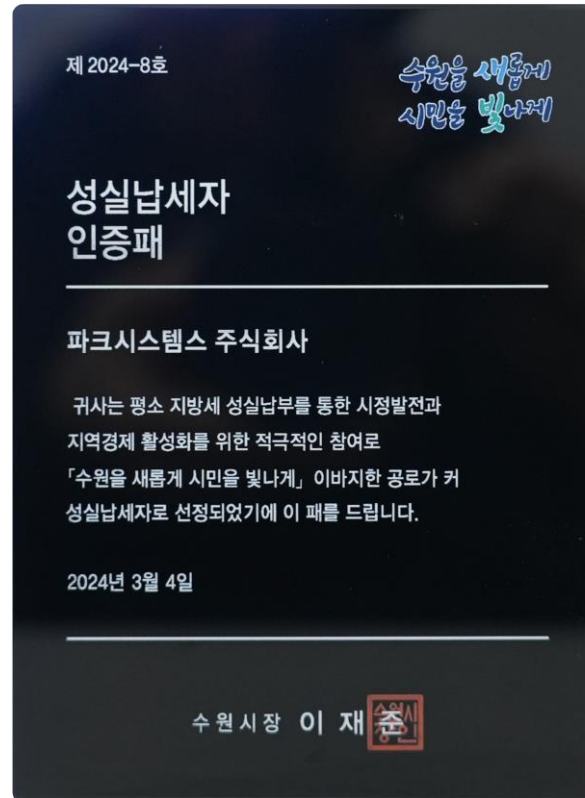
- Park Systems is garnering numerous awards from state agencies while continuing to operate as a transparent company.



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 1st half of 2026

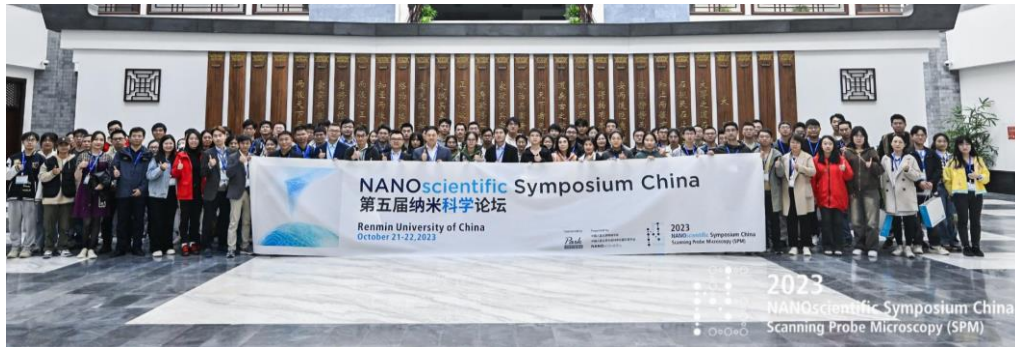


공사개요

공사명	과천시식정보타운 11-3BL 신축공사
대지위치	경기도 과천시 문원동 888-1 외
대지면적	6,074.00 m ²
건축면적	3,739.07 m ²
주용도	공장(지식산업센터)
공사규모	지하5층 ~ 지상15층
연면적	54,173.29 m ²
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.

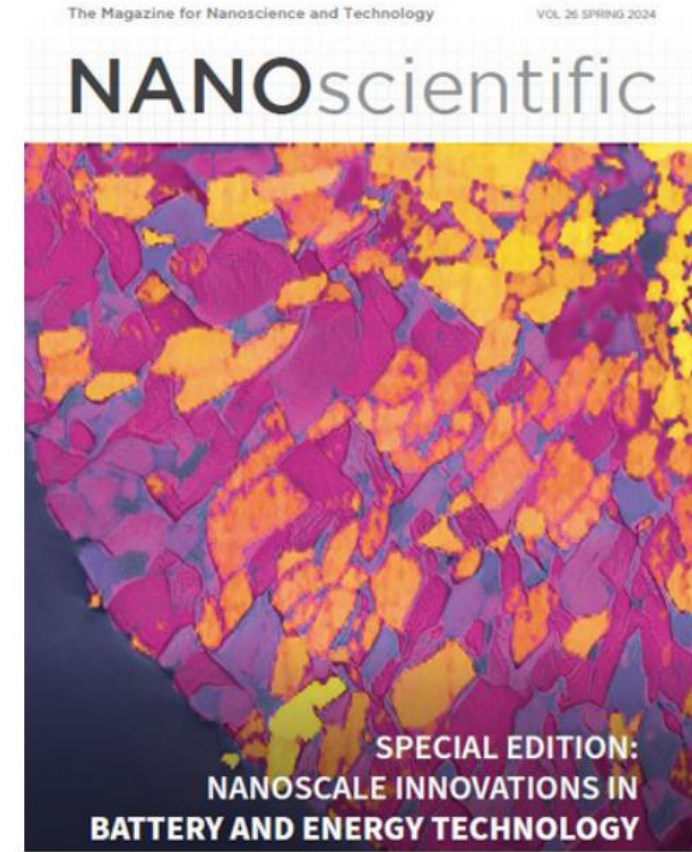


Others

- 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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News in Focus Business & Money Science & Tech Lifestyle & Health Policy & Public Interest People & Culture

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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HYU ERICA and Park Systems Sign Industry-University Cooperation Agreement

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

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

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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

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