

Financial Information

HORIBA, Ltd.

November, 2021

- 2021 3Q (Jan.- Sep.) Results
- 2021 Forecast
- Topics HORIBA's Contribution for Social Issues
- Shareholder Return
- Financial Data
- Corporate Profile

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2021 3Q (Jan.-Sep.) Results

Increased in sales and profits mainly due to an increase in sales of the Semiconductor segment

	2020	2021	vs 202	20
★: Record-high	9 Months Results (JanSep.)	9 Months Results (JanSep.)	Changes	%
Sales	129.7	* 153.9	+24.1	+19%
Operating Profit	10.9	* 19.8	+8.8	+81%
O.P.%	8.5%	12.9%	+4.4p	-
Ordinary Profit	10.7	\star 19.8	+9.0	+84%
Net Income attributable to Owners of Parent	7.5	★ 13.7	+6.1	+82%
USD/JPY	107.55	108.58	+1.03	
EUR/JPY	120.93	129.87	+8.94	



2021 3Q (Jan.-Sep.) Results by Segment

(Billions of yen)

		Sales				Operating profit			
		2020	2021	vs 2	020	2020	2021	2021 vs 2020	
★: Record-high		9 Months Results (JanSep.)	9 Months Results (JanSep.)	Changes	%	9 Months Results (JanSep.)	9 Months Results (JanSep.)	Changes	%
	Auto	41.6	37.3	-4.3	-10.4%	-0.0	-1.9	-1.8	-
	P&E	12.7	* 14.5	+1.7	+13.8%	0.7	1.2	+0.5	+69.7%
	Medical	15.2	19.1	+3.8	+25.2%	-0.4	0.0	+0.5	-
	Semi	41.7	* 62.6	+20.9	+50.1%	9.8	* 19.7	+9.8	+99.2%
	Scientific	18.3	* 20.2	+1.9	+10.6%	0.8	0.6	-0.1	-18.7%
	Total	129.7	★ 153.9	+24.1	+18.6%	10.9	* 19.8	+8.8	+81.1%

<Auto> Declined in sales of emission measurement systems in Japan and Asia

<P&E> Increased in sales of stack gas analyzers in Asia

<Medical> Increased in sales of hematology analyzers in Americas and other areas

<Semi> Sales to semiconductor production equipment manufacturers increased, in response to expansion of semiconductor manufacturers' capital expenditures

Scientific> Increased in sales of optical components in Americas; meanwhile increased in R&D expense

2021 3Q (Jan.- Sep.) Results

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2021 Forecasts

Earning forecasts for FY2021 remain unchanged considering impacts from difficulties of material procurement

	2020	2021		Char	nges
★: Record-high	Results	Previous Forecasts (as of Aug.10)	Forecasts (as of Nov.11)	vs 2020	vs Previous Forecasts
Sales	187.0	220.0	* 220.0	+32.9	-
Operating Profit	19.6	28.5	28.5	+8.8	-
O.P.%	10.5%	13.0%	13.0%	+2.5p	-
Ordinary Profit	19.3	28.0	28.0	+8.6	-
Net income attributable to Owners of Parent	13.1	18.5	18.5	+5.3	-
USD/JPY	106.76	109.00	109.00	+2.24	-
EUR/JPY	121.88	130.00	130.00	+8.12	-

2021 Forecasts by Segment

(Billions of yen)

		Sales				Operating					
		2020	20	21	Cha	nges	2020	20	21	Chai	nges
*	:Record-high	Results	Previous Forecasts (as of Aug.10)	Forecasts (as of Nov.11)	vs 2020	vs Previous Forecasts	Results	Previous Forecasts (as of Aug.10)	Forecasts (as of Nov.11)	vs 2020	vs Previous Forecasts
	Auto	63.9	64.0	64.0	+0.0	-	2.4	1.0	1.0	-1.4	-
	P&E	18.3	21.0	* 21.0	+2.6	-	1.6	1.5	1.5	-0.1	-
	Medical	21.0	25.0	25.0	+3.9	-	-0.4	0.5	0.5	+0.9	-
	Semi	56.9	81.0	* 81.0	+24.0	-	14.0	24.0	* 24.0	+9.9	-
	Scientific	26.8	29.0	* 29.0	+2.1	-	1.9	1.5	1.5	-0.4	-
	Total	187.0	220.0	* 220.0	+32.9	-	19.6	28.5	28.5	+8.8	-

Earning forecasts by segment for FY2021 also remain unchanged. Material procurement is getting tight in all segments and its impact on business performance is uncertain.

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HORIBA's Contribution to Social Issues

Cross-segmentation in Response to Various Social Issues

1. Market Oriented Business						
	Energy & Environment Bio & Healthcare Materials & Semiconductor					
		Three Fields				
To develop analysis and measurement solutions, utilizing HORIBA's core technologies, in the leading three business fields of the mega trend						
	2. Solution P	rovider Beyond Life Cycle I	Management			
To support customers' core businesses from all aspects – from product introduction to replacement						
	3. HORIBA Core V	alues "The Next Stage of S	uper Dream Team"			

Mid-Long Term Management Plan "MLMAP2023"

Business Expansion in the Energy Field

Acquisition of BeXema, a manufacturer of power supplies in Germany

 BeXema supplies power and electronic load devices used in test equipment for fuel cells and battery testing equipment
BeXema

 HORIBA established the system to provide evaluation and measurement solution technologies for fuel cells, batteries, and water electrolysis

Acquisition of the power electronics technology





BeXema has supplied power supplies to HORIBA FuelCon for some time.

BeXema's chargingdischarging device, converter, and emulator installed in the battery test room of CELL0*

*CELLO: a test room that evaluates and analyzes batteries and fuel cells for electric vehicles. It is established in HORIBA BIWAKO E-HARBOR, Biwako Factory

Company Name:	BeXema GmbH		
Established:	2014		
Sales:	Approx. 250 mln yen (FY2020)		
Workforce:	18		
Contract date:	July 2, 2021		

Leading the Way to a Sustainable Energy Society

Aiming to develop new technologies and create business in the energy field

Launch of HORIBA Institute for Mobility and Connectivity²



- A research institute supported by HORIBA opened in July
 - Undertook a standardization project from a public institution

HORIBA Institute for Mobility and Connectivity² (HIMaC²)



- Conduct research on electrochemistry, renewable energy, energy storage, energy grid, etc.
- Achieve connectivity of electric power and mobility

Promote innovation for next-generation mobility and urban energy networks

Contribution to a hydrogen energy society

Demand growth for hydrogen generators using water electrolysis



HORIBA FuelCon provides equipment that enables to evaluate performance efficiency of water electrolysis cells for hydrogen production; demand is increasing

Evaluator EC/ES

Control the temperature and flow volume of water and evaluate the performance and efficiency of water electrolysis cells up to 5000kW.

JAPAN

HYDROGEN

ASSOCIATION

Contributing to the early construction of a hydrogen-based society with "measurement" technology

 ✓ Joined the Japan Hydrogen Association in March 2021

[Japan Hydrogen Association] Established: December 7, 2020

Purpose: As a cross-industry and open organization with a bird's eye view of the entire supply chain, it will support the early creation of a hydrogen society by carrying out social implementation projects."

Opened a Special Website for Hydrogen Energy

Introducing the energy market trend from HORIBA's point of view and analytical and measurement solutions to achieve carbon neutrality

- Provide analytical and measurement solutions to generate, store, and utilize energy intelligently
 - Material evaluation and performance evaluation of fuel cells and water electrolysis using hydrogen
 - Quality evaluation and measurement of impurities and gases during hydrogen production
 - Analysis and measurement related to carbon recycling technology



HORIBA 🗄 Applications 🗄 Energy and Environment 🗄 Hydrogen Energy

Hydrogen Energy

HORIBA's solutions help our customers optimize their businesses across the hydrogen supply chain. Our unique measurement technologies and analysis solutions provide robust data and insight which lead to innovation breakthroughs and improve operations.

HORIBA's strength comes from a combination of our global reach; our cutting-edge measurement technologies; and our engineering and application knowledge.

Why HORIBA: Measurement Solutions to Reduce Cost and Maximize Efficiency Your Partner in Energy Policy and Regulation

Read more

HORIBA is Tackling Challenges Across Many Industries

Read more

HORIBA Hydrogen Energy



https://www.horiba.com/en_en/applications/energy-and-environment/hydrogen/

Read more

Contributing to Higher Efficiency of Vehicle Testing

Providing total measurement solutions for vehicle development

Launch of VULCAN EVO

- ✓ Sales launch of "VULCAN EVO" chassis dynamometer in Japan
 - Easy maintenance to sharply reduce downtime
 - Evaluation testing for vehicle performance and emissions in compliance with international standards for ICEs, EVs, FCVs, PHEVs, etc.



[International standards: WLTP]

- Worldwide harmonized Light vehicles Test Procedure
- WLTP-based measurement of fuel efficiency and electricity efficiency became mandatory in Japan in April 2020

Full-scale development of STARS SOAK +

- ✓ Measures vehicle conditions and the soak room temperature before emission gas/fuel economy test.
 - Improves test efficiency by preventing human error and ensuring traceability

The status of the vehicle in the soak room can be centrally managed with a tablet terminal.



[Soak Room]

- A room kept at a certain temperature.
- In order to measure the test data accurately, the test vehicle is put in the room in advance

Contributing to reducing the test burden on auto-related manufacturers

Development of New Technology "IRLAM"

Providing new value with the cutting-edge core technology

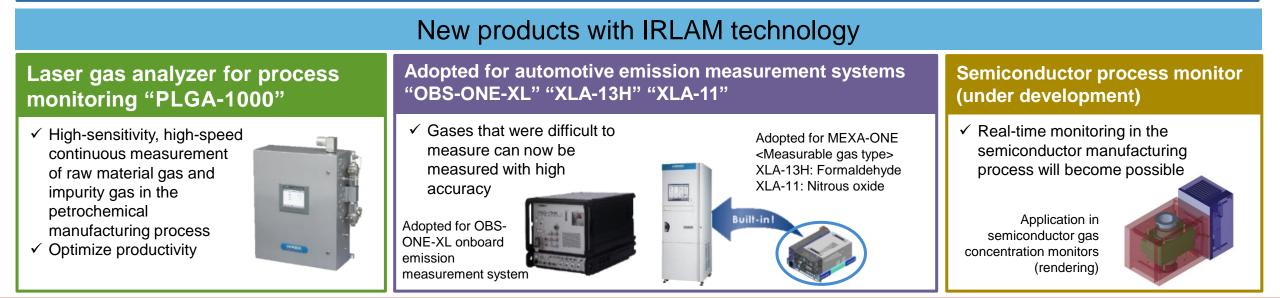
IRLAM: Infrared Laser Absorption Modulation

- ✓ The world's first^{*1} gas concentration calculation algorithm inspired by the concept of data science
- ✓ By downsizing and lengthening the Heliot cell (a container that contains the gas to be measured), high-sensitivity, high-speed measurement is possible
- In-house manufactured quantum cascade laser (QCL) meets needs for a wide range of gas measurement
- *1: HORIBA estimate





In-house developed laser



Contributing to next-generation energy development such as hydrogen, industrial process monitoring, and tightening of environmental regulations

High value-added solutions for semiconductor manufacturing processes

Various applications that contribute to semiconductor manufacturing

Particle detection systems

Optical Smart Sensing - Metrology					
Semicon. manufacturing processes	HORIBA's response				
Reticle/mask	Blank mask inspection				
manufacturing process	Inspection of three surfaces (Pattern, Glass, Pellicle)				
Photolithography/	Pellicle inspection				
wafer process	Various mask sizes/board inspection				
	Representative product				
PR-PD3EP					

High-accuracy detection of foreign substances on EUV-process pellicles

Strengthen the production line in anticipation of an increase in demand

New dissolved oxygen meter



HD-960LR

Highly accurate continuous monitoring of dissolved oxygen in chemicals used in semiconductor manufacturing processes

Expands types of chemicals and contributes to improvement in yields

Centrifugal nanoparticle analyzer



Partica Centrifuge

Measure the size of particles from the sedimentation velocity of particles

Contributes to improving abrasive uniformity in flattening processes (CMP) of semiconductor manufacturing

Business Expansion in the Life Science Field

Expanding applications - from R&D to manufacturing processes

Cooperation with SHIMADZU: LC-Raman System

"Separate" technology to extract measurement targets from mixed samples





with the dedicated software program "LiChRa"

High Performance Liquid Chromatograph (LC)

Spectrometers A complex system that combines SHIMADZU's LC and HORIBA's Raman

"Visible" technology to distinguish differences in molecular structure

Qualitative analysis



Rapid Microorganism Detection System Rapica



- Rapid detection of the presence or absence of microorganisms by the highsensitivity ATP method*
- Automated protocols such as automatic √ reagent introduction
- ✓ Possible to manage the trend of data
- \triangleright Shorter inspection time for raw material arrival and product shipment
- Management of environmental protection and water use
- Investigation at the time of pollution and resumption of production

* Measure the amount of light emitted by combining ATP which exists in the cells of living organisms with enzymes to emit light.

Participation in the HAYABUSA2 Sample Analysis Project



HORIBA's core technology for the future



Development of a container (cell) dedicated to samples of Ryugu to perform advanced sample handling



- Implemented non-destructive, non-contact analysis of elements contained in samples of asteroid Ryugu
- Advanced analytical and measurement equipment and high skills of technicians are required
- HORIBA Techno Service, which specializes in high-precision microanalysis, participates

Analyzing the sample with our X-ray fluorescence



Analytical Solution Plaza has been established to broaden service business



- ✓ A new "place" for exchange analysis
- Providing analytical technology through contracted analysis and joint research by analytical engineers

Results of the analysis to be announced by JAXA in December 2021. Check it up!

2021 Masao Horiba Awards (Award ceremony held on Oct. 19, 2021)

Masao Horiba Awards

Support young researchers and engineers worldwide and contribute to accelerating innovation

Established in 2003 from the thought of the founder, Dr. Masao Horiba; "I would like to encourage researchers who are trying to establish the basics in the field of analysis and measurement and clarify advanced analytical technologies."

[Theme of 2021]

Optical/spectroscopic analysis and measurement technologies for life science

- ✓ Focus on analysis and measurement technologies that contribute to R&D and production of new drugs, including antibody drugs
- ✓ Received record-high 51 entries worldwide and selected three Masao Horiba Award winners and one honorable mention.
- Aim to realize research results and lead to business expansion in the life science field by strengthening relationship with award winners and research institutions.

The award ceremony was held at Techno Plaza in the new office building of HORIBA Techno Service (Oct. 19, 2021)



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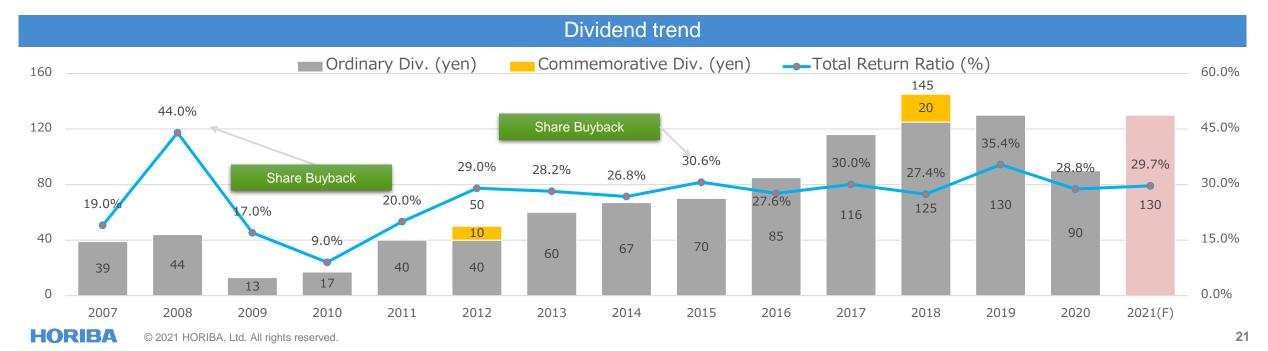
Shareholder Return

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)

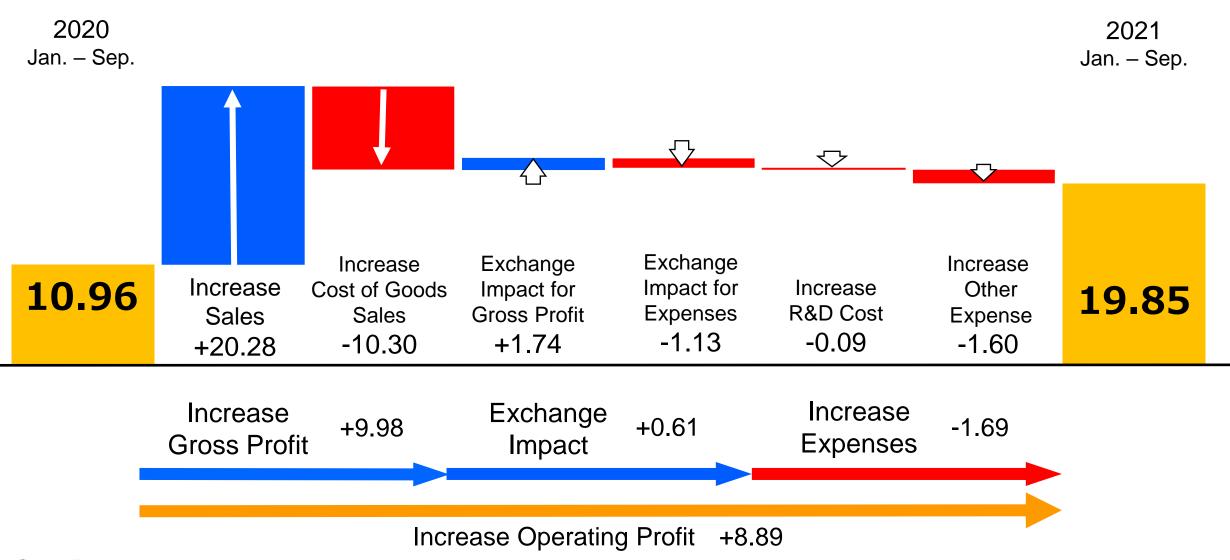
Dividends per share and Share buybacks

- 2019 Results: 130YEN [Interim 50yen / Year-end 80yen]
- 2020 Results: 90YEN [Interim 30yen / Year-end 60yen]
- 2021 Forecast: 130YEN [Interim 50yen / Year-end 80yen]



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Operating Profit Analysis (vs 2020 Jan. – Sep.)



(Billions of Yen)

Impact of Fluctuation in Foreign exchange

<u>Exchange rate impact</u> for 2021 Jan Sep. (vs 2020 Jan Sep.)					
Increase Sales	+3.87				
Increase Cost of Goods Sales	-2.12				
Impact to Gross Profit	+1.74				
Increase Expenses	-1.13				
Impact to Operating Profit	+0.61				

(Yen)	2020 Jan - Sep	2021 Jan - Sep	Diff.
USD	107.55	108.58	+1.03
EUR	120.93	129.87	+8.94

Exchange rate impact for 2021 Forecast 1 yen impact of Sales and O.P. (Yen appreciation)

	Coloc	Operating
	Sales	Profit
USD	-0.55	-0.26
EUR	-0.30	-0.00

(Vop)	2021
(Yen)	Forecast
USD	109.00
EUR	130.00

Capital Investment, Depreciation, R&D

	2020			2021	
	Results	Previous Forecasts (as of Aug.10)	Forecasts (as of Nov.11)	Diff.	Actual Jan Sep.
Capex	15.1	16.5	16.5	-	8.7
Depreciation and amortization	9.6	10.5	10.5	-	7.6
R&D expenses	15.5	17.0	17.0	-	12.0
to net sales(%)	8.3%	7.7%	7.7%	-	7.8%

PP&E:

Continuation: investment to HORIBA FuelCon's new facility, a new facility in China, etc. New: enhance the base of global production

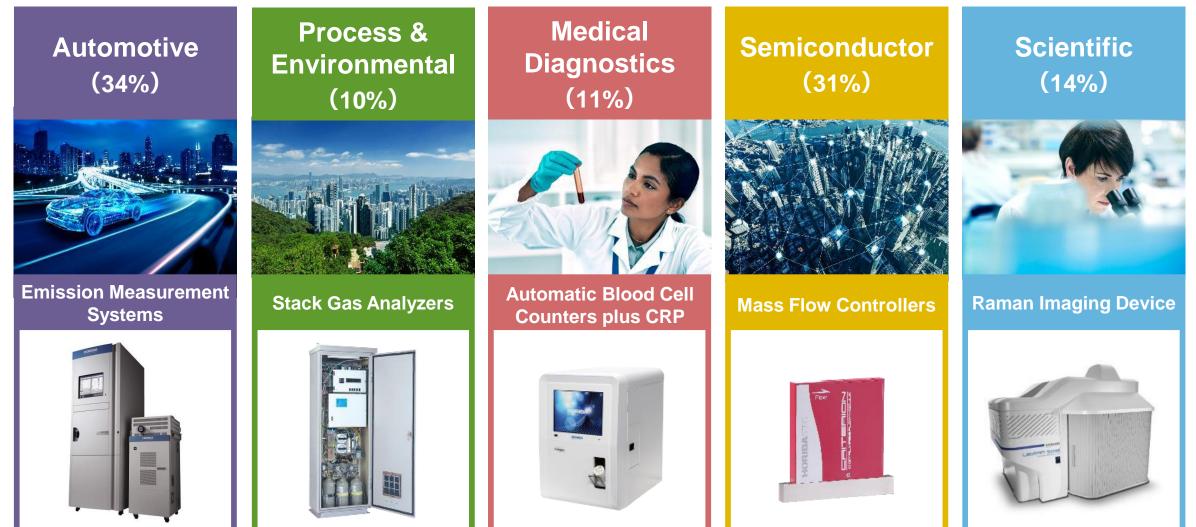
2021

Topics

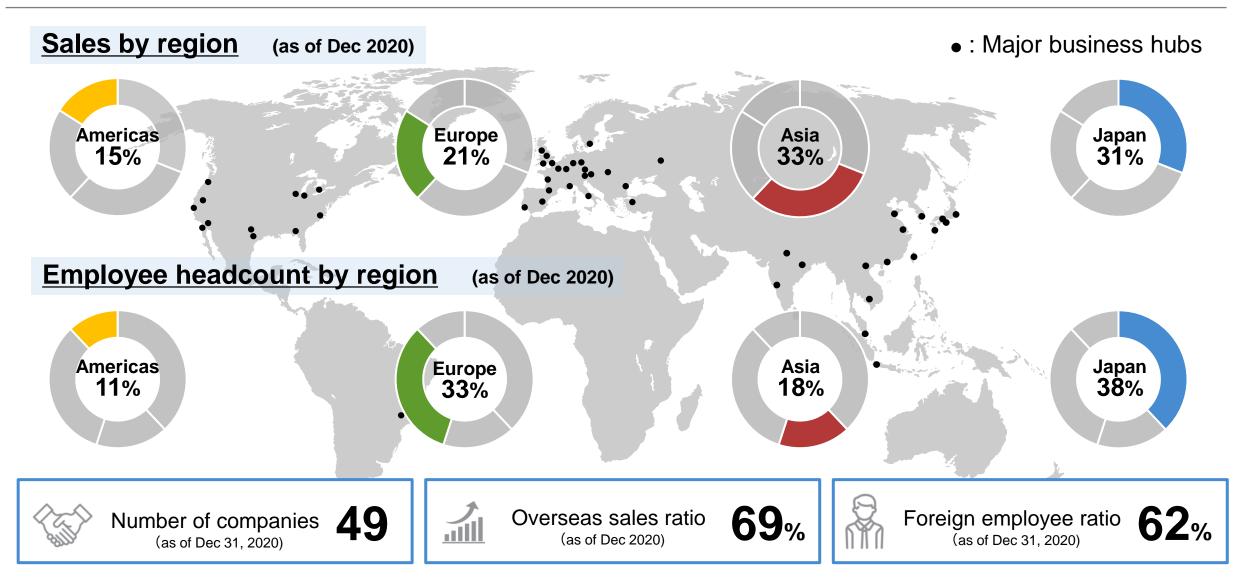
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Five Business Segments & Major Products

Figures are the sales composition ratio for FY 2020

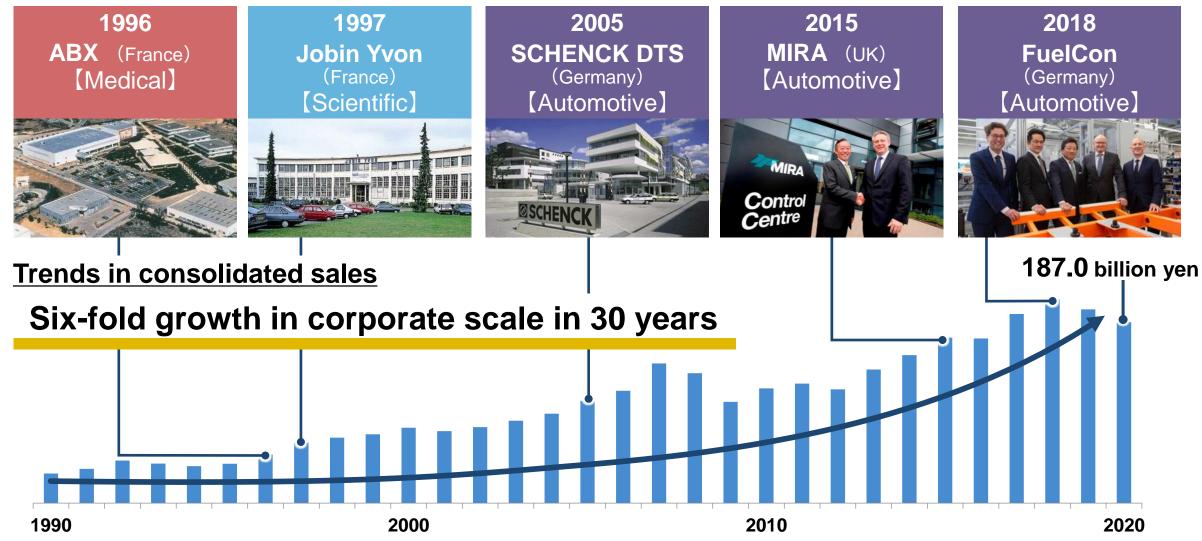


Global Network



Achieving Sustainable Growth Through M&A

Major M&As



HORIBA's Business Domain

