

Hitachi Metals

Financial Results for the First Half of Fiscal Year 2017 (April 1, 2017 to September 30, 2017)

October 24, 2017

Trend in demand

The global economy remained on a modest rebound track primarily in advanced countries. The Japanese economy continued to recover gradually as a result of the ongoing improvement in the employment and income environment with increasing exports and capital investment supported by a steady recovery of the global economy.

- In the automobile field, sales in Japan significantly increased, led by strong demand for new models; and Europe and China also showed steady demand, while sales of new vehicles decreased in the United States compared with those for the six months ended September 30, 2016.
- Industrial infrastructure-related demand for steel products increased mainly in the manufacturing sector, including automobiles and industrial machinery.
The number of new housing starts remained at the same level.
- In the electronics field, mobile device shipments significantly increased.

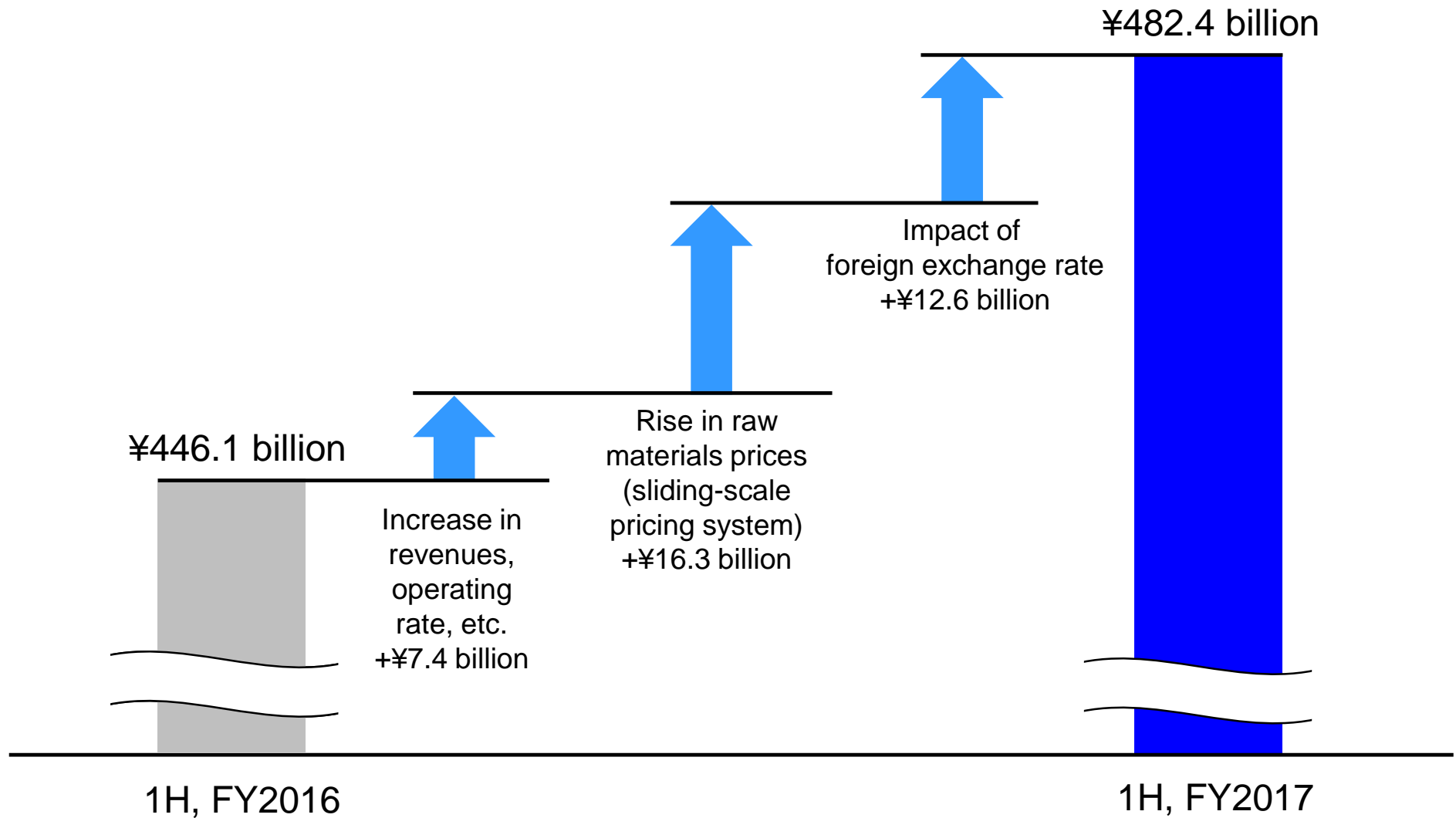
2. Operating Results for the First Half of Fiscal Year 2017

(¥billions) Profit margin in brackets	1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	Year-on- Year	Supplementary Note
Revenues	446.1	482.4	+8%	Increase in revenues, influenced mainly by a rise in raw materials prices (a sliding-scale raw material price system) and the depreciation of the yen, in addition to an increase in demand for mainstay products.
Adjusted operating income ^{*1}	[6.9%] 31.0	[6.7%] 32.2	+1.2	Increase in income, mainly due to an increase in income associated with increased revenue and the effects of <i>Monozukuri</i> Innovation Project etc.
Other income	2.8	2.1	-0.7	
Other expenses	-5.0	-7.5	-2.5	
IFRS operating income	[6.5%] 28.8	[5.6%] 26.8	-2.0	
EBIT	26.0	29.1	+3.1	Increase due to improvement in foreign exchange gain and increase in share of profit of entities accounted for using the equity method.
Income before income taxes	24.8	28.0	+3.2	
Income taxes	-6.5	-8.4	-1.9	
Net income attributable to shareholders of the parent company	18.3	19.6	+1.3	
Percentage of revenues from overseas markets ^{*2}	55%	57%	+2%	

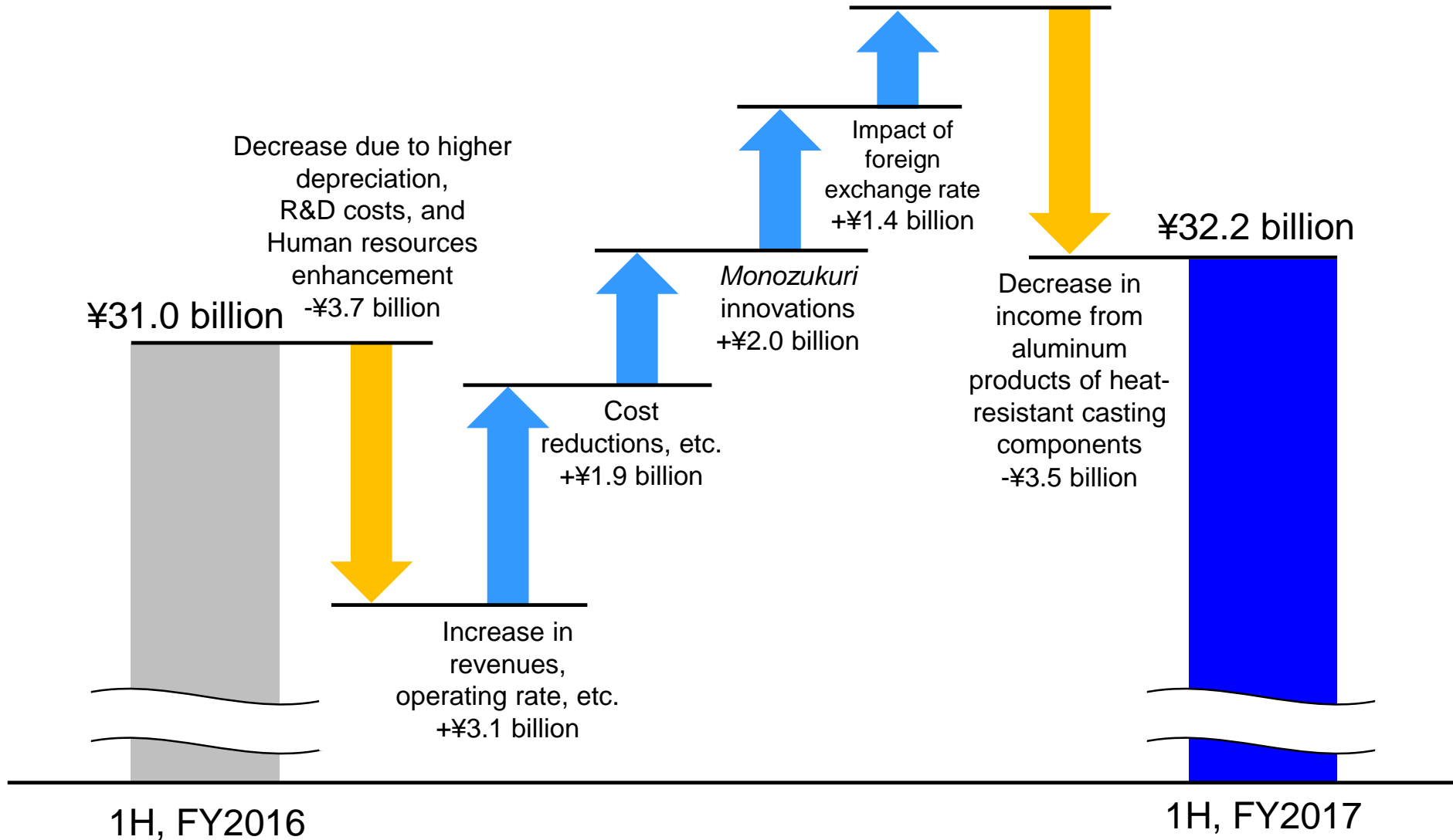
*1 Adjusted operating income: (Revenues) – (Cost of sales) – (Selling, General, & Administrative expenses)

*2 Overseas revenues by region: 1H, FY2017: North America, 31%; China, 8%; Asia (exc. China), 12%; Europe, 5%; Others, 1%
1H, FY2016: North America, 30%; China, 7%; Asia (exc. China), 12%; Europe, 5%; Others, 1%

3. Factors Behind Increase/Decrease in Revenues (Year-on-Year)



4. Factors Behind Increase/Decrease in Adjusted Operating Income (Year-on-Year)



5. Operating Results by Segment for the First Half of Fiscal Year 2017

(¥billions) Profit margin in brackets		1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	Year-on-Year
Specialty Steel Products	Revenues	115.9	141.0	+22%
	Adjusted operating income	[9.6%] 11.1	[9.6%] 13.5	+2.4
	Operating income of the segment	[8.6%] 10.0	[9.4%] 13.2	+3.2
Magnetic Materials and Applications	Revenues	48.5	52.1	+7%
	Adjusted operating income	[7.8%] 3.8	[9.2%] 4.8	+1.0
	Operating income of the segment	[7.6%] 3.7	[9.2%] 4.8	+1.1
Functional Components and Equipment	Revenues	162.5	178.4	+10%
	Adjusted operating income	[5.7%] 9.3	[3.5%] 6.2	-3.1
	Operating income of the segment	[5.6%] 9.1	[3.1%] 5.5	-3.6
Wires, Cables, and Related Products	Revenues	118.7	110.5	-7%
	Adjusted operating income	[5.1%] 6.1	[6.2%] 6.9	+0.8
	Operating income of the segment	[4.5%] 5.4	[2.5%] 2.8	-2.6
Other Adjustments	Revenues	0.5	0.4	—
	Adjusted operating income	0.7	0.8	+0.1
	Operating income of the segment	0.6	0.5	-0.1
Total	Revenues	446.1	482.4	+8%
	Adjusted operating income	[6.9%] 31.0	[6.7%] 32.2	+1.2
	Operating income	[6.5%] 28.8	[5.6%] 26.8	-2.0

As of July 1, 2017, the segment classification to which SH Copper Products Co., Ltd., a consolidated subsidiary, and another company belonged, was changed from “Wires, Cables, and Related Products” to “Specialty Steel Products,” and figures after the segment change are indicated.

6. Operating Results by Segment: Specialty Steel Products (1)

Overall Summary

[Revenues, adjusted operating income]

Both revenues and income increased, reflecting a rise in demand for molds and tool steel, industrial equipment materials and alloys for electronic products.

Overview by Product

[Specialty steel]

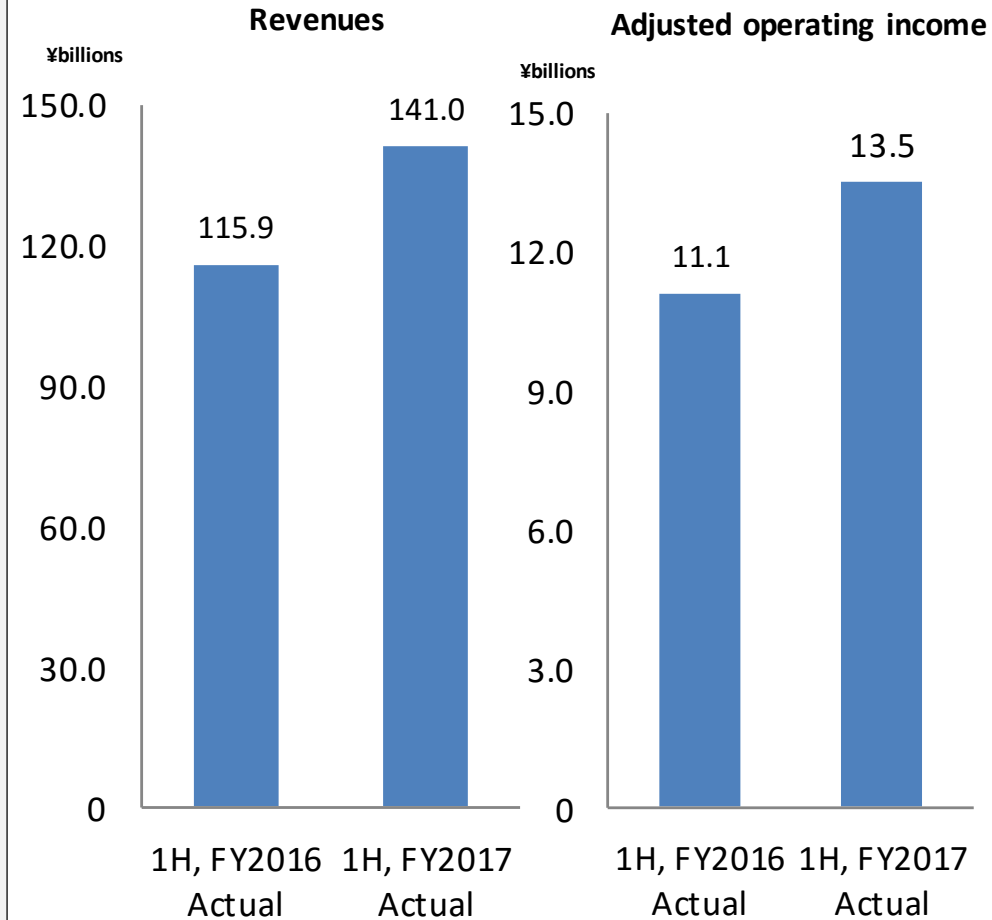
- Molds and tool steel: Sales exceeded those for the six months ended September 30, 2016, due to a recovery in demand in both Japan and Asia.
- Industrial equipment materials: Sales increased overall year on year, as sales of environmentally friendly products related to automobiles as well as other industrial components, in particular, components for semiconductor-related equipment, increased.
- Alloys for electronic products: Sales significantly increased year on year, due to strong sales of semiconductor package components, battery materials, and OLED panel-related components.
- Aircraft-related and energy-related materials: The situation of the sales was weak.

[Rolls]

- Injection molding machine parts: Sales showed recovery resulting from an increase in demand for mobile devices.
- Other rolls: In September 2016, the Group discontinued production of rolls at a Chinese subsidiary to concentrate management resources on high value-added products. As a result, sales of rolls as a whole fell year on year.

[Soft magnetic components and materials]

Sales fell as a whole below those for the six months ended September 30, 2016, due to a drop in demand for amorphous metals, although sales of applied products for mobile devices and automobiles increased because of robust demand.



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7. Operating Results by Segment: Specialty Steel Products (2)

(¥billions)		1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	Year-on-Year
Specialty Steel Products	Revenues	115.9	141.0	+22%
	Specialty steel [◎]	90.6	118.3	+31%
	Molds and tool steel [□]			+9%
	Industrial equipment materials [□]			+11%
	Aircraft-related and energy-related materials [□]			-11%
	Alloys for electronic products [□]			+112%
	Rolls [◎]	11.2	10.1	-10%
	Soft magnetic components and materials [◎]	14.1	12.5	-11%
	Adjusted operating income	11.1	13.5	+2.4
	Adjusted operating margin	9.6%	9.6%	—
Operating income of the segment	10.0	13.2	+3.2	

◎ Simple sum before eliminating intersegment revenues.

□ Indicates the change in revenues calculated by a simplified method.

8. Operating Results by Segment: Magnetic Materials and Applications (1)

■ Overall Summary

[Revenues, adjusted operating income]

Both revenues and income increased, reflecting strong demand for automotive electronic components and industrial equipment.

■ Overview by Product

[Rare earth magnets]

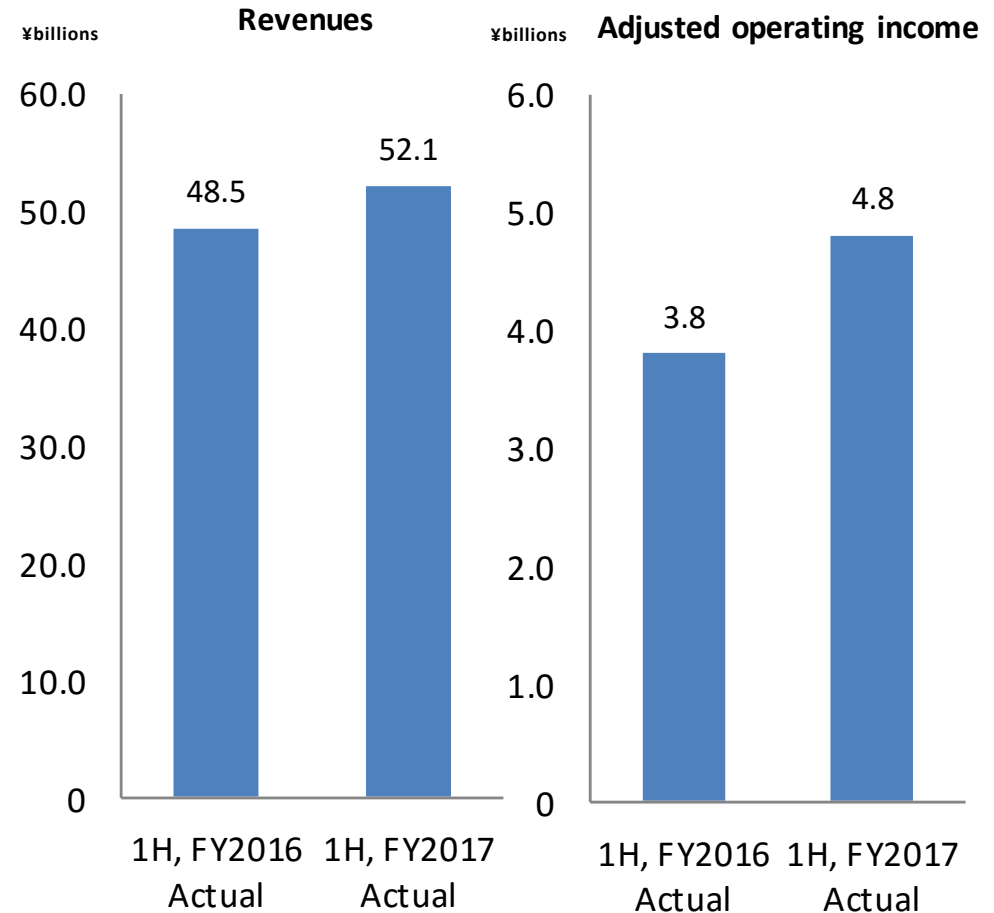
Demand for automotive electronic components for electric power steering and hybrid automobiles was strong.

Sales of industrial equipment were also solid, supported by increased capital investment-related demand for flat-panel displays, mobile devices, and semiconductors.

As a result, sales of rare earth magnets overall exceeded those for the six months ended September 30, 2016.

[Ferrite magnets]

Sales increased year on year due to strong demand for automotive electronic components, reflecting increased automobile production as well as firm demand for household appliance parts.



9. Operating Results by Segment: Magnetic Materials and Applications (2)

(¥billions)		1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	Year-on-Year
Magnetic Materials and Applications	Revenues	48.5	52.1	+7%
	Rare earth magnets (weight)			+10%
	Ferrite magnets (weight)			+4%
	Adjusted operating income	3.8	4.8	+1.0
	Adjusted operating margin	7.8%	9.2%	+1.4%
	Operating income of the segment	3.7	4.8	+1.1

10. Operating Results by Segment: Functional Components and Equipment (1)

■ Overall Summary

[Revenues]

Revenues increased due to increased demand for cast iron products and heat-resistant casting components.

[Adjusted operating income]

Income decreased mainly due to a rise in costs on the back of a surge in demand for heat-resistant casting components, and to a drop in demand for aluminum wheels.

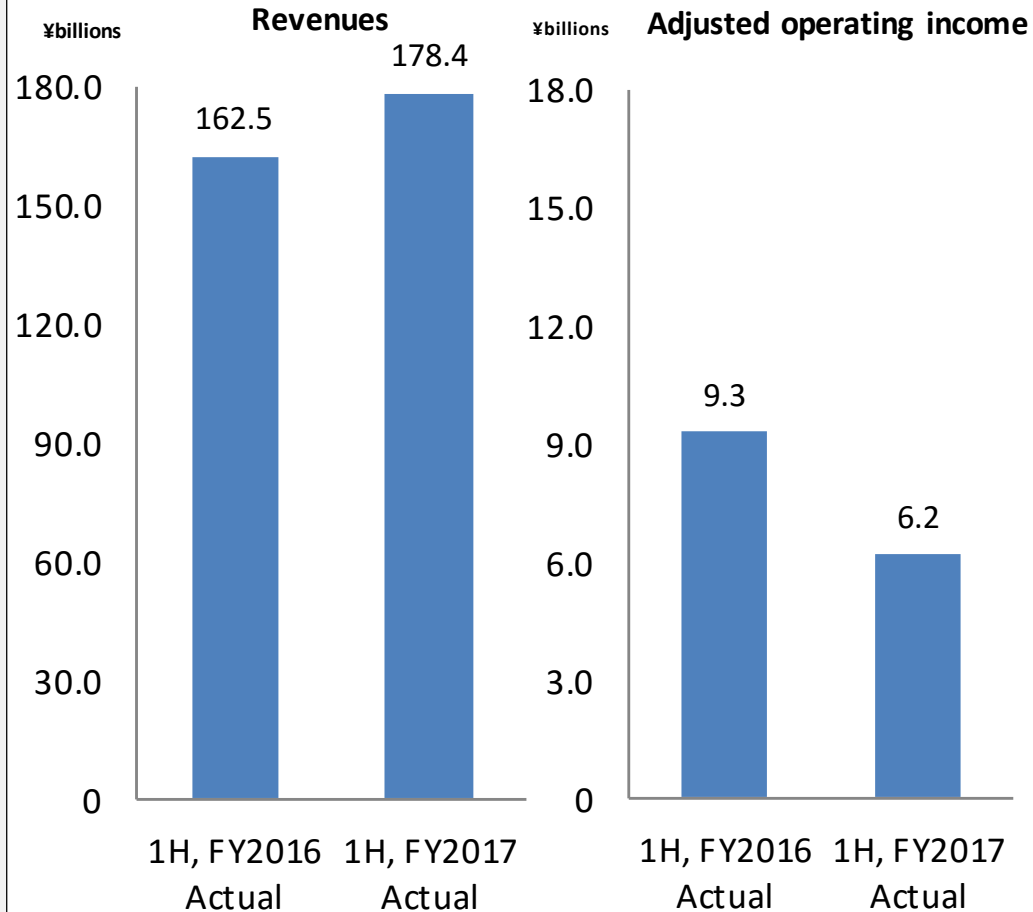
■ Overview by Product

[Casting components for automobiles]

- Cast iron products: Despite a slowdown in demand for casting components for pickup trucks and other light trucks as well as passenger vehicles, sales of casting components for automobiles increased in North America. This was due to an increase in demand for casting components for commercial vehicles, farming machinery, and construction machinery. Sales also increased due to increased demand for automobiles in Asia. As a result, sales increased year on year as a whole.
- Heat-resistant casting components: Sales increased year on year due to an increase in demand in the American, European, and Asian markets.
- Aluminum wheels: Sales fell below those for the six months ended September 30, 2016, affected by decreased demand for passenger vehicles in North America.

[Piping components]

Sales of pipe fittings as a whole exceeded those for the six months ended September 30, 2016, due to solid demand overseas, despite decreased demand in Japan, and strong performance in devices for semiconductor manufacturing equipment, reflecting an increase in demand for semiconductor-related equipment.



11. Operating Results by Segment: Functional Components and Equipment (2)

(¥billions)		1H, FY2016 Business Performance	1H, FY2017 Business Performance	Year-on-Year
		US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	
Functional Components and Equipment	Revenues	162.5	178.4	+10%
	Casting components for automobiles [®]	139.1	153.7	+10%
	Cast iron products (weight)			+2%
	Heat-resistant casting components (HERCUNITE™) (weight)			+51%
	Aluminum wheels (number)			-22%
	Piping components [®]	23.3	24.7	+6%
	Adjusted operating income	9.3	6.2	-3.1
	Adjusted operating margin	5.7%	3.5%	-2.2%
	Operating income of the segment	9.1	5.5	-3.6

© Simple sum before eliminating intersegment revenues.

12. Operating Results by Segment: Wires, Cables, and Related Products (1)

■ Overall Summary

[Revenues]

Revenues decreased due to the impact of business restructuring aimed at business portfolio remodeling.

[Adjusted operating income]

Income increased, reflecting an increase in focus areas.

■ Overview by Product

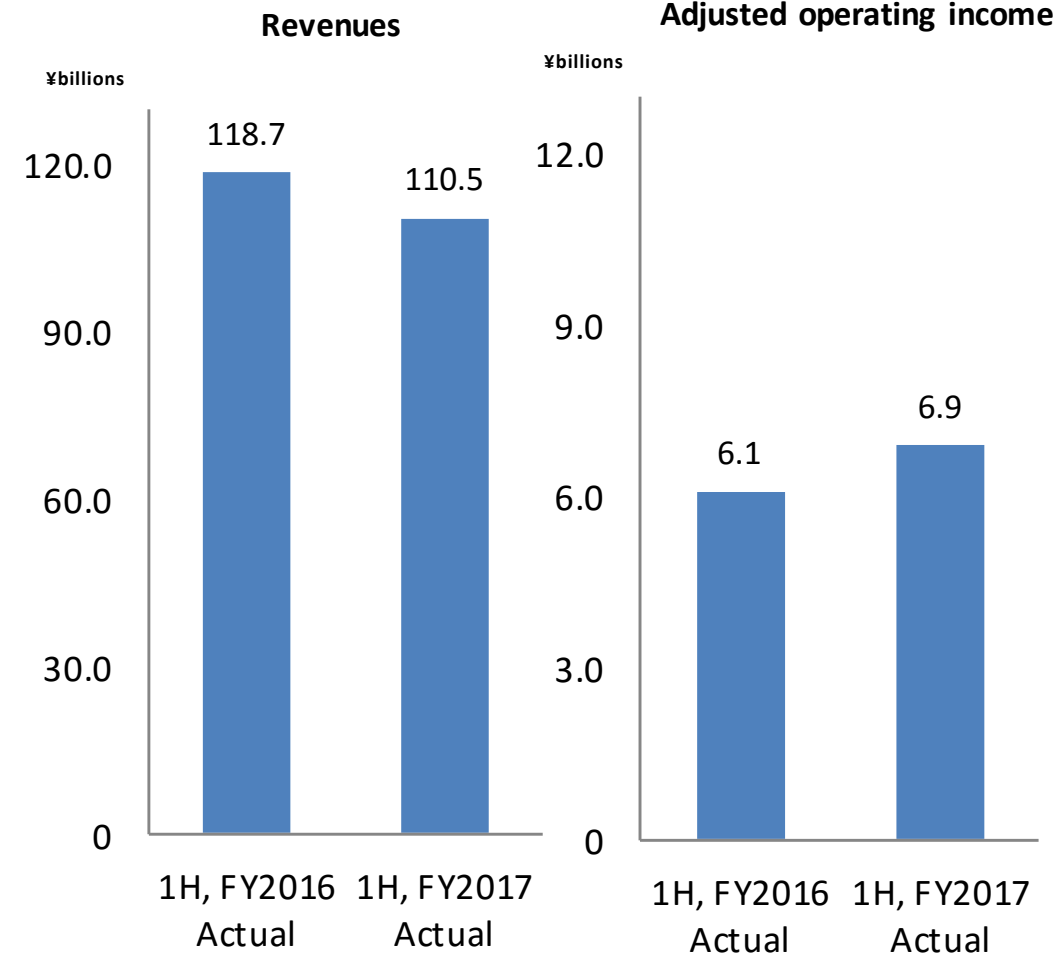
[Electric wires and cables]

Sales of wires and cables for rolling stock grew significantly, mainly in China.

Sales of electric wires for semiconductor manufacturing equipment and working tools increased, and magnet wires for automobiles and industrial machinery also resulted in greater sales.

[High performance components]

- Automotive products: Demand for various sensors, harnesses for electric parking brakes and hybrid automobiles increased, and demand for brake hoses was also strong.
- Probe cables for medical use: Sales increased year on year due to increased demand in overseas countries.



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13. Operating Results by Segment: Wires, Cables, and Related Products (2)

(¥billions)		1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	Year-on-Year
Wires, Cables, and Related Products	Revenues	118.7	110.5	-7%
	Rolling stocks [□]			+26%
	Medical devices [□]			+18%
	Automotive electronic components [□]			+17%
	Adjusted operating income	6.1	6.9	+0.8
	Adjusted operating margin	5.1%	6.2%	+1.1%
	Operating income of the segment	5.4	2.8	-2.6

□ Indicates the change in revenues calculated by a simplified method.

14. Assets, Liabilities, and Net Assets

(¥billions)	March 31, 2017 US\$1 = ¥112 1 euro = ¥120 1 yuan = ¥16.3	September 30, 2017 US\$1 = ¥113 1 euro = ¥133 1 yuan = ¥17.0	Change
Total assets	1,040.4	1,073.1	+32.7
Trade receivables and inventories	329.1	371.1	+42.0
Total liabilities	491.6	506.4	+14.8
Interest-bearing debt	194.5	195.4	+0.9
Equity attributable to shareholders of the parent company	536.6	553.3	+16.7
Non-controlling interests	12.2	13.4	+1.2
Equity attributable to shareholders of the parent company ratio	51.6%	51.6%	—
D/E ratio	0.36	0.35	-0.01

[Assets] Change from March 2017: +¥32.7 billion ⇒ Increase in trade receivables and inventories, etc.

[Liabilities] Change from March 2017: +¥14.8 billion

[D/E ratio] Largely flat

15. Consolidated Cash Flows

(¥billions)	1H, FY2016 Business Performance	1H, FY2017 Business Performance	Year-on-Year
Cash flows from operating activities	35.2	12.0	-23.2
Cash flows from investing activities	-26.0	-38.4	-12.4
Free cash flows	9.2	-26.4	-35.6
Core free cash flows*	6.6	-27.6	-34.2

[Cash flows from operating activities]

Increases in trade receivables and inventories, among other factors, despite an increase in net income, resulted in a net cash outflow of ¥23.2 billion compared to 1H, FY2016.

[Cash flows from investing activities]

Purchase of property, plant and equipment increased (1H, FY2016: ¥27.3 billion → 1H, FY2017: ¥39.1 billion), causing a net cash outflow of ¥12.4 billion compared to 1H, FY2016.

[Free cash flows]

Decreased by ¥35.6 billion due to a net cash outflow of cash flows from operating activities and an increase in investing activities.

*Core free cash flows: (Cash flows from operating activities) – (Capital expenditure)

16. FY2017 Results Forecast: Main Managerial Indicators

(¥billions) Adjusted operating margin in brackets	FY2016 Business Performance US\$1=¥108	1H, FY2017 Business Performance US\$1 = ¥111	FY2017 Forecast Assuming US\$1 = ¥110
Revenues	910.5	482.4	950.0
Adjusted operating income	[7.2%] 66.0	[6.7%] 32.2	[8.4%] 80.0
EBIT	68.5	29.1	66.0
Income before income taxes	66.0	28.0	63.0
Net income*1	50.6	19.6	45.0
ROE*2	9.4%	—	8.1%
ROA*3	4.9%	—	4.3%

- Increase in demand for key products (molds and tool steel, materials for industrial equipment, magnetic materials, etc.)
- Recovery in alloys for electronic products, robust sales of new products
- Solid efforts in price adjustments, strengthening of price strategy

*1 Net income attributable to owners of parent

*2 Return on equity attributable to owners of the parent company ratio (ROE) = Net income attributable to owners of the parent company / Term-end equity attributable to owners of the parent company x 100

*3 Return on total assets (ROA) = Net income attributable to owners of the parent company / term-end total assets x 100

17. Revenues & Adjusted Operating Income by Segment

(¥billions)		FY2016 Business Performance (US\$1=¥108)	1H, FY2017 Business Performance (US\$1=¥111)	FY2017 Forecast (US\$1=¥110)
Specialty Steel Products	Revenues	243.2	141.0	290.0
	Adjusted operating income	23.5	13.5	30.0
	Adjusted operating margin	9.7%	9.6%	10.3%
Magnetic Materials and Applications	Revenues	99.8	52.1	110.0
	Adjusted operating income	9.3	4.8	11.5
	Adjusted operating margin	9.3%	9.2%	10.5%
Functional Components and Equipment	Revenues	333.5	178.4	340.0
	Adjusted operating income	17.5	6.2	21.5
	Adjusted operating margin	5.2%	3.5%	6.3%
Wires, Cables, and Related Products	Revenues	232.9	110.5	210.0
	Adjusted operating income	14.7	6.9	17.0
	Adjusted operating margin	6.3%	6.2%	8.1%
Other & Adjustments	Revenues	1.1	0.4	0
	Adjusted operating income	1.0	0.8	0
Total	Revenues	910.5	482.4	950.0
	Adjusted operating income	66.0	32.2	80.0
	Adjusted operating margin	7.2%	6.7%	8.4%

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Reference Data (1)

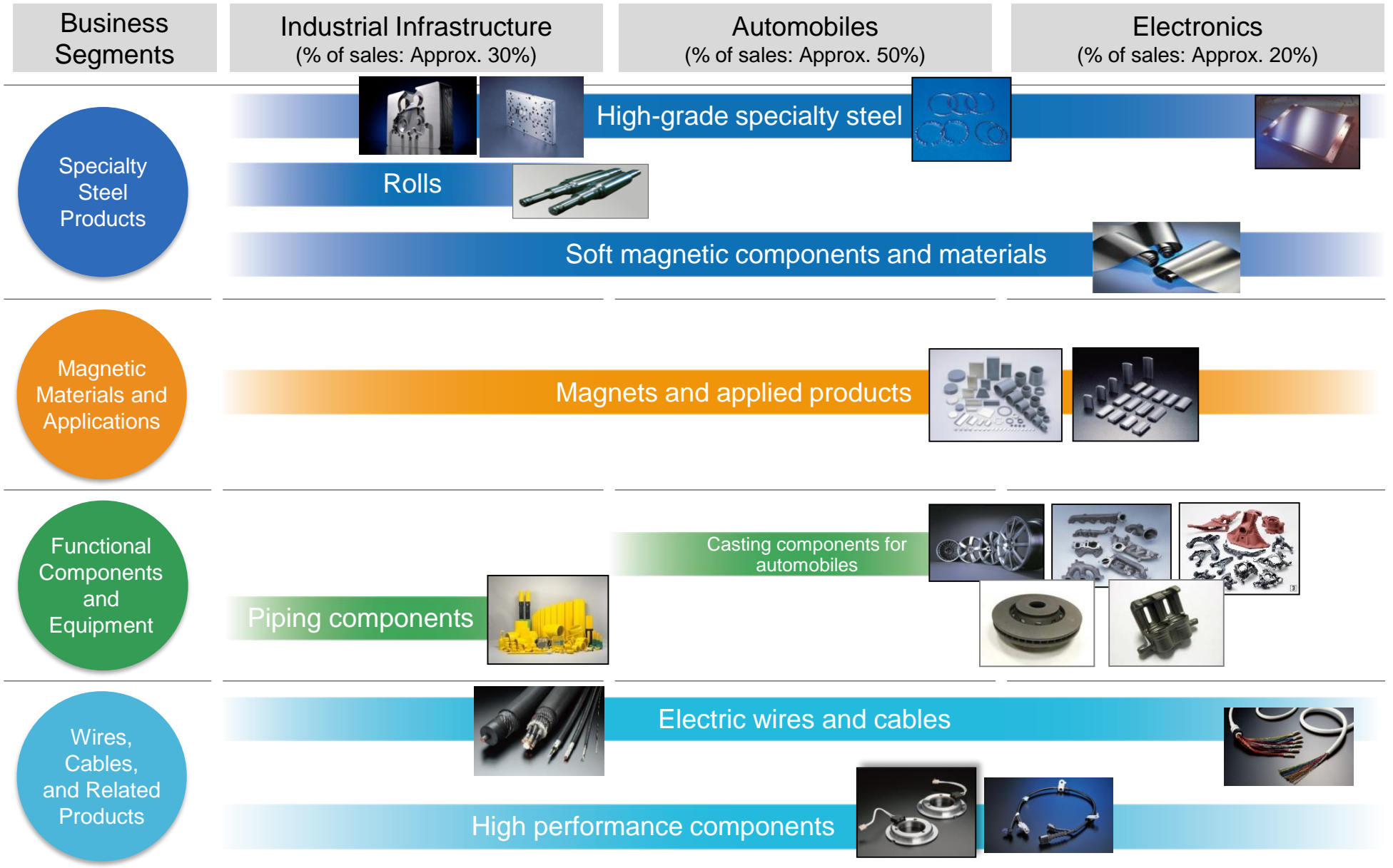
(¥billions)	FY2015 Business Performance US\$1 = ¥120	FY2016 Business Performance US\$1 = ¥108 1 euro = ¥119 1 yuan = ¥16.1	1H, FY2016 Business Performance US\$1 = ¥105 1 euro = ¥118 1 yuan = ¥15.9	1H, FY2017 Business Performance US\$1 = ¥111 1 euro = ¥126 1 yuan = ¥16.4	FY2017 Forecast US\$1 = ¥110
Revenues	1,017.6	910.5	446.1	482.4	950.0
Adjusted operating income	76.1	66.0	31.0	32.2	80.0
Adjusted operating margin	7.5%	7.2%	6.9%	6.7%	8.4%
Other income	36.4	14.1	2.8	2.1	
Other expenses	-12.5	-11.8	-5.0	-7.5	
IFRS operating income	100.0	68.3	28.8	26.8	
EBIT	99.1	68.5	26.0	29.1	66.0
Income before income taxes	96.2	66.0	24.8	28.0	63.0
Net income attributable to shareholders of the parent company	69.1	50.6	18.3	19.6	45.0
Interest-bearing debt	220.4	194.5	212.0	195.4	
Capital spending	59.6	63.8	25.8	38.9	90.0
Depreciation	42.9	43.0	21.2	22.7	47.0
R&D expenses	19.1	18.0	9.5	8.0	20.0
D/E ratio (times)	0.44	0.36	0.44	0.35	0.30
Earnings per share (yen)	161.50	118.32	42.89	45.94	105.24
Dividend per share (yen)	26.0	26.0	13.0	13.0	26.0
Equity per share attributable to shareholders of the company (yen)	1,159.7	1,254.9	1,133.7	1,294.1	1,333.1
Employees	29,157	28,754	28,772	29,831	29,500
ROE	13.9%	9.4%			8.1%
ROA	6.7%	4.9%			4.3%
Overseas sales ratio	56%	56%	55%	57%	56%

Reference Data (2)

Major products' volume trends (weight basis) (1H, FY2017)


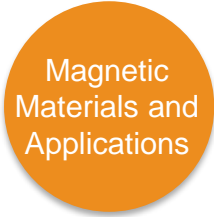


Product		Year-on-Year
Specialty Steel Products	Molds and tool steel	+8%
	CVT belt materials	+12%
	Piston ring materials	+16%
Magnetic Materials and Applications	Rare earth magnets	+10%
Functional Components and Equipment	Cast iron products	+2%
	Heat-resistant casting components (HERCUNITE™)	+51%
	Aluminum wheels (number)	-22%

(For Reference) Business Operations by Market



(For reference) Hitachi Metals: Description of Business Segments (April 1, 2017 onward)

■ Business Operations

Business segments	Business	Principal Products
 <p>Specialty Steel Products</p>	Specialty Steel Company	
	Specialty steel	YASUGI SPECIALTY STEEL brand high-grade specialty steel products (molds and tool steel, alloys for electronic products [display-related materials, semiconductor and other package materials, and battery-related materials], materials for industrial equipment [automobile-related materials, and razor blade materials], aircraft- and energy-related materials, and precision cast components)
	Rolls	Rolls for steel mills, structural ceramic products, injection molding machine parts, and steel-frame joints for construction
	Soft magnetic components and materials	Soft magnetic materials (Metglas® amorphous metals; FINEMET® nanocrystalline magnetic materials; and soft ferrite) and applied products
 <p>Magnetic Materials and Applications</p>	Magnetic Materials Company	
	Magnets and applied products	Magnets (NEOMAX® rare-earth magnets; ferrite magnets; and other magnets and applied products) Ceramic components
 <p>Functional Components and Equipment</p>	Functional Components Company	
	Casting components for automobiles	Casting components for automobiles (HNM™ high-grade ductile cast iron products, cast iron products for transportation equipment, and HERCUNITE™ heat-resistant exhaust casting components) and SCUBA™ aluminum wheels and other aluminum components
	Piping components	Piping and infrastructure components (Gourd™ Gourd brand pipe fittings, stainless steel and plastic piping components, water cooling equipment, precision mass flow control devices, and sealed expansion tanks)
 <p>Wires, Cables, and Related Products</p>	Cable Materials Company	
	Electric wires and cables	Industrial cables, electronic wires, electric equipment materials, and industrial rubber products
	High performance components	Cable assemblies, automotive electronic components, and brake hoses

This document contains forward-looking statements, such as results forecasts, management plans and dividend forecasts, that are not historical facts.

All such forward-looking statements are based upon all available information and upon assumptions and projections that were deemed reasonable at the time the Company prepared this document.

Changes to the underlying assumptions or circumstances could cause the actual results to differ substantially. The factors causing such differences include, but are not limited to, the following:

- **Changes in economic conditions and regulations in the main markets where the Company operates, particularly Japan, the Americas, Asia and Europe**
- **Sudden changes in technological trends**
- **Changes in competitive advantage and the capabilities of the Company and its subsidiaries and affiliates to develop and commercialize new products and technologies**
- **Fluctuations in the status of product markets, exchange rates and international commodity markets**
- **Changes in the financing environment**
- **The capability of the Company and its subsidiaries and affiliates to cope with fluctuations in product supply and demand, the status of product markets, exchange rates and international commodity markets**
- **Protection of the Company's intellectual property, and securing of licenses to use the intellectual property of other parties**
- **Changes in the status of alliances with other parties for product development, etc.**
- **Fluctuations in Japanese stock markets**