For New Technology Network



Consolidated Financial Results for the First Half of FY2016

November 7, 2016

NTN Corporation

Contents



I. Progress of Medium-term Management Plan "NTN 100"

II. Financial Results for First Half and Forecast for FY2016

- This presentation and comments made in this conference or during the following Q&A session include forward-looking statements about future performance and future business strategies, all of which are based on decisions of the management of the Company currently available.
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 by these statements or comments. Actual results may differ materially from Management projections depending on various
 factors such as changes in product demand, exchange rates and interest rates, and contingent liabilities.



I . Progress of Medium-term Management Plan "NTN 100"

II. Financial Results for First Half and Forecast for FY2016

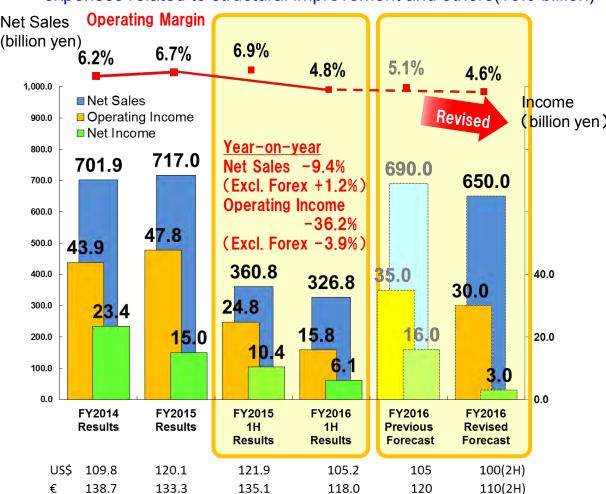
Changes in Consolidated Financial Results for FY2016 First Half and FY2016 Forecast



In First Half, decrease of net sales and operating income year-on-year (Exclude exchange rates, increase of net sales and operating income.

We revised Full year forecast expected to decline of demand, strong yen effect,

expenses related to structural improvement and others(¥9.0 billion)



FY2016 First Half (Year-on-year) Net Sales: ¥326.8 billion(-9.4%)

Operating Income:

¥15.8 billion(-36.2%)

Operating Margin: 4.8%

Net Income: ¥6.1 billion(-41%)

First-half dividend: ¥5

Revised FY2016 Forecast

(Compared with Previous Forecast)

Net Sales:¥690.0 billion

 \rightarrow ¥650.0 billion (-5.8%)

Operating Income:¥35.0 billion

→ ¥<u>30.0 billion</u> (-14.3%)

Operating Margin: 4.6%

Net Income:¥16.0 billion

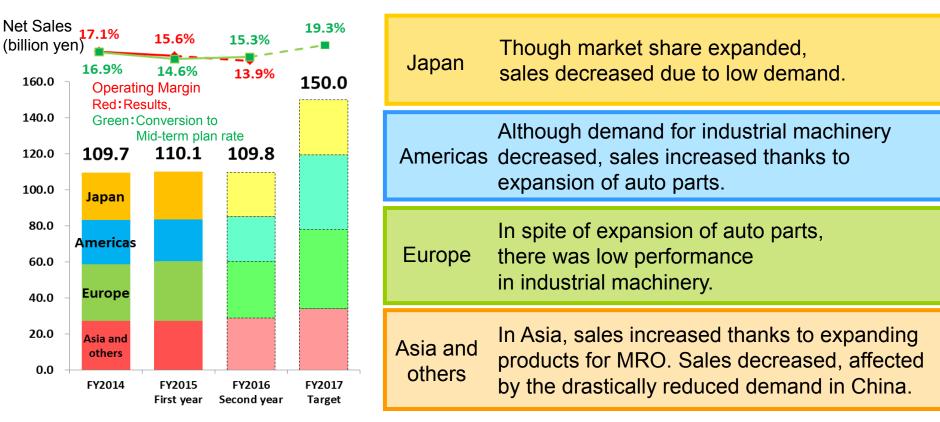
→ ¥3.0 billion (-81.3%)

Annual dividend:¥12→ ¥10

Aftermarket Business



<Progress (Volume base) > Global share reached 2 digits%



<Issues and Initiatives>

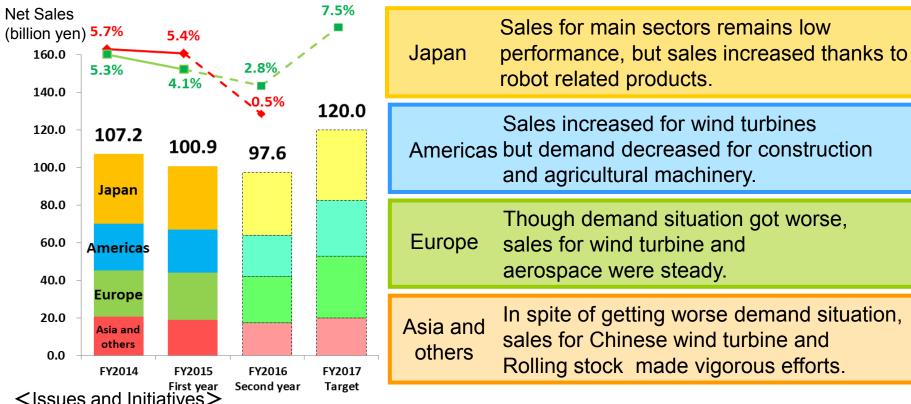
- · Decreased basic sales in main market accompanied by decreased demand
- Strengthen initiatives for MRO that is less effected by the economic environment

Industrial Machinery Business



Progress (Volume base) > Sign of recovery in main sectors was not seen





- Expand sales for fields of wind turbine, rolling stock, aerospace and robot where growth is expected in the medium to long term by reorganization of engineering divisions
- Expand sales for sectors with low share, by utilizing NTN's original technologies such as composite material products, CMS or others

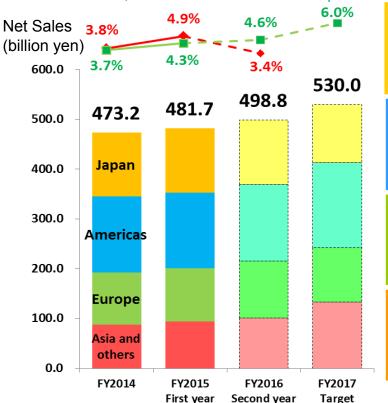
Automotive Business



Progress (Volume base) > Both sale and income transited as we planned.



Red:Results, Green:Conversion to Mid-term plan rate



Japan Though automotive production volume decreased, sales tended to increase.

Americas Sales increased well for pickup trucks and SUVs.

Europe Sales for main customers transited well.

Asia and others

Sales significantly increased thanks to effects of tax reduction for compact car, securement of new development orders in China.

<Issues and Initiatives>

- Setting sales activity aiming at improvement of profitability into action, and smooth launch of new development orders
- Continuing activities to expand profits of driveshaft

EV (related) business



Expansion of "Electric Module Products" adjustment to electrification of automobiles

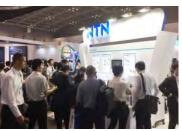
- → Aiming to establish new source of earnings after driveshaft and hub bearing
- 1. Launch of the "Electric Motor and Actuator" which is essential for by-wire control Can be used for electrification of many control devices such as engine and transmission





electrification of control





Many inquiries received at "Automotive Engineering Exposition 2016 Yokohama"

2. Features of NTN's "Electric Module Products" compared with other company's products are that high versatility and compact realized with NTN's original technologies.



Parallel Shaft Type, Coaxial Hollow Type and so on



high versatility (series by standardization)



Down-sizing (thin model)

Sales are expected to be ¥30 billion in FY2025

Natural Energy Business



Progress of Natural Energy Business

 Develop business in new areas by using the innovative "blade" technology Promoting commercialization of business in the area of natural energy Wind Turbine, Hydro Turbine, Electricity Storage

2. Develop natural energy products (BtoC products)

"Hybrid Street Lights": Released in July 2016

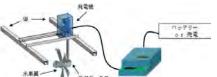
"NTN Micro Hydro Turbine": Scheduled for release in December 2016(★)

"Compact Wind Turbine": Scheduled for release in early 2018(★)









"NTN Micro Hydro Turbine" (Demonstration Test in Asaka-Sosui)

' "Compact Wind Turbine"(10kW)
(Plan to acquire NK Certification)



"Hybrid Street Lights" (on sale)

blade shape that does

not generate any

swooshing sounds,

Strengthening the Management Foundation



Progress of Global Control and Enhancement of Risk Management

1. Promote Supply Chain CSR

- Responding to social issues such as Human Rights, Labour, Environment and Anti-Corruption etc.
 *Supporting to United Nations Global Compact
- Based on Basic Procurement Policy, Requesting response through briefing and Website to our business partner
 - **★**Seek the cooperation based on CSR procurement Guidelines and NTN's Green Procurement Standards
 - ★ Confirm our products are not associated with conflict minerals and seek out manufacturing methods that avoid the use of conflict minerals

2. Ensure compliance

- Ensure compliance by Compliance Committee, Fair Trade Monitoring Committee
- Conduct compliance and management training to employees transferring overseas and managers of subsidiaries
- Hold "CSR Global Meeting" with the Internal Control Sections from each region to strengthen internal control globally



CSR Global Meeting

3. Strengthen risk management

- Build a database and prevent risks globally at the "Risk Management Committee"
- Develop "Business Continuity Plan" and promote "Business Continuity Plan Management"

4. Invest to strengthen the Manage Foundation

•Investment for intangible fixed assets for IT System Restructuring of ¥7.5 billion

Strengthening of the Financial Foundation: Results and Forecast NTN®



1 Strongthon asset officionay	FY2015	FY2016	FY2017	
Strengthen asset efficiency	Result	Full year forcast	NTN 100 3-year period	
Reduction of interest-bearing debt (excluding foreign exchange	¥ 26.2 billion reduction	¥ 12.3 billion reduction	¥ 60.0 billion reduction / 3 years	
Inventory reduction (inventory turnover)	4.0 times / year	4.0 times / year	4.5 times / year	
Capital expenditure	¥ 36.3 billion	¥ 36.3 billion		
Sale of assets	Sale	of assets with no prospectiv	e use	
FCF	¥ 12.5 billion	¥ 17.0 billion	¥ 67.0 billion / 3 years	
Equity to capital ratio	29.2%	27.8%	30.0% or more	
Net D/E ratio	1.1	1.2	1.0 or less	
ROE	6.3%	1.4%	Over 14%	

2. Improvement of the profit margin	FY2015	FY2016	FY2017	
on sales	Result	Full year forcast	NTN 100 3-year period	
Operating margin	6.7%	4.6%	8.8%	

3. Shareholder return	FY2015	FY2016	FY2017	
3. Shareholder return	Result	Full year forcast	NTN 100 3-year period	
Dividends	Annual ¥10	Annual ¥10	-	
	Dividend payout ratio of 35%	Dividend payout ratio of 177%	Dividend payout ratio of 30% is basic idea	



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 - (2) Europe, Asia and others
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- 8. Interest-Bearing Debt
- 9. Capital Expenditure and Depreciation
- 10. Cash Flows

Financial Results for the First Half of FY2016: Key Factors



Results of FY2016 Second Quarter

- ♦ Net Sales: ¥326.8 billion
 - •Decrease of ¥33.9 billion, year-on-year (Excluding exchange rates: increase of ¥4.5 billion, increased by 1.2%)
- ♦ Operating Income: ¥15.8 billion
 - •Decrease of ¥9.0 billion, year-on-year (Excluding exchange rates : decrease of ¥1.0 billion, decreased by 3.9%)
- ♦ Ordinary Income: ¥11.5 billion
 - •Decrease of ¥6.5 billion year-on-year (Excluding exchange rates: increase of ¥1.2 billion, increased by 6.8%)
- ♦ Net income attributable to shareholder(parent company): ¥6.1 billion
 - •Decrease of ¥4.3 billion, year-on-year (Excluding exchange rates: increase of ¥0.8 billion, increased by 8.1%)
- ♦ Free Cash Flow: ¥13.7 billion, increase of ¥3.5billion, year-on-year
 - Exceeds of the previous forecast (¥10.0 billion) because of reduce inventory, suppress capital expenditure, and others

Financial Results for the First Half of FY2016: Key Factors



Revised FY2016 Full year forecast

- ♦ Net Sales: ¥650.0 billion, decrease of ¥40.0 billion compared with previous forecast. (¥690.0 billion)
 - Out of ¥40.0 billion, decrease of ¥24.2 billion is due to exchange rate.
 - · Net sales fell in each oversea countries excluding Japan.
- ♦ Operating income: ¥30.0 billion, decrease of ¥5.0 billion compared with previous forecast. (¥35.0 billion)
 - Out of ¥5.0 billion, decrease of ¥4.9 billion is due to exchange rate.
 - •By decreasing fixed cost, the amount of decreased income is reduced compared with previous forecast.
- ♦ Extraordinary losses: decrease of ¥9.0 billion.
 Extraordinary losses were not included with previous forecast
 - •Expenses related to structural improvement and others will be recorded in the 2nd half.
- ♦ Net income attributable to Shareholder (parent company): ¥3.0 billion, decrease of ¥13.0 billion compared with previous forecast. (¥16.0 billion)
- ♦ In regards to dividends, the Company plans annual ¥10 including an interim dividend of ¥5 and a year-end dividend of ¥5.
- ♦ Exchange-rate form the third quarter: 1USD = ¥100 (previous forecast, ¥105) and 1EURO = ¥110. (previous forecast, ¥120)
- ♦ Free Cash Flow: ¥17.0 billion, increased of ¥7.0 billion from previous forecast.

1. Consolidated Statements of Operation



(billion yen)

(billion yen)									
			FY2015				FY2016 Year on year		n year
		1H	2H	Full year	1H	Full year	FY2016 1H		
		Results	Results	Results	Results	Forecast	2-	·①	
		1			2		Excl.Forex	Forex	
Net	sales	360.8	356.2	717.0	326.8	650.0	4.5	-38.4	
_	rating come	24.8	23.0	47.8	15.8	30.0	-1.0	-8.0	
-	rating argin	(6.9%)	(6.4%)	(6.7%)	(4.8%)	(4.6%)	-	-	
Ordinar	y income	18.0	20.2	38.2	11.5	22.0	1.2	-7.7	
	ordinary ne/loss	-	-11.3	-11.3	-0.1	-9.0	-0.1	-	
attribu share	ncome table to holder company)	10.4	4.6	15.0	6.1	3.0	0.8	-5.1	
Exchange	US\$	121.9	118.4	120.2	105.2	102.6	-16.7	-	
rate	EURO	135.1	130.1	132.6	118.0	114.0	-17.1	-	

2. Net Sales by Region



(billion yen)

		FY2015	FY2016		
	1H	2H	2H	1H	Full year
	Results	Results	Results	Results	Forecast
	1			2	
Japan	94.6	94.9	189.6	92.8	187.5
Americas	108.2	104.4	212.5	93.4	184.5
Europe	84.7	84.4	169.0	75.2	149.0
Asia and others	73.3	72.6	145.9	65.5	129.0
Total	360.8	356.2	717.0	326.8	650.0

(billion yell)					
Year on year					
FY20	16 1H				
2	-①				
Excl.Forex	Forex				
-1.9	-				
0.3	-15.1				
1.8	-11.2				
4.3	-12.1				
4.5	-38.4				

3. Net Sales and Operating Income by Business Sector



<Net Sales by Business Sector>

(billion yen)

		FY2015	FY2016		
	1H	2H	2H	1H	Full year
	Results	Results	Results	Results	Forecast
	1			2	
Aftermarket	58.3	55.3	113.6	50.7	101.0
Industrial machinery	52.8	51.3	104.1	46.1	91.0
Automotive	249.6	249.7	499.3	230.0	458.0
Total	360.8	356.2	717.0	326.8	650.0

Year on year FY2016 1H ②-①				
Excl.Forex	Forex			
-1.7	-5.9			
-2.1	-4.7			
8.3	-27.9			
4.5	-38.4			

<Operating Income by Business Sector >

(billion yen)

		FY2015	FY2016		
	1H	2H	2H	1H	Full year
	Results	Results	Results	Results	Forecast
	1			2	
Aftermarket	9.5	8.2	17.7	6.7	14.0
Industrial machinery	3.6	2.0	5.6	0.4	0.5
Automotive	11.7	12.7	24.4	8.8	15.5
Total	24.8	23.0	47.8	15.8	30.0

Year on year
FY2016 1H
②- ①
-2.8
-3.2
-3.0
-9.0

4. Results by **B**usiness Sector (Quarterly Trend)

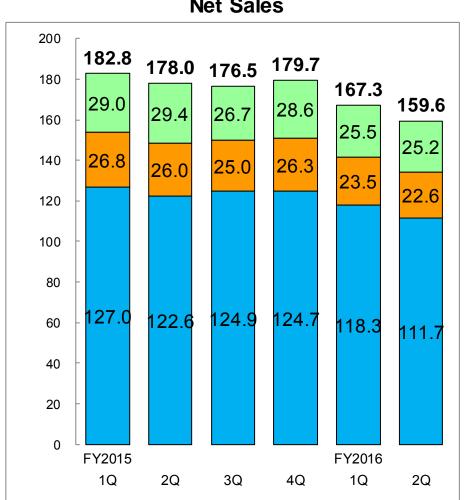
* All figures in billion yen

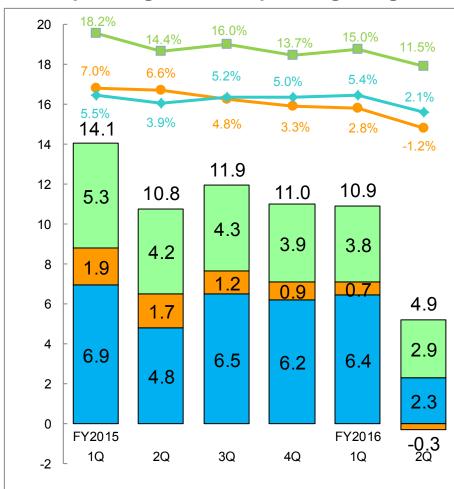




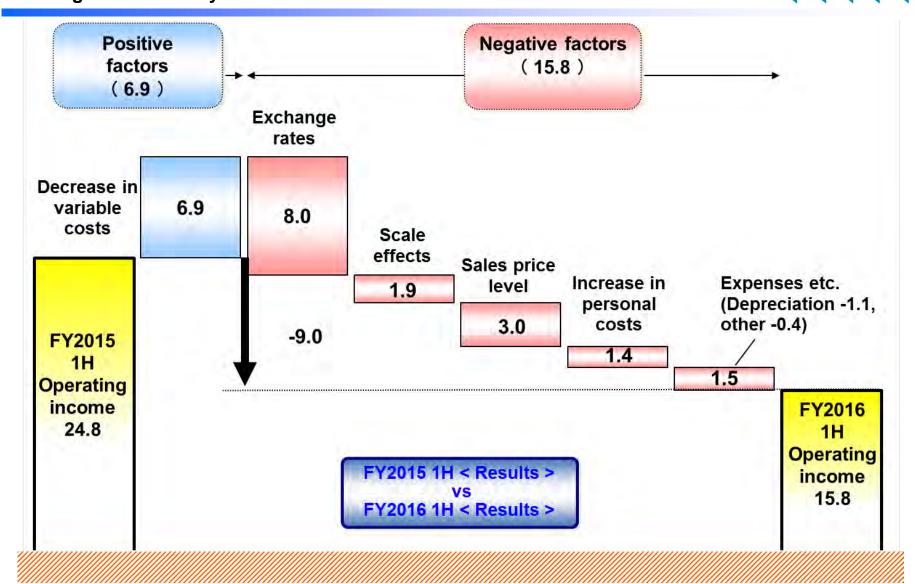
Net Sales

Operating Income/Operating Margin



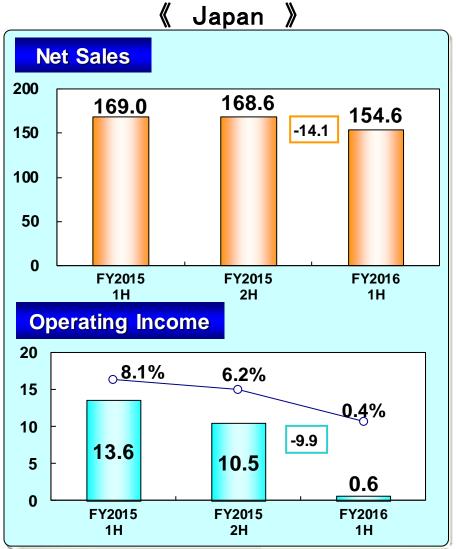


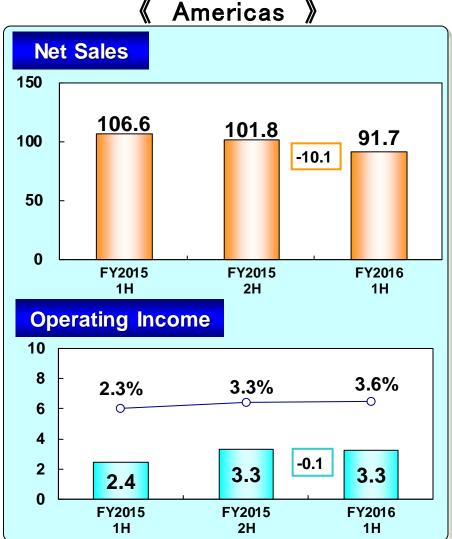
* All figures in billion yen







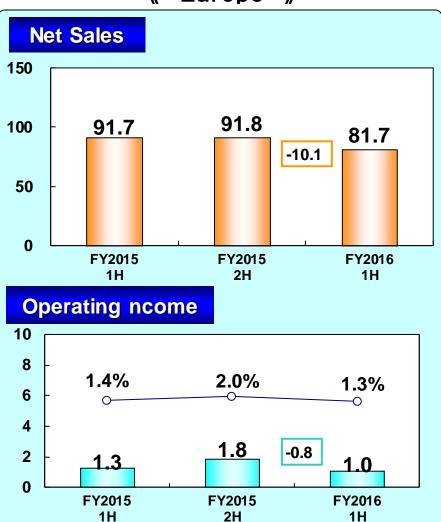




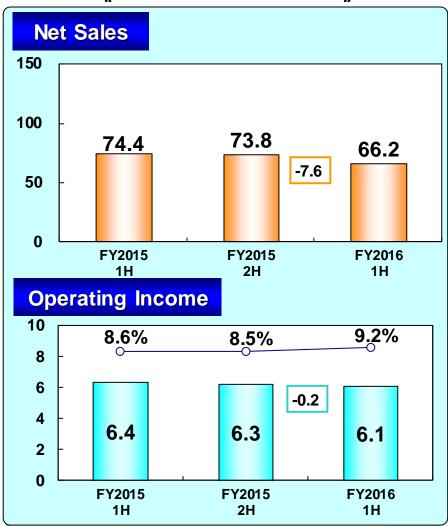
6. Net Sales and Operating Income by Region ** All figures in billion yen







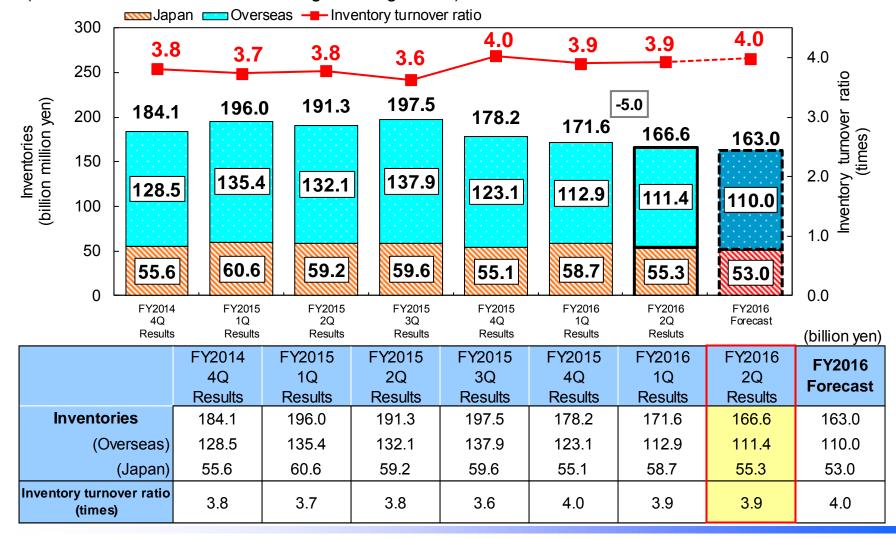
$\langle\!\!\langle$ Asia and others $\rangle\!\!\rangle$



7. Inventories



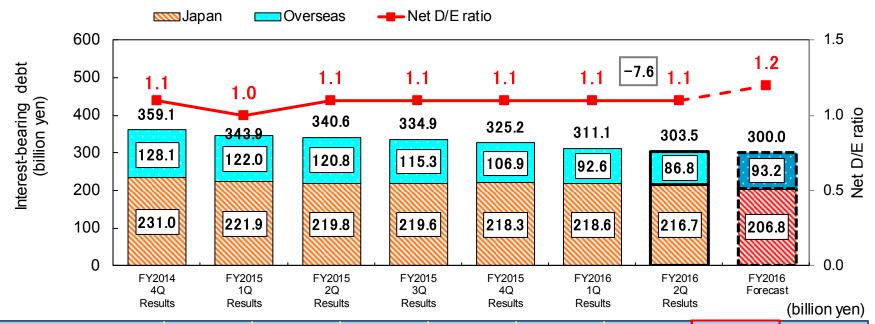
·Inventories at end of September 2016 decreased of ¥5.0 billion compared to end of June (decrease of ¥3.3 billion if excluding exchange rates).



8. Interest-Bearing Debt



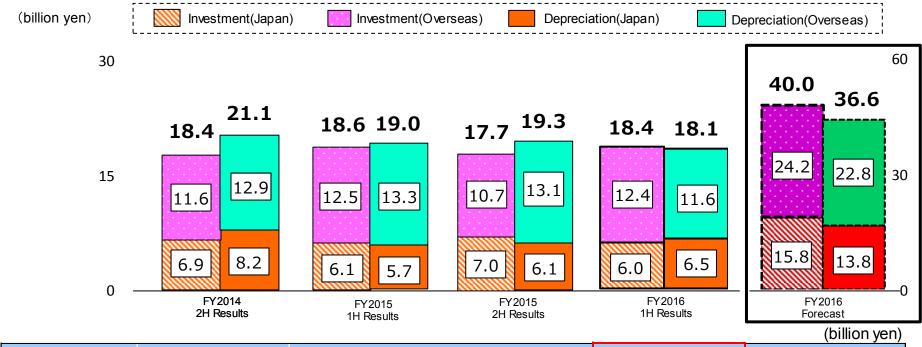
·Interest-bearing debt at end of September 2016 decreased of ¥7.6 billion compared to end of June (decrease of ¥7.6 billion if excluding exchange rates).



	FY2014 4Q Results	FY2015 1Q Results	FY2015 2Q Results	FY2015 3Q Results	FY2015 4Q Results	FY2016 1Q Results	FY2016 2Q Results	FY2016 Forecast
Interest-bearing debt	359.1	343.9	340.6	334.9	325.2	311.1	303.5	300.0
Overseas	(128.1)	(122.0)	(120.8)	(115.3)	(106.9)	(92.6)	(86.8)	(93.2)
Japan	(231.0)	(221.9)	(219.8)	(219.6)	(218.3)	(218.6)	(216.7)	(206.8)
Net Interest-bearing debt	271.3	266.3	261.3	271.9	257.9	243.2	238.0	244.0

9. Capital Expenditure and Depreciation





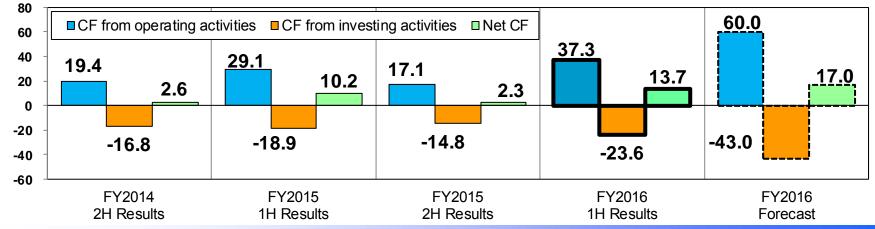
	FY2014	FY2015		FY2016	FY2016
	2H Results	1H Results	2H Results	1H Results	Forecast
Capital expenditure	18.4	18.6	17.7	18.4	40.0
Overseas	(11.6)	(12.5)	(10.7)	(12.4)	(24.2)
Japan	(6.9)	(6.1)	(7.0)	(6.0)	(15.8)

	FY2014	FY2015		FY2016	FY2016
	2H Results	1H Results	2H Results	1H Results	Forecast
Depreciation	21.1	19.0	19.3	18.1	36.6
Overseas	(12.9)	(13.3)	(13.1)	(11.6)	(22.8)
Japan	(8.2)	(5.7)	(6.1)	(6.5)	(13.8)

10. Cash Flows



	FY2014 FY2015		FY2016	FY2016	
(billion yen)	2H Results	1H Results	2H Results	1H Results	Forecast
I . Cash flow from operating activities	19.4	29.1	17.1	37.3	60.0
II. Cash flow from investing activities	-16.8	-18.9	-14.8	-23.6	-43.0
I + II . Net cash flow	2.6	10.2	2.3	13.7	17.0
■ Cash flow from financing activities	-27.6	-21.2	-6.7	-12.9	-24.8
IV. Effect of exchanging rate translation on cash and cash equivalents	1.7	2.6	-7.6	-2.6	-3.5
V . Net increase in cash and cash equivalents	-23.4	-8.5	-12.0	-1.8	-11.3





(Reference)

Main factor comments by region regarding to Result for 1st Half and forecast for 2nd Half by Business Sector

Aftermarket Business:

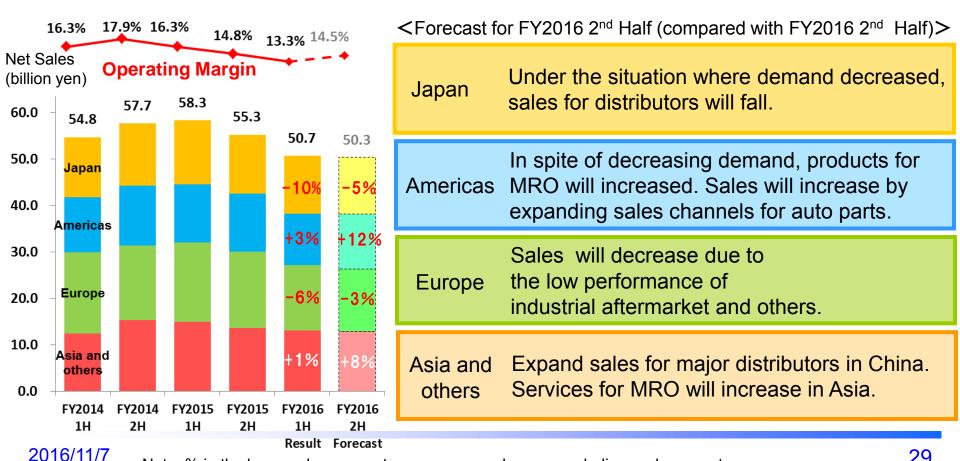
Result for the First Half and Forecast for the Second Half



Results for FY2016 1st Half (compared with FY2015 1st Half)>

Net sales: ¥50.7 billion (-13.1%), Operating income: ¥6.7 billion (-29.3%)

- Demand of Industrial aftermarket decreased in Japan. Sales increased by expanding sales channels in Americas
- Sales decreased due to the low performance of industrial aftermarket in Europe. Services for MRO were successfully provided in Asia and others.



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Industrial Machinery Business:

2016/11/7

Result for the First Half and Forecast for the Second Half

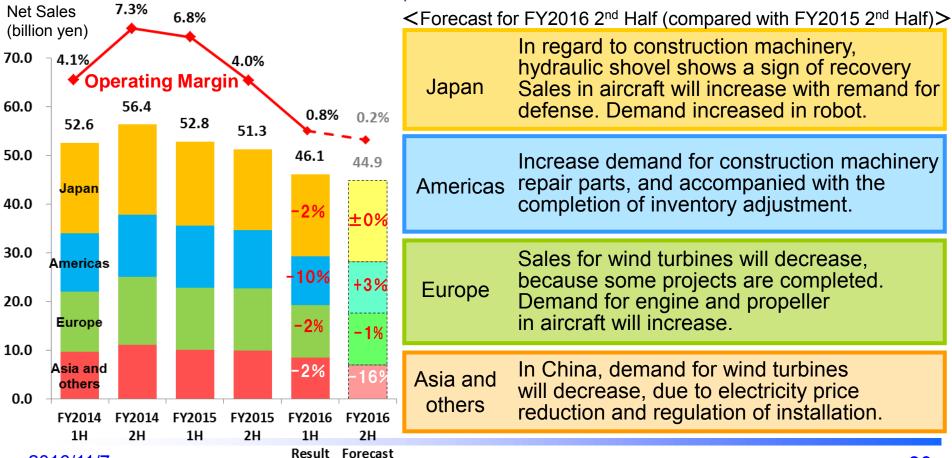


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Results for FY2016 1st Half (compared with FY2015 1st Half)>

Net sales: ¥46.1 billion (-12.7%), Operating income: ¥0.4 billion (-89.6%)

- Demand for construction machinery continue to decrease, and decrease demand for machine tools and others in Japan.
- The low performance of construction and agricultural machinery in Americas. Demand for wind turbine decreased in Europe and China.



Note: % in the bar graph represents year-on-year changes excluding exchange rates

Automotive Business:

Result for the First Half and Forecast for the Second Half

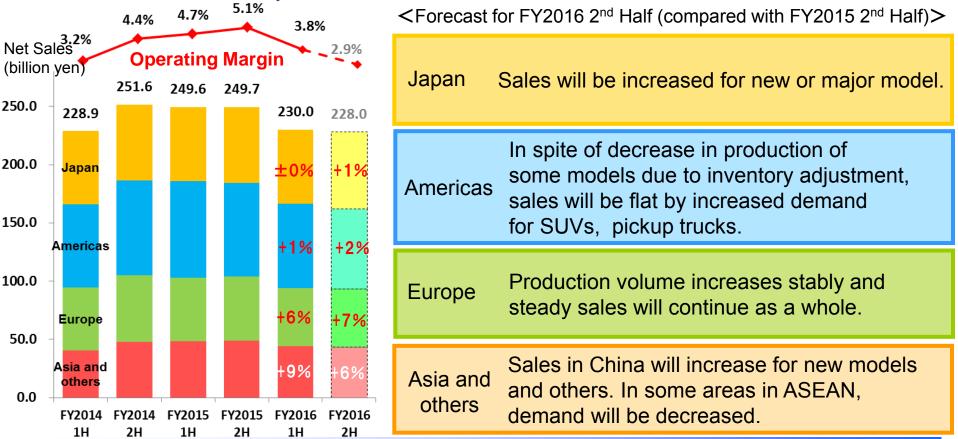


Results for FY2016 1st Half (compared with FY2015 1st Half)>

Net sales: \(\frac{\pmax}{230.0}\) billion (-7.9\%), Operating income: \(\frac{\pmax}{8.8}\) billion (-25.5\%)

Result Forecast

- Despite of the earthquake in Kumamoto Pref., and fuel fraud, sales remains flat thanks to increased export for the North America.
- In Americas, sales increased for Japanese automotive manufacturer. Sales in Europe, China and Asia were steady.



2016/11/7

Note: % in the bar graph represents year-on-year changes excluding exchange rates



We make Bearings.



