

FY2023 Second Quarter

(Fiscal Year Ending March 2024)

FINANCIAL RESULTS BRIEFING

November 24, 2023

日本電子株式会社 JEOL Ltd.



Becoming a top niche company supporting science and technology around the world

Company Philosophy

On the basis of "Creativity" and "Research and Development", JEOL positively challenges the world's highest technology, thus forever contributing to the progress in both Science and Human Society through its products.

Vision "Evolving in the 70th Year"

Accelerate business expansion and achieve even higher profitability based on our unique technologies and human networks which have been developed since the company's founding.

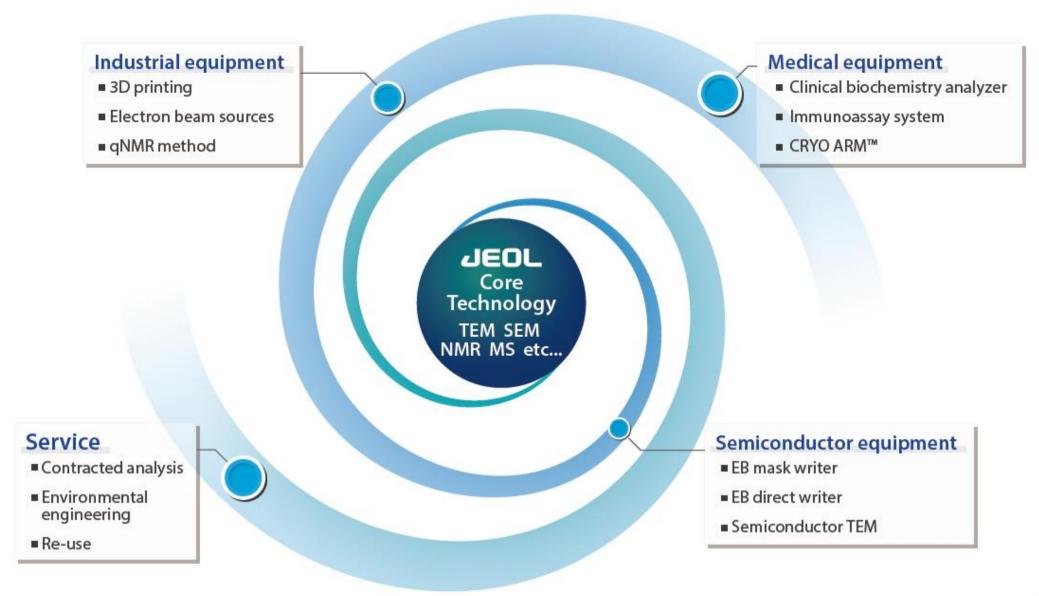
Mid-Term Management Plan "Evolving Growth Plan"

We aim to improve customer satisfaction by enhancing our R&D, manufacturing, and service capabilities.



Growth vision of "Evolving in the 70th Year" remains unchanged

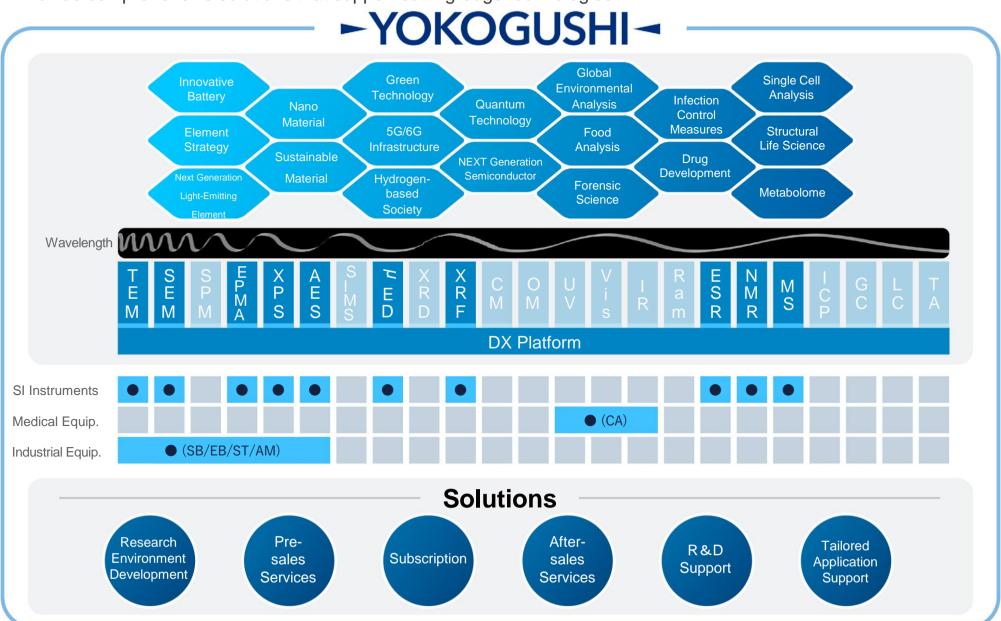
Expand business scale and achieve higher profitability



Strengthen and develop YOKOGUSHI Strategy



Provide comprehensive solutions that support cutting-edge technologies



Mid-Term Management Plan "Evolving Growth Plan" (FY 2022-2024)

Mid-Term Management plans since FY 2010

Step 1 (FY13-15)

Improve our business foundation

CHALLENGE 5

Management structure reforms

Reduce the number of employees and other structural reforms. Restructure group companies

- Corporate culture reforms
- Visualization. PDCA, market reforms
- Deep cultivation of developing markets

Establish local subsidiaries in Brazil. Russia, India, China and other countries

Step 2 (FY13-15)

Shift toward growth strategies

Dynamic Vision

- Strengthen product developments
- Improve manufacturing abilities
- Enhance our brand power
- YOKOGUSHI strategy full-scale
- Implement capital policies(public offering& Nikon alliance)
- Convert JRI into consolidated subsidiary

Step 3 (FY16-18)

Concrete growth strategy **Triangle Plan**

Speed

Pursue high-throughput functionality and speed up development

Difference

Launch ONLY-ONE(unique) JEOL products, inculcate YOKOGUSHI

Change

Shift from academia to private demand and from physical products to services

Step 4 (FY19-21)

Accelerate growth and take the next steps

Triangle Plan 2022

- Enhance core technologies
- Proactive entry into growth markets
- Provide total solutions
- Make the required investments and improve profitability

Step 5 (FY22-24)

Expand the business scale and achieve higher profitability

Evolving Growth Plan

- Strengthen and develop YOKOGUSHI strategy
- Build barriers to entry, improve profitability
- Continue to implement new strategies
- Strengthen business support

Net Sales/Operating Profit Transition



Summary

Evolving Growth Plan

Accelerate business scale expansion and achieve higher profitability by further implementing the "Evolving in 70th Year"

FY2023 1st Half Result

Recorded the highest sales and profit
Orders and backlogs also reached record high

Semiconductor Market

Demand for multi-beam mask writer (MBMW) has been affected by the slow recovery of the semiconductor market, while demand for singlebeam mask writer remain strong, especially in China, due to demand for power semiconductors, etc.

FY2023 Forecast

Net sales 172 billion yen, operating profit 24.5 billion yen ordinary profit 25 billion yen, net profit 18 billion yen

Mid-Term Management Plan
Evolving Growth Plan
-Initiatives

- 1. Build barriers to entry and improve profitability
- 2. Expand business in growing markets such as semiconductors, drug discovery, batteries, etc.

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- 2. Business status of each segment
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1. FY2023 2Q result and FY2023 Forecast



FY2023 2Q Results (P/L)

■ Record high for the 1st half of the year

Consolidated figures (P/L)			(100 million JPY)		Factors for fluctuating or	dinary profit
	FY2022 2Q Result (1)	FY2023 2Q Result (2)	Year-on-Year (2)-(1)		(year-on-year	
1 Net sales	647	687	40			(100 million JPY)
2 Sales cost	356	357	1		(A) Positive Factors	39
3 (Cost rate)	(54.9%)	(51.9%)	(- 3.0%)		1. Improved cost rate, etc.	15
4 Gross profit	292	330	38		Exchange margin (yen depreciation)	13
5 SGA	178	195	17		3. Sales volume increase	11
6 R&D cost	45	53	7			I
7 SGA total	223	247	25		(B) Negative Factors	- 25
8 Operating profit	69	83	14		1. SGA increase	- 17
9 Non-operating income	21	20	- 0	' ·	2. R&D cost increase	- 7
10 Non-operating expenses	1	1	- 0			
11 Ordinary profit	88	102	13	\hookrightarrow	(A)+(B)	14
12 Extraordinary income	10	2	- 8			
13 Extraordinary loss	2	1	- 1			
14 Net profit before tax	96	102	6			
15 Corporate taxes	24	27	3			
16 Net profit	72	75	3			
Exchange rate (1\$=)	¥133	¥141				
Exchange rate (1€=)	¥139	¥154				

Transition of Consolidated Sales & Operating Profit by Segment (Cumulative 2Q)

(100 million JPY)

			(100 11111101101111)
	FY 2021 2Q result	FY 2022 2Q result	FY 2023 2Q result
Net sales	534	647	687
Operating profit	37	69	83
Ordinary profit	47	88	102
Net profit	37	72	75
Net sales	295	358	441
Operating profit	- 7	- 1	37
Net sales	145	205	172
Operating profit	58	93	70
Net sales	94	85	74
Operating profit	8	3	5
Operating Expenses	23	26	29
=)	¥ 110	¥ 133	¥ 141
=)	¥ 131	¥ 139	¥ 154
	Operating profit Ordinary profit Net profit Net sales Operating profit Net sales Operating profit Net sales Operating profit Operating profit Operating Expenses	Net sales Operating profit Ordinary profit Net profit Net profit Net sales Operating profit Net sales Operating profit Net sales Operating profit Net sales Operating profit Net sales Operating profit Net sales Operating profit Sales Operating profit Operating profit Sales Operating profit	Vet sales 534 647 Operating profit 37 69 Ordinary profit 47 88 Net profit 37 72 Net sales 295 358 Operating profit -7 -1 Net sales 145 205 Operating profit 58 93 Net sales 94 85 Operating profit 8 3 Operating Expenses 23 26

FY2023 Forecast (P/L)

Consolidated net sales ¥172 billion, Operating profit ¥24.5 billion, Ordinary profit ¥25 billion, Net profit ¥18 billion

Consolidated figures (P/L)			(10	00 million JPY)			
	FY22 Full- Year Result (1)	FY23 Full-year Forecast (as of May, 2023)	FY23 Full-year Forecast (2) (as of Nov 2023)	Year-on-Year (2)-(1)		Factors for fluctuating ording (year-on-year)	nary profit
1 Net sales	1,627	1,670	1,720	93		(10	00 million JPY)
2 Sales cost	900	957	949	49		(A) Positive Factors	58
3 (Cost rate)	(55.3%)	(57.3%)	(55.2%)	(- 0.1%)		FX margin (Yen depreciation)	27
4 Gross profit	727	713	771	44		2. Sales volume increase	31
5 SGA	382	394	413	31		(B) Negative factors	- 55
6 R&D cost	104	109	113	9		SGA increase	- 31
7 SGA total	485	503	526	41		2. Cost deterioration, etc.	- 14
8 Operating profit	242	210	245	3		3. R&D cost increase	- 9
9 Non-operating income	8	5	8	0			
10 Non-operating expenses	15	0	3	- 12		(A)+(B)	3
11 Ordinary profit	235	215	250	15			
12 Extraordinary income	10	0	2	- 8			
13 Extraordinary loss	8	1	2	- 6			
14 Net profit before tax	237	214	250	13			
15 Corporate taxes	59	59	70	11			
16 Net profit	178	155	180	2			
Exchange rate (1\$=)	¥ 135	¥ 130	¥ 141				
Exchange rate (1€=)	¥ 141	¥ 140	¥ 153				

Factors of Increase/Decrease in Profit







Transition of Consolidated Sales & Operating Profit by Segment (Full-year)

(Billion JPY)

		FY2021 Full-year result	FY2022 Full-year result	FY2023 Full-year forecast (as of May, 2023)	FY20223 Full-year forecast (as of Nov, 2023)
	Net sales	138.4	162.7	167.0	172.0
Company Total	Operating profit	14.1	24.2	21.0	24.5
Company Total	Ordinary profit	16.3	23.5	21.5	25.0
	Net profit	12.3	17.8	15.5	18.0
Scientific/Metrology	Net sales	85.1	94.8	104.8	112.3
Instruments	Operating profit	4.8	5.8	6.8	11.5
Industrial	Net sales	34.0	49.5	44.5	44.5
Equipment	Operating profit	13.1	23.3	20.0	18.4
Medical	Net sales	19.3	18.4	16.7	15.2
Equipment	Operating profit	1.1	0.5	0.2	0.5
Company Total	Operating Expenses	4.9	5.4	6.0	6.0
Exchange rate (1\$=	=)	¥ 113	¥ 135	¥ 130	¥ 141
Exchange rate (1€=	=)	¥ 131	¥ 141	¥ 140	¥ 153

Transition of Major Accounts

2nd Quarter (100 million JPY)

(Co	onsolidated)	FY2021 2Q result	FY2022 2Q result	FY2023 2Q result	
1	Inventory	652	706	821	
2	Interest-bearing debt	214	140	90	
3	Net assets (capital-to-asset)	774 (46.0%)	927 (49.0%)	1,094 (53.4%)	
4	Dividend (JPY)	14 JPY	30 JPY	33 JPY	
5	Overseas sales ratio	68.0%	75.4%	66.7%	
6	Consolidated Orders received	838	899	1,092	
7	Consolidated Order backlog	913	1,187	1,361	

2Q Transition of Consolidated Orders, Sales and Backlog



Full-year

(100 million JPY)

(Consolidated)	FY2021 Full-year result	FY2022 Full-year result	FY2023 Full-year forecast	
1 Inventory	591	688	735	
2 Interest-bearing debt	166	115	145	
3 Total assets	1,896	1,993	2,157	
4 Net assets (capital-to-asset)	859 (45.3%)	1,019 (51.1%)	1,181 (54.8)	
5 Dividend (JPY)	50 JPY	66 JPY	74 JPY	
6 Capital investment	69	37	50	
7 Depreciation cost	41	47	48	
8 Consolidated Orders received	1,712	1,647	1,720	
9 Consolidated Order backlog	936	956	956	
10 Overseas sales ratio	63.4%	70.7%	67.0%	

Capital Efficiency Indicators

1 ROE	17.9%	19.0%	16.4%
2 ROIC*	11.1%	16.7%	14.4%
3 PBR	x 4.08	x 2.13	_

^{*} Based on internal management regulations

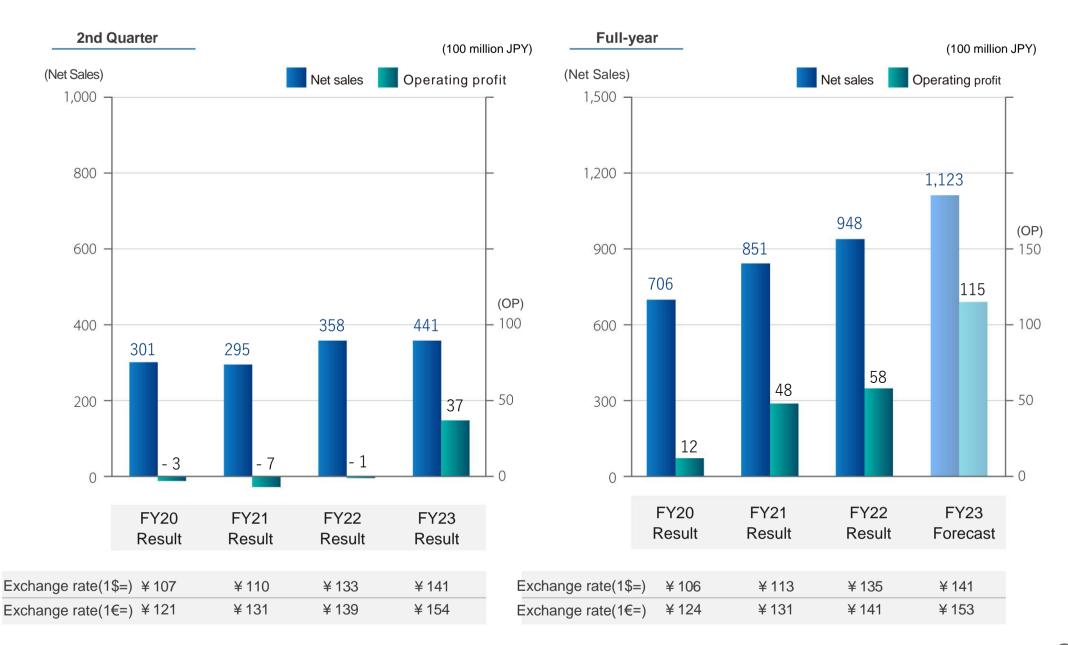
Business Environment

• Scientific and Metrology Instrument orders continue to be strong. Semiconductor market is still in an adjustment phase.

			Overview
Scientific	Universities and Governmental Demand	(Good)	 ■ Governments continue to invest actively in science and technology ■ Steady inquiries in Europe, the U.S., and China
and Metrology Instruments	Private Demand (Semiconductor)	(Good)	 TEM inquiries continue to be strong, especially in Taiwan, Korea and China Increasing demands for electron microscopes (TEM, SEM, etc.) due to miniaturization and complexity of semiconductors
mstruments	Private Demand (other industries)	(Good)	■ R&D investments for next-generation batteries continue
Industrial Equipment	Lithography System Market	O (Mixed)	 Multi-beam mask writers is slow due to a delay in the recovery of EUV investments, but growth is expected to continue over the mid to long term. Single-beam mask writers for legacy nodes continue to perform well due to demand for power semiconductors especially in China.
	EB Source Market	(Slow)	■ Softening demands for smartphones has led to weaker demand of e-beam source
Medical Equipment	Japan	(Good)	■ Demand of biochemistry analyzer is increasing, mainly for test centers.
	Overseas Market	(Slow)	■ Decrease in orders and sales mainly to China due to the impact of the 'buy Chinese' policy.

2. Business status of each segment2-1. Scientific/Metrology Instruments





Scientific and Metrology Instrument

 Continue efforts for profit enhancement through further development of Scientific and Metrology Instruments, such as electron microscopes

1

Expansion in overseas markets

 Growth in electron microscopes market driven by overseas markets, such as Asian countries including China



3

Development of differentiated products

 World-leading technology proven by track record in academia research of cutting edge technologies

Development of innovative products



Profit

Enhancement

 Further penetration in commercial use, including Applied R&D and QA / QC purpose



- Increasing acquisition-rate of service business from overseas customers
- Providing innovative service businesses



2

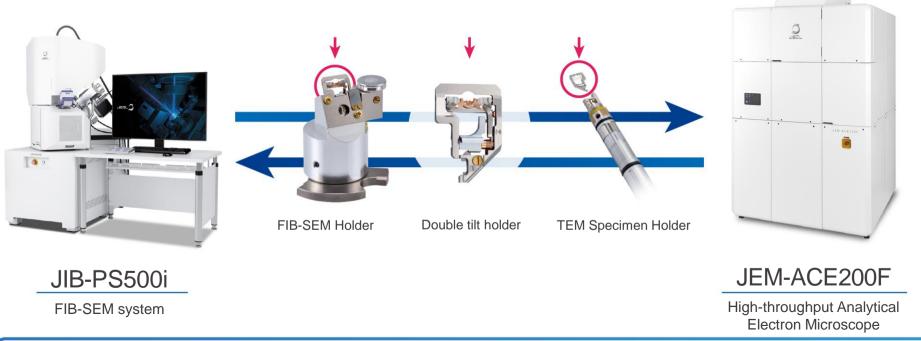
Expansion in the private sectors

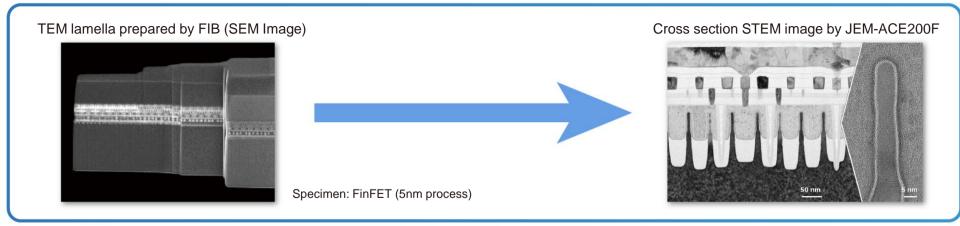
4

Improvement of service business acquisition rate

Analysis Solutions for Semiconductor (Specimen transfer workflow)

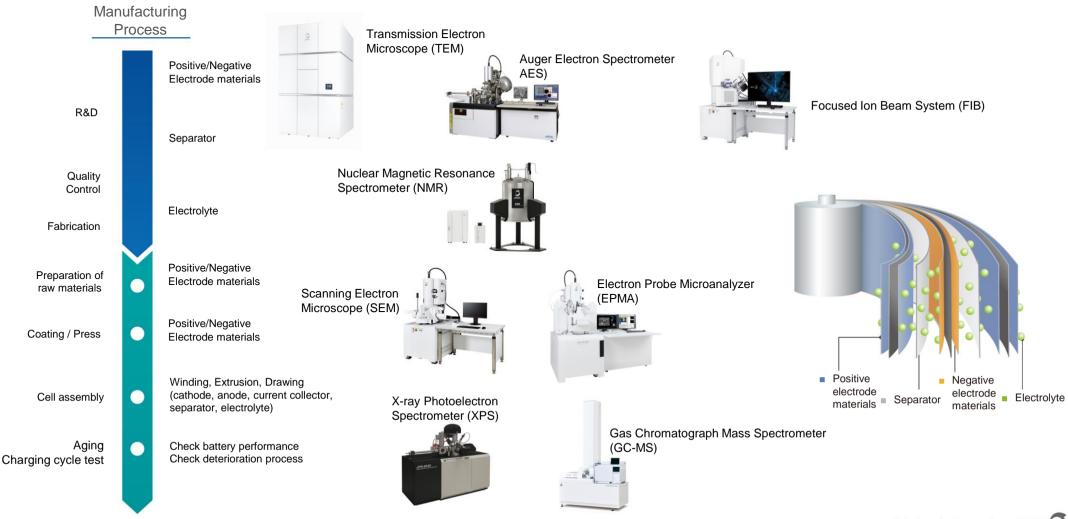
- Provides a reliable and high-throughput workflow from sample preparation process using Focused Ion Beam System (FIB) to observation with Transmission Electron Microscopy (TEM)
- Received a package order for JEM-ACE200F and JIB-PS500i from a Semi-related (Semiconductor) company





►YOKOGUSHI Solutions for Next-generation Battery

- Battery materials require sample preparation, observation, and analysis under air-isolated condition to avoid material alteration
- JEOL provides a wide range of analytical instruments with YOKOGUSHI solutions for evaluation and inspection in each process from R&D to manufacturing
- Received a package order for multiple sets of SEM for quality control purpose from a EV battery company in US



XtaLAB Synergy-ED Official Website Launched

(Launched in August 2023)

- Launched the official XtaLAB Synergy-ED website (https://www.synergy-ed.com/) to promote the product and disseminate useful information for customers' research and development
- XtaLAB Synergy-ED is an electron diffractometer jointly developed by Rigaku and JEOL
 By integrating the flow from selection of measurement samples (nanocrystals) to data collection and analysis, electron diffraction structure analysis can be easily done without any special skills in electron microscopy and crystallography
- The website features solutions and application notes of XtaLAB Synergy-ED as well as a gallery of analysis data from a variety of fields, including pharmaceuticals and new materials

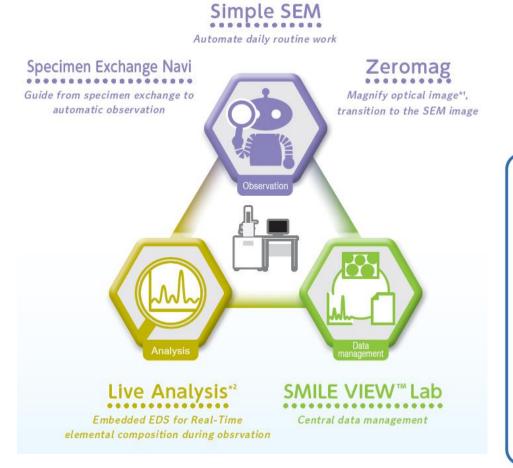


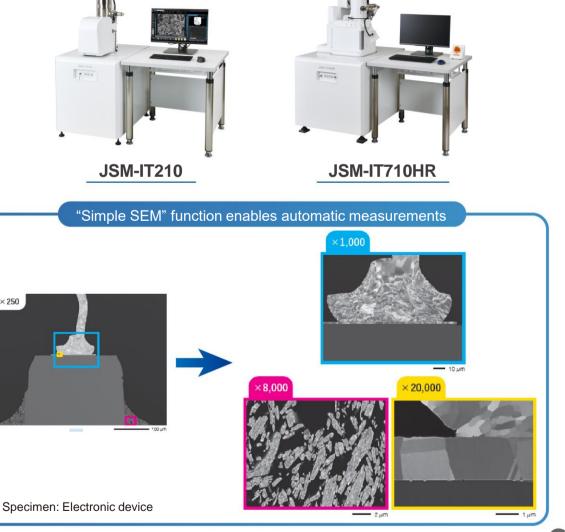
New SEMs (JSM-IT710HR/JSM-IT210) make it easy to acquire data for a wide range of purposes from basic research to quality assurance on a wide rage of application including metals, semiconductors, batteries, polymers, and life science

These new-generation SEMs incorporate the next level of intelligent technology and automation for ease of operation

× 250

and fast, high-resolution imaging and analysis





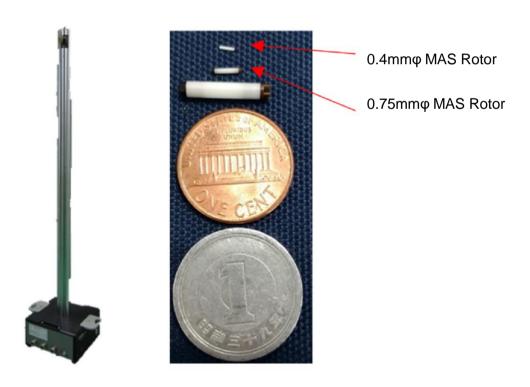
Solid-state NMR Probe with the World's Fastest Sample Rotation

(Released in July 2023)

MAS / kHz

180.3

- A joint research group of RIKEN Center for Biosystems Dynamics, School of Department of Life Science and Technology of the Tokyo Institute of Technology, and JEOL has developed a detector (probe) capable of ultra-fast magic-angle rotation (MAS) at a rotation speed of 180 kHz, the fastest in the world, for solid-state nuclear magnetic resonance (NMR)
- As shown in the lower right figure, a significant improvement in sensitivity and resolution in proportion to the rotation speed has been confirmed. Since the measurement speed is proportional to the square of the sensitivity, a measurement at 180 kHz can be made in a guarter of the time required at 100 kHz.
- The result of this research is expected to help advanced highly sensitive detection of ultra-trace amounts of biological samples and nano-materials, and analysis of trace amounts of amyloid-β peptide derived from the brain, which is involved in Alzheimer's disease



DEPTH with WALTZ16 dec on 13C, 15N

140.1

100.3

60.3

40

24

12 10 8 6 4 2 0 -2

1H (ppm)

MAS rate dependence of

¹H Ala spectra

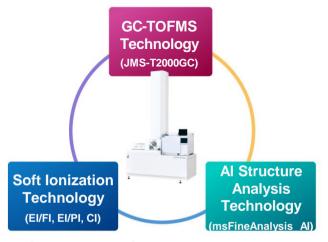
Newly developed probe (left) and MAS rotor (sample tube) with a diameter of 0.4 mm (right)

MS (Mass Spectrometer): "msFineAnalysis Al" Unknown Compounds Structure Analysis Solution

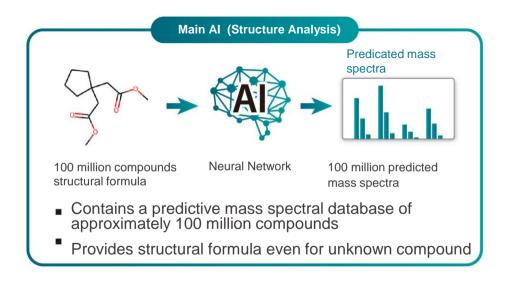
 Increasing inquiries for mass spectrometers (MS), due to "msFineAnalysis AI" that realizes qualitative analysis of unknown compounds

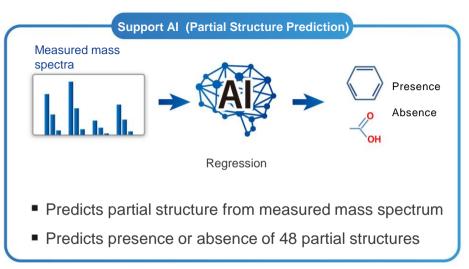
msFineAnalysis Al Solution

- Accurate mass analysis using GC-TOFMS= Composition prediction of observed ion
- Acquisition of molecular formula using soft ionization method
- Database of 100 million compounds using AI technology created



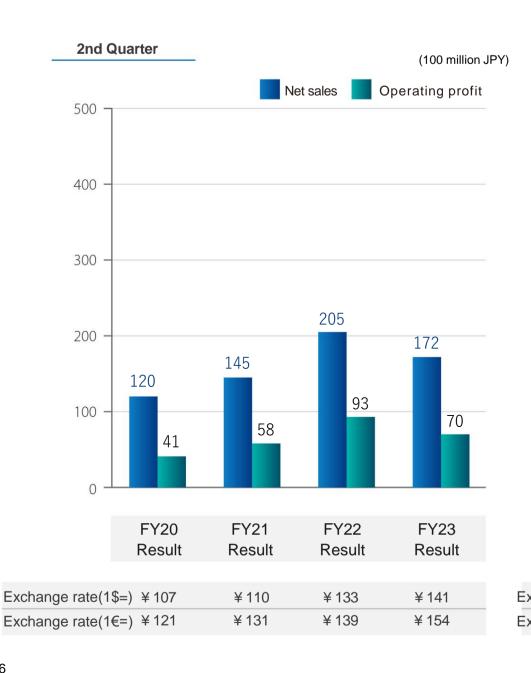
msFineAnalysis AI uses a complementary combination of deep learning and machine learning with different characteristics

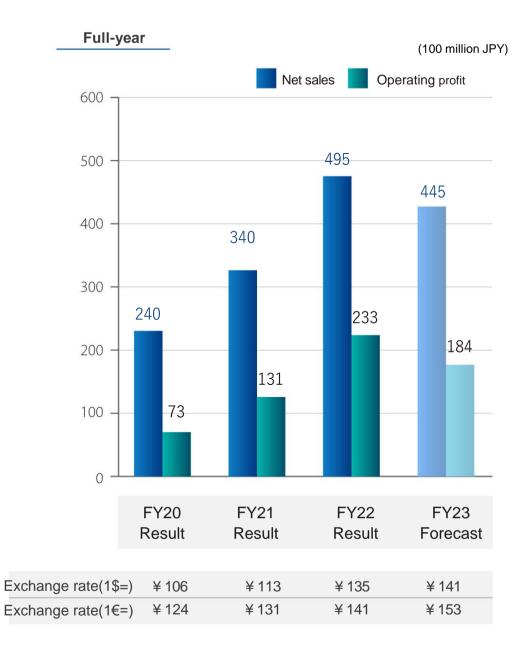




2. Business status of each segment2-2. Industrial Equipment Segment







Acquisition of Shares of IMS NANOFABRICATION

- Acquired 2.5% stake in IMS Nanofabrication Global, LLC, a majority-owned subsidiary of Intel Corporation, further strengthening our relationship in both technology and business as a strategic partner in Multi-Beam Mask Writer (MBMW)
- MBMW is essential in the advanced semiconductor process for the continuation of Moore's Law.



Strong Demand of Single-Beam Mask Writer

- Demand of single-beam mask writer for legacy node is strong, especially in China, due to power semiconductor devices demand.
- Enhancing overseas service structure (installation of training back-up equipment, etc.)



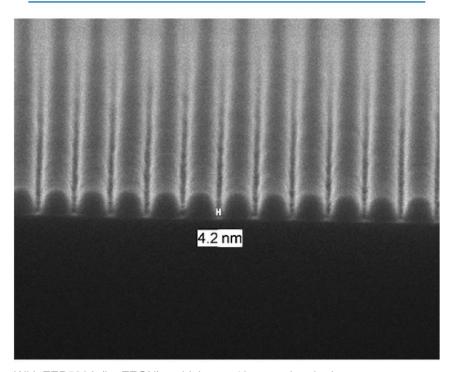
Strong Demand of a Spot Type Electron Beam Lithography system (SB)

- Applications for SBs include R&D for next-generation devices, production of sensors used in anti-collision systems for automotive, and production of DFB (Distributed Feedback) lasers used in communication base stations for 5th and 6th generation mobile communication systems (5G/6G)
- Strong inquiries and orders due to active investments in semiconductor research by governments around the world



JBX-8100FS Electron Beam Lithography System

Cross section image of a minimum width line (×200 k)



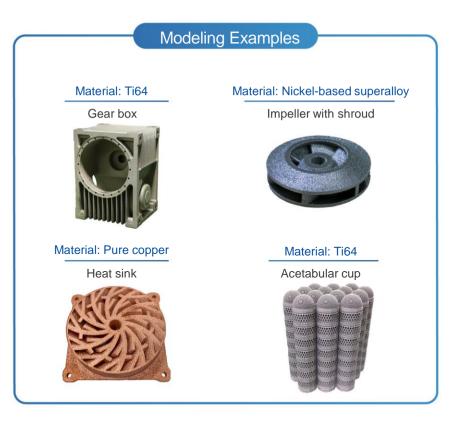
With ZEP520A (by ZEON) at thickness 40 nm, using the low-temperature effect, a line width of 4.2 nm can be achieved.

Next Generation Industrial Electron Beam Metal 3D printer (AM machine)

- JAM-5200EBM Electron Beam Metal AM Machine (3D Printer) has been installed at Cumberland Additive Inc. (CAI) located at 'Neighborhood 91,' an end-to-end AM (Additive Manufacturing) production campus at Pittsburgh International Airport in Pennsylvania, USA
 - Starting sales activities of 3D printers in the US through a partnership with CAI
- Plan to deliver a tool to a partner in Europe by the end of FY2023

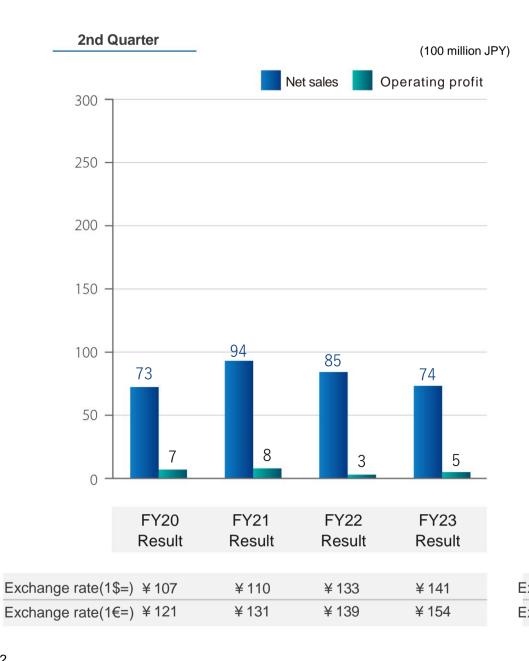


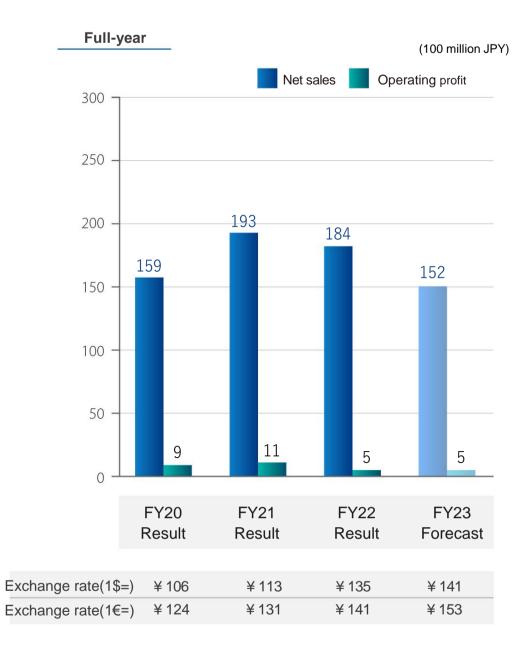
In front of JAM-5200EBM at Cumberland Additive (October 4, 2023)
From left, Mr. Shiota (Corporate Officer, JEOL), Mr. Tazawa (Director & Senior Executive Officer, JEOL), Dr. Dawne Hickton (Chair and CEO, CAI), and Mr. Bob Pohorenec (President, JEOL USA Inc.)



2. Business status of each segment2-3. Medical Equipment Segment

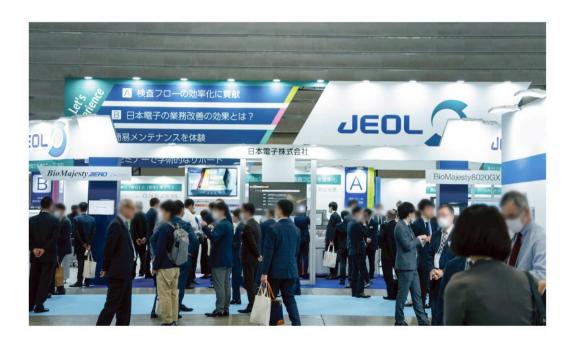






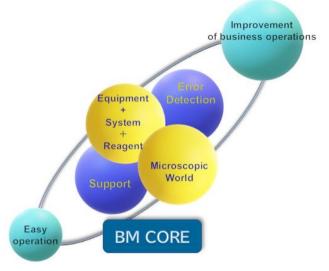
Exhibited at "JACLaS EXPO 2023"

- Attended JACLaS EXPO 2023 in Yokohama Japan from October 6 to 8, 2023
- Attendance : 11,000 (8,365 in 2022)
- The booth concept is "Touch! Find! to experience the BM CORE (JEOL's strengths) that only JEOL can realize"









3. Summary





Becoming a top niche company supporting science and technology around the world

Company Philosophy

On the basis of "Creativity" and "Research and Development", JEOL positively challenges the world's highest technology, thus forever contributing to the progress in both Science and Human Society through its products.

Vision "Evolving in the 70th Year"

Accelerate business expansion and achieve even higher profitability based on our unique technologies and human networks which have been developed since the company's founding.

►YOKOGUSHI → Promote Innovation by co-creation

Mid-Term Management Plan "Evolving Growth Plan"

We aim to improve customer satisfaction by enhancing our R&D, manufacturing, and service capabilities.

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