

Presentation for Fiscal Year Ending March 2016

May 12, 2016

JTEKT Corporation

1. Results for Fiscal Year 2015

2. Forecasts for Fiscal Year 2016

3. Progress of Mid-Term Management Plan

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1-1) Consolidated Performance

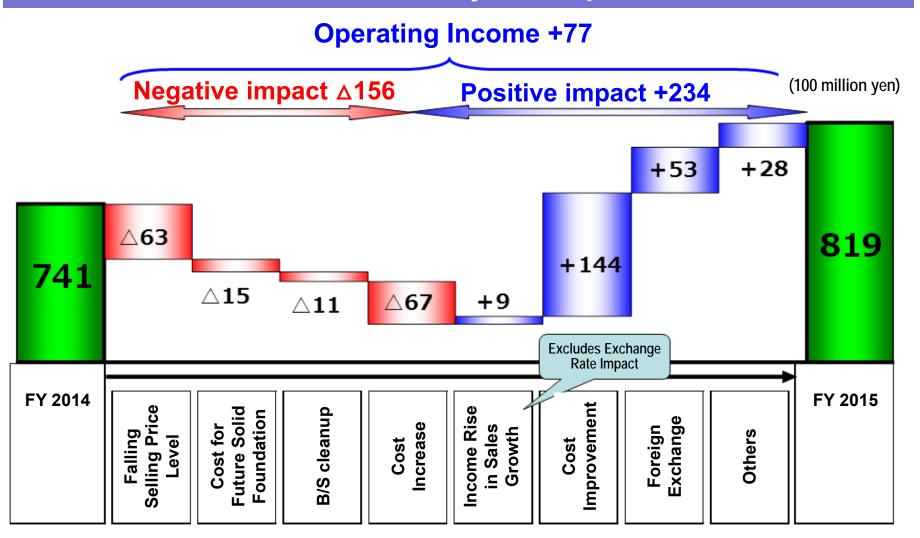
The highest sales & income in our history

(1	00	mil	lion	yer

		FY 20	14	FY 2	2015	Increase/ Decrease	Increase/ Decrease (%)
Net Sale	s	13	,559	1 3	,999	+439	+3.2%
Operatin Income		(5.5%)	741	(5.9%)	819	+77	+ 10.5%
Ordinary Income		(5.9%)	793	(5.8%)	812	+18	+2.4%
Profit attributa owners of pa		(3.1%)	425	(3.5%)	486	+61	+ 14.5%
Exchange I	rate	110 138	yen/USD yen/EUR		20 yen/USD 32 yen/EUR	+ 10 yen △ 6 yen	
(): Profit margin on sale		es					
		FY 20	14	FY 2	015	Increase/Decrease	
Dividend	nterim	1	4 yen		21 yen	+ 7 yen	
	Annual	20	0 yen		21 yen	+ 7 yen	

1-2) Operating Income Change Analysis

Increased costs including costs for solid future foundation and fixed costs are offset by cost improvements



1-3) Financial Results by Product (Mechanical Components) [1]

All business segments, including steering systems business recorded 12.9% higher operating income from last period

(100 million yen)

Mechanical (Components	FY 2014	FY 2015	Increase/ Decrease	Increase/ Decrease (%)
Steering Systems	Net Sales	6,477	6,783	+305	+4.7%
Driveline Components	Net Sales	1,472	1,482	+9	+0.7%
Bearings	Net Sales	4,026	4,085	+58	+1.5%
	Net Sales	11,977	12,351	+374	+3.1%
Total	Operating Income	631	712	+81	+12.9%
	Operating Income (%)	5.3%	5.8%		

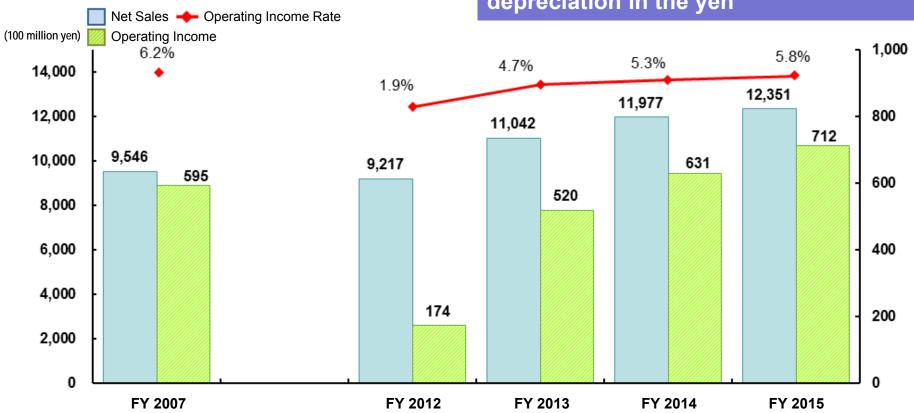
1-4) Financial Results by Product (Mechanical Components) [2]

(100 million yen)

	FY 2014	FY 2015	Increase/ Decrease
Net Sales	11,977	12,351	+374
Operating Income	631	712	+81
Operating Income (%)	5.3%	5.8%	

Increase both in sales and profit

Both sales and profit increased mainly due to sales growth for steering systems in China, North America and Europe, as well as the effects of the depreciation in the yen



1-5) Financial Results by Product (Machine Tools & Others) [1]

Sales increased due to sales growth in Japan, but profit decreased due to impact mainly by sales mix

(100 million yen)

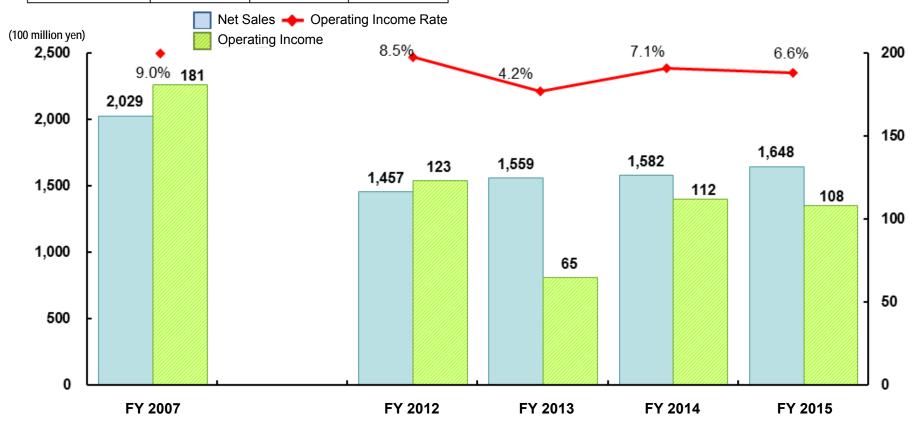
Machine T	ools/Other	FY 2014	FY 2015	Increase/ Decrease	Increase/ Decrease (%)
Machine Tools	Net Sales	1,464	1,525	+60	+4.2%
Other	Net Sales	117	122	+4	+4.0%
	Net Sales	1,582	1,648	+65	+4.1%
Total	Operating Income	112	108		△3.2%
	Operating Income rate(%)	7.1%	6.6%		

1-6) Financial Results by Product (Machine Tools & Others) [2]

(100 million yen)

	FY 2014	FY 2015	Increase/ Decrease
Net Sales	1,582	1,648	+65
Operating Income	112	108	△3
Operating Income (%)	7.1%	6.6%	

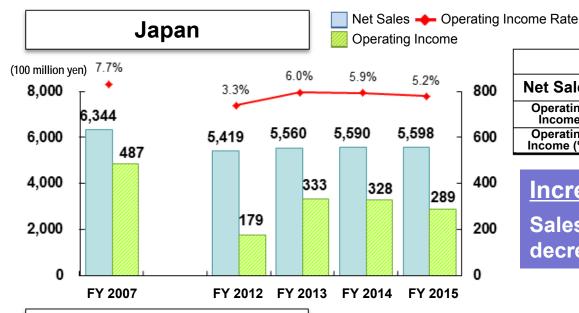
Increase both in sales and profit In spite of sales growth in Japan, profit was decreased due to impact mainly by sales mix



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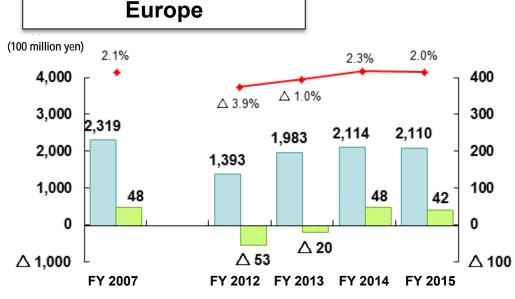
1-7) Financial Results by Region [1]





	FY 2014	FY 2015	Increase/ Decrease	\rceil
Net Sales	5,590	5,598		犭
Operating Income	328	289	△ 38	8
Operating Income (%)	5.9%	5.2%	<u> </u>	7

Increase both in sales and profit
Sales slightly increased while profit
decreased by sales mix

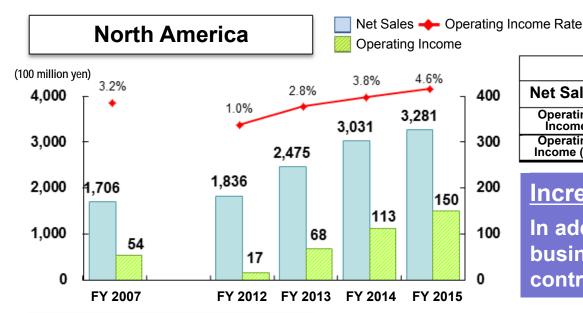


	FY 2014	FY 2015	Increase/ Decrease
Net Sales	2,114	2,110	△ 4
Operating Income	48	42	△ 5
Operating Income (%)	2.3%	2.0%	

Decrease both in sales and profit
Sales slightly decreased, and profit
decreased a little while structural
reform continues



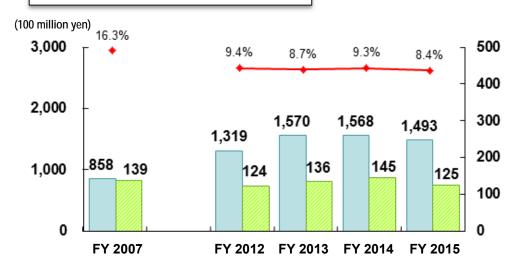
1-8) Financial Results by Region [2]



	FY 2014	FY 2015	crease/ ecrease
Net Sales	3,031	3,281	250
Operating Income	113	150	36
Operating Income (%)	3.8%	4.6%	(

Increase both in sales and profit

In addition to sales growth in all business segments, cost improvement contributed to profit



	FY 2014	FY 2015	Increase/ Decrease
Net Sales	1,568	1,493	△ 75
Operating Income	145	125	△ 20
Operating Income (%)	9.3%	8.4%)

Decrease both in sales and profit

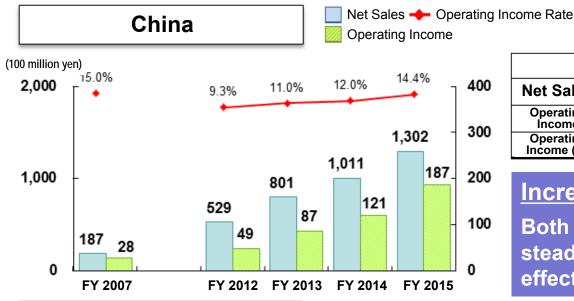
Automotive production remained low in ASEAN region, resulting in decrease in profit due to sales decline

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1-9) Financial Results by Region [3]



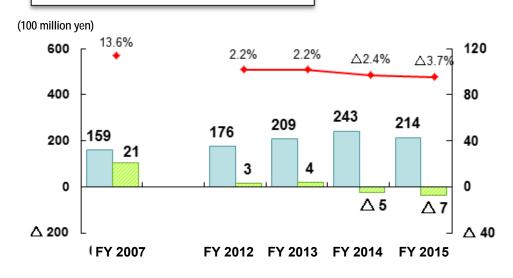


	FY 2014	FY 2015	Increase/ Decrease
Net Sales	1,011	1,302	291
Operating Income	121	187	66
Operating Income (%)	12.0%	14.4%	

Increase both in sales and profit

Both sales and profit increased due to steady sales in automobile as well as effects of new project

South America/Others



	FY 2014	FY 2015	Increase/ Decrease
Net Sales	243	214	△ 29
Operating Income	△ 5	△ 7	△ 2
Operating Income (%)	△ 2.4%	△ 3.7%	

Decrease both in sales and profit

Both sales and profit decreased due to impacts of economic climate and currency depreciation

1. Results for Fiscal Year 2015

2. Forecasts for Fiscal Year 2016

3. Progress of Mid-Term Management Plan

2-1) Forecast for External Environment

Forecast for External Environment

- Continuing strong yen
- > Sustainable in developed countries
 - US Market continues to expand at a moderate pace
 - Modest recovery continues in European Market
- Chinese Market gradually slowing
- > Emerging countries except China persist with weak growth
- Restrained recovery in Japan

Our Focus

- > Automotive
 - O Japanese automotive manufacturer's production in China
 - O Automotive production in Asia and Japan where the market is sluggish
- Industrial Machine/Machine Tools
 - O Demand trends in steel and construction machinery sectors, which seem to be slowing down or sluggish, and agricultural machinery
 - O Demand trend in wind power generation and machine tool sectors, which remain steady

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2-2) Forecasts for Fiscal 2016

Both sales and profit are expected to decrease due to significant impact of exchange rate fluctuation (strong yen)

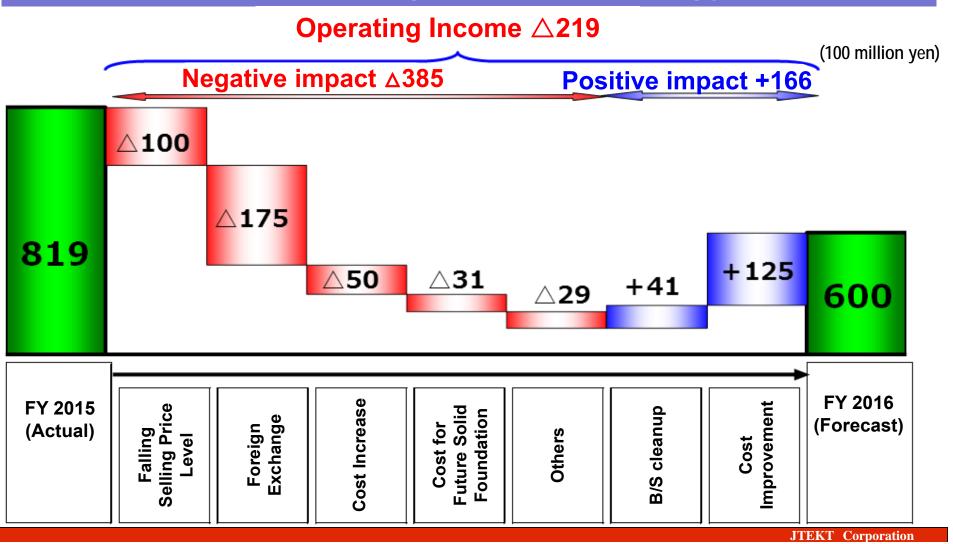
(100 million yen)

	FY 2015	FY 2016 (Forecast)			Increase/	Increase/
	(Actual)	1st Half	2nd Half	Full Year	Decrease	Decrease (%)
Net Sales	13,999	6,400	6,600	13,000	△999	△7.1%
Operating Income	(5.9%) 819	(4.2%) 270	(5.0%) 330	(4.6%) 600	△219	△26.8%
Ordinary Income	(5.8%) 812	(4.4%) 280	(5.0%) 330	(4.7%) 610	△202	△24.9%
Profit attributable to owners of parent	(3.5%) 486	(3.0%) 190	(3.3%) 220	(3.2%) 410	△76	△15.8%
Exchange Rate (Apr ~ Mar)	120 yen/USD 132 yen/EUR	105 yen/USD 120 yen/EUR	105 yen/USD 120 yen/EUR	105 yen/USD 120 yen/EUR	△15 yen △12 yen	
Capital Expenditure	631	347	453	800	+168	26.7%
Depreciation	584	280	310	590	+5	1.0%
Dividend	42円	21円	21円	42円	_	

): Profit margin on sales

2-3) Operating Income Change Analysis

Profit is expected to decrease due to increase in R&D expense, such as for ADAS and IoE, and expenses related to retirement benefits, as well as impact of exchange rate fluctuation (strong yen)



2-4) Net Sales by Product

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(100 million yen)							
		FY 2015	FY 2016 (Forecast)			Increase/	Increase/
		(Actual)	1st Half	2nd Half	Full Year	Decrease	Decrease (%)
Components	Steering Systems	6,783	3,130	3,305	6,435	△348	△5.1%
	Driveline Components	1,482	695	680	1,375	△107	△7.2%
Mechanical	Bearings	4,085	1,805	1,810	3,615	△470	△11.5%
Mech	[Total]	12,351	5,630	5,795	11,425	△926	△7.5%
Machine Tools/Other	Machine tools	1,525	700	735	1,435	△90	△6.0%
	Others	122	70	70	140	+17	+14.2%
	[Total]	1,648	770	805	1,575	△73	△4.5%
[To	otal Net Sales]	13,999	6,400	6,600	13,000	△999	△7.1%

2-5) Net Sales by Region

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(100 million yen)

	FY 2015	FY 2016 (Forecast)			Increase/	Increase/ Decrease
	(Actual)	1st Half	2nd Half	Full Year	Decrease	(%)
Japan	5,598	2,610	2,725	5,335	△263	△4.7%
Europe	2,110	970	1,025	1,995	△115	△5.5%
North America	3,281	1,395	1,365	2,760	△521	△15.9%
Asia/Oceania	1,493	705	720	1,425	△68	△4.6%
China	1,302	590	635	1,225	△77	△6.0%
South America/ Others	214	130	130	260	+45	+21.4%
[Total Net Sales]	13,999	6,400	6,600	13,000	△999	△7.1%

1. Results for Fiscal Year 2015

2. Forecasts for Fiscal Year 2016

3. Progress of Mid-Term Management Plan

3) Progress of Mid-term Management Plan

CONTENTS

- 1. Review (FY 2014 and FY 2015)
- 2. Progress Status of Mid-term Management Plan
 - 1) Steering Systems Business Operations
 - 2) Drivelines Business Operations
 - 3) Bearing Business Operations
 - 4) Machine Tools & Mechatronics Business Operations

(Enhancement of Fundamentals)

- 5) Global HR Management
- 6) Strengthening Financial Basis
- 7) Operational Reform of Indirect Departments
- 8) Establishment of Global Business Basis

1. Review (FY 2014 and FY 2015)

Summary

Profit & Loss Trend

Management Index (Consolidated)

3-1) Review – Summary

[Review of FY 2014 and FY 2015]

Mid-term Management Plan started in April 2014.

- Rolling over every year while considering what can be done right now for 5 years later -

Major activities

Solidifying footing

(Sales method)

- Enhanced cooperation with customers at development stage through frontloading activity
- Restructuring of sales companies and dealers Enhancement of sales areas and rearrangement of sales engineers (Supply system)
- Restructuring/improvement of bases and building of small-lot production and inventory control systems to meet demands (Fundamentals)
 - Development of global HR, establishment of strong financial basis, and operational reform/promotion of adoption of IT

Bullet loading

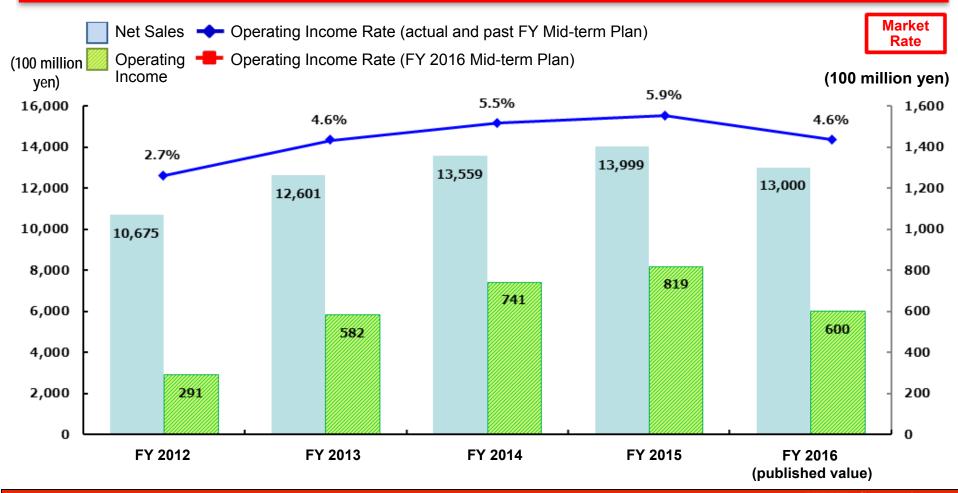
- Development of next-generation leading products
- Examination of new business

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3-1) Review – Profit & Loss Trend (Market rate)

- The highest sales & income in JTEKT history at market rates
- Both sales and profit in FY 2016 are expected to decrease due to the impact of exchange fluctuation



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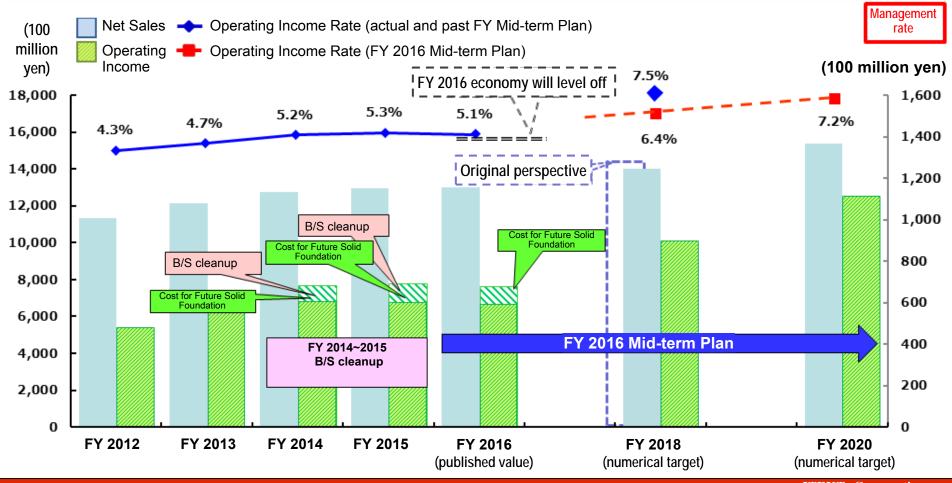
3-1) Review – Profit & Loss Trend (Management rate)

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<Business structure evaluation with fixed exchange rate>

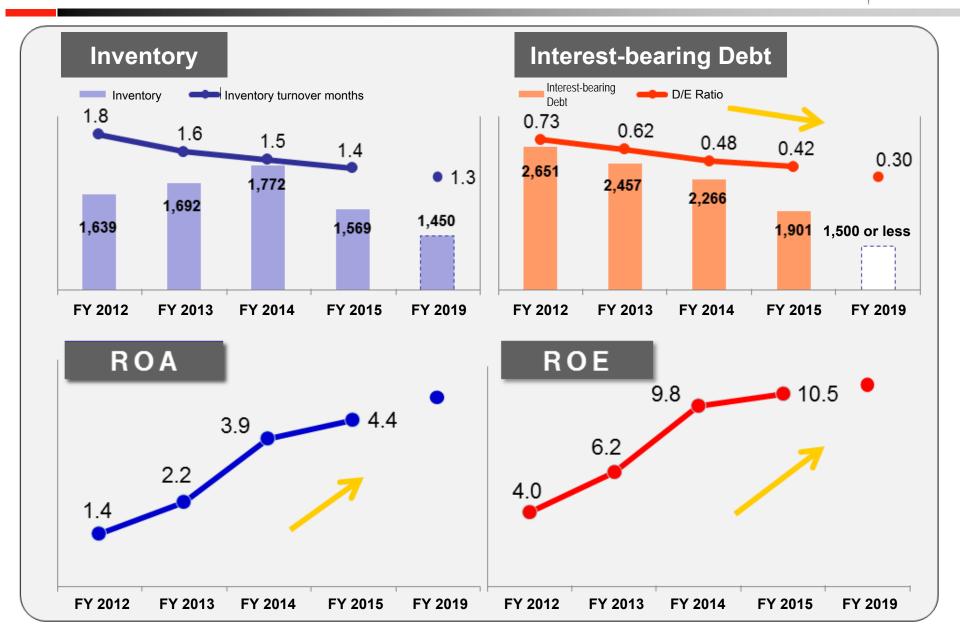
(Management rate – USD: 95 yen, EUR: 130 yen)

- Business structure is improving well, but a difference from the original perspective is recognized (leveling off)
- Review the measures, and review the plan



3-1) Review – Management Index (Consolidated)





1) Steering Systems Business Operations

3-2-1) Roles & Aims

Roles & Aims

With "World No. 1" & "Only One" spirit, continually deliver value to our customers and keep evolving as the all-time leading supplier in the market

Mid-term target
Steering systems

Maintain the top global share for automotive steering systems

Share 25%

Priority activities

Strengthen product potential

- Corresponding to functional safety, small, lightweight, fuel-saving
- Introduce competitive products to the market
- Accelerate promotion of ADAS development

Business model revolution

- Strengthen global projects/front loading activities
- Strengthen sales price strategy/cost planning potential

Improve supply method

- Organize a global supply system
- Establish a global production preparation PM system
- Clarify MCU/column business deployment

3-2-1) Forecast to Accomplish 2018 Mid-term Plan

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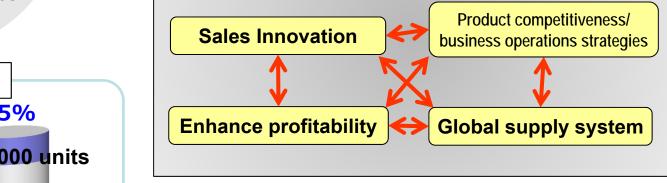
Market share forecast for FY 2018

*According to JTEKT research based on market data



New orders in FY 2015 Mid-term plan target 25% share achieved

Results of FY 2015 activities for receiving orders



Quantity and Share

25%

22,800,000 units
Other companies

2015

2018

Forecast to maintain top share for FY 2018 completed

3-2-1) Forecast to Accomplish 2018 Mid-term Plan Koyo

Sales/profit forecast for FY 2018

(Based on management rate)

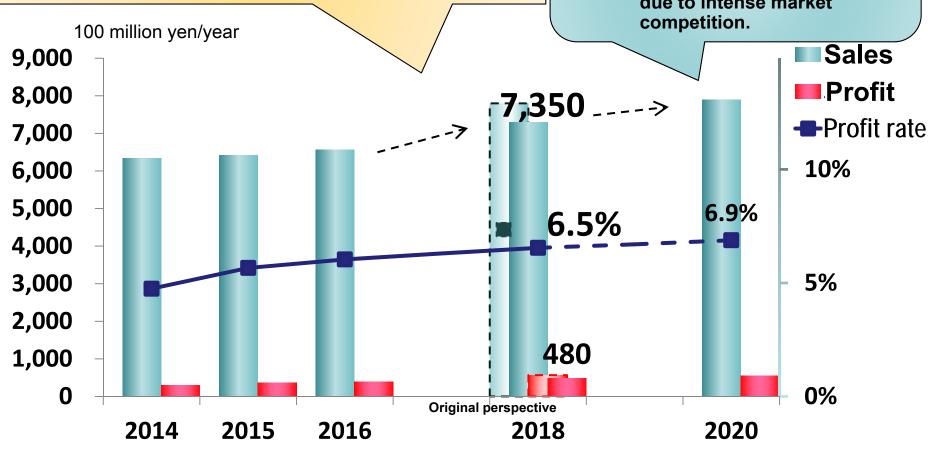
Both sales and profit in 2018 will steadily increase, but will not reach the original numeric value perspective.

Slow market growth (compared to original market prospects) Sales

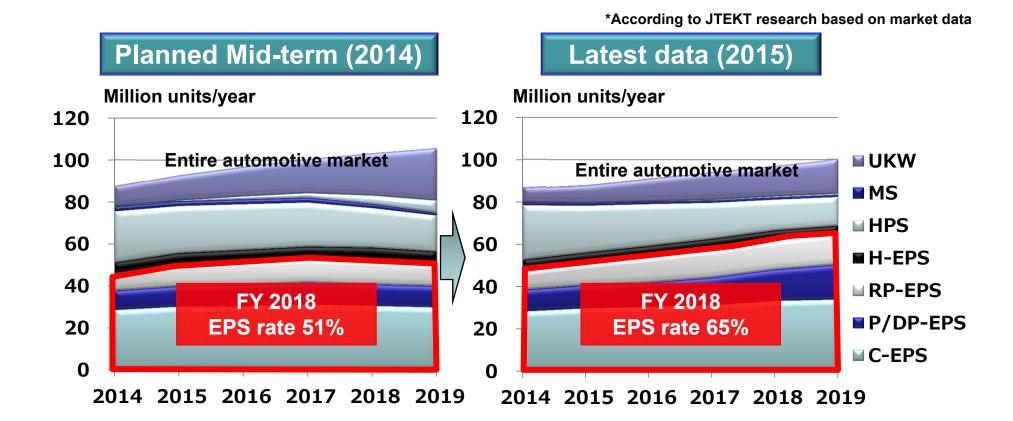
Profit Cost reductions will be strongly promoted, but profit will suffer greatly from a drop-off in sales, intense market competition, and increases in fixed costs.

2020

Sales Steady increase expected Profit Cost reduction will be continuously promoted, but it will be tough to meet the goal due to intense market



3-2-1) Global Steering Market Trend



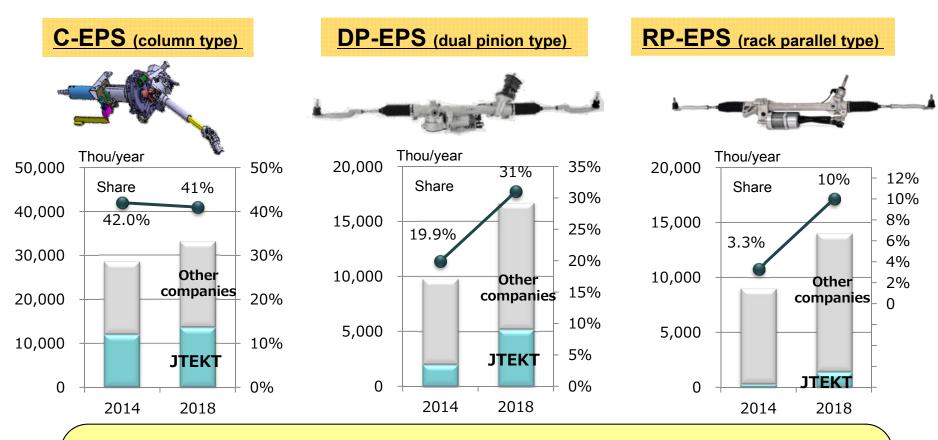
<Steering market trends>

- ✓ Entire automotive market is growing, but the growth rate has slowed down.
- ✓ On the other hand, EPS production has accelerated more than expected. Surely expand market share by fully utilizing JTEKT advantages of EPS lineups covering C-EPS to downstream assist EPS.

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*According to JTEKT research based on market data



<Surely maintain the top share of EPS systems>

- ✓ C-EPS steadily increased in quantity. However, the share was reduced by 1 point.
- **✓ DP-EPS** expanded its share more than planned; approaching top share.
- ✓ RP-EPS made up for delay and steadily increased its share and quantity.

3-2-1) FY 2015 review

Innovation

Achievements

Challenges

PM System strengthening mechanism has taken root.

FY 2015 action items and review

✓ Intense market competition

✓ Global PJ production preparation has items to be solved.

profitability Enhance

Achievements

Challenges

√ Sales price/cost strategy activities have taken root.

- ✓ Sales price/cost strategy in China has made great achievements.
- ✓ Activities have taken root, but are partially delayed in execution.
- ✓ Delay in reflection of results to PJ

Business operations Strengthening product potential strategies

Achievements

Challenges

√ Prospects put on a strategy for internal manufacturing of core components Prospects put on MCU development Prospects put on mass production of PF3 column and RP-**EPS**

✓Increase in ADAS-supported projects, requiring accelerated development

supply

Achievements Challenges

- √CEPS production in Mexico started ✓ PF2A column production started
- ✓ Reinforce Mexico JAMX infrastructure
- ✓ Establish goals for mass production of RP-EPS

2016 activities

- Strengthen PM System (Project Management)
 - Promotion of frontloading to D3
- **Establish PM System for production** preparation
- > Continue enhancement of sales price/ cost strategy

Enhance association with the project Reflect results into mass produced components Expand the range of target products (added by the Subcommittee)

- > Strengthen frontloading activities
 - => Accelerate development of ADAS-supported ST
 - => High output DP, RP-EPS for large-size vehicles **Development acceleration and frontloading** activities
- > Enhance the basis in North America (correspond to expansion in Mexico/correspond to new PJ in North America)
- > Production of downstream assist EPS increased in China.

2) Drivelines Business **Operations**

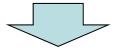
3-2-2) Introduction - Purpose of Establishment of Driveline Business HQ -



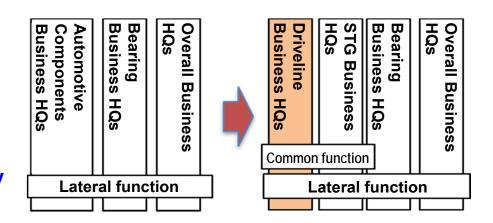
Automotive Systems Business HQ was divided into two sections for steering systems and drivelines, establishing Driveline Business HQ (Apr. 1, 2016).

Grow the driveline business as a core business.

Purpose



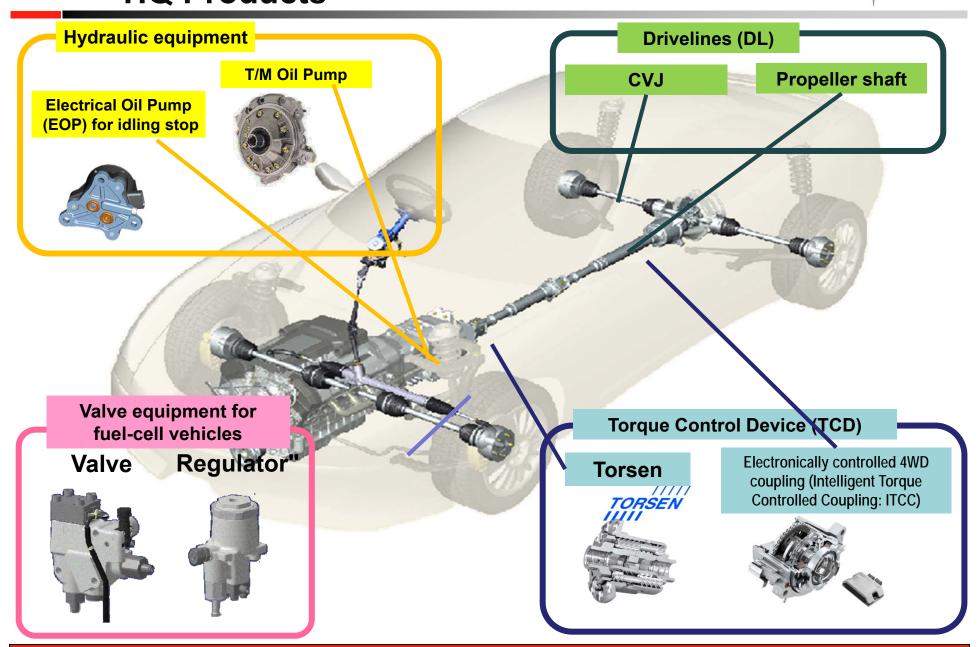
- 1) Growth of drivelines business operations only
- 2) Clarification of business operation responsibility and profit responsibility
- 3) Improving Mobile Power (Prompt Decision Making)



Based on bearing business and machine tools & mechatronics business as fundamental technologies, steering systems business and driveline business are separated from automotive systems business and linked to each other to refine their technologies, following the advanced automotive technologies.

3-2-2) Introduction of Driveline Business **HQ Products**





3-2-2) Roles & Aims

With "World No. 1" & "Only One" spirit, continually deliver value to our customers and keep evolving as the all-time leading supplier in the market

Mid-term target **Drivelines**

Advance to be a leading global company as a supplier of driveline systems

Priority activities

Business model revolution

- Strengthen global business capabilities/frontloading activities
- Strengthen sales price strategy/cost planning ability
- Enhance the CVJ business operations foundation
- Strengthen system capabilities

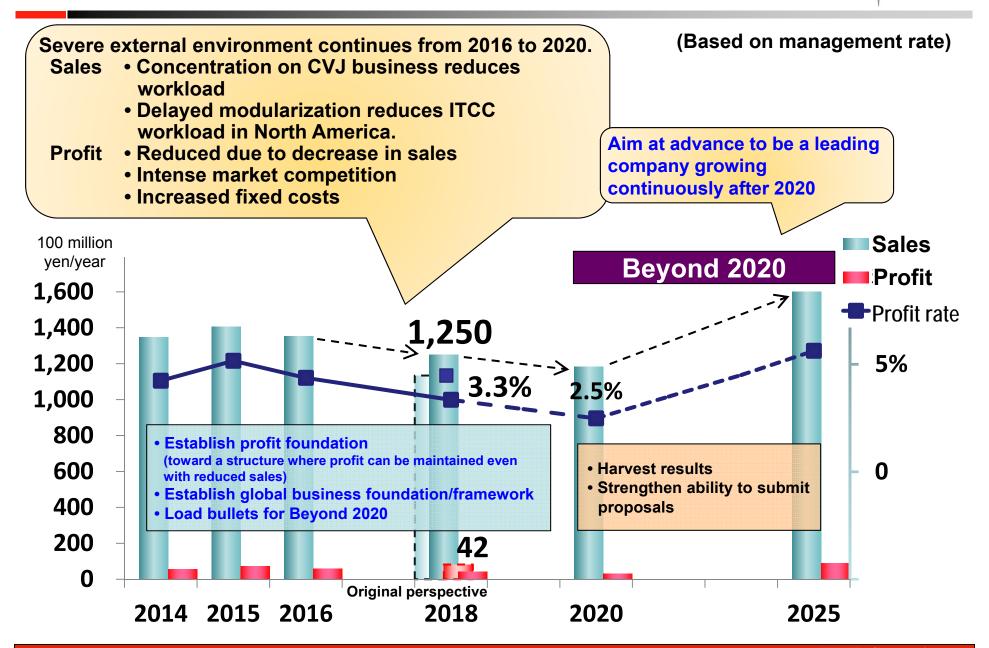
Strengthening product potential **Business operations** strategies

- Size reduction/Cost reduction/High performance
- Unitization/Modularization
- New field product development

Global supply system

 Reestablishment of global production hub fully through maximum use of production capacity

3-2-2) Forecast to Accomplish 2018 Mid-term Plan Koyo



Sales Innovation

its Challenges

ievements

Challenges

Achievements

duct potential Business perations strategies

profitability

Global supply system allenges Achievement

Action items in FY 2015 and review

- ✓ PM System strengthening mechanism has taken root.
- √ EU market survey activity (MS-EDM)
- ✓ Not leading to actually receiving orders
- √ Sales price/cost strategy promoted
- ✓ Oobeya activity promoted
- ✓ Not spread to other series.
 Correspondence to project framework on footing
- ✓ Strengthening overseas CVJ profitability
- ✓ Bullet loading for the future
- √ Correspondence to selection and concentration of business (dampers)
- ✓ Accelerate development completion of differential module
- ✓ Global supply system

 Thorough use of existing production capability.

 Promoted reorganization of plants in North America
- ✓ No effective results after examination of production in North America

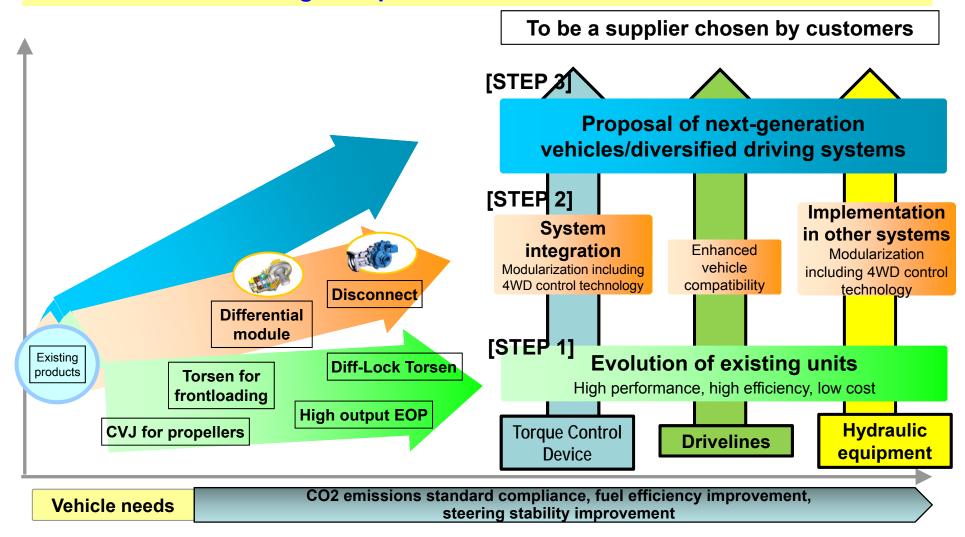
2016 activities

- ➤ Strengthen global business capabilities
 - Continue PM System enhancement
 - Overseas market research and sales expansion activities (MS-EDM)
 - ~ <u>Cross-sectional implementation of activities in</u> China mainly by EU/US makers
- Promote enhancement of sales price/cost and Oobeya activities
 - Result reflection in actual PJ and crosssectional implementation of series
 - Implementation of global activities
 Strengthen global CVJ profitability
- Enhancement of new product development planning, differential module development, clutches for disconnect sailing, next-generation Torsen, etc.
- > Commercialization of CVJ for propellers
- ➤ Restructure North American plants Reestablish scenario for North American manufacturing hub bearing in mind future technologies and sales expansion.

3-2-2) Concept of product potential strengthening

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Role & Aim: Make use of JTEKT advantages in business operations to produce products superior to those of other companies, contributing to improvement of added values of vehicles.



3) Bearing Business Operations Strategies

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3-2-3) Target image

Long-term vision for bearing operations

Continue creating value, impress customers, and be praised for business operations

— Lift the "Koyo" brand to be the top brand in the world —

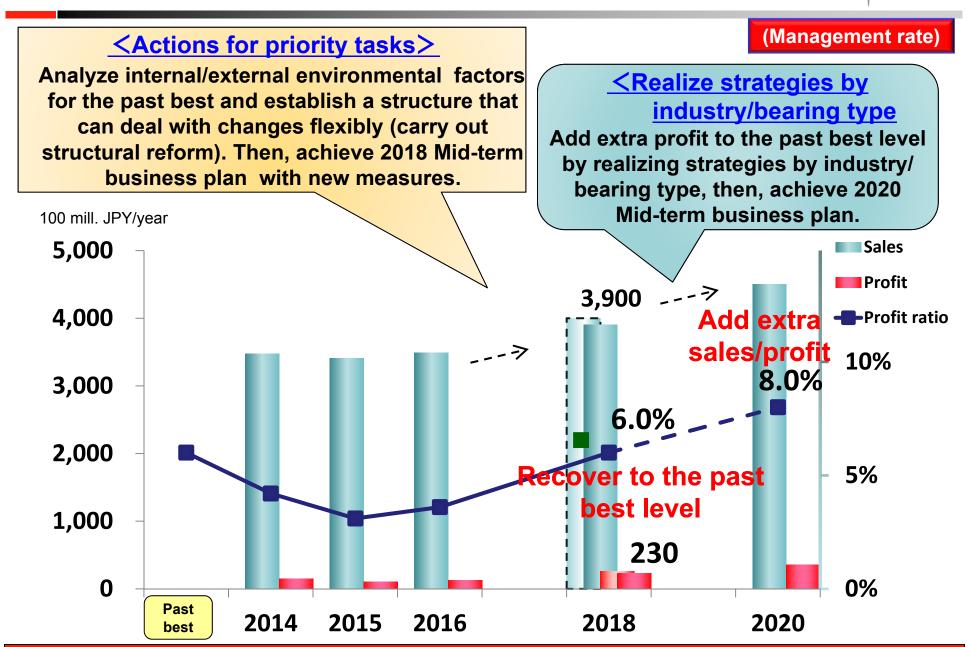
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Bearing Operations HQ	 Be a highly profitable business unit by transitioning from quantity to quality Build lean and competitive structure (Enhance the business structure to solidify footing for growth)
Automotive BRG	 Enhance frontloading activities Bring high value-added products to the market in a timely manner by forecasting changes Maintain position as one of Top 2 suppliers in the world
Industrial/ aftermarket BRG	 Implement solution proposal-type business that exceeds expected values Create No. 1 & Only One products and provide new technologies/services Aftermarket field: Improve presence in the global market

3-2-3) Forecast to Accomplish 2018 Mid-term Plan

Koyo

4



3-2-3) Story for Achieving Mid-Term Management Plant

lan ITEKT

Actions for priority tasks (structural reform, production, sales, engineering)



Strategies by industry/bearing type

FY2015 FY2017 FY2018 FY2019 FY2020 FY2016 3, 4: Reform sales method/Enhance industrial bearing business/ Harvest effects Create product/service in new areas 2, 4): "Innovate manufacture & production Operating engineering/enhance product marketability" profit 1, 2 : Structural reform, enhance production capacity amount 3: "Strengthen revenue base" by expanding short-/mid-term aftermarket sales 1 Structural reform 2 Production capacity, Structural reform /Production Realize strategies by industry/bearing type Production eng. capability Complete structural reform Further reform to leap forward Enhance production capacity · Establish production engineering Raise the level Measures capability (Innovate production engineering) ③Reform sales method Significantly accelerate the enhancement of **Achieve Mid-Term Management Plan** aftermarket activity on industrial machinery/aftermarket Strengthen sales system **Optimization by** continuous promotion Ŝ Build the best sales process to win business Engineering 4 Develop high-value-added products Develop No.1 & only one high-value-Strengthen global added products development system, Implement road map Create products/services i new areas

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3-2-3) FY 2014/FY 2015 Review

Structural reform

Production

Achieve ments

Challenges

FY 2014/FY 2015 Review and Challenges

- Determined directionality of each base
- Profit improvement through structural reform
- Delay in reformation of Kokubu Plant as a flagship plant for industrial machine bearings
- Delay in efficiency improvement of NRB business production base

Achievements

Challenges

Install model line for reduction of investment per unit

- Install model line for multi-product/small-lot production
- Delayed establishment of flexible, firm production system
- Investment effectiveness worsened by excessive plant investment

Sales

development Engineering

Achievements

Challenges

- Activities for important customers of industrial machine bearings have taken root
- Aftermarket: Enhanced commercial distribution of dealers in Japan
- Cooperate between Business and Sales, clarify technologies to be applied
- Enhance the global aftermarket system

Challenges

- Review design system in Europe and North America
- Create technological roadmap, clarify exit strategy
- Clarify areas to take priority actions
- Insufficient "bullet loading" in new business areas

Actions to tasks

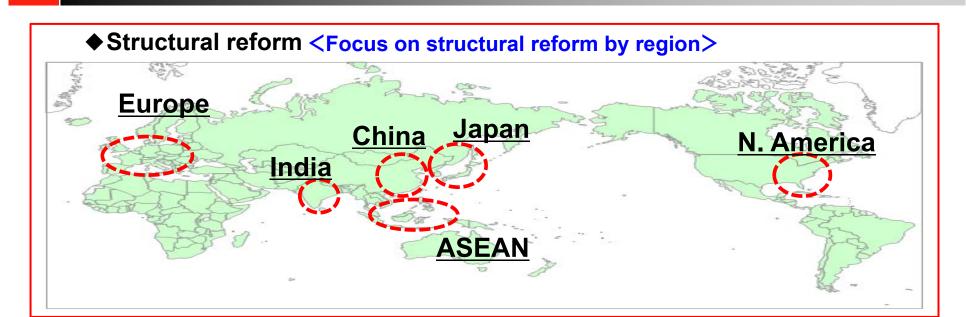
- Accelerate and accomplish structural reform to realize profitable business in all regions/all product types in 2018
- Improve competitiveness through productivity improvement
- Further operation of small-lot production lines
- Establish automated, unmanned production lines
- Action to improve investment effectiveness
- Harvest effects of activities for important customers of industrial machine bearings
- Aftermarket: Strengthen the global system, improve packaging, enhance lineup
- Enhance global development system (In particular, NRB business)
- Select priority target areas and execute actions
- Promote product development for new areas

3-2-3) Priority Measures in Mid-term Plan

,	
Koyo	TOYODA

	Priority	<realization for="" industry="" of="" product="" strategies="" type=""></realization>						
	Measures in	For inc						
* HUB	lid-term Plan (hub unit) (Tapered Roller Bearing)	Industrial/ aftermarket	Automotive	For product type				
NRB	B (Needle Roller Bearing) B (Single Ball Bearing)	Steel, Wind power, Agricultural/Construction equipment, Machine tool	Chassis, Powertrain, Drivetrain	TRB, HUB, NRB, SBB				
	(1) Structural reform							
sks	(2) Establish productivity and production engineering							
Priority tasks	capability	Only	y projection for deta	ails				
Prior	(3) Reinforce sales force through Sales innovation							
	(4) Strengthen development of high value-added products							

Actions for Priority Tasks and Corresponding Actions (Structural reform, production, sales, engineering)



Reflection, Tasks

- 1) Delay in the action to strengthen Kokubu Plant as a flagship plant for bearings for industrial machinery applications in spite of the management objective of strengthening industrial machinery section
- 2) Delay in streamlining production base after the acquisition of NRB business in 2009
- 3) Weak business foundation of overseas bases (Indonesia/India) established in/after 2012
- 4) Efforts to enhance competitiveness including reform of manufacture (North America, UK, China)

* HUB (hub unit), TRB (tapered roller bearing) NRB (needle roller bearing), SBB (single-row ball bearing)

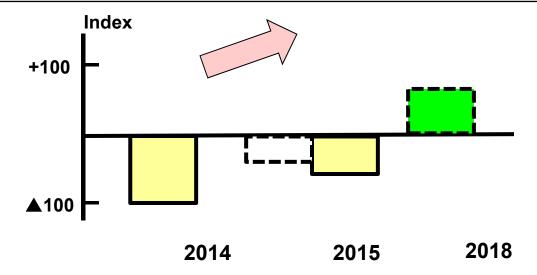






- 1) Business reorganization in Japan (Kokubu Plant: Profit improvement of Kokubu Plan as a flagship plant for industrialmachine bearings and competitiveness improvement due to HUB/TRB forging line transfer)
- 2) Completion of Europe NRB revival plan
- 3) Indonesia/India: Management stabilization through structural reform
- 4) North America/UK/China: Execution of fundamental reform toward profitable business operations

Global operating income plan, results (index)



Realize profitable business in all areas/all product types in 2018

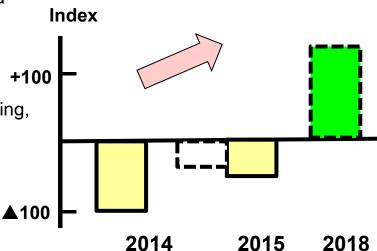
Business reorganization in Japan



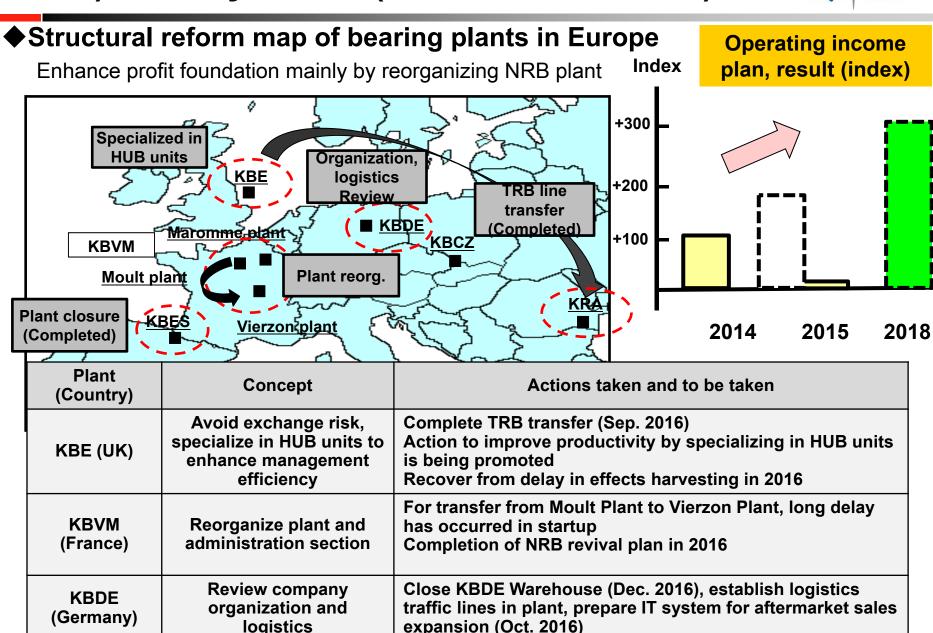
Completion of Kameyama plant's new building **HUB** model plant Cost competitiveness +100 improvement, logistics improvement, energy saving, working environment improvement

March 18, 2016 Completion ceremony for Kameyama plant's new building





	Concept	Actions taken and to be taken
(1)	Kokubu Plant: Reform as a flagship plant for industrial machine bearings	Install mid-/large-sized small-lot bearing production lines, install innovative production lines for machine tools, improve competitiveness through production/design reformation – Sales expansion of industrial machine bearings
(2)	Improve HUB competitiveness	Kameyama Plant's new building completed (Mar. 2016), improve cost competitiveness by installing innovative lines and compact lines in association with line relocation (up to Dec. 2016)
(3)	Relocate TRB forging and turning process in Shikoku area	New forging machine operation starts (Apr. 2016) Improve the supply chain Challenge to new production method for the enhance competitiveness



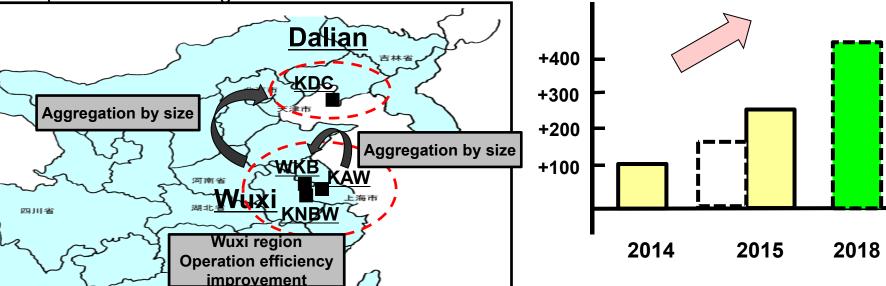
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Structural reform map of bearing plants in China

Reorganization of SBB plants for each size and

response to increasing NRB demand

Operating income plan, result (index) Index



Plant (Region)		Concept	Actions taken and to be taken
KDC (Dalian)	Miniature and Small dia. SBB	Improve production	Classification by processing size is almost completed Promote productivity improvement and sales
WKB (Wuxi)	Small-sized SBB	efficiency by clarifying classification of production plants by	expansion Examine further production efficiency
KAW (Wuxi)	Mid-sized SBB	processing size	improvement including Wuxi NRB plant KNBW to meet increasing NRB demand in China



Kovo



1) Enhance competitiveness

- Enhance operational availability and productivity
- 2) Respond to small-lot demand System that can quickly deal with demand fluctuation
 - ·Construct small-lot lines at each base (up to Dec. 2016)

3-2-3) Priority Tasks (Productivity/

Production engineering capability)

- Reduce production lead time (L/T)
- 3) Innovate production by automating mass-production lines
 - ·Construct fully automated & unmanned lines
 - ...Set up model unmanned lines (up to Mar. 2017)
 - Reform production line system by IoE

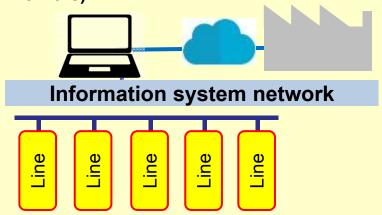
4) Enhance investment efficiency

- ·Realistic, optimum & minimum investment (suitable to our capability)
- Reduce investment per unit (innovative technology/lower equipment cost)

(Smart Factory, IoE)

Implement self-developed IoE system in JTEKT plants

- 1.Maintenance IoE (control the sign of the end of life & abnormality)
- 2. Quality IoE (control the sign on the quality)
- 3. Production loE (enhance productivity incl.) workers)



[Planned profit & result from factories] (index)

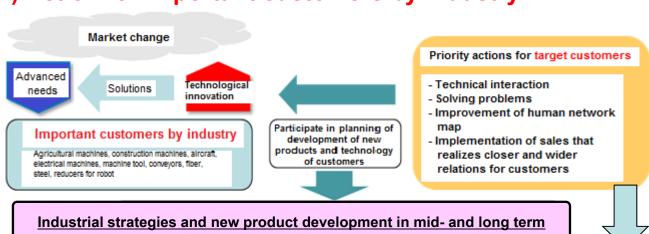


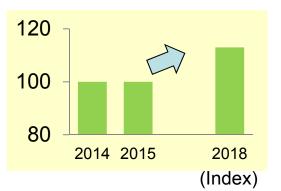
3-2-3) Priority Tasks (Sales)

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Sales figure of industrial/aftermarket regarding the figure of 2014 as 100

1) Action for important customers by Industry





Horizontal deployment to other customers and other area, study including capture of repair business

2) Strengthening aftermarket actions

Strengthen sales of commercial flow in agency

Enhance product variety of aftermarket stock and improve the brand potential

New item for aftermarket

Merger of Koyo Sales (1st step), enhancement of agency sales (2nd step) Japan Strengthening sales based on agency strategies by region Overseas

 $'15/3 \Rightarrow '17/3$ Increased item number by 30% Improve a fancy box and introduction of new design (From 2016 Apr.) ⇒ Introduction of Koyo brand tag line and strengthening public relations

Key of Your Operation

Introduction of dedicated items of aftermarket for automotive bearings or oil seal



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3-2-3) Priority Tasks (Technology Development)

♦ Common

- 1) Enhance global development system (in particular, NRB business efficiency improvement and strengthening)
- 2) Enhance development of high-value-added products (select priority action areas and execute development roadmap)
- 3) Develop products in new areas (utilize tribology and control technologies to expand the area of bearing application)
- **♦** Industrial machines
- 1) Develop solution proposal-type businesses by visualizing customers' problems
- 2) Develop No. 1 & Only One products for industrial machine applications
- 3) Establish new engineering services (from tangible to intangible) in the maintenance market
- Automotive
- 1) Forecasting vehicle evolution, select priority action areas and develop No. 1 & Only One products
- 2) By forming a target project (exit strategy), strengthen frontloading activities
- 3) Develop components toward motorization, "x by Wire" and ADAS (powerfully promote bullet loading activities)

Realization of strategies for industry/product type

3-2-3) Realizing Strategies for Industry type

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Actions to enhance business in the industrial machine field

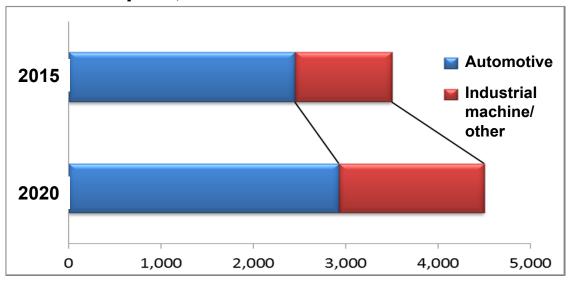
Enhance business operations for industrial machines to promote well-balanced growth and increase profits

Reform Kokubu Plant as a flagship plant for industrial machine bearings (strengthen small-lot production capability, reduce lead time) Strengthen capability to meet demands in industrial machine field through service correspondence and dealer network enhancement



Further strengthen actions for each industry to develop/supply high value-added products for priority applications

Sales amount plan, results



TOYODA

3-2-3) Strategies for Industry type (Industrial Machines)

Strategies for each priority application

Actions for steel, wind power

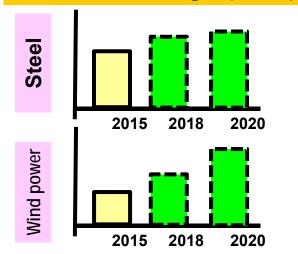
- Maintain the top share in Japan (Steel)
- Establish technologies for further increasing performance level (long life, lower temperature rise) (Steel)
- Contribute to stable machine operation for customers by monitoring conditions and providing maintenance services

(Steel, Wind power)

- Establish re-manufacturing business (Steel)
- Develop products for increasing size of off-shore wind turbines and establish technologies for producing those products (Wind power)

Industry	2015	2016	2017	2018	2019	2020			
	Extend life by development of new materials								
		Increased speed by developing technology capable of inducing a lower temperature rise							
Steel Wind	Develop technology for failure analysis by monitoring, and monitor equipment status								
power	Establish re-manufacturing business for bearings and drive shafts (repair service, remaining life diagnosis)								
		•	oduction tec shore turbine	hnology corr es	esponding				

Sales amount target (index)



Representative products for steel making machine



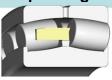
High strength, long life

Drive shaft

Support for heavy load, high speed

JHS Series

Representative products for wind power generator



Low torque, less temperature rise

Highly functional self-aligning roller bearing

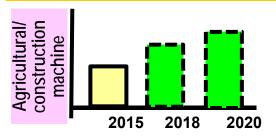
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3-2-3) Strategies for Industry type (Industrial Machines)

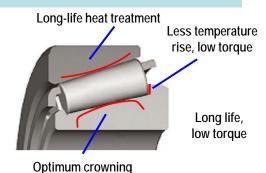
- ◆ Strategies for each priority application
 Actions for agricultural/construction machine
 - Further improve reliability by highly functional technologies
 - Enhance actions for large-sized drive shafts
 - Contribute to lifecycle cost reduction (enhance actions for re-manufacturing)
 - Establish small-lot production system to expand demand

Industry	2015	2016	2017	2018	2019	2020	
	Extend life by development of new materials Improve product capability of large drive shafts						
Agricultural/ construction machine	Techn		d life, enhanced nt for bearing fa		Technical de failure predic	velopment for	
	Buildsm	nall-lot produc	tion line				

Sales amount target (index)



Representative products for agricultural/construction machine



Highly functional tapered roller bearing



High wing series drive shaft

3-2-3) Strategies for Industry type (Industrial Machines)

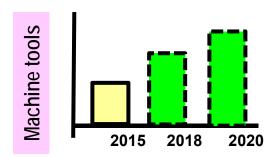
♦ Strategies for each priority application

Actions for machine tools

- Contribute to high efficiency processing by highly functional technologies
- Improve product capability by unitization technologies
- Contribute to stable processing of customers by condition monitoring
- Establish innovative production lines to further improve product quality and productivity

Industry	2015	2016	2017	2018	2019	2020
Machine Tools	(lubrication c Develop high bearing	ontrol) -speed double-	with lower tem row cylindrical r	roller		
Develop technology for equipment status monitoring Build innovative production line for machine tools (high cleaning level, L/T reduction)						

Sales amount target (index)



Representative products for machine tool



High speed, high precision, high reliability

New High-ability bearing series

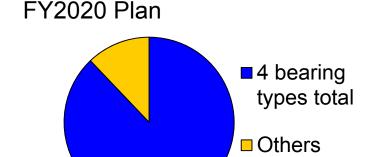
3-2-3) Realization of Strategy by Bearing Type

♦ Actions for four major bearing types (TRB, HUB, NRB, SBB)

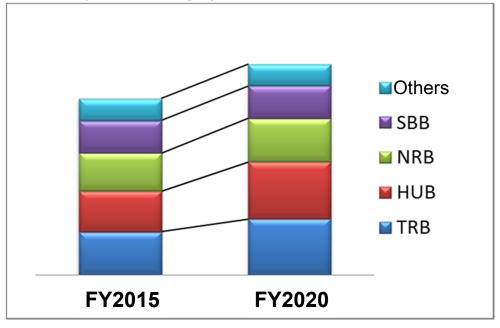
Increase profit by realizing a strategy by bearing type (mainly for automotive applications)

Develop and introduce high-value-added products in four major bearing types

Sales ratio of four major bearing types



Planned sales amount and past result (four major bearing types and others)



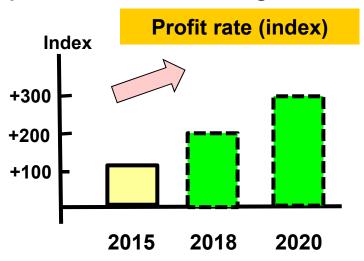
TRB, HUB, NRB: increased

SBB: same

3-2-3) Strategy by Bearing Type (TRB)

- Deploy innovative manufacturing methods used in Japan globally
- Shift from globally identical specifications to optimum specifications for each region

Region	201	.5	2016	2017	2018	2019	2020
Japan			speed product l-lot production		loy these pally		
North America				n production lin by of preceding		Introduce inno manufacturing	
China		Expand local procurement					
Europe	optimum		olidate product ad local procure				4
Thailand	1.5 %						
India	Region						



◆ Example of new product development

Next-generation ultra-low torque tapered roller bearing LFT-IV has been developed





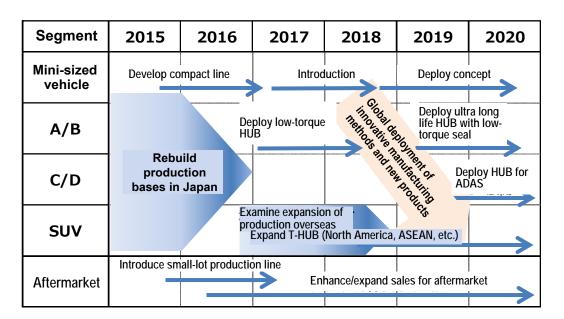
- Realized more than 50% torque reduction (max.) compared to standard low-torque TRB (LFT-II)
- Highly effective in applications with oil lubrication such as differential units and transmissions
 - Sales target: 10 billion yen/year
- We will try to deploy energy-saving technologies for automobiles to the industrial machinery field.

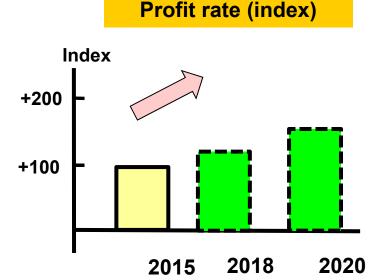


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3-2-3) Strategy by Bearing Type (HUB)

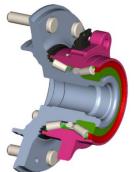
- B-HUB: Strengthen cost competitiveness T-HUB: Expand sales
- Develop low-torque technologies and hub units for ADAS





Example of new product development

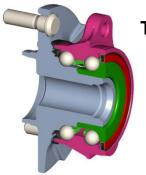
T-HUB (TRB hub unit)



Torque reduction **▲50%**

- Optimized shapes/surface roughnesses of contact parts of inner ring rib and rollers
- Optimized raceway crowning profile
- Ultra-low torque grease
- Ultra-low torque high reliability seal

B-HUB (Ball bearing hub unit)



Torque reduction ▲40%

- Ultra-low torque grease
- Ultra-low torque high reliability seal

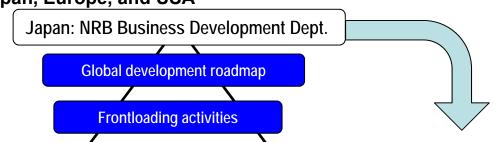


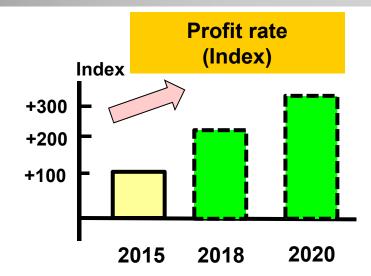
3-2-3) Strategy by Bearing Type (NRB)

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Strengthen global development system (establish 3-base development system)

- Effective product development by job sharing
- Acquisition of global projects by frontloading activities
- Mutual utilization of technologies among technical centers in Japan, Europe, and USA





Mutual utilization of technologies

Personnel exchange

North America Europe

> Example of mutual utilization of technologies

Global innovation development

1. Ultrathin NRB for balancer shafts

Technical Center in



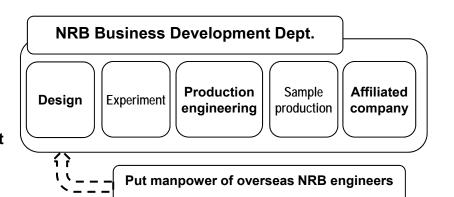
2. Long-life planetary shaft

Technical Center in

DURACASE

Enhance domestic development system

- Restructure the organization around Kanto area (Cooperation among three companies including two affiliates)
- Consolidate functions to realize integrated process from development to mass production



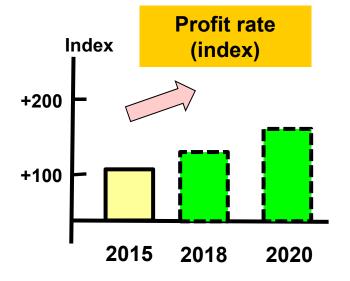
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- 3-2-3) Strategy by Bearing Type (SBB)
- Develop innovative manufacturing method
- Reconstruct global production system
- Strengthen & expand aftermarket sales Develop high-value-added products

Industrial Machines: High-performance motor, ultrathin bearings (speed reducers)

Automotive: SBBs responding to motorization and engine downsizing

Measures	2015	2016	2017	2018	2019	2020
Develop high-speed production line	Introduction	Ехра	ansion			
Reconstruct global production system	Stabilize bus	iness in China,	ASEAN and In	dia Furth	er develop bus	iness
Strengthen & expand aftermarket sales		small-lot ction line	ntroduce smal production lir		oand aftermark	et sales
Develop high-value- added products	Review scer	i nario	D	evelop produc	ts	→



Examples of new product development

New ceramic ball bearing for motors

For motor applications that require countermeasures against electric pitting

- Developed new ceramic material
- Sales target: 1 billion ven/year

Rolling bearing unit for turbochargers

Respond to increasing demand for turbochargers due to expansion of engine downsizing



- Power loss reduction by 60% or more by changing from sliding bearings to rolling bearings has contributed to fuel efficiency improvement.
- Sales target: 1.8 billion yen/year



4) Machine Tools & Mechatronics Business Operations Strategies

3-2-4) Roles and Aims (Mid-term Plan)

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Roles & Aims

True total production system integrator that is trusted by customers

Provide value at all phases of monozukuri

Business Operations Strategies Solidify the basis for "connectable" business from business focusing on new machines (up to 2016), and enhance the constitution for sustainable growth (up to 2019)

Grinders

Make strong grinders firmer to become Global No. 1

Cutting machine Machining center

Enhance our nonautomotive market by improving our presence

Gear skiving center

No. 1 & Only One in Gear-cutting market

Control systems

No. 1 & Only One in line control systems

Customer support: No. 1 with full-fledged and extended customer support values

Priority activities

Strengthen sales capability

Strengthen product potential

Monozukuri Revolution

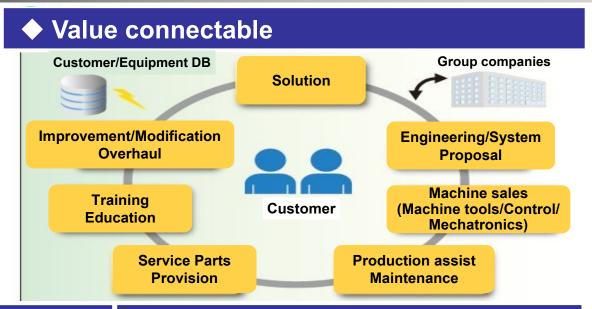
Cultural reform and reduction of L/T

TOYODA

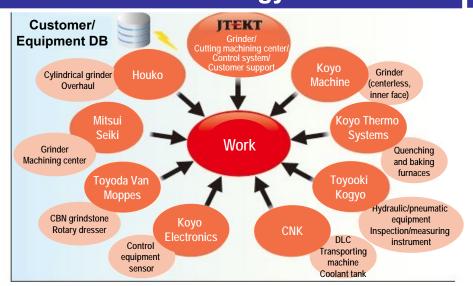
Koyo

3-2-4) Business Operations Strategies (Mid-term Plan)

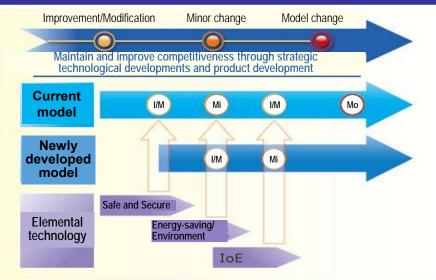
From business focusing on new machines to "3-factor connectable" business



◆ Process/technology connectable

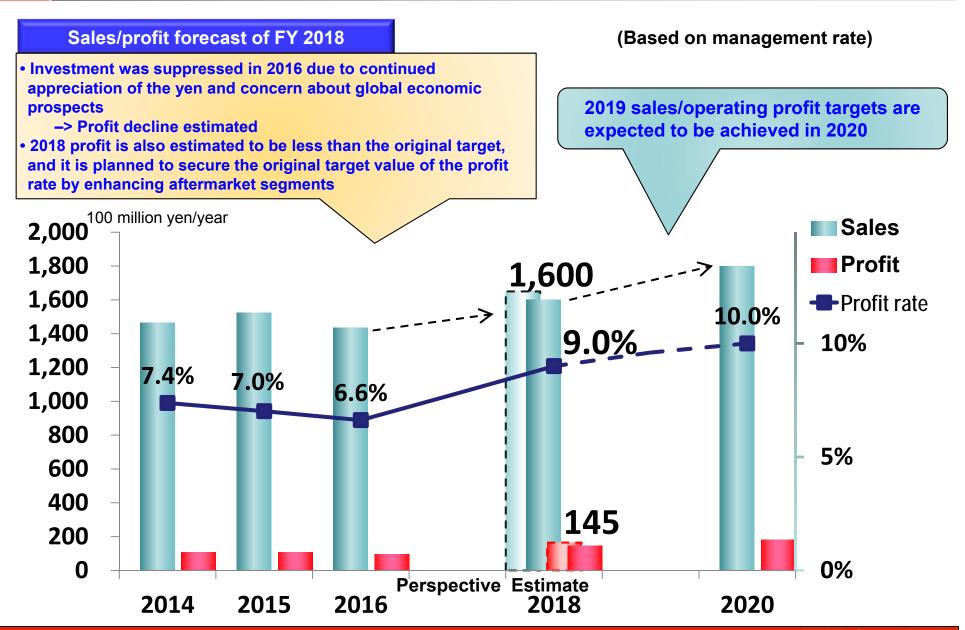


Product potential connectable



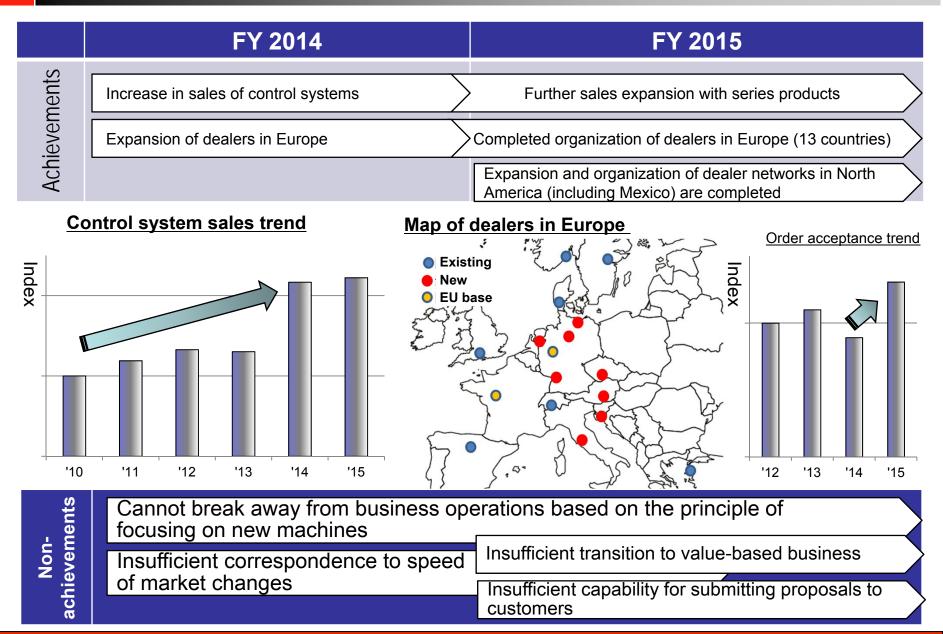
3-2-4) Accomplishment Status of 2018 Mid-term Plan





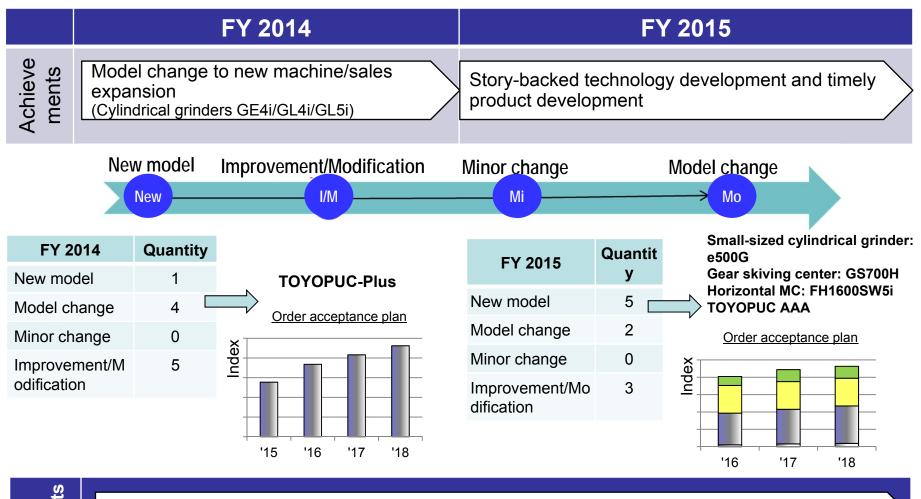
3-2-4) Review of FY 2014 and FY 2015 [Priority activities (1): Sales capability]





3-2-4) Review of FY 2014 and FY 2015 [Priority activities (2): Product potential]





Nonachievements

Weak connectivity to market release of products (tendency of selling products on one-shot basis, insufficient sales planning)

Delayed market release due to slow start of product planning/development (losing sales opportunities)

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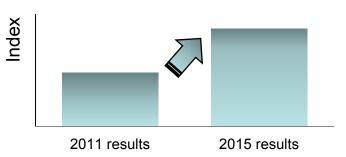
3-2-4) Review of FY 2014 and FY 2015 [Priority activities (3): Monozukuri revolution]

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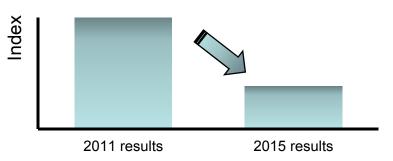


FY 2014 Execution of Kariya ReBORN (unmanned FMS operation, no scraping, etc.) Cost reduction of standard parts by Oobeya activities Start of reforming into smart factory by utilizing IoE (building of production management system, visualized system) Reveal a mechanism from inquiry to acceptance Enhancement of management of manpower planning

1) No. of units producible monthly



2) Assembly lead time (mid-sized horizontal machining center)



Nonachievements Cannot harvest effects of ReBORN (hardware measures)

Lax schedule management was exposed during production load concentration

(specification determination, drawing releasing, arrangement of procurement items)

Insufficient accuracy of in-house load/manpower planning Late correspondence to load Flexible procurement of internally/externally manufactured

items according to load fluctuation
Insufficient activities for cost reduction

3-2-4) Review of FY 2014 and FY 2015 [Business operations strategies (1): Grinder]

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	FY 2014	FY 2015
Achievements	Development of complex cam (concave cam) grinder	Market supply of equipment with concave cam grinding technology implemented Development of CNC cylindrical grinder "e500G" for mass production processing of small shaft components

GC20Ri complex cam (concave cam) grinder



- Efficient equipment operation due to process aggregation
- Mixed flow production enabled by auto changeover
- Improvement of concave cam productivity

e500G CNC cylindrical grinder

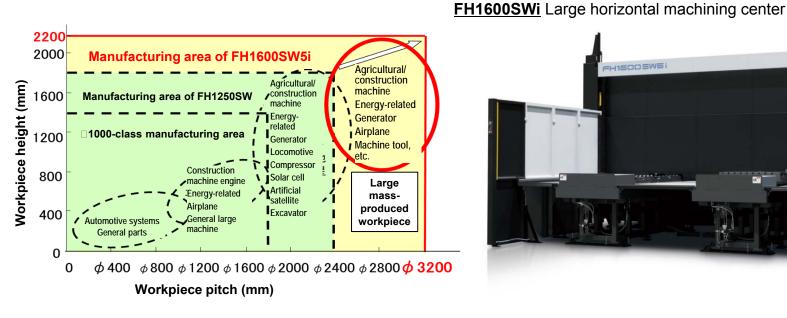
- Stable grind precision
- Fastest cycle time in the same class
- Smallest space in the same class
- No changeover required
- Easy operation



[Business operations strategies (2): Cutting machine/MC]



	FY 2014	FY 2015
ements	Commercialization of real-time thermal displacement correction (FH630SX-i: Thermal displacement 1/5)	Development of large horizontal machining center (FH1600SW5i)
chieven	Development of DD rotary table	Start of local production in TMD (Dalian) (e640V Vertical machining center)
Act		Startup of system line (6 systems)

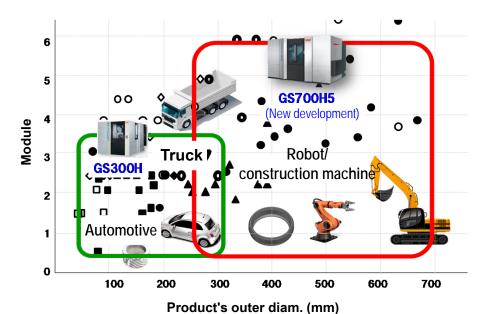




[Business operations strategies (3): Gear skiving]



	FY 2014	FY 2015
nts	Start of supply to gear processing market	
Achievements	Development of mid-sized machine for gear skiving center (GS300H)	Development of large machine for gear skiving center (GS700H5)
Ach	Received "Grand Prize of 2014 New Top 10 Product Awards" from Nikkan Kogyo Shimbun, Ltd.	





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[Business operations strategies (4): Control system 1]

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IoE: Abbreviation of Internet of Everything

JTEKT aims to connect everything including not only "goods" but also "matters" such as services

Construct a smart factory based on IoE (Internet of Everything)

Production management system

Anyone can perform stable manufacturing **Equipment only**

Next step that anyone can understand can be taken **Entire plant**

High productivity Easy operation Safe and stable Easy programming high-precision manufacturing Compliance guaranteed (quality control, product guarantee)

Visualize operation and abnormalities

Visualize deterioration

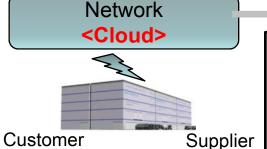
Visualize production Bottleneck process can be identified

Equipment diagnosis (preventive maintenance, failure estimation)

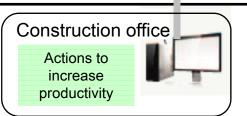
HMI to implement loE

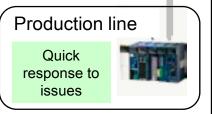
PLC to implement IoE

Software to implement IoE









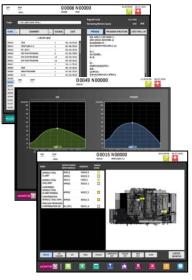
[Business operations strategies (4): Control system 2]

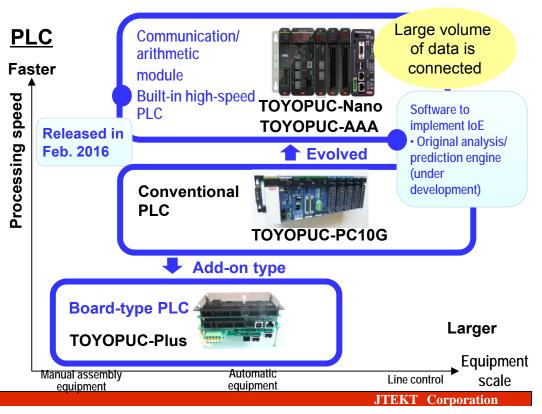
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TOYOPUC full model change (business implementation in general market) Full-scale entry to IoE business (remote diagnosis available HMI: TOYOPUC-Touch) (Big data processing module: TOYOPC-Nano, AAA) Establishment of business model for Andon system Evolution of production management system

TOYOPUC-Touch







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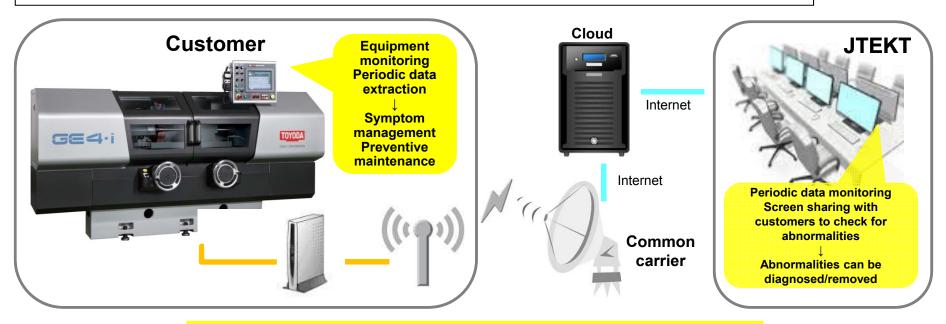
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3-2-4) Review of FY 2014 and FY 2015

[Business operations strategies (5): Customer support]

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Internet maintenance system (remote diagnosis, waveform diagnosis, parts life management)

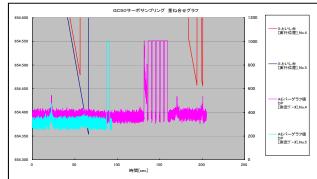


Remote screen operation and output file acquisition from CNC

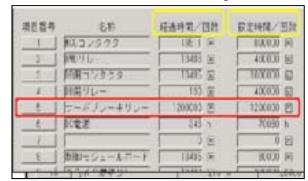
Remote diagnosis



Waveform diagnosis



Parts life/maintenance cycle



3-2-4) Actions for FY 2016 (1)

	Environmental changes in FY 2015	Incorporation into FY 2016	
Entire	• Deterioration of business situation "2016 first half estimated amount of orders: 23 billion yen (Year on year: Δ9%)"	Improve to surviving constitution from constitution that depends on sales increase Strengthen customer service engineering business	
Sales	 Provide information infrastructure capable of linking to after-market support information Identification of problems when specifications are determined 	Change to sales activities for selling values from those focused on new machines Enhance system from inquiry to order acceptance Enhance project management	
Engineering	 Increase price competition -> Increase cost cutting pressure Increase effect on latter processes due to overloading Vulnerability of development system has been revealed. 	 Develop sales engineers capable of technical proposals for optimum specifications and proposal sales Strengthen actions for reducing specification determination L/T Strengthen development management system 	
Manufacturing	• Start of reforms into smart factory • Reestablish on-site management based on standards and performance • Visualization of load (in-house and external production, personnel plan) • Evolution of smart factory • Solidify upgrading work sites • Improve precision on load management		
Revenue	Problems have been identified in wasteful cost structure through BS cleaning	Review the way of working to remove wasteful cost Strengthen cost review/estimate management system	

3-2-4) Actions for FY 2016 (2)

	Environmental changes in FY 2015	Incorporation into FY 2016
Cutting competitors • Improve competitiveness of greater and to use multi-functional • Examine development of multi-		 Review development strategy Improve competitiveness of grinders Examine development of multi-functional processing machine and new production method
Gear skiving center	 Improved customer awareness Aggravation of pursuit by other companies Delivery of mass production machines Start of preparation for cutting tool supply system 	Establish cutting tool supply system Serialize products (development of small machines) and strengthen proposal capability for each gear type
System integrator • Large investment of competitors, and shift from single machine to system business		Reinforce utilization of technologies held by the group and establish a necessary system
loE measures	Shift to IoE is accelerated Development competition between companies	Strengthen capability of proposing for existing lines Reform JTEKT into smart factory Establish Monozukuri service business based on loE

- 1. Evolution of the grinding machine business.
- 2. Sales promotion of the control unit and establish business models of IoE.
- 3. Promote business model of customer service
- 4. Production innovation of KARIYA Plant. (distribution improvement, smarter factory device)
- 5. Identify own duties and improve the way of working.

Enhancement of Fundamentals

Global HR Management

Strengthening Financial Basis

Operational Reform of Indirect Departments

Establishing Global Business Basis

3-2-5) Global HR Management

Roles & Aims

- (1) Appointment/development/optimized assignment of global management HR
- (2) Improvement of ability/organizational capabilities of individual employees

Being created/Being implemented/Being operated

Actions to be taken in and after FY 2015

Present (end of FY 2015)

(1)

Introduction of succession plan

Global HR system

Problem-solving ability

Engineering/ supervisory ability

(2)

Creation of JTEKT WAY

Promotion of diversity

Practice of global succession and global transfer

From appointment to development of next-generation executive manager candidates

Creation of global grade/evaluation/ compensation systems

Seminar for all employees
Expansion to group companies and to
overseas

Global expansion of JFMS training (JTEKT Floor Management System)

Announced in Apr. 2016
Spread to group companies and overseas

Greater employee awareness Work-life balance support

[Japan] Already introduced to department managers and line managers
[Overseas] Already introduced to department manager class.

[Overseas] Already introduced to department manager class

Training for selected 1st candidates
Selected 2nd candidates: 36 persons
(including 17 from subsidiaries outside Japan)

Completion of evaluation system design

Launch of development of global trainers

JFMS education is being promoted in Japan Being examined by Training Program GPC

Creation completed (execution of trainer training)

Seminar for executive officers, department managers, and female employees Enhanced child-care support measures (holiday baby-care system)

3-2-6) Strengthening Financial Basis (1)



Roles & Aims

Building of financial basis as "Excellent Company"

- Build change-resistant financial basis
- Secure sufficient strategic funds

[Company-wide numerical targets]

- 150 billion yen or less in interest-bearing debt
- D/E ratio: 0.3 or less
- Strategic funds to be secured: 20 billion yen or more per year

Profit improvement B/S cleanup

ROA improvement

Unification of accounting standards

Setup a business template

Establishment of appropriate asset control

Building of management system for efficient asset usage

Introduction of IFRS

<Results of activities in FY 2015 and activities toward the next term>

- (1) Accomplishment of overall inspection and organization of bad/unneeded assets
- (2) Pursuit of factors behind bad assets and enhancement of management system
 - ->Implement global prevention measures to prevent reoccurrences
- (1) Follow-up the ROBA (Return On Business Assets) as KPI
 - ->Budget and actual system is being implemented for ROBA
- (1) The unified group accounting policy is formulated and implemented
- (2) Set up the unified database for group-wide financial data to level up management
- ->Visualize and benchmarking financial data globaly

Promote improvements both profitability and efficiency for investment sustaining sound finance

3-2-6) Strengthening Financial Basis (2) – B/S Cleanup Activities



B/S cleanup activity was carried out to realize "building of change-resistant financial basis" in FY 2014 and FY 2015

Actual amount

(100 million yen)

	FY 2014	FY 2015	Total
Operating	29	41	70
Non-operating, special loss	85	58	143
Total	114	99	213

Overall inspection and organization of assets were accomplished as a whole group in two years

Future actions

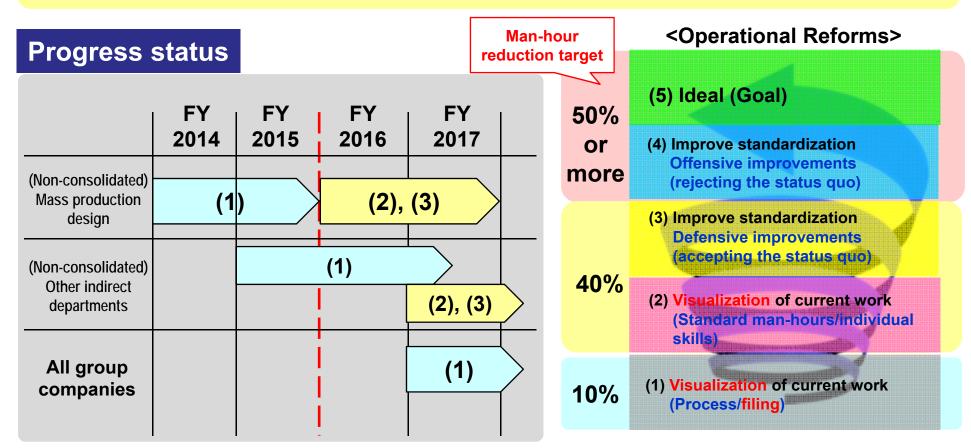
- Create preventive measures against the possibility of reoccurrence for unneeded assets
- Build monitoring system on global basis

Construct the system to detect the alert globally

=>Strengthen essential company institution

Roles & Aims

- Upgrade the standardization of daily work among all the indirect departments of the JTEKT group and <u>establish small HP/small indirect departments!!</u>
- Globally implement standardized work to realize the same system in all JTEKT group companies!!



3-2-8) Establishing Global Business Basis (Information System)

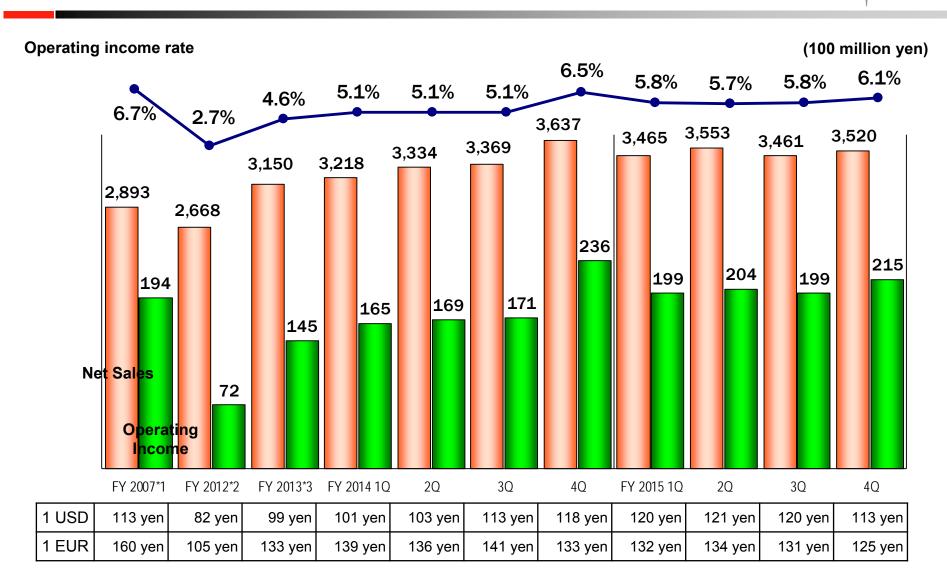
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Introduce IT to standardized core business operations on global basis to build information-sharing infrastructure and reduce cost of indirect departments!!

Main measures		Implementation	Target effect (million yen)
(1) IT introduction to standard	dized core business operations		
• Sales	Supply and demand management system Inquiry and project correspondence system	Jan. 2018 Jul. 2018	215
Production Management	Global parts process chart	Oct. 2017	125
Quality Assurance	Global sharing of quality issues	Jul. 2016	55
Accounting/Financial	Real-time collection and analysis of management information	Jan. 2019	23
(2) Build information	Cyber attack countermeasures (Overseas regions; Japan: Completed)	Sep. 2016 to	Suppression of information leak/business suspension
sharing infrastructure on global basis	Productivity improvement for indirect departments (chat, information sharing, etc.)	Feb. 2018	390
			JTEKT Corporation

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(Reference) Quarterly trend

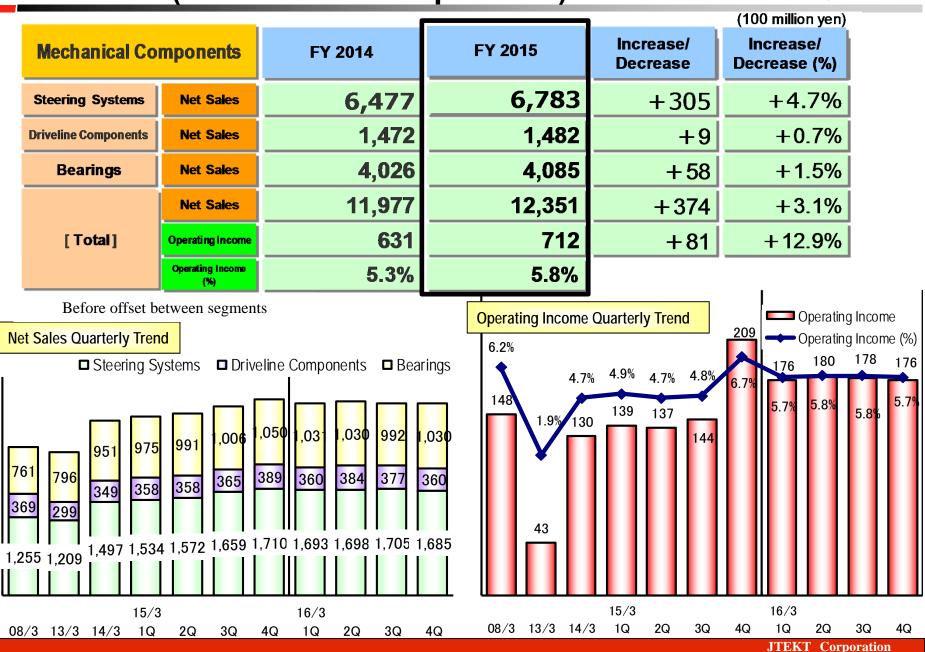


^{*1} Quarterly Average to compare with "Before Financial Crisis".

^{*2&}amp;3 Quarterly Average as well as following pages.

(Reference) Financial Results by Product (Mechanical Components)



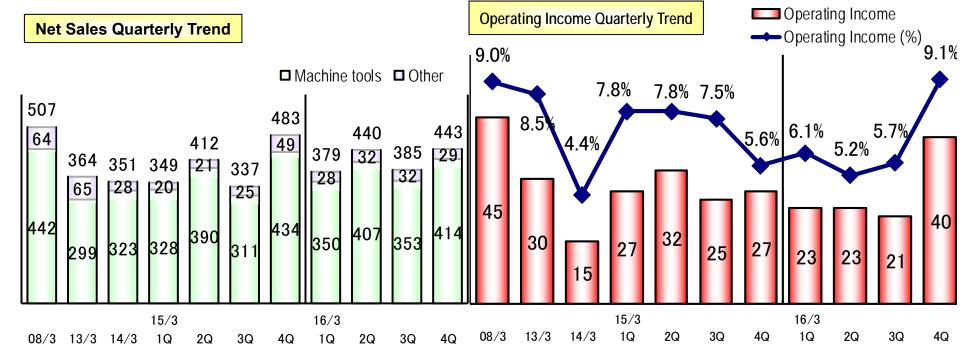


(Reference) Financial Results by Product (Machine Tools & Other)

(100 million yen)

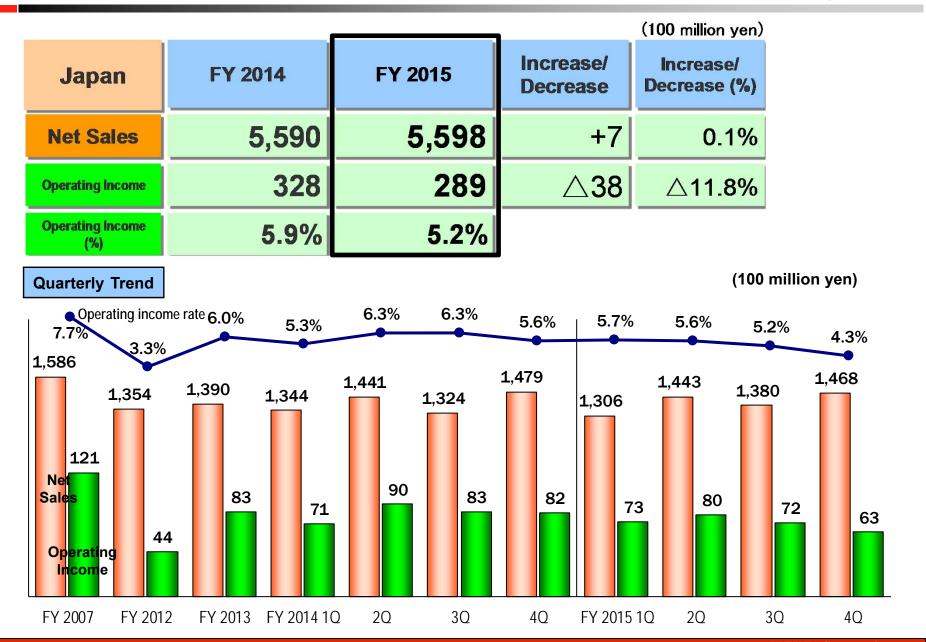
Machine Tools/Other		FY 2014	FY 2015	Increase/ Decrease	Increase/ Decrease (%)
Machine tools	Net Sales	1,464	1,525	+60	+4.2%
Other	Net Sales	117	122	+4	+4.0%
	Net Sales	1,582	1,648	+65	+4.1%
[Total]	Operating Income	112	108	△3	△3.2%
	OperatingIncome	7.1%	6.6%		

* "Deletion" is omitted.



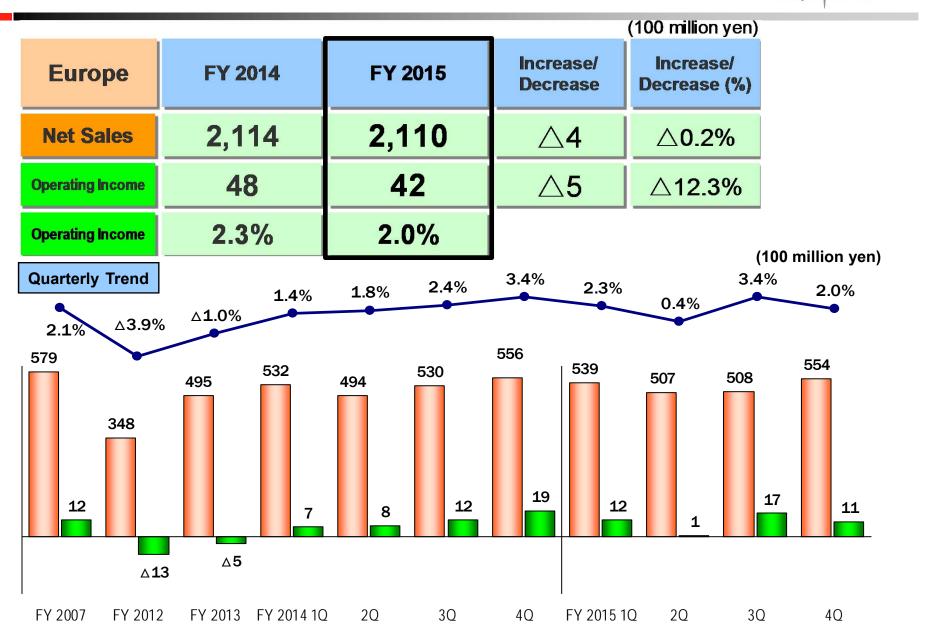
(Reference) Financial Results by Region (Japan)

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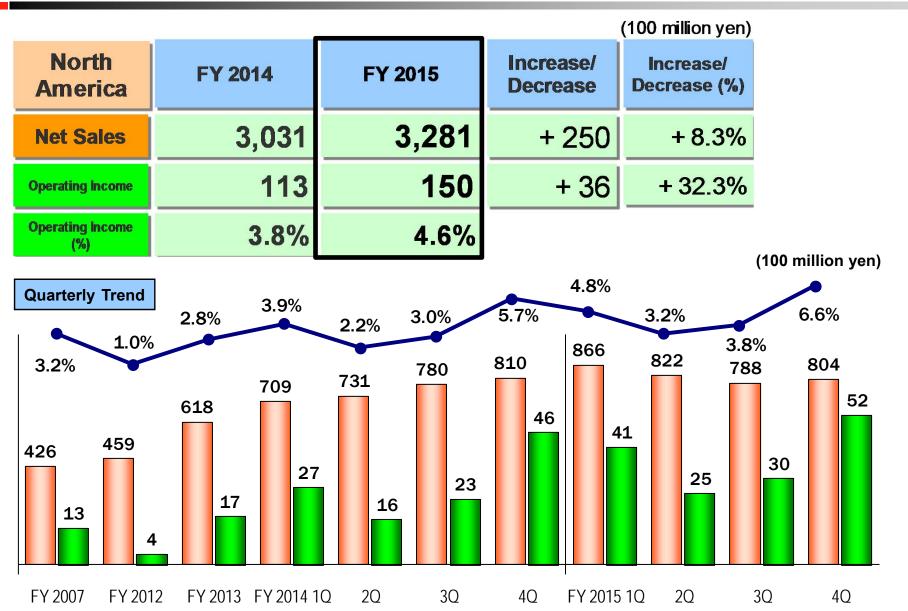
(Reference) Financial Result by Region (Europe)





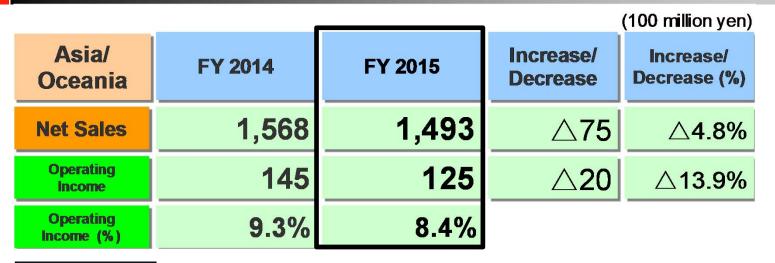
(Reference) Financial Results by Region (North America)

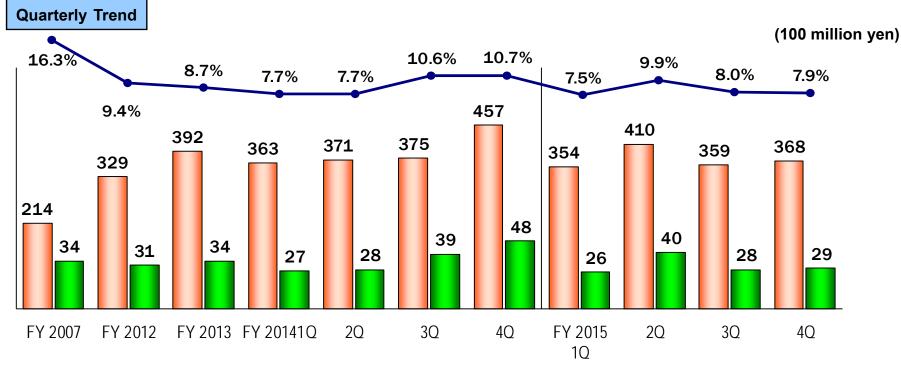




(Reference) Financial Results by Region (Asia/Oceania)

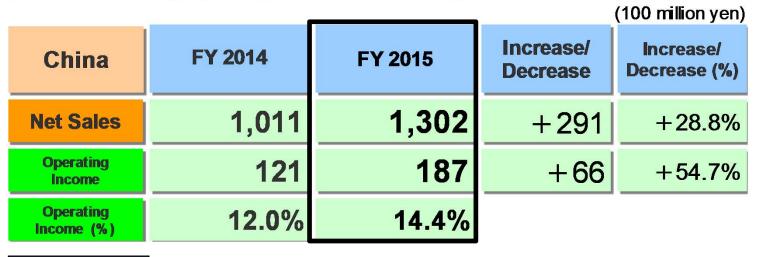


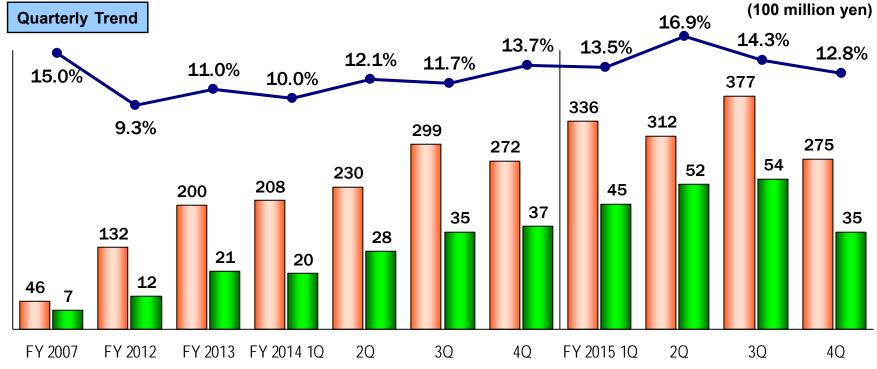




(Reference) Financial Results by Region (China)

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(Reference) Financial Results by Region (South America/Other)



