

Financial Information

HORIBA, Ltd.

February, 2023

- 2022 Results
- 2023 Forecast
- Outlines by Business Segment
- Topics Various activities for target markets
- Shareholder Return
- Financial Data
- Corporate Profile

2022 Results

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Review of 2022

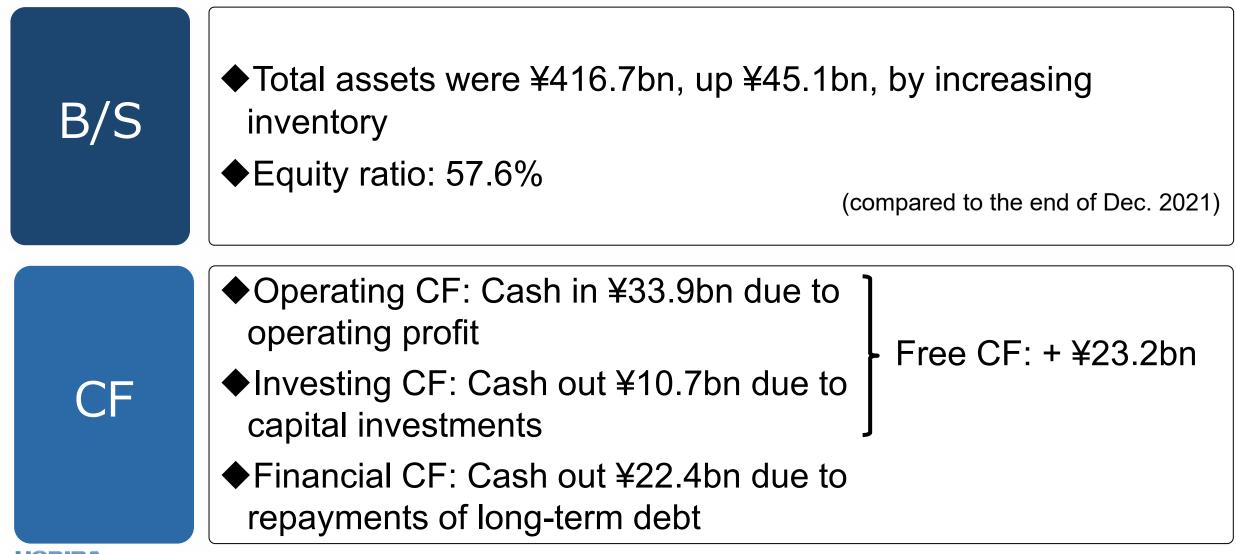
 Accelerated inflation, including a rise in energy prices, in addition to glob procurement difficulties Progress in global structural reform of the semiconductor industry from the economic security perspective Growing interest in hydrogen energy, ammonia, and synthetic fuels Further heightened interest in life science 	e
 Accelerated cross-segment activities in three focused fields Business expansion in new markets related to hydrogen energy and life science Expanding applications of process measurement and control in industry Strengthened procurement capabilities through global cooperation within HORIBA Group 	the

	2021	20	22			
	Results	Forecasts (as of Nov. 11)		Results	vs 2021	vs Forecasts (as of Nov. 11)
Sales	224.3	265.0	*	270.1	+45.8	+5.1
Operating profit	32.0	43.0	*	45.8	+13.7	+2.8
O.P.%	14.3%	16.2%		17.0%	+2.7p	+0.8p
Ordinary profit	32.0	43.5	*	46.8	+14.8	+3.3
Net income attributable to owners of parent	21.3	30.0	*	34.0	+12.7	+4.0
USD/JPY	109.90	133.00		131.62	+21.72	-1.38
EUR/JPY	129.91	138.00		138.14	+8.23	+0.14

			Sales				Ope	erating pro	ofit	
	2021		2022			2021		2022		
	Results	Forecasts (as of Nov. 11)	Results	vs 2021	VS Forecasts (as of Nov. 11)	Results	Forecasts (as of Nov. 11)	Results	vs 2021	VS Forecasts (as of Nov. 11)
Auto	61.2	66.0	67.5	+6.2	+1.5	-0.0	-1.5	-0.6	-0.6	+0.8
P&E	20.2	23.5	* 22.5	+2.3	-0.9	1.9	2.0	2.1	+0.1	+0.1
Medical	25.8	28.5	* 29.7	+3.8	+1.2	0.1	0.5	-0.0	-0.2	-0.5
Semi	87.0	112.0	* 114.0	+27.0	+2.0	28.0	39.5	* 42.0	+13.9	+2.5
Scientific	29.9	35.0	* 36.2	+6.2	+1.2	1.9	2.5	* 2.5	+0.5	+0.0
Total	224.3	265.0	* 270.1	+45.8	+5.1	32.0	43.0	* 45.8	+13.7	+2.8

★ : Record-high

2022 Results (B/S, CF)



2022 Results

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HORIBA's Assumptions Regarding Market Environment

General	Expect a recovery in economic activities in the "with or post-COVID-19" era.
	Remain concerned about the impact of global inflation and the complicated international situation.
	Anticipate accelerated use of hydrogen energy/batteries and digitalization of vehicle.
Automotive	Expect a recovery of demand for R&D investment related to internal combustion engines in preparation for the introduction of new emission gas regulations in Europe.
Process &	Expect business expansion in the new energy market in response to the decarbonization trend.
Environmental	Environmental regulation-driven demand remains strong; the needs for air and water quality measurement is growing in the semiconductor industry.
Madiaal	Expect strong sales of medical instrument in Japan and growing markets.
Medical	Sales of instruments will lead while recovery in sales of regent may take some more time.
	Capital investment by semiconductor manufacturers is likely to enter an adjustment phase.
Semiconductor	Anticipate mid-term growth in the semiconductor market and expansion in measurement demand.
Scientific	Demand is strong for measurement and analysis equipment for development and manufacturing processes in various markets.
	Anticipate an increase in demand in the life science market.

	2021	2022	20	23
	Results	Results	Forecasts	vs 2022
Sales	224.3	270.1	* 290.0	+19.8
Operating Profit	32.0	45.8	* 46.0	+0.1
O.P.%	14.3%	17.0%	15.9%	-1.1p
Ordinary Profit	32.0	46.8	45.5	-1.3
Net Income attributable to Owners of Parent	21.3	34.0	* 35.5	+1.4
Net profit per share (Yen)	505	807	840	+33
ROE	11.2%	15.4%	14.1%	-1.3p

2023 Forecasts by Segment

(Billions of Yen)

	Sales			Operating profit		
	2022	2023		2022	2023	
	Results	Forecasts	vs 2022	Results	Forecasts	vs 2022
Auto	67.5	79.0	+11.4	-0.6	0.5	+1.1
P&E	22.5	* 25.0	+2.4	2.1	2.5	+0.3
Medical	29.7	* 31.0	+1.2	-0.0	0.5	+0.5
Semi	114.0	* 115.0	+0.9	42.0	38.5	-3.5
Scientific	36.2	* 40.0	+3.7	2.5	* 4.0	+1.4
Total	270.1	* 290.0	+19.8	45.8	* 46.0	+0.1

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Automotive

2022 Results and 2023 Forecasts

2022 Results

*1 Mechatronics *2 Engineering Consultancy & Testing

- Booking was strong, but the timing of shipments and acceptance inspections was delayed due to procurement difficulties.
 [MCT^{*1} and ECT^{*2}]
- Sales increased by capturing demand for vehicle electrification and hydrogen energy.
- Expenses also increased owing to rising materials prices, in addition to increased investment in growth fields such as hydrogen energy and batteries.

2023 Full Year Forecasts

Medium- to long-term outlook

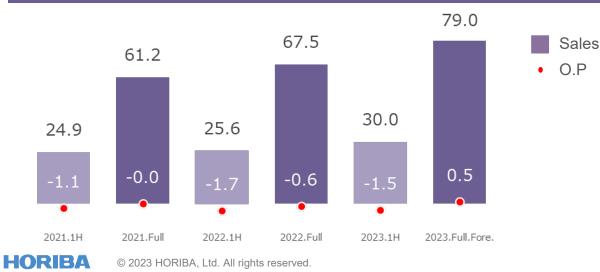
*Announced in November 2022

[EMS]

Increase in demand in anticipation of the introduction of new emission gas regulations* in Europe. [MCT and ECT]

- Expect sales expansion in the field of next-generation mobility development.
- Expect an increase in sales for the hydrogen energy industry due to steady booking of the related products.
- Aim to improve profitability by shifting to higher-value-added products in the MCT business.







2022 Results and 2023 Forecasts

Sales

(Billions of yen)

2022 Results

[Water quality monitoring]

Steady demand for water quality measurement equipment used in the manufacturing processes in the electronics industry and in compliance with environmental regulations.

[Gas monitoring]

- Sales increased in Asia due to demand related to environmental regulations.
- Solid measurement-related demand at existing power plants.

2023 Full Year Forecasts

Medium- to long-term outlook

*1 Total Organic Carbon *2 Carbon dioxide Capture, Utilization and Storage

Expect an increase in demand for process measurement in the industrial field in addition to environmental regulations.

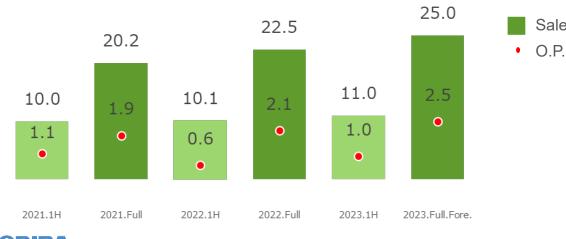
[Water quality monitoring]

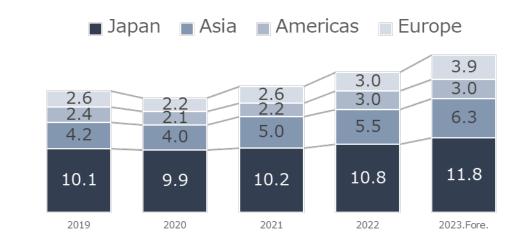
Capture demand for new products such as TOC analyzers^{*1} and regulation-related demand.

[Gas monitoring]

- Expect an increase in demand for gas measurement in the electronics industry.
- Expect an increase in demand for new energy and CCUS^{*2}-related demand.

Sales and O.P. (Half Year/Full Year)





Medical-Diagnosis

2022 Results and 2023 Forecasts

(Billions of yen)

2022 Results

 Sales of test reagents remained sluggish due to the lingering impact of COVID-19.

[Japan/Asia]

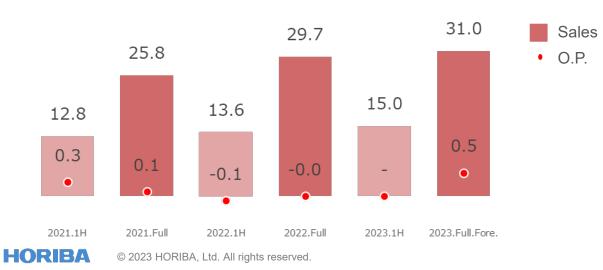
Increased sales of hematology analyzers mainly due to the launch of new products.

[Americas]

Increased sales of clinical chemistry analyzers and reagents.

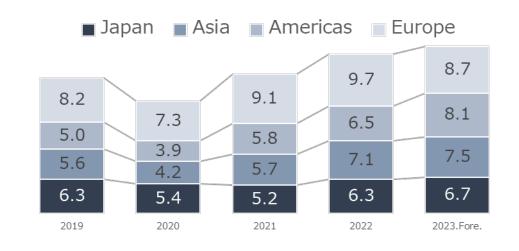
Investment also increased with the aim to expand business in the clinical chemistry field.

Sales and O.P. (Half Year/Full Year)



2023 Full Year Forecasts Medium- to long-term outlook

- Expect a recovery in test reagent sales in the future, as equipment sales are preceding in Japan and growth markets.
- Aim for further business expansion in the fields of immunology and clinical chemistry other than the hematology field.



2022 Results and 2023 Forecasts

Sales

O.P.

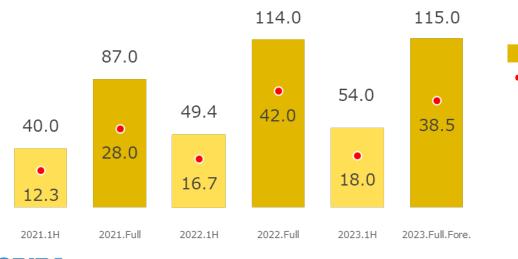
2022 Results

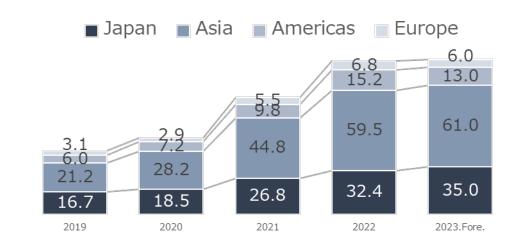
- Semiconductor manufacturers further boosted capital investment. Significant increase in sales to semiconductor production equipment manufacturers.
- Expanded business in China and India. Demand for mass flow controllers for production of photovoltaic panels and artificial diamond increased.

2023 Full Year Forecasts Medium- to long-term outlook

- Capital investment by semiconductor manufacturers will be in an adjustment phase through the first half of 2023.
- Demand is expected to expand in the second half as the market recovers.
- In addition to existing main products, aim to expand business fields by utilizing various sensing technologies.

Sales and O.P. (Half Year/Full Year)





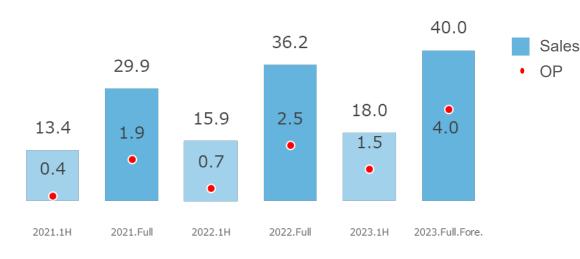
Scientific 2022 Results and 2023 Forecasts

(Billions of yen)

2022 Results

- Strong demand for and increased sales of optical components for semiconductor production equipment manufacturers.
- Increased sales of Raman Spectrometers, Particle-size distribution analyzers, X-ray fluorescence analyzers and other devices for the markets related to advanced materials and life science.

Sales and O.P. (Half Year/Full Year)



2023 Full Year Forecasts Medium- to long-term outlook

- Expand the industrial process monitoring business in parallel with sales expansion of cutting-edge R&D products.
 - Expect an increase in demand for products specialized for industrial processes of the life science field (i.e., pharmaceuticals) and the semiconductor market.
- Expect to reap the benefits from products that have been introduced to the market.



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Various activities for target markets - final year of MLMAP2023

Mid-Long Term Management Plan "MLMAP2023	Mid-Long	erm Management Pla	n "MLMAP2023"
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Market Oriented Business

To develop analysis and measurement solutions, utilizing HORIBA's core technologies, in the leading three business fields of the mega trend

Energy & Environment	Energy & Environment Bio & Healthcare					
Automotive Medical-Diagnostic Semiconductor						
Environment	Semiconductor					
Process						
Scientific						

Solution Provider Beyond "Life Cycle Management"

To support customers' core businesses from all aspects – from product introduction to replacement

Three conceptService Lifecycle ManagementMobility Solutionin Automotive business- Conventional Energy -Business	Alternative Energy Conversion
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[Energy & Environment] Hydrogen Business

The entire HORIBA Group is involved in expansion of hydrogen business

Started mass production of water electrolyzers that produce hydrogen, in Europe

The Evaluator series is comprised of electrolyzer development evaluation systems and production inspection systems.

The HORIBA Group responds to growing needs

Left: HORIBA



Hydrogen/fuel cell joint venture between Michelin and Faurecia

- Booked evaluation equipment orders for fuel cells from SYMBIO.
- At their giga factory commencement ceremony HORIBA was introduced as an indispensable partner for fuel cell production..



- HORIBA France received an order for the project. \checkmark
- Plan to also provide electrolyzer evaluation systems of HORIBA \checkmark FuelCon (Germany) and scientific products of other HORIBA Group companies.

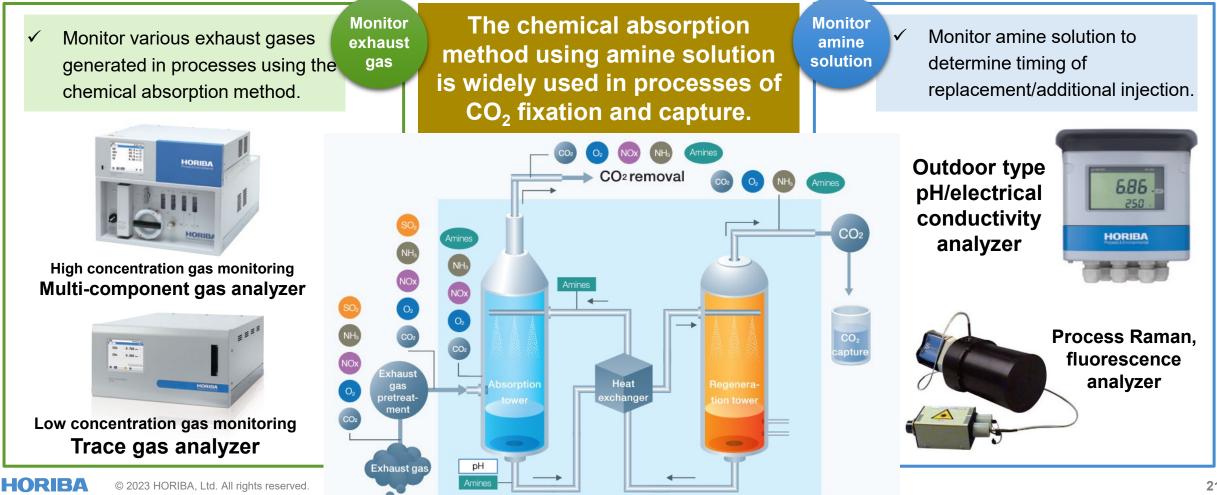
HORIBA

SYMBIO

[Energy & Environment] CO₂ Fixation and Capture

Contributing to the realization of a carbon neutral society

Carbon recycling technology (fixation and capture)



[Energy & Environment] Mobility Solution Business #1

Providing a range of R&D solutions in the new automotive field

HORIBA MIRA, with close partnerships with automotive manufacturers worldwide, supports their development efforts

Customers of HORIBA MIRA	Engineering	Certification and standard testing	Local specification testing	Benchmark testing	Location
UK-based automotive companies	\checkmark	\checkmark			\checkmark
Non-UK-based automotive companies	\checkmark	\checkmark	\checkmark	\checkmark	
Automotive start-ups	\checkmark	\checkmark		\checkmark	
Automotive suppliers	\checkmark	\checkmark	\checkmark	\checkmark	
Material manufacturers	\checkmark			\checkmark	



- A comprehensive development engineering facility that supports work from design to actual vehicle verification started full operation in 2022.
- Received the "Test Facility of the Year" award from UK's Vehicle Dynamics International magazine in 2022.

Seamlessly conduct digital simulation and feasibility tests (digital-twin)





[Energy & Environment] Mobility Solution Business #2

As a partner, developing solutions matched to customers' issues

Real-world simulation system for autonomous driving/ADAS sensor evaluation

- Reproducing rainfall conditions on public roads with a focus on environmental recognition performance in bad weather
- \checkmark Quantitative and efficient evaluation of the performance limits of sensors



 Environment simulator that reproduces five levels of rainfall, from fog to heavy rain*

* Rainfall of 20-100mm/h

 ✓ Equipment to put a test vehicle into an actual driving state to operate ADAS (steerable 4wheel constant velocity bench)

Delivered the products to NTSEL* (of the National Agency for Automobile and Land Transport Technology)

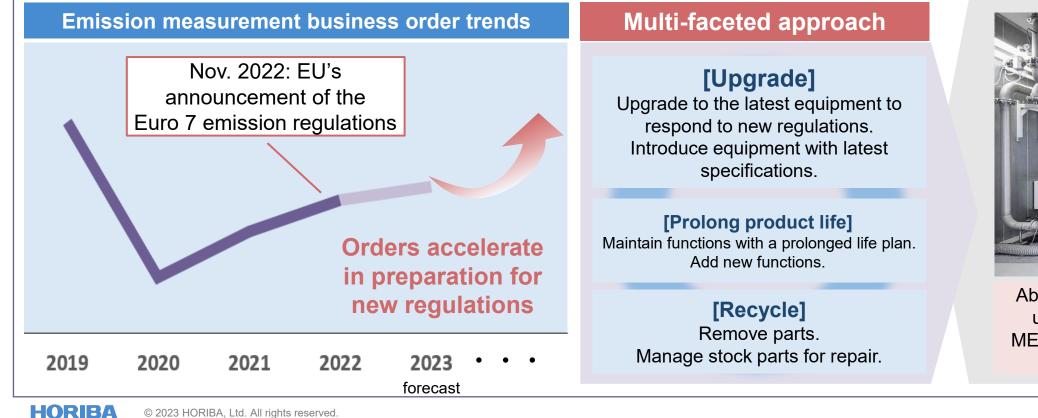
* National Traffic Safety and Environment Laboratory

[Energy & Environment] Conventional Energy

"HORIBA will Never Stop Combustion Measurement"

Ensure the operating rate of automotive development labs

✓ Support customers' utilization of HORIBA's existing emission measurement systems and development work at labs, in response to their demand for new vehicles in the transition period of vehicle electrification.



About 8,000 delivered units of HORIBA's MEXA series are still in active operation.

[Bio & Healthcare] Products for Pharmaceutical Manufacturing Process

Expanding business in the pharmaceutical industry

Provide high-end analyzers and measuring devises such as Raman spectrometers

HORIBA's products enable real-time monitoring and contribute to improving yield rates



Total organic carbon

measurement



Bio reactor (culture tank) Process Raman, fluorescence analyzer

Medium component monitoring



Pharmaceutical business process

Pharma company —R&D—

Contract development and manufacturing organization (CDMO)

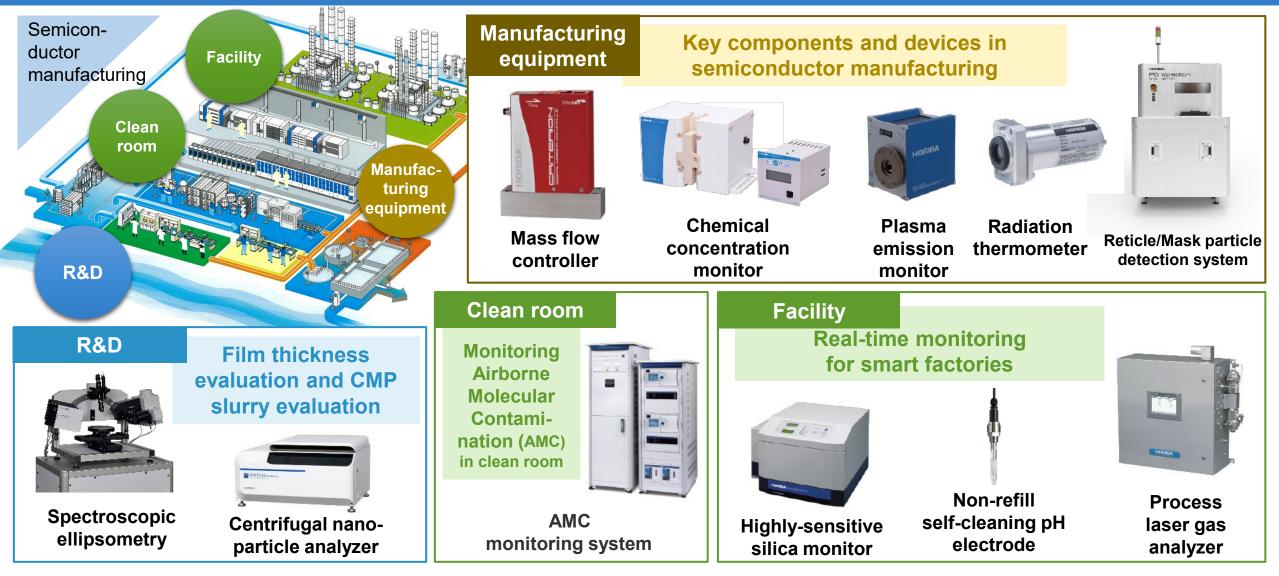
Pharma company —Marketing and sales—

Pharma market



[Materials & Semiconductor] Cross-segment Activities to Expand Opportunities

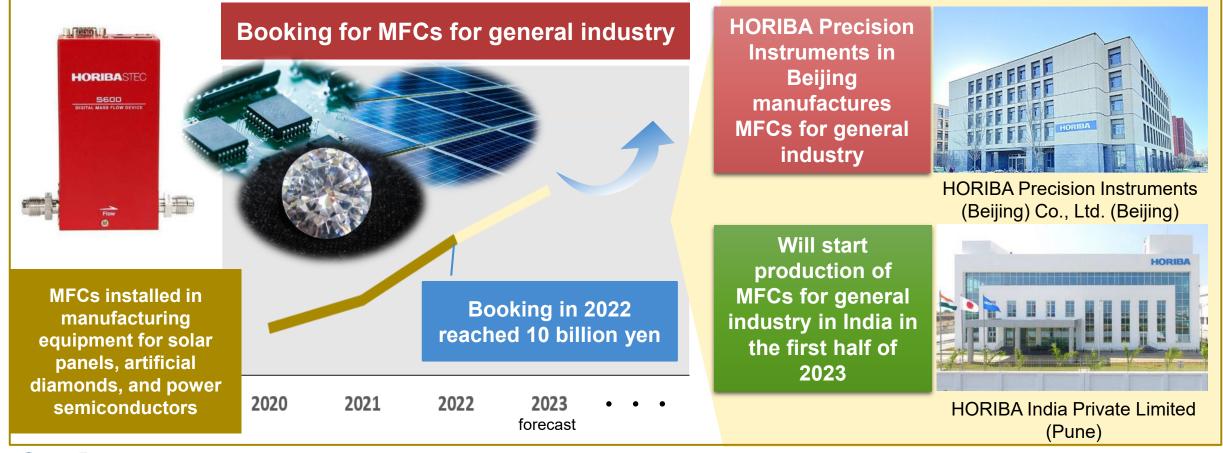
From R&D to manufacturing: Use of HORIBA's analyzers and measuring devises



[Materials & Semiconductors] MFC in Various Fields

Mass flow controllers (MFC) contributing to the production of solar panels and artificial diamonds

Expand booking for MFCs for general industry, mainly in China and India



Full-scale operation of HORIBA C-CUBE, a new base in China

A new base to meet the needs of the Chinese market

- A new base in China where operations of all HORIBA's segments have been brought together
- HORIBA's largest base engaged in integrated operations from development and production to after-sales services

厚立方 HORIBA C-CUBE

発音 (Pin Yin): Hou Li Fang







HORIBA INSTRUMENTS

(SHANGHAI) CO., LTD.

Location: Jiading District, Shanghai Headcount: 144 (Dec. 2022) Construction cost: 9 billion yen (in total)

Located in the key area for new energy vehicle development in China's largest automobile industry district

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Sale of part of MIRA UGV's shares

- HORIBA MIRA Limited (MIRA), sold part of the shares of MIRA UGV Limited (UGV) owned by MIRA to Iveco Defence Vehicles S.p.A. (Italy) (IDV).
 - For nearly 30 years, MIRA has provided Unmanned Ground Vehicle development engineering services for the defense industry
 - Transfer part of the shares of UGV to IDV, in order to concentrate on field of consumer vehicles such as passenger cars and heavy-duty vehicles
 - ✓ Approximately 6,200 million yen of impact on profit and loss related to the share transfer, and the transferred amount is expected to be recorded as an extraordinary gain for the first quarter of FY2023.

Future developments

- IDV concluded a contract with MIRA for tenant lease agreement of MIRA Technology Park and the longterm engineering contract
- MIRA will provide engineering services and jointly develop technologies with IDV



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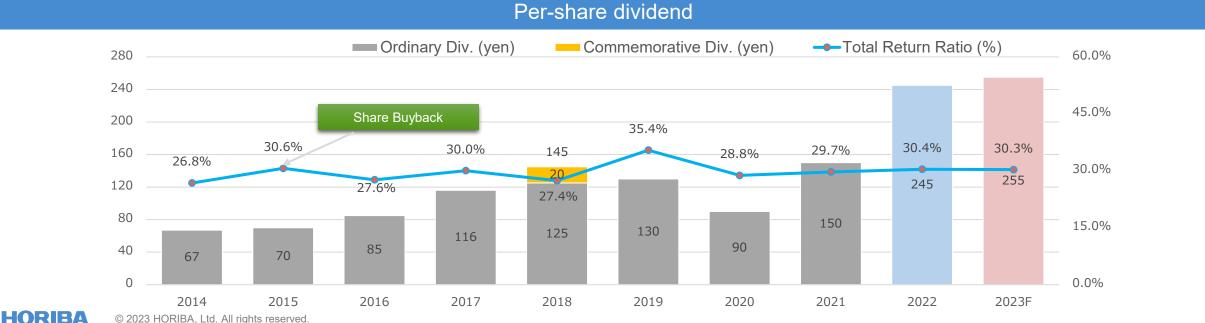
Shareholder Return

Basic policy

Dividend payment + Share buyback = 30% of Consolidated net profit to be targeted Remaining earnings are retained internally for strategic investment (i.e. facilities, M&A)

Dividends per share and Share buybacks

- 2021 Results 150yen [Interim 50yen/Year-end 100yen]
- 2022 Results 245yen [Interim 65yen/Year-end 180yen]
- 2023 Forecast 255yen [Interim 80yen/Year-end 175yen]



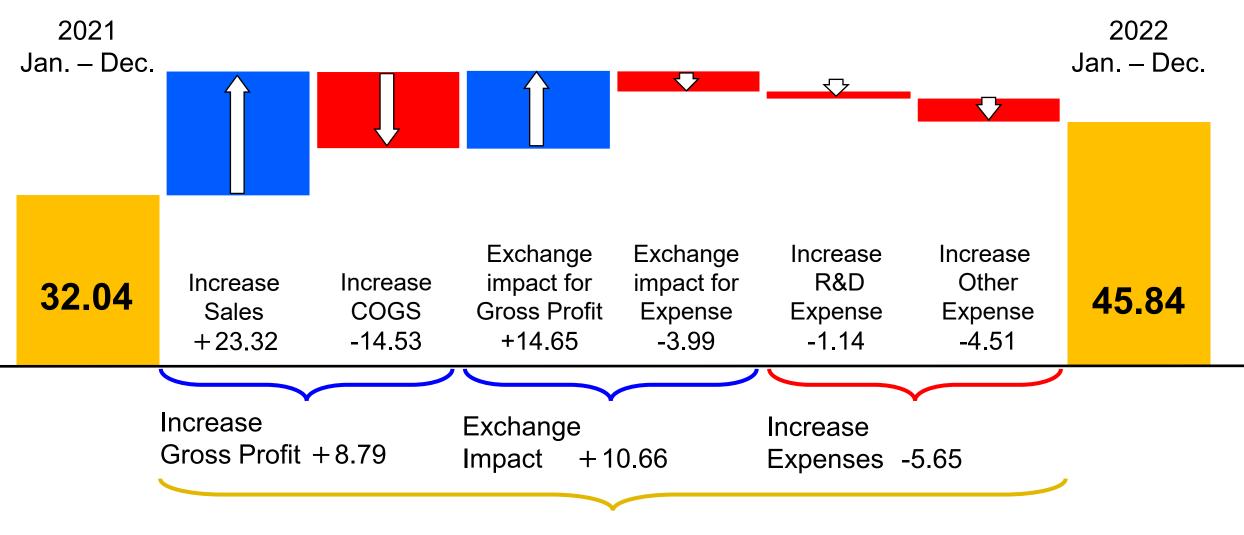
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Operating Profit Analysis (vs 2021)

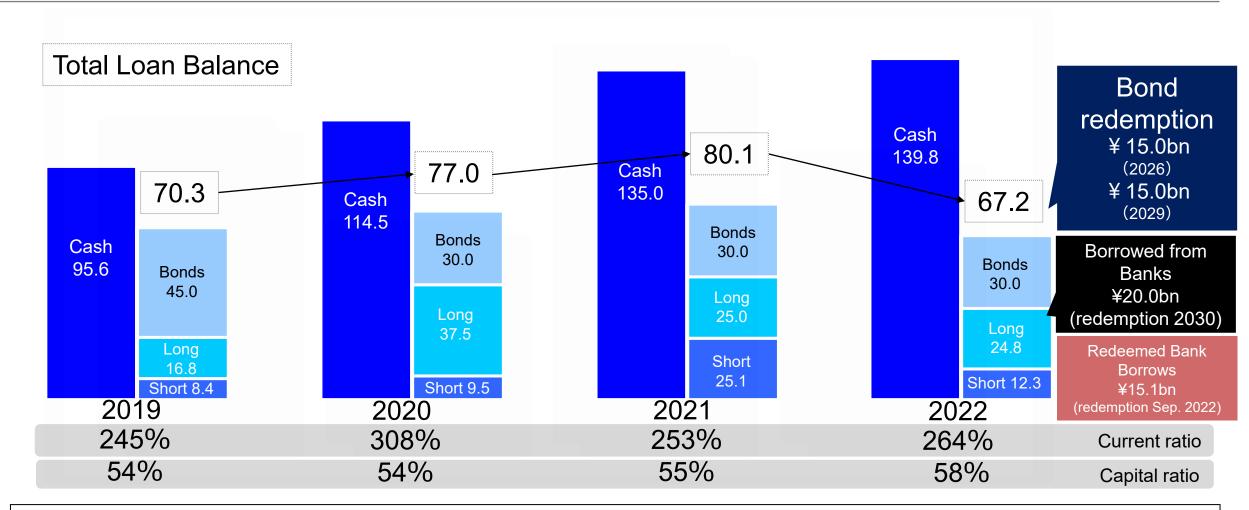
(Billions of yen)



Increase Operating Profit +13.79

	2022	2021	Variation
Cash flows from operating activities	+33.9	+35.2	-1.3
Cash flows from investing activities	-10.7	-14.6	+3.9
Cash flows from financing activities	-22.4	-4.0	-18.4
Cash and cash equivalents at end of year	138.7	133.9	+4.8
Free cash flows	+23.2	+20.6	+2.6

Cash Balance



•Recent issuer rating: R&I "A" (Sep. 2022), JCR "A+" (Sep. 2022)

Exchange Rate Trend / Forecasts / Impacts

	2021	2022	20	23
	Annual	Annual	Forecasts	vs 2022 (Annual)
USD	109.90	131.62	130	-1.62
EUR	129.91	138.14	140	+1.86

Exchange rate impact for 2022 (vs 2021)

Increase sales	+22.49
Increase cost of goods sales	-7.83
Impact to gross profit	+14.65
Increase expenses	-3.99
Impact to operating profit	+10.66

Exchange rate impact for 2023 Forecasts 1 yen impact of Sales and O.P.

(weak yell)				
	Sales	Operating profit		
USD	+0.78	+0.43		
EUR	+0.38	+0.01		

Capital Investment, Depreciation, R&D

	2021	2022			2023		
	Actual	Previous Forecasts (as of Nov. 11)	Actual	vs 2021	vs Previous Forecasts	Forecasts	vs 2022
Capex	12.4	13.5	12.5	+0.0	-0.9	14.0	+1.4
Depreciation and amortization	10.4	11.0	11.3	+0.9	+0.3	12.0	+0.6
R&D expenses	16.7	19.0	18.5	+1.8	-0.4	22.0	+3.4
to net sales(%)	7.4%	7.2%	6.9%	-	-	7.6%	-

PP&E:

2023 investment in semi and automotive-related facilities, enhancement of global bases Topics

Consider urgency and priority and make investment decisions

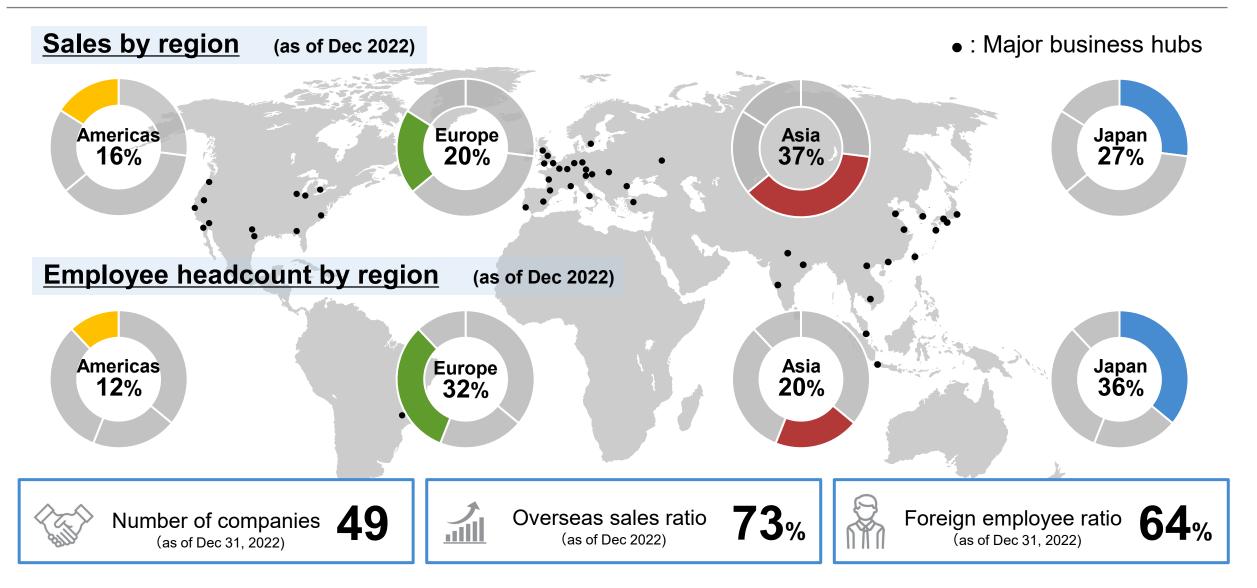
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Five Business Segments & Major Products

Figures are the sales composition ratio for FY 2022

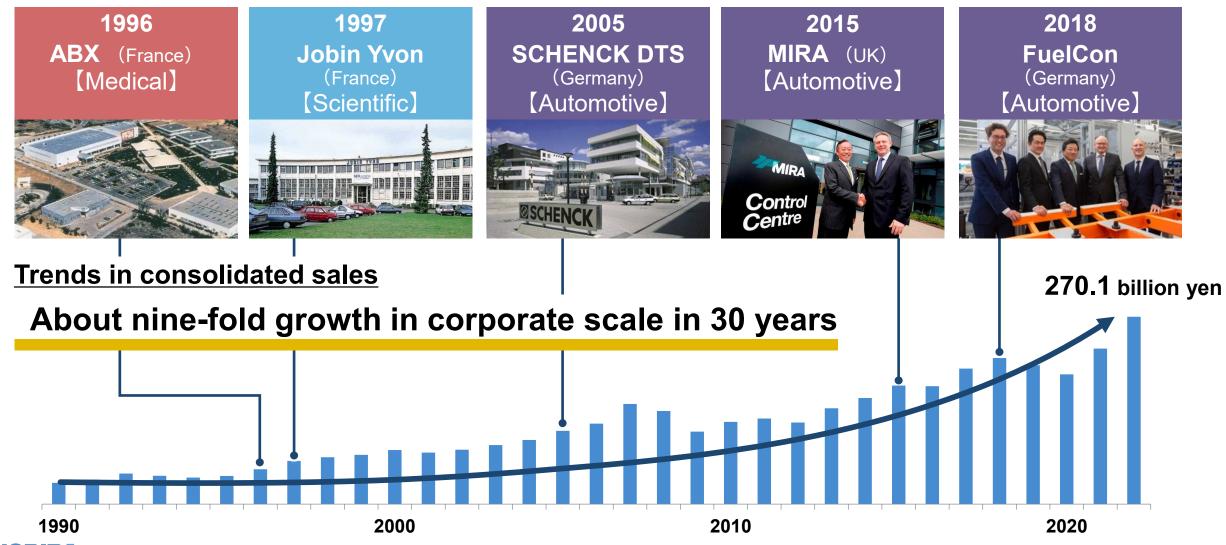
Automotive (25%)	Process & Environmental (8%)	Medical (11%)	Semiconductor (42%)	Scientific (14%)
Emission Measurement Systems	Stack Gas Analyzers	Automatic Blood Cell Counters plus CRP	Mass Flow Controllers	Raman Imaging Device
			A CITA AND	

Global Network



Achieving Sustainable Growth through M&A

Major M&As



HORIBA's Business Domain

