

Nomura Investment Forum 2018

HORIBA, Ltd. December 7, 2018

Contents

- **2018** Jan.-Sept. Results
- **2018** Forecast
- **Business Segments Outline**
- Shareholder Return
- Other Topics
- Financial Data
- Corporate Profile

[Disclaimer]

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Review of 2018

External Events

- **♦** Escalating global trade tensions
- ◆ Decline in emerging markets currencies due to tightening by the Fed in the U.S.
- Temporary subdued capital spending despite robust demand for semiconductors
- **◆** Automotive electrification, emission regulations

Internal Events

- **◆** Enhanced North American bases (for Semiconductors and Scientific)
- ◆ Full-scale operation at the expanded Aso factory (for Semiconductors)
- **◆** Aggressive investment in next-generation automotive technologies

2018 Jan.-Sept. Results

(Billions of Yen)

Made a record-high in sales and profit

	2017	2018	vs 2	017
★: Record-high	JanSept. Results	JanSept. Results	Diff.	%
Sales	132.2	* 146.0	+13.7	+10%
Operating Profit	14.6	★ 17.8	+3.2	+22%
O.P. %	11.0%	12.2%	+1.2p	_
Ordinary Profit	14.3	* 17.5	+3.1	+22%
Net Income attribute to Owners of Parent	10.7	* 13.4	+2.6	+25%
USD/JPY	111.89	109.60	-2.29	
EUR/JPY	124.58	130.87	+6.29	

2018 Jan.-Sept. Results by Segments

(Billions of Yen)

		2017	2018	vs 201	7
★: Reco	ord-high	JanSept. Results	JanSept. Results	Diff.	%
	Auto	45.3	★ 48.3	+2.9	+7%
	P&E	12.0	★ 13.4	+1.4	+12%
	Medical	18.5	19.2	+0.7	+4%
Sales	Semi	38.5	★ 45.4	+6.8	+18%
	Scientific	17.7	★ 19.5	+1.7	+10%
	Total	132.2	* 146.0	+13.7	+10%
	Auto	2.2	1.7	-0.5	-24%
	P&E	0.4	1.1	+0.7	+180%
Operating	Medical	1.2	1.3	+0.0	+6%
Profit	Semi	11.1	★ 14.0	+2.8	+26%
	Scientific	-0.4	-0.4	+0.0	-
	Total	14.6	★ 17.8	+3.2	+22%

<Auto>

- ➤ Increased sales of EMS and ECT^{*1} businesses
- ➤ Decreased profit due to expenses associated with the acquisition, and other factors (MCT*²)
- ***1** Engineering Consultancy & Testing ***2** Mechatronics

<P&E>

Increased sales of water quality analyzers and air pollution analyzers in Asia; the process measurement equipment business increased in the Americas.

<Medical>

- Increased sales of blood cell testing instruments in Asia
- ➤ The depreciation of the yen against the euro boosted sales in Europe when translated into yen

<Semi>

Increased sales and profit due to robust capital spending by semiconductor manufacturers.

<Scientific>

- > Increased sales of analyzers for R&D by private sectors
- > Expense incurred to strengthen the base in the Americas



Booking Trend

(Billions of Yen)

Backlog exceeded 100billion yen due to booming Auto. segment, while Semi. segment showed slow down.

	Bookings					
	20	17		2018		
	3Q	4 Q	1Q	2Q	3Q	
Auto	22.2	23.0	18.8	22.9	22.0	
P&E	5.0	4.9	4.3	4.7	4.8	
Medical	6.0	6.8	7.2	6.0	6.2	
Semi	13.1	17.7	19.0	12.4	11.0	
Scientific	7.5	8.5	6.5	5.9	7.6	
Total	54.0	61.1	56.0	52.2	51.7	

Backlog						
20	17	2018				
3Q end	4Q end	3Q end				
62.7	57.8	73.3				
5.5	5.1	5.6				
3.9	4.1	4.4				
7.6	10.7	7.8				
9.9	10.1	10.7				
89.8	87.9	101.9				



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Market Overview for the Full Year 2018

Auto



Strong appetite for investment in the global automotive sector due to tighter emission regulations in Japan & Asia and innovation for electrification & autonomous driving

P&E



Increase in demand due to tighter environmental regulations in emerging countries

Recovery in investment in the oil industry due to higher oil prices

Medical



Japan: Favorable sales to doctors in private practice

Overseas: Increase in demand for blood testing equipment in emerging countries

Semi



Anticipate a pick-up in investment, due to solid demand of semiconductor devices from a mid- to long-term perspective

Scientific



Robust corporate R&D expenditures

Accelerating research on new materials for secondary batteries

2018 Forecast

(Billions of Yen)

Sales and profit revised downward due to increased investments in Auto. segment and to reflected the latest semiconductor market trend. No change in dividends

	2017		2018		
★: Record-high	Results	Previous Forecast (as of Aug. 3)	Current Forecast (as of Nov. 9)	VS 2017	VS Previous Forecast
Sales	195.3	212.0	★ 207.0	+11.6	-5.0
Operating Profit	26.8	31.0	★ 27.5	+0.6	-3.5
O.P. %	13.7%	14.6%	13.3%	- 0.4p	-1.3p
Ordinary Profit	26.6	30.4	* 26.9	+0.2	-3.5
Net Income attribute to Owners of Parent	16.2	21.5	* 20.0	+3.7	-1.5
USD/JPY	112.16	110.00	110.00	-2.16	_
EUR/JPY	126.70	130.00	130.00	+3.30	_

2018 Forecast by Segments

(Billons yen)

		2017		2018		
★: Reco	ord-high	Results	Previous Forecast (as of Aug. 3)	Current Forecast (as of Nov. 9)	VS 2017	VS Previous Forecast
	Auto	73.3	79.0	★ 78.0	+4.6	-1.0
	P&E	17.4	19.0	★ 19.0	+1.5	_
Onlar	Medical	25.1	26.0	26.0	+0.8	_
Sales	Semi	53.3	60.0	★ 56.0	+2.6	-4.0
	Scientific	26.1	28.0	★ 28.0	+1.8	_
	Total	195.3	212.0	* 207.0	+11.6	-5.0
	Auto	7.6	8.0	6.5	-1.1	-1.5
	P&E	1.0	1.4	1.4	+0.3	_
Operating	Medical	1.9	2.0	2.0	+0.0	_
Profit	Semi	15.6	19.0	★ 17.0	+1.3	-2.0
	Scientific	0.4	0.6	0.6	+0.1	_
	Total	26.8	31.0	* 27.5	+0.6	-3.5

<Auto>

- Revised sales downward reflected the recent order trend (ECT)
- Revised profit downward due to temporary expense in the US, expenses associated with the acquisition of FuelCon AG (Germany) and increased investments to enhance R&D capabilities
- <Semi>
- Revised sales and profit reflected the recent order trend
- <P&E, Medical, and Scientific>
- > No change from the previous forecast

Total sales and profit will renew record-highs



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Jan.-Sept. Results and 2018 Forecast

(Billions of yen)

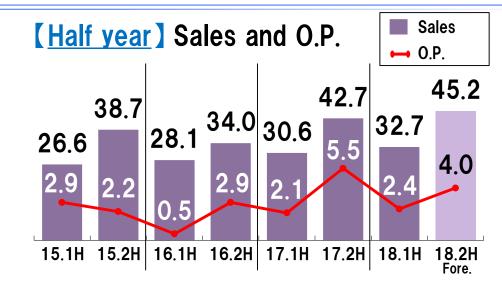
2018 Jan.-Sept. Results

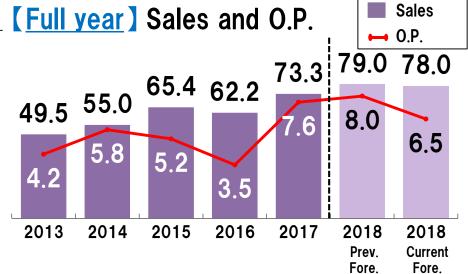
- EMS^{*1} Europe Solid demand after new regulations
 China, India Demand increase for compliance
 with new regulations
- MCT*2 Lower profitability due to temporary expense in the US, and expenses associated with the acquisition of FuelCon AG (Germany)
- ECT*3 Expanded business in next-gen. auto. technology

%1: Emission Measurement Systems %2: Mechatronics %3: Engineering Consultancy & Testing

2018 Full Year Forecast

- **EMS** Demand growth in China and India
- MCT Steady delivery of orders received for Europe, Asia
- **ECT** Aggressive investment to accelerate growth





Effect of enhanced emission regulations

Status of the next-gen. emission regulations HORIBA BIWAKO E-HARBOR achieved record-high output



> Sales of EMS business

2015
(Before the start of E-HARBOR)

¥39.8bn

2018
(forecast)

¥49.0bn

> Emission regulations

Regulation	EU	Japan		
WLTP ¹	Cap. 0017	Oct. 2018		
RDE ²	Sep. 2017	2022 (plan)		

China and India: Adoption of new regulations in 2020 (plan) (Same level as Euro6)

- 1: Worldwide harmonized Light vehicles Test Procedure
- 2: Real Driving Emissions

Production at HORIBA BIWAKO E-HARBOR



Enhanced engineering capability

Increase in solution provision for the automotive development process

- > Vehicle testing system (Subaru Corp.)
- •Provide the powertrain testing system that reproduces climate change and other conditions of real driving.
- •Tie up with HORIBA's labs in Japan and the U.S. and curtail the customer's development processes.
- > Joint dev't of EV technologies (Keihin Corp.)
- HORIBA MIRA provides the battery management system to assists the EV system development.



Vehicle testing system



Battery management system

HORIBA MIRA in the U.K. opened MIRA Technology Institute



Jointly invested with the LLEP* in the U.K.

- → Aimed at fostering personnel in the next-gen. automotive industry
- > Education facility in a 24,500m site
- Managed by local universities (inviting professors)



*LLEP: Leicester & Leicestershire Enterprise Partnership



Rendering of MIRA Technology Institute

Quoted from https://www.miratechnologypark.com/



Investment plan for a battery evaluation testing facility

Introducing an advanced evaluation concept to connect the real and the virtual second





Battery evaluation testing facility for electric vehicles (HORIBA BIWAKO E-HARBOR)

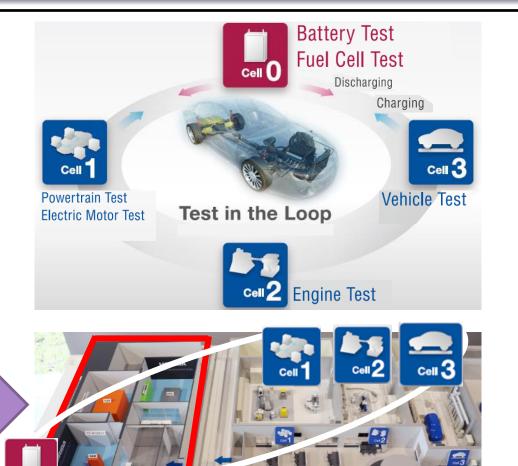
- Assessment of the combination of a battery, powertrain, and a vehicle
- > Testing a wide range of temperature environment → To be used in evaluating xEV and fuel batteries
- Operation to start in July 2019 (plan)
- Investment amount: about ¥1.3bn







HORIBA MIRA's engineering capability to be deployed globally





Expanding Business Domains (FuelCon Acquisition)

Acquisition of FuelCon AG



Sales Breakdown

Fuel cell

test

systems

46%

Lithium ion

battery test

systems

54%

- A leading German developer of fuel cell and battery test systems for electric vehicles
- Owns diverse fuel cell test systems
- Supplied systems mainly to German automakers

Established
Sales

Operating profit
Workforce

Location

Major customers

2001

11,504k EUR (2017)

199k EUR (2017)

62 (ex. Management)

Magdeburg, Germany

(About 160km west of Berlin)

Volkswagen, BMW, Audi, Hyundai, Bosch

HORIBA Group's expansion of business domains

	Electrif	Electrified vehicles (HEV, PHEV, FCEV, etc.)					
	Vehicle	Drive system	Engine	Battery/FC			
Measuring instruments (EMS/MCT)	HORIBA	HORIBA	HORIBA	HORIBA FuelCon			
Test automation	HORIBA	HORIBA	HORIBA	HORIBA HORIBAFuelCon			
Engineering (ECT)	MIRA	MIRA		MIRA			

Use of FuelCon's experience and know-how to expand electric vehicle business



Expanding Business Domains (Support to the UCI)

Support to the UCI for a new institute



- Committed support to the University of California, Irvine (UCI) to establish the Horiba Institute for Mobility and Connectivity (HIMAC)
- ➤ Enhance industry and academia partnering in the energy sector of the UCI, a credible institute recognized by the Environmental Protection Agency (EPA) and other U.S. regulatory authorities

HORIBA Group's expansion of business domains

Mobility field Integration Energy field

HORIBA

Provision of measurement instruments

(HIMAC)

Combine energy and mobility fields

Research and education efforts on integrated systems

A place for research and education
University of
California, Irvine

Contribution of HORIBA's analysis and measurement technologies across the changing energy industry



systems





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test systems, etc.

P&E

Jan.-Sept. Results and 2018 Forecast

(Billions of yen)

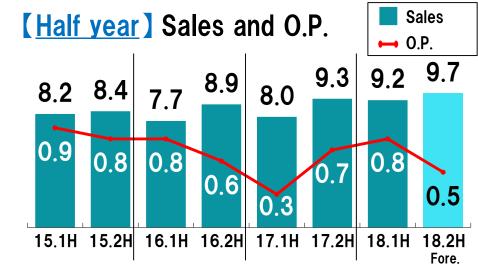
19

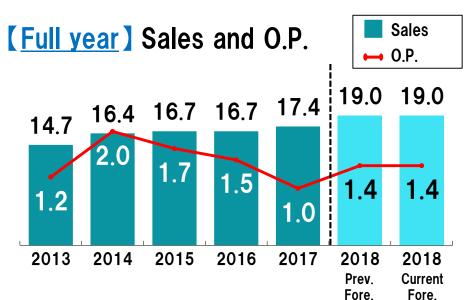
2018 Jan.-Sept. Results

- Stack gas analyzers: Sales increase in North America due to enforced marketing; flattish demand in Japan
- Air quality monitoring: Demand growth in Europe and emerging countries due to enhanced regulations
- Water quality: Sales increase due to business expansion in Japan and emerging countries

2018 Full Year Forecast

- Stack gas analyzers: Anticipate progress in VOC regulations in China
- Process measurement equipment: Anticipate a recovery in investment due to higher oil prices
- Water quality monitoring: Capture replacement demand in Japan and expand business in emerging countries







P&E

Initiatives for expansion into new markets



Business growth in Asia



Expand the environmental regulation and monitoring business

- Delivery to and continued orders received from Ho Chi Minh and 5 other cities/provinces in Vietnam
- Air Quality Monitoring Station (AQMS)
- Water Quality Monitoring Station (WQMS)

Main operation by HORIBA, Vietnam

Air pollution monitoring equipment business: Consolidated sales (¥bn) 2.4

2.1

2.5

3.0

2015

2016

2017

2018 Fore.





Launch of "HAKARU* EXpress"



From a hardware sales business to a data sales business using cloud computing

- Installation of automatic total nitrogen, total phosphorous measurement equipment
 - 1. Provide the water quality measurement report
 - 2. Use cloud and monitor the status of equipment

Main operation by HORIBA Advanced Techno



Dan Horiba President of HORIBA **Advanced Techno** Co., Ltd.

"HAKARU EXpress" service

***:** HAKARU = Measuring in Japanese

Medical Jan.-Sept. Results and 2018 Forecast

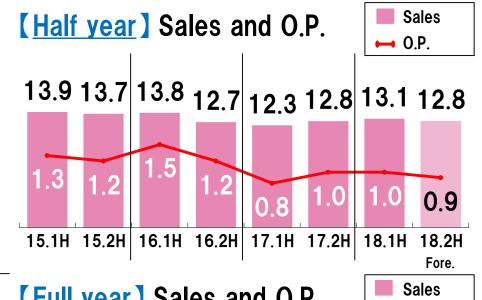
(Billions of yen)

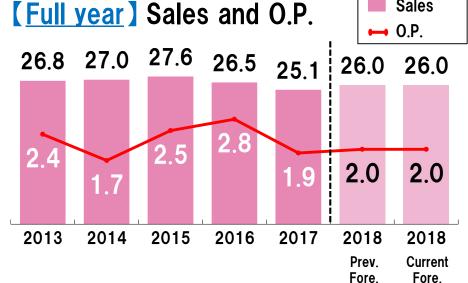
2018 Jan.-Sept. Results

- Strong sales of new products in Japan
- Sales increase in Europe in yen terms due to the weaker yen
- Business expansion in emerging countries (China, India)

2018 Full Year Forecast

- Intensified competition in hematology and **CRP** analyzers in Japan
- Further business expansion in emerging countries with high demand
- Higher sales promotion expenses due to new product





Medical Initiatives for business expansion

New products to be launched globally



Mid and large-sized new product "HELO Solution" **Completed installation** in France. Brazil. Thailand and the U.K.



Installation case in Brazil

5 diff. white cell diagnosis + CRP "Yumizen H630"

Favorable sales to doctors in private practice in Japan



Business alliance with Siemens Healthcare Diagnostics In the process of arranging products for obtaining accreditation

Opened the application center (biochemical) to accelerate the U.S. business

- > To start full operation in August 2018 in Irvine, California
- > For application development in the biochemical field
- > Biochemical business consolidated sales: ¥4.1bn (2017)



Biochemical analytical equipment to be launched in the U.S. (OEM supply from JEOL Ltd.)

Jan.-Sept. Results and 2018 Forecast

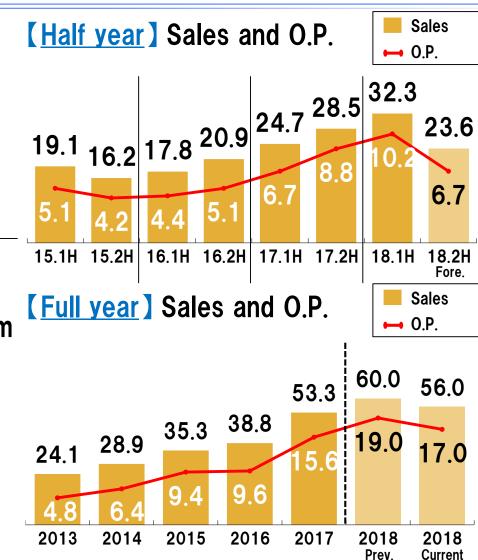
(Billions of yen)

2018 Jan.-Sept. Results

- Record-high sales and O.P.
- Record-high production volume in Mass Flow Controllers (MFC)
- The Aso factory expansion boosted supply capacity.

2018 Full Year Forecast

- Anticipate a pick-up in investment due to solid demand from a mid- to long-term perspective, despite the current time-out in capital spending demand by semicon makers
- Japan : The Aso factory's full-fledged operation has stabilized the supply system.
- Overseas : Opening of a new development base in the U.S. to enhance a global R&D capacity



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Fore.

Fore.



Semi

Strengthen supply capacity and global R&D

Full-fledged production after the Aso expansion



Combined output at Aso and Kyoto 350,000 MFCs per year

Production status: Record-high output (March 2018)

Aso Factory: Mass production of MFCs

Kyoto Factory: Development and production of

advanced MFCs



HORIBA STEC Aso Factory



Construction completion ceremony (May 2018)

Opening of HORIBA Reno Technology Center



Enhance a N. America development base in the focus area



Establish a global R&D capability



Start: Aug. 2018 Investment: App. ¥1.2bn

Place: Reno, Nevada, the U.S.

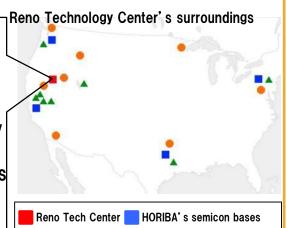
Activity: Development in fluid measurement and control

technologies



Relocate into the semiconductor industry cluster region

- 1. Deepen relationship with customers
- 2. Promptly capture needs
- 3. Incorporate into products



Semi/battery makers ASPE makers

HORIBA's global MFC market share: About 60% (HORIBA's estimate; as of 2018)

Scientific Jan.-Sept. Results and 2018 Forecast

(Billions of yen)

15.4

Sales

→ 0.P.

2018 Jan.-Sept. Results

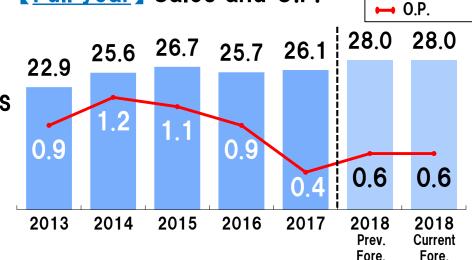
- Sales increase in Japan, Americas and Europe on the back of robust corporate R&D spending
- Expense incurred to strengthen bases in Americas

13.1 13.6 _{12.3} 13.3 15.1H 15.2H 16.1H 16.2H 17.1H 17.2H 18.1H 18.2H Fore. Sales **[Full year]** Sales and O.P.

[Half year] Sales and O.P.

2018 Full Year Forecast

- + Solid sales in Japan to continue
- Enhance actions for business expansion in secondary batteries
- Risk in temporary slowdown in sales of spectroscopes for semicon makers in Americas





Scientific Strengthen global bases and expand core business

Opening of HORIBA New Jersey Optical Spectroscopy Center

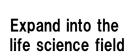


Start: Aug. 2018 Investment: App. ¥2.1bn

Place: Piscataway, New Jersey, the U.S.

Activity: Development and production of fluorescence

analyzers and spectrometers





Fluorescence analyzer DUETTA



Expand demand for semiconductors

Spectrometer



HORIBA New Jersey Optical Spectroscopy Center

Hosting of the RamanFest 2018 International Symposium on Raman technologies



- ➤ Held on June 25 and 26, 2018
- > Attended by about 100 advanced technology researchers and developers
- > HORIBA initiated this project, held the first one in 2013 and the first in Japan in 2018.
- > 16 academic/corporate speakers and poster session → Connecting academia and industries

Aim at further business expansion as a leading company with a 50-year history in Raman Spectroscopy



RamanFest 2018

Raman Spectroscopy global share 30%* * HORIBA's estimate (as of 2018)



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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)

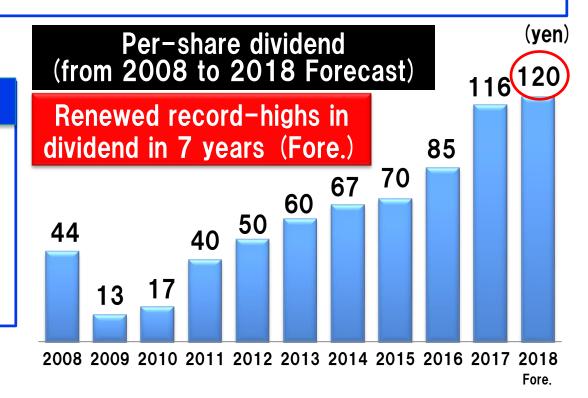
Dividends per share and Share buyback

Interim Year-end

2016 Results 85 yen [30 yen, 55 yen]

2017 Results 116 yen [40 yen, 76 yen]

2018 Forecast 120 yen [50 yen, 70 yen]





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HORIBA's perspectives on ESG investment

Contribution to the environment and society via its business:

Building of an open & fair governance structure

[Examples]



ENVIRONMENT



Portable emission measurement system OBS-ONE Emission gas
measurement system
Contribute to
emission regulations,
realizing healthy society,
preventing climate change



Industrial water quality analyzer H-1 Series

Environment-related products

Contribute to environmental preservation and improvement by identifying causes of pollutions via analysis of air pollutants and industrial waste



SOCIAL

Innovation for electrification& autonomous drivingHelp realize safe, pleasantsociety



MIRA Technology Institute
Contribute to industries'
development by developing
next-gen. talents



Aso factory's expansion
Contribute to local communities
and continuous job creation



experiences and skills

Raise the quality of strategies by making decisions upon active discussions at the Board of Directors and corporate value



Sawako Takeuchi Academic background as a holder of a doctor's degree in engineering and international experience



Masahiro Sugita
Deep insight and knowledge on finance
and economy, and accumulated experience
as a director and auditor of other
companies



Jiko Higashifushimi Insight as Head Priest of the Shorenin Religious Corporation and work experience at a financial institution



HORIBA Premium Value to improve asset efficiency

Case of an improved asset efficiency in the MCT business

- Improvement at Olomouc Factory (Czech) with a focus on production of standard Chassis dynamometers
- ✓ Full review of production processes and supply chain and adoption of the Kanban pull system







Olomouc Factory (left) and its production area (right)

Workshops on adoption of a new benchmark

- **◆** Action plan for those responsible in global finance
- Workshops for managers
- > Action plan (examples)
- Promoting the benchmark to all group employees
- Optimization of group inventory by sharing inventory information

HORIBA Premium Value

A new management benchmark with awareness on WACC

0.P.

Co

Cost of capital

(Invested capital X In-house rate of cost of capital)

•Building of a sales company-factory cooperative structure for collection of receivables

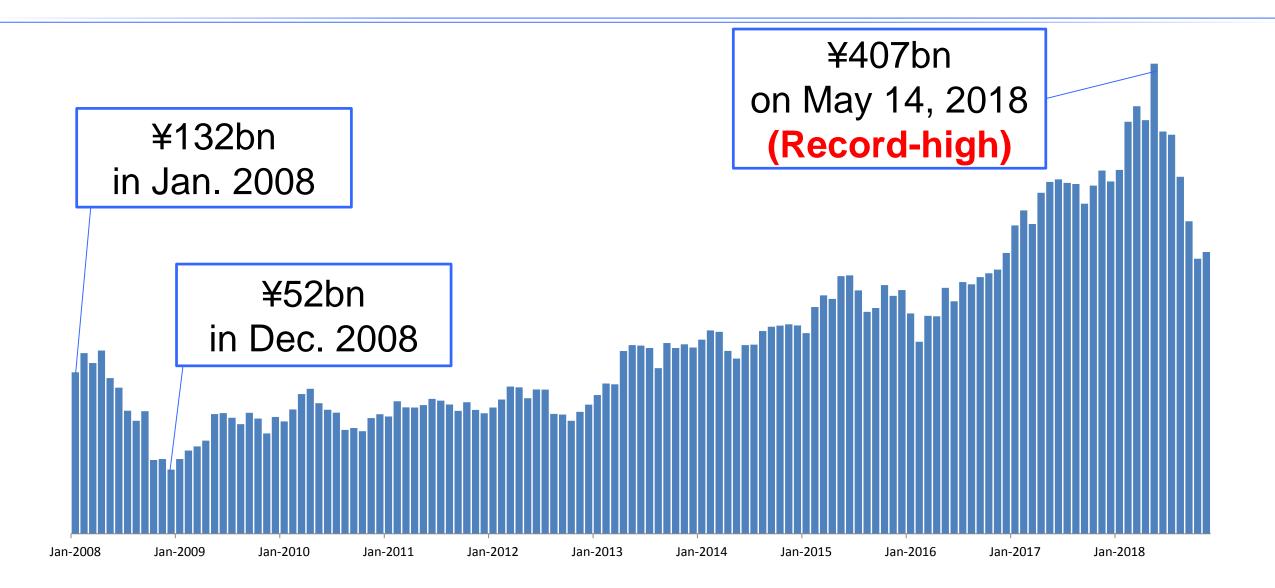


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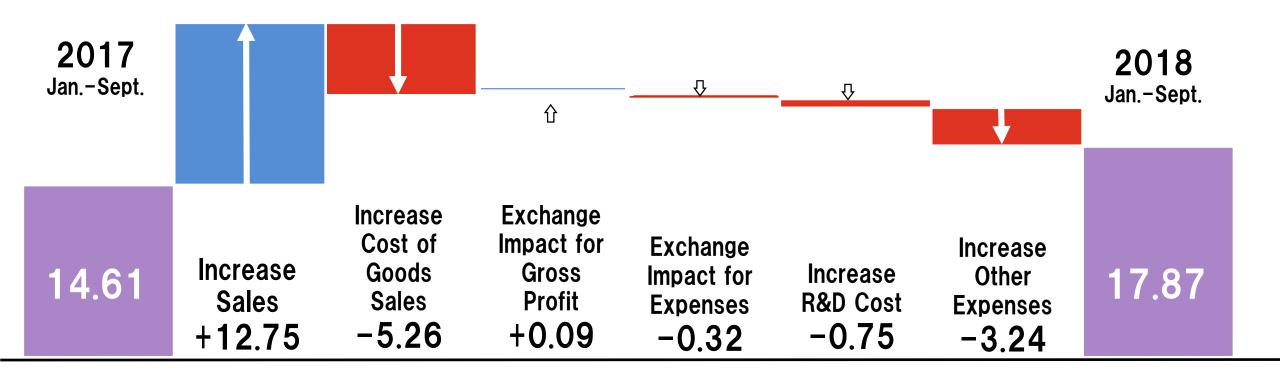
Trend of Market capitalization





Operating Profit Analysis (vs 2017)

(Billions of yen)



Increase Gross Profit +7.49 Exchange Impact -0.22 Increase Expenses -4.00

Increase of Operating Profit +3.26



Impact of Fluctuation in Foreign exchange

(Millions of Yen)

Exchange rate impact (2018 Jan.-Sept. Results vs 2017)

Sales +¥980mil O.P. -¥220mil

	Sales			Oper	Operating Profit		
	Total	USD	EUR	Total	USD	EUR	
Auto	+660	-130	+480	-40	-20	-1	
P&E	+40	-50	+60	+50	+1	+30	
Medical	+280	-60	+370	-100	+1	-60	
Semi	-170	-390	+30	-140	-320	+20	
Scientific	+160	-150	+290	+10	-3	+10	
Total	+980	-790	+1,250	-220	-330	+1	

Exchange rate impact
for 2018 Forecast
1 yen impact of Sales and O.P.
(Yen appreciation)

Sales
USD -¥460mil
EUR -¥320mil

Operating profit USD -\frac{4}{200mil} EUR -\frac{4}{20mil}

	201	2017 2018		
(Yen)	JanSept.	JanDec.	JanSept.	JanDec. (Fore.)
USD	111.89	112.16	109.60	110.00
EUR	124.58	126.70	130.87	130.00



Capital Investment, Depreciation, R&D

(Billions of Yen)

Capital investment: expected to exceed the last year results while revised downward considering the recent progress

	2017		2018	
	Results	Previous Forecast (As of Aug. 3)	Current Forecast (As of Nov. 9)	vs Previous Forecast
Capital Investment	11.6	16.0	14.0	-2.0
Depreciation	7.5	7.5	7.5	_
R&D	13.9	15.5	15.5	_
(To net sales)	7.1%	7.3%	7.5%	+0.2p

2017 JanSept.	2018 JanSept.
8.3	7.4
5.6	5.2
10.0	10.9
7.6%	7.5%



Consolidated Cash Flows

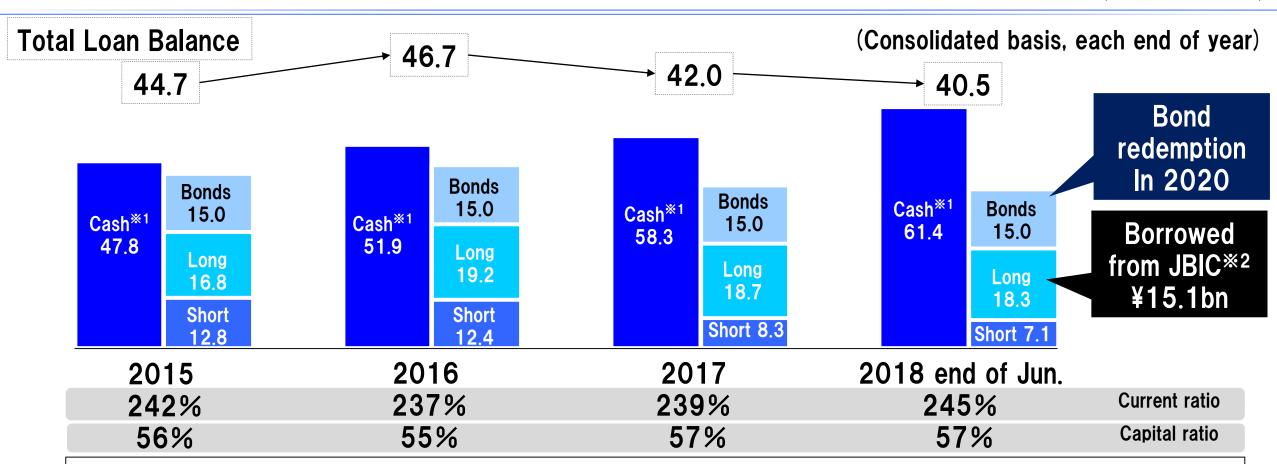
(Billions of Yen)

	2018 First Half	2017 First Half	Variation
Cash flows from operating activities	+12.40	+16.27	-3.86
Cash flows from investing activities	-4.43	-6.80	+2.37
Cash flows from financing activities	-4.31	-7.10	+2.79
Cash and cash equivalents at end of year	61.47	54.17	+7.29
Free cash flows	+7.97	+9.47	-1.49



Cash Balance

(Billions of Yen)



- Loan repayment due to group financing
- Recent issuer rating: R&I "A" (September 2018), JCR "A" (August 2018)

1 Cash···Cash and Cash Equivalents at End of Period. *2 JBIC: Japan Bank for International Cooperation



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- ■2018 Jan.-Sept. Results
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- **Business Segments Outline**
- **■**Shareholder Return
- Other Topics
- Financial Data
- Corporate Profile



Corporate Profile

Head Office
Foundation
Incorporation
Fiscal Year End

Atsushi Horiba Chairman & Group CEO Kyoto, Japan 1945 1953 December 31



- Corporate motto -



To have interest and pride in our work to enjoy our lives

Business Segments

Automotive Test Systems



- Emission Measurement Systems
- Test Automation Systems
- Intelligent Transport Systems
- Engineering Consultancy & Testing (HORIBA MIRA, Ltd)

Process & Environmental



- Environmental & Process Systems
- Environmental Radiation Monitor
- Environmental Regulation & Process Business

Medical



- In-Vitro Diagnostic (IVD) Systems
- Integration of HORIBA ABX SAS's
 Technology & Marketing Know-how

Semiconductor



- Mass Flow Controller
- •In-situ Analysis
- •Synergy among HORIBA HQ, HORIBA STEC, HORIBA Advanced Techno and HORIBA France SAS's Technologies

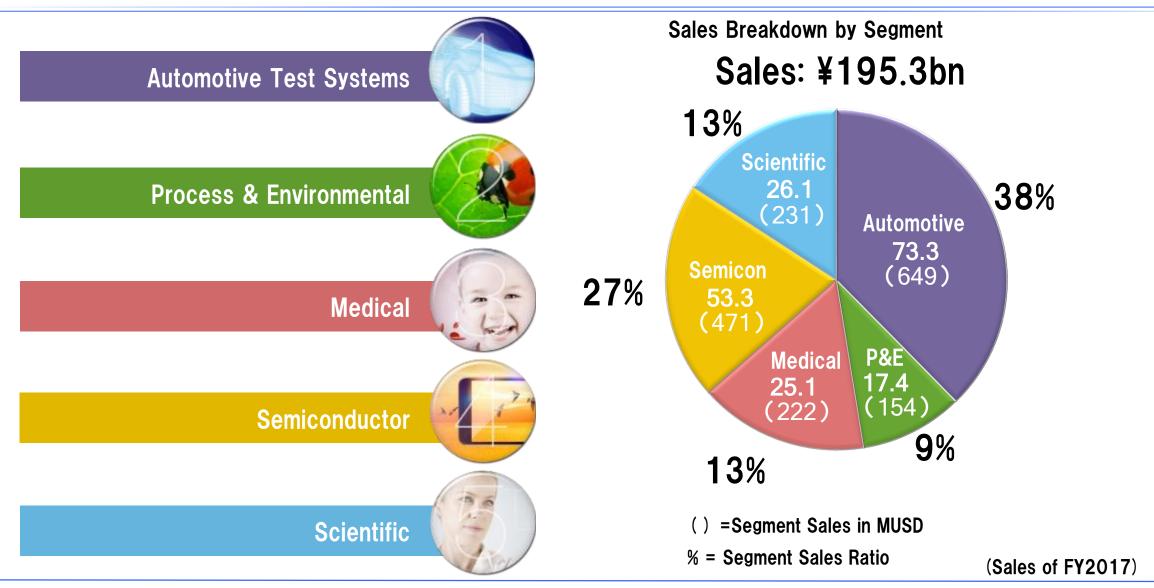
Scientific



- Raman, Grating, and Fluorescence
- •Synergy of HORIBA and HORIBA Jobin Yvon's Technologies



Business Segments





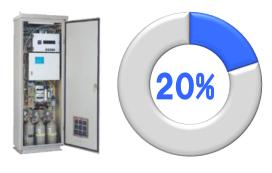
Market Share

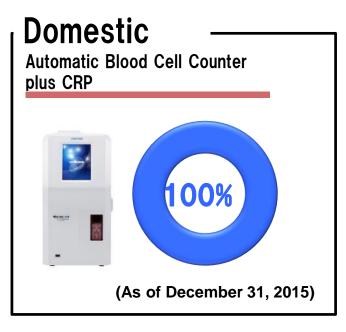
Global

Emission Measurement Systems

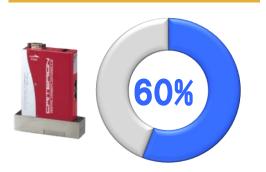


Stack Gas Analyzers





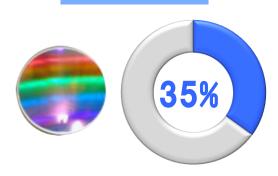
Mass Flow Controllers



Raman Spectrophotometers



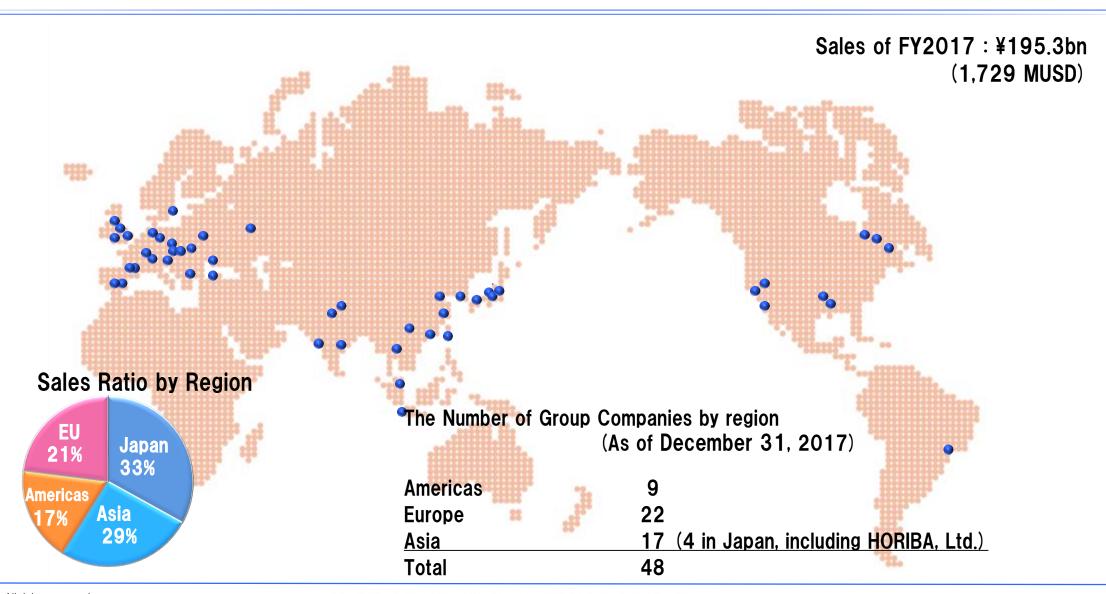




***Market shares quoted are estimates by HORIBA.**



HORIBA Worldwide





Employees by Region

