

FY2016 Financial Results (Ended March 20, 2017)

FY2017 Financial Forecasts (Ending February 28, 2018)

YASKAWA ELECTRIC CORPORATION (TSE6506)

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The information within this document is made as of the date of writing. Any forward-looking statements are made according to the assumptions of management and are subject to change as a result of risks and uncertainties. YASKAWA Electric Corporation undertakes no obligation to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise.

Figures in this document are rounded off, and may differ from those in other documents such as financial results.

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Business Overview

Motion Control (M)

[Core products]

- AC servo motors and controllers
- Linear servo motors
- AC drives
- Power conditioners
- Motor drive systems for EV etc.



AC servo motoi 'Σ-7" series



General purpose AC drive "Zero series"



PV inverter for photovoltaic power generation



Motor drive system for EV

Robotics (R)

[Core products]

- Industrial Robots
 - Arc and spot welding robots, Painting robots
 - FPD glass sheet transfer robots, New generation robots, Handling robots,
- Semiconductor wafer transfer robots
- Biomedical robots
- Cooperative robots etc.



System Engineering (S)

[Core products]

- Electrical systems for steel plants
- Electrical instrumentation systems for water supply plants and sewage treatment facilities
- Large-scale wind power generator and converter etc.



Large-scale wind turbine and converter



Continuous-casting machine



Electrical instrumentation systems for water and sewerage

Other

[Core products]

- IT-related services
- · Logistics, etc.

1. FY2016 Financial Results (Ended March 20, 2017)

FY2016 Financial Results (Highlights)

Sales and income declined year on year because of the strong yen.

	FY2016 Results	FY2016 Forecasts	FY2015 Results	Chang Amounts	<u>es</u> <u></u> %
Net sales	¥ 394.9bn.	¥ 395.0bn.	¥ 411.3bn.	<u>-¥ 16.4bn.</u>	<u>-4.0%</u>
Operating income	¥ 30.4bn.	¥ 31.0bn.	¥ 36.7bn.	<u>-¥ 6.3bn.</u>	<u>-17.2%</u>
Ordinary income	¥ 32.0bn.	¥ 31.5bn.	¥ 35.8bn.	<u>-¥ 3.9bn.</u>	<u>-10.8%</u>
Profit attributable to owners of parent	¥ 20.4bn.	¥ 20.0bn.	¥ 22.4bn.	<u>-¥ 2.0bn.</u>	<u>-8.8%</u>

Notes: The figures of FY2016 forecasts were announced on January 23, 2017

FY2016 Financial Results by Business Segment (1)

- Sales and profits in (M) and (R) decreased due to the strong yen.
- Profitability of (S) improved with the sales growth in both existing and new businesses.

(Billions of yen)

		FY2016 FY2016		FY2015		Changes			
		Results	Income ratio	Forecasts	Income ratio	Results	Income ratio	Amounts	%
Net sa	ales	394.9	/	395.0		411.3		-16.4	-4.0%
(M)	Motion Control	183.3		182.0		187.5		-4.3	-2.3%
(R)	Robotics	140.0		140.0		154.1		-14.1	-9.1%
(S)	System Engineering	48.2		49.5		43.1		+5.1	+11.9%
	Other	23.4		23.5		26.6		-3.2	-12.0%
Opera	ting income	30.4	7.7%	31.0	7.8%	36.7	8.9%	-6.3	-17.2%
(M)	Motion Control	20.8	11.3%	20.9	11.5%	22.4	12.0%	-1.7	-7.4%
(R)	Robotics	10.3	7.3%	11.1	7.9%	15.3	9.9%	-5.1	-33.0%
(S)	System Engineering	0.9	1.9%	0.5	1.0%	-0.8	-1.8%	+1.7	-
	Other	-0.2	-0.8%	-0.3	-1.3%	0.9	3.2%	-1.0	-
	Elimination or Corporate	-1.3	_	-1.2	_	-1.1	_	-0.2	_
Ordin	ary income	32.0	8.1%	31.5	8.0%	35.8	8.7%	-3.9	-10.8%
Profit	attributable to owners of parent	20.4	5.2%	20.0	5.1%	22.4	5.4%	-2.0	-8.8%

Notes: The figures of FY2016 forecasts were announced on January 23, 2017

FY2016 Financial Results by Business Segment (2)

Motion Control

- AC servo sales were solid because of the continuing robust demand for capital expenditures in the smart phone-related industry in China.
- · Profitability significantly improved as the effect of local production in China.
- Drives business saw sluggish demand in the U.S. oil-related industry, and weak PV inverter sales for the Japanese market.

Robotics

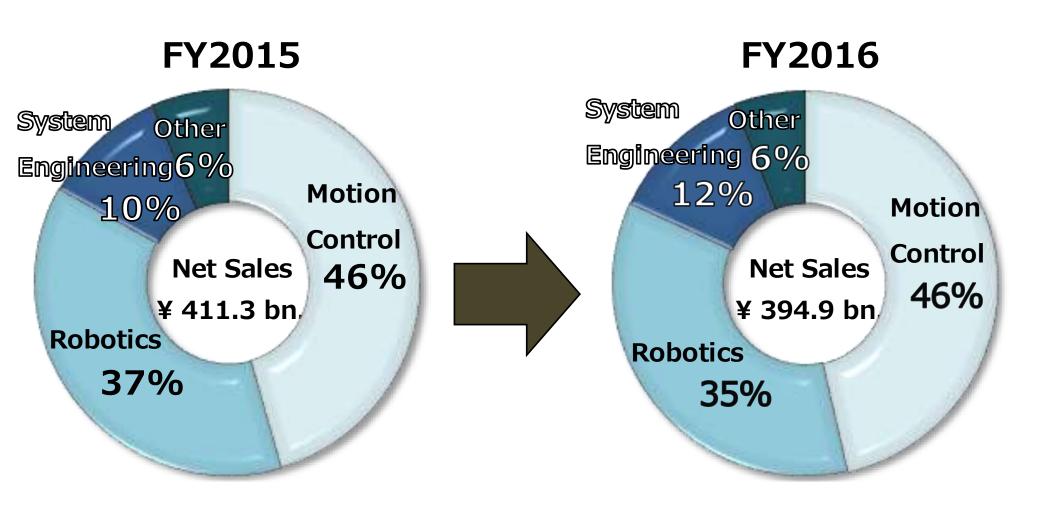
- Automobile-related business in Japan and Europe were solid.
- Sales for 3C* markets expanded in China
- Sales and income year on year decreased because of impact of the strong yen.

 computer, communication and consumer

System Engineering

- The profitability of the steel plant and social system business improved as we captured the demand for facility renovation.
- Sales related to large-scale wind turbine increased mainly in Europe and China.
- Sales increased from last year, and the segment turned profitable.

Sales Breakdown by Business Segment



Sales Breakdown by Destination (1)

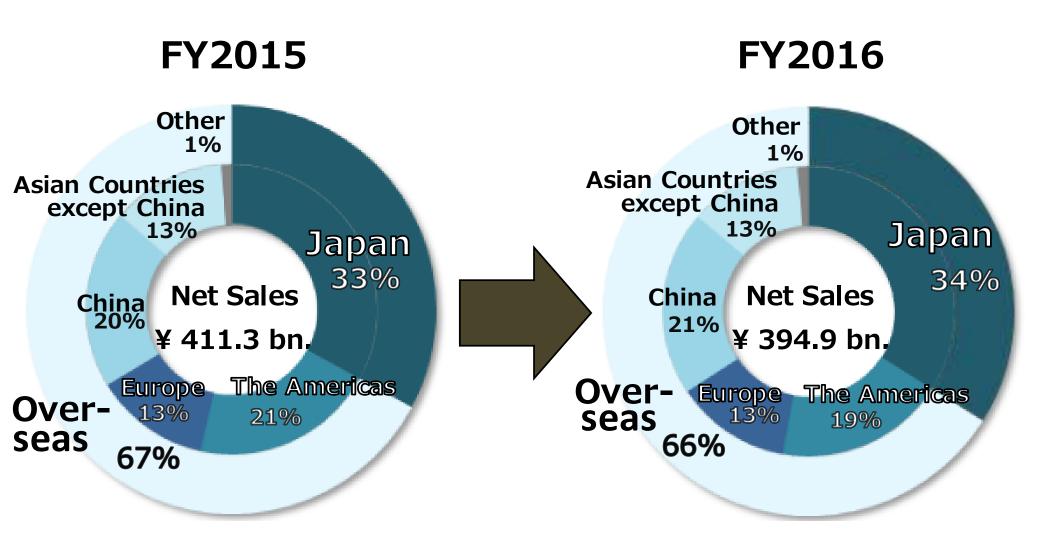
Overseas sales declined because of the strong yen.

(Billions of yen)

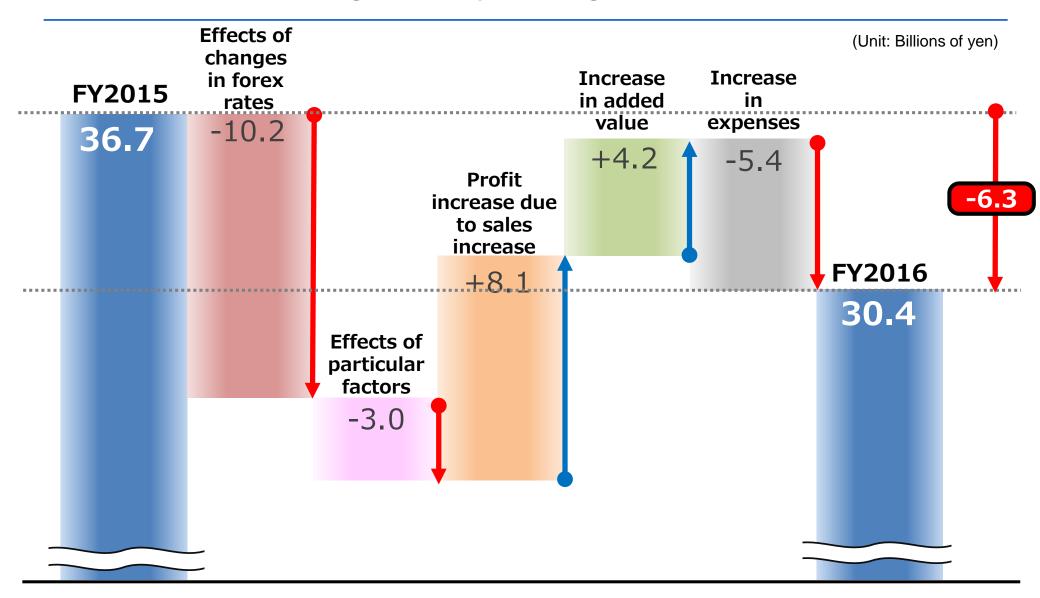
		FY2016	FY2015	Cha	anges
		F12010 F12015		Amounts	%
Ne	et sales	394.9	411.3	-16.4	-4.0%
	Japan	134.2	135.5	-1.3	-1.0%
	Overseas	260.7	275.8	-15.1	-5.5%
	The Americas	74.7	85.1	-10.4	-12.2%
	Europe	50.7	52.0	-1.3	-2.5%
	China	81.2	81.9	-0.7	-0.8%
	Asian Countries except China	49.8	52.4	-2.6	-4.9%
	Other	4.2	4.4	-0.2	-3.8%

Note: "Other" category includes Australia and South Africa, etc.

Sales Breakdown by Destination (2)

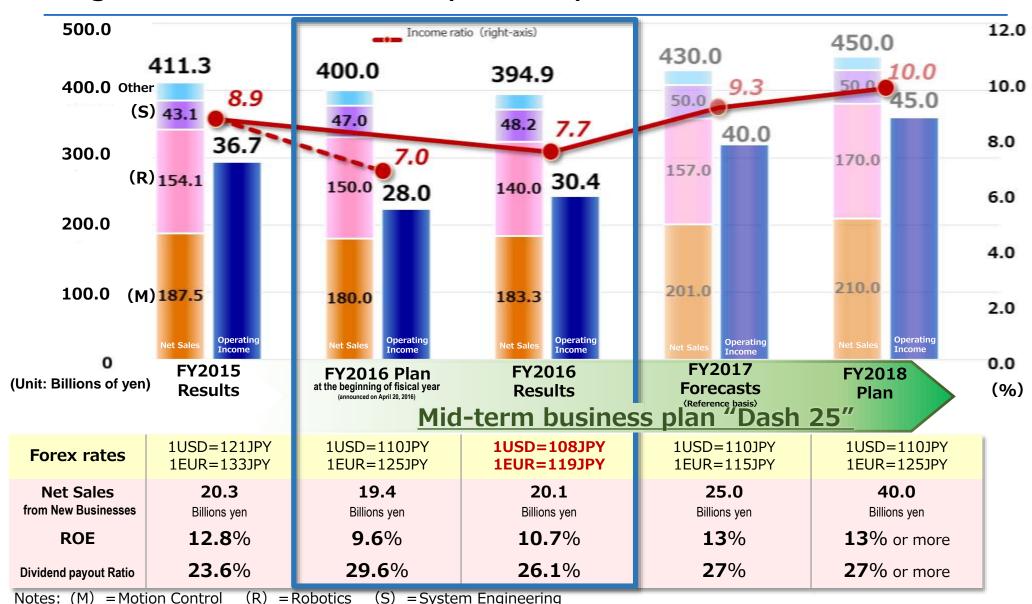


Breakdown of Changes in Operating Income (FY2015 → FY2016)



2. Mid-term business plan "Dash 25"

Progress in the First Year (FY2016)



Results and Challenges in the First Year (FY2016)

	Results	Challenges
Policy 1 Maximize results of the previous plan Realize100	Launch and sales expansion of new products • Enhanced Σ- 7 series line-up • Launched new AC drive and robot products Production and sales capabilities • Promoted local production → Establishment of a robot factory in Europe → Expansion of Shenyang plant (Both scheduled for operation in fiscal 2018)	Launch and sales expansion of new products · Sales expansion of new AC drive products · Sales expansion of new robot products Glocal development · Launch of new PV inverter to the global market
Policy 2 Build foundation for realizing Vision 2025	 Expansion of core business fields Enhanced application of AI and developed new products supporting IoT Strengthened system business for painting and sealing applications through alliance with Doolim Robotics of South Korea Challenge to new fields and business models Started full-fledged of venture investment Automation of food production Accelerated activities with a new cross-ectoral structure 	Expansion of core business fields • Development of robotics markets other than automotive Realization of Yaskawa Industrie 4.0 • Establishment of a next-generation plant for experiment Strengthening of components • Development of applications using cobots • Sales expansion of clean robots for semiconductor market Development of medical/welfare fields • Establishment of the business model and branding
Policy 3 Grow clean power into core business	Large-scale wind generation business • Expanded business by maximizing synergy with the Switch • Developed business into the marine field EV business • Established a joint venture with Chery	Large-scale wind generation business • Establishment of the high-volume production system for generators and converters PV inverter business • Sales expansion in emerging nations

3. FY2017 Financial Forecasts

Change in Accounting Period and Description of Forecasts

Change in accounting period

- · Change in accounting period from March 20 to the last day of February starting fiscal 2017
- Transitional fiscal 2017 is from March 21, 2017 to February 28, 2018 (Financial reporting basis)

FY 2017 (Financial reporting basis)						
1Q 2Q 3Q 4Q						
From March 21 to June 20	From June 21 to September 20	From September 21 to December 20	From December 21 to February 28			

Description of fiscal 2017 forecasts

•Forecast figures based on an assumption that the accounting period remains unchanged are shown for the purpose of apples-to-apples comparison with the results of fiscal 2016.

FY 2017 (Reference basis)						
	1Q 2Q 3Q 4Q					
	From March 21 to June 20	From June 21 to September 20	From September 21 to December 20	From December 21 to March 20		

FY2017 Financial Forecasts

Record sales and profits are forecast due to strong orders

	FY2017	FY2016	Chang	<u>ges</u>	
	Forecasts (Reference basis)	Results	<u>Amounts</u>	<u>%</u>	
Net sales	¥ 430.0bn.	¥ 394.9bn.	+¥ 35.1bn.	<u>+8.9%</u>	
Operating income	¥ 40.0bn.	¥ 30.4bn.	+¥ 9.6bn.	<u>+31.5%</u>	
Ordinary income	¥ 41.0bn.	¥ 32.0bn.	<u>+¥ 9.0bn.</u>	+28.3%	
Profit attributable to owners of parent	¥ 27.0bn.	¥ 20.4bn.	+¥ 6.6bn.	+32.4%	

FY2017 Financial Forecasts by Business Segment

Increase in sales and profits are projected

(Unit: Billions of yen)

		FY2	FY2017		FY2016		inges
		Forecasts (Reference basis)	Income ratio	Results	Income ratio	Amounts	%
Net sa	ales	430.0		394.9		+35.1	+8.9%
(M)	Motion Control	201.0		183.3		+17.7	+9.7%
(R)	Robotics	157.0		140.0		+17.0	+12.1%
(S)	System Engineering	50.0		48.2		+1.8	+3.7%
	Other	22.0		23.4		-1.4	-5.9%
Opera	ating income	40.0	9.3%	30.4	7.7%	+9.6	+31.5%
(M)	Motion Control	27.1	13.5%	20.8	11.3%	+6.3	+30.6%
(R)	Robotics	13.4	8.5%	10.3	7.3%	+3.1	+30.7%
(S)	System Engineering	1.2	2.4%	0.9	1.9%	+0.3	+34.5%
	Other	-0.3	-1.4%	-0.2	-0.8%	-0.1	=
	Elimination or Corporate	-1.4	-	-1.3	_	-0.1	=
Ordin	ary income	41.0	9.5%	32.0	8.1%	+9.0	+28.3%
Profit	attributable to owners of parent	27.0	6.3%	20.4	5.2%	+6.6	+32.4%

Impact of change in accounting period

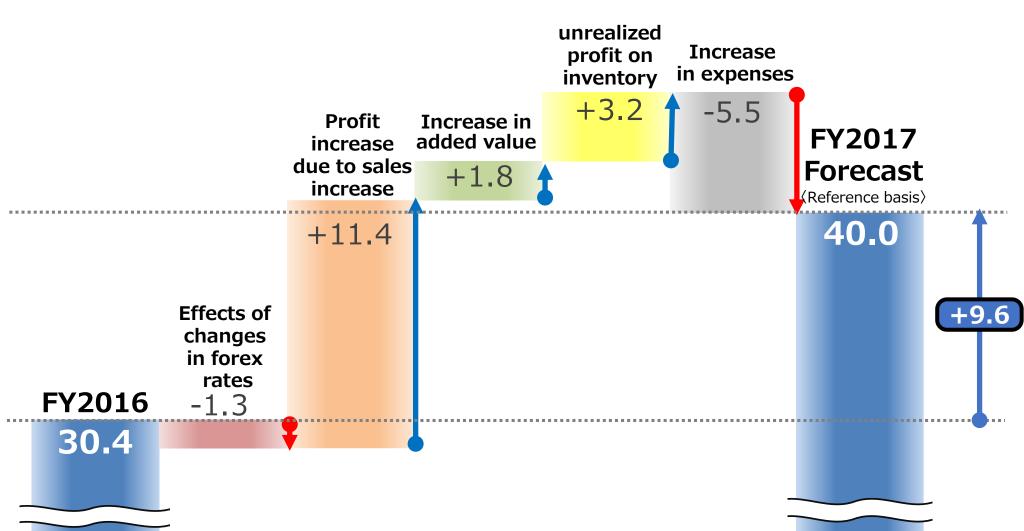
Impact of change in accounting period from March 20 to the last day of February

		Before Change		
FY20	017 Financial Forecasts	1H	2H	Full-year
	(Unit: Billions of yen)	Forecasts	Forecasts	Forecasts
Net	Sales	213.5	216.5	430.0
(M)	Motion Control	101.5	99.5	201.0
(R)	Robotics	77.0	80.0	157.0
(S)	System Engineering	24.5	25.5	50.0
***************************************	Other	10.5	11.5	22.0
Opera	ating Income	19.7	20.3	40.0
(M)	Motion Control	14.3	12.8	27.1
(R)	Robotics	6.6	6.8	13.4
(S)	System Engineering	-0.3	1.5	1.2
	Other	-0.2	-0.1	-0.3
	Elimination or Corporate	-0.7	-0.7	-1.4
Ordinary Income		20.2	20.8	41.0
Profit a	attributable to owners of parent	13.3	13.7	27.0

After Change				
2H	Full-year	Changes		
Forecasts	Forecasts	Changes		
200.5	414.0	-16.0		
96.0	197.5	-3.5		
76.5	153.5	-3.5		
17.5	42.0	-8.0		
10.5	21.0	-1.0		
17.3	37.0	-3.0		
12.3	26.6	-0.5		
6.1	12.7	-0.7		
-0.2	-0.5	-1.7		
-0.2	-0.4	-0.1		
-0.7	-1.4	0.0		
17.8	38.0	-3.0		
11.7	25.0	-2.0		

Breakdown of Changes in Operating Income (FY2016 → FY2017 Forecast)

(Billions of yen)



Measures for FY2017 (1)

- Profitability improvement in core businesses
 - Sales expansion by concentrating resources on priority markets
 - **→** Expansion of robotics sales to automobile and 3C markets
 - Sales expansion to automobile by enhancing alliance
 - Expansion of market share in 3C by increasing human resources

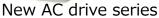


- Acceleration of business creation in the food sector
- Enhancement of strategy to capture semiconductor market
- Development of new markets and new business fields
 - **→**Expansion of lineup of new AC drive products
 - Capturing the Chinese market with products specialized for cranes and other applications
 - → Creation of new applications with cobots and small six-axis robots
 - Sales expansion to machine builders by utilizing the sales network of AC servo business
- Expansion of market share and profitability in the existing business areas
 - → Acceleration of the switch to the new models of AC drives and robots
- Continuous evolution of development, production and sales capabilities
 - Reification of Yaskawa Industrie 4.0 using IoT and AI
 - → Finalize concept for Solution Factory enabling the next-generation build-to-order production

Matrix converter U1000



Cohot





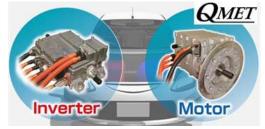
Measures for FY2017 (2)

- Expansion of clean power business
 - Order growth for the electric products for large-scale wind turbine
 - → Continue sales expansion in China and Europe with The Switch
 - → Secure orders for the next-generation volume-production models
 - Global development of PV inverter business
 - → Launch and sales expansion of new product for the global market
 - Start up of Chery Yaskawa E-Drive System Co., Ltd. in China
 - Order expansion for marine drive systems
 - → Sales expansion by creating synergy with Wärtsilä (Finland)
- Promotion of new business
 - Enhance collaboration in the medial, nursing care, and welfare business
 - Full-fledged implementation of venture investments





Converter and generator for large-scale wind turbine



Electric powertrain system for EVs



Information site for venture investment opened.

4. Reference

Capital Expenditure, R&D Investment, Forex Rates

◆Capital expenditure (Consolidated)

(Unit:Billions of yen)

	FY2015	FY2016	FY2017 Plan
Capital Expenditure	16.8	14.9	20.0
Depreciation and Amortization	13.1	12.1	13.0

♦R&D investment (Consolidated)

(Unit:Billions of ven)

			(0
	FY2015	FY2016	FY2017 Plan
R&D investment	16.8	18.0	18.0

♦Forex rates (Consolidated)

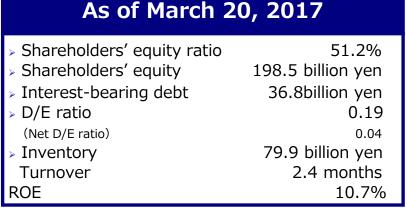
(Unit: Yen)

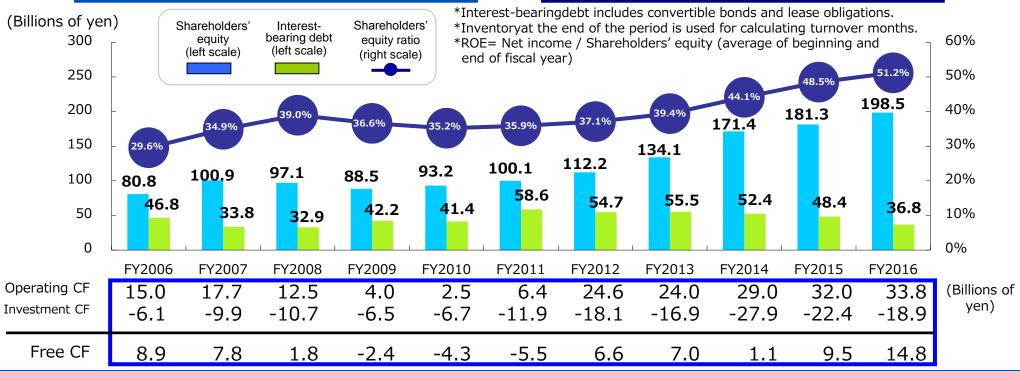
		FY2015			FY2016		FY2017 Forecasts
	1H	2H	Full-year	1H	2H	Full-year	Full-year
U.S. dollar	121.9	119.8	120.8	107.1	109.6	108.4	110.0
Euro	134.3	131.8	133.0	120.0	118.4	119.2	115.0

Note: Average rate during the period

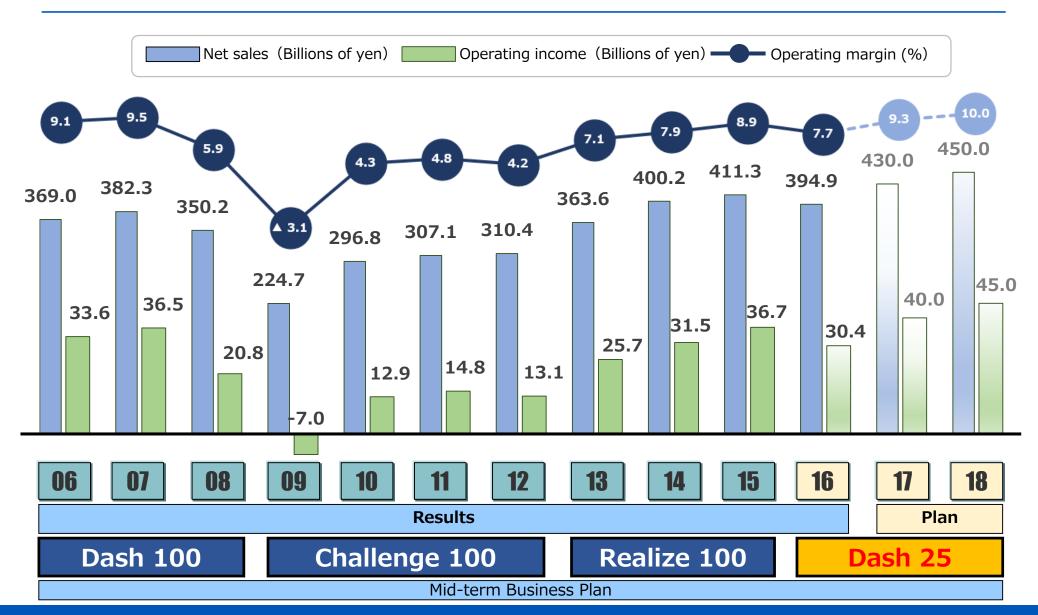
Financial Indices

As of March 20, 2016 Shareholders' equity ratio 48.5% Shareholders' equity 181.3 billion ven Interest-bearing debt 48.5 billion yen D/E ratio 0.27 (Net D/E ratio) 0.09 77.5 billion yen Inventory 2.3 months Turnover ROE 12.8%

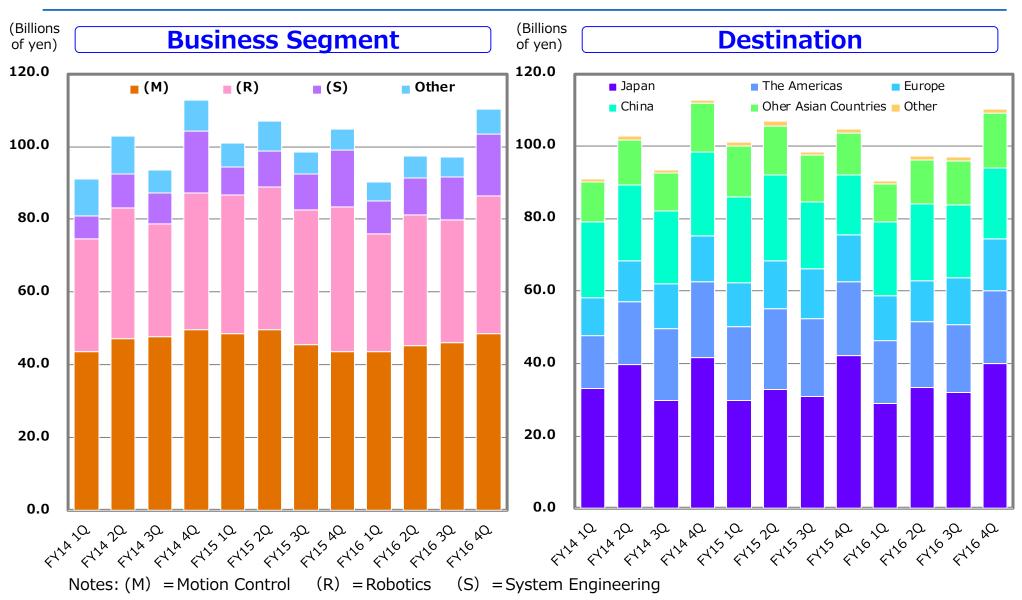




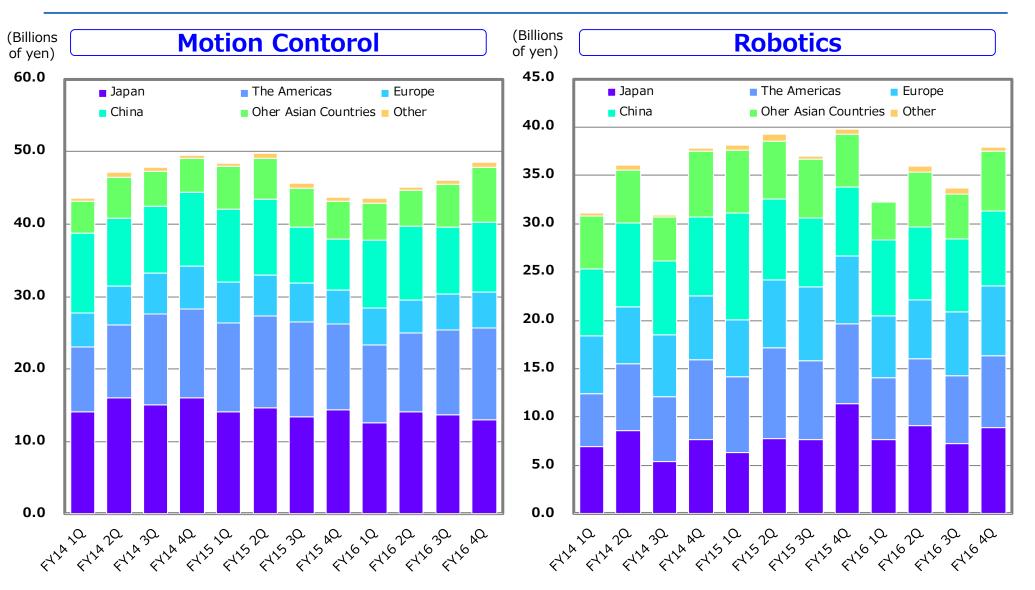
Net Sales/Operating Income (FY2006-2018 Plan)



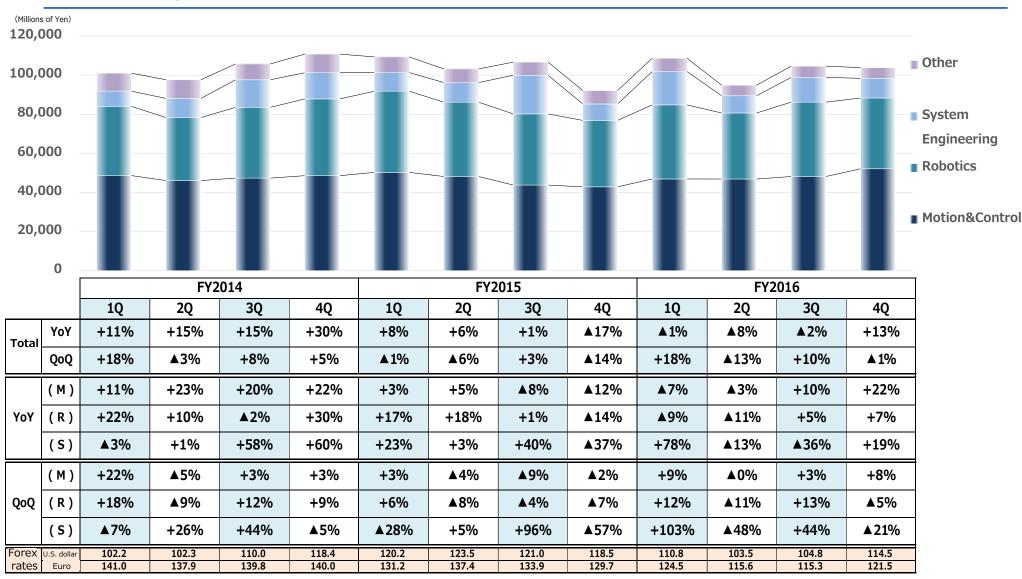
Quarterly Sales Trends (1)



Quarterly Sales Trends (2)



Quarterly Order Trends



Notes:

(M) = Motion Control

(R) = Robotics

(S) = System Engineering

Major Production Bases



YASKAWA Europe GmbH Robotics Div. Germany



YASKAWA (China) Robotics Co., Ltd China



2.05年1年第1年第公司 1.05年1年第1年第公司

YASKAWA Electric (Shenyang) Co., Ltd

YASKAWA Nordic AB Sweden

YASKAWA SHOUGANG ROBOT CO.,LTD. China

YASKAWA Ristro d.o.o.
Slovenia
YASKAWA Robotics India Ltd.

∕lndia

YASKAWA India Private Ltd.
India



Shanghai Yaskawa Drive Co., Ltd.
China



Yaskawa Electric Corp.

[Production bases in Japan]
- Yahata-nishi Plant (Yaskawa
Robot Center)

- -Yahata-higashi Plant
- -Yukuhashi Plant (Drive Center) System Engineering Center)
- -Iruma Plant (Solution Center)
- -Nakama Plant



YASKAWA America, Inc. Drives&Motion Div.

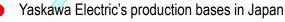


YASKAWA Canada, Inc.



YASKAWA America, Inc. Motoman Robotics Div. U.S.





Major overseas production bases



Brazil

YASKAWA