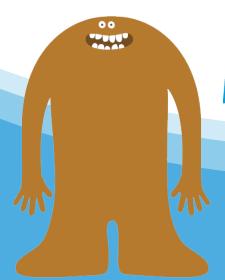


# FY2016/12 Results Briefing and the New Mid-Term Management Plan



February 17, 2017

Nabtesco Corporation



The forecast data presented herein reflects assumed results based on conditions that are subject to change.

Nabtesco Corporation does not make representations as to, or warrant, in whole or in part, the attainment or realization of any of the forecasted results presented in this document.

Numerical figures presented herein are rounded down to the nearest whole unit for monetary value and rounded off to one decimal place for percentage.

1. Annual Consolidated Results for 2016/12

2. Review of the Previous Mid-Term

Management Plan (2015/3~2017/3\*)

3. The New Mid-Term Management Plan (2017/12~2020/12)

<sup>\*</sup> Since the Company changed the account closing date in June 2015, the figures for the Medium-term Management Plan which were originally set as targets for the FY2017/3 are now applied as target figures for the FY2016/12.

# Result for FY2016/12 (JGAAP)

- Both sales and profits increased comparing with the reference values for the previous fiscal year due to robust demand for industrial robots.
- Dividends will be also raised from the previous fiscal year.

(JPY million)	2016/12 Result
Sales	244,618
Operating Profit	23,471
(OPM)	9.6%
Non-operating profit and loss	1,259
Ordinary profit	24,731
Extraordinary profit and loss	1,391
Net profit*	17,584
Net profit per share (Yen)	142.37

2016/12 Plan (As of Oct. 31st 2016)	
245	5,000
22	2,300
	9.1%
	-
21	,900
	-
16	5,000
12	29.54

2015/12 Result (Reference)Note1		
228,949		
21,308		
9.3%		
_		
22,387		
-		
14,796		
-		

DPS (Yen)	50 (Plan)
Payout ratio	35.1% (Plan)

50 (Plan)
38.6% (Plan)

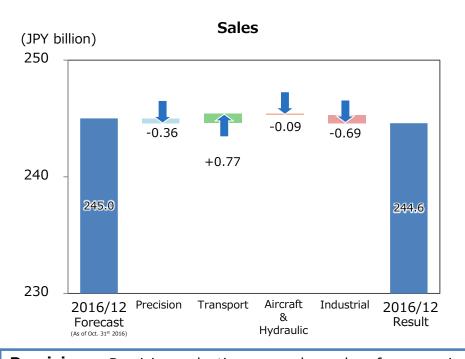
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Note1: Reference values for the FY2015/12 should be read solely as reference since the numbers were calculated based on various assumptions for the purpose of comparison with the actual results for the FY2016/12, and are not subject to audit.

<sup>\*\*</sup>Net income refers to "Net income attributable to owners of the parent."

# Result for FY2016/12 (Comparisons with the Forecast)

■ Operating profit exceeded the forecast due to robust performance in the transport equipment segment.





**Precision:** Precision reduction gears showed performance in line with the forecast due to robust demand for industrial robots.

**Transport:** Railroad vehicle equipment recorded increased sales and profits reflecting MRO\* which exceeded the forecast.

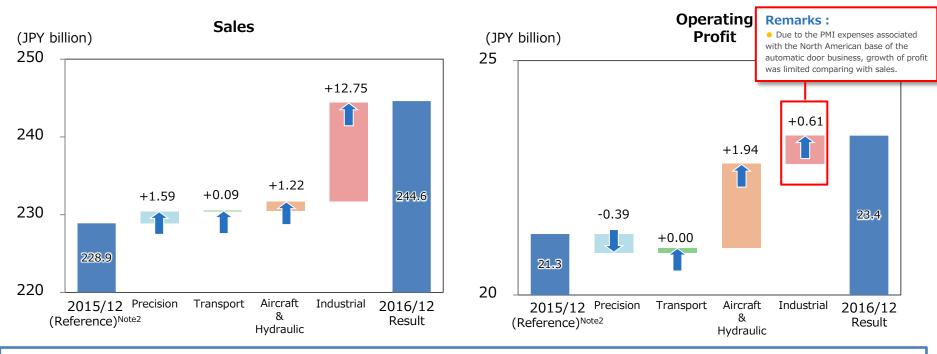
**Aircraft and hydraulic :** The aircraft equipment business failed to achieve the forecast of sales to the Ministry of Defense despite steady demand for hydraulic equipment in China.

**Industrial:** While demand for automatic doors remained weak, profits increased reflecting the revisions to the retirement benefit pension plans of the Swiss subsidiary.

<sup>\*</sup>Maintenance, Repair and Overhaul

# Result for FY2016/12 (Comparisons with FY2015/12 12M reference)

- Sales increased on the back of strong demand for precision reduction gears for industrial robots as well as due to the effects of consolidation of a sales company of automatic doors.
- Profits grew as a result of structural reforms of the hydraulic equipment business in China.



**Precision:** Precision reduction gears steadily growth in sales due to strong demand for industrial robots, etc.

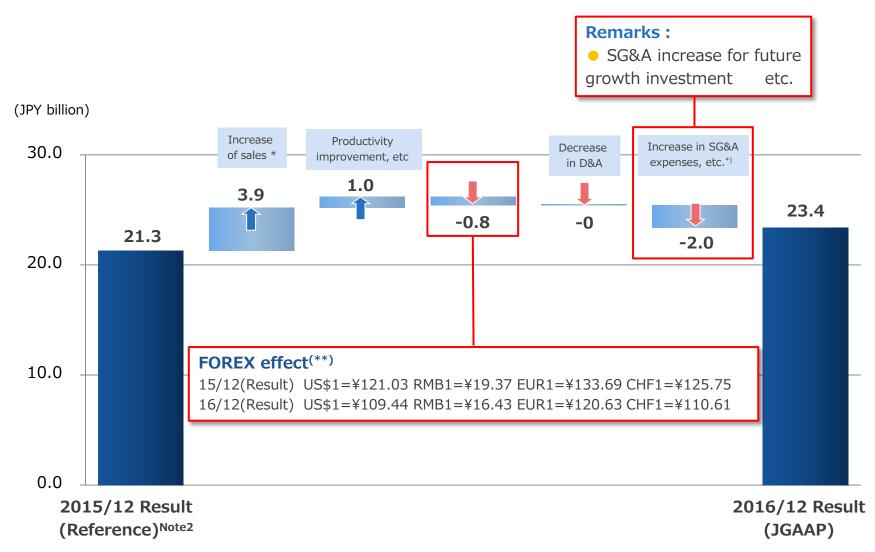
**Transport:** The performance of the railroad vehicle business was strong in China whereas the marine vessel equipment business recorded only a slight increase affected by sluggish shipbuilding and shipping market.

**Aircraft and hydraulic :** Sales increased reflecting the effects of structural reforms in the hydraulic equipment business and a rise in demand for construction equipment in China.

**Industrial:** Sales expanded due to the consolidation of a sales company of automatic doors. The packaging machine business also recorded a historical high in sales.

Note2: Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

### Consolidated Profit & Loss Result (Analysis of Changes in Operating Profit)



<sup>\* \*</sup> Fluctuations in operating profit owing to the increase of sales and SG&A expenses are based on the calculation without FOREX effect.

<sup>\*\*:</sup> FOREX sensitivity in O. P. (This represents the effect to be expected on operating profit if the exchange rate fluctuates by one yen): (US\$): 91 million, (RMB): minimal, (EUR): minimal, (CHF): minimal

Note2: Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

■ Asset increased as a result of making a company into a consolidated subsidiary in the automatic door business.

(JPY million)	2015/12 As of Dec. 31, 2015	<b>2016/12</b> As of Dec. 31, 2016	Variation
Assets	233,381	258,946	25,565
(Cash and time deposits)	35,068	41,945	6,877
(Accounts receivable)	59,750	65,712	5,961
(Inventory)	28,421	32,618	4,197
(Tangible fixed assets)	55,916	67,822	11,906
Liabilities	84,456	100,425	15,968
(Interest-bearing debt)	15,333	16,995	1,661
Net assets	148,924	158,521	9,596
(Stock acquisition right)	379	466	86
(Minority interests)	6,476	7,933	1,456
Equity capital	142,068	150,121	8,053

 1. Annual Consolidated Results for 2016/12

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 The New Mid-Term Management Plan (2017/12~2020/12)

<sup>\*</sup> Since the Company changed the account closing date in June 2015, the figures for the Medium-term Management Plan which were originally set as targets for the FY2017/3 are now applied as target figures for the FY2016/12.

# Review of the Previous Mid-Term Management Plan

- ■Our business has grown steadily in developed countries, whereas businesses in emerging countries have been sluggish reflecting the economic deceleration in China and Southeast Asian countries. Profitability shrank in contrast to expanded sales.
- The payout ratio is maintained at 30% and over in line with the Plan.

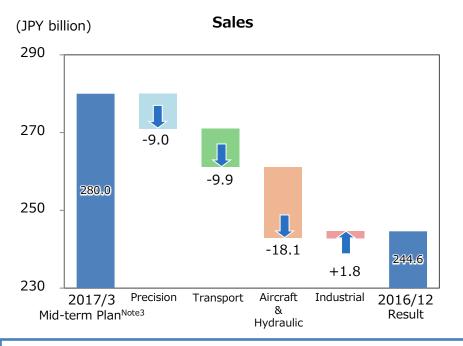
(JPY million)	2014/3 Result	2017/3 Mid-term Management Plan <sup>Note3</sup>	2016/12 Result
Sales	202.2	280.0 ±5%	244.6
Operating Profit	20.0	34.0	23.4
ОРМ	9.9%	12.0%	9.6%
Net profit*	14.9	24.0	17.5
EPS (Yen)	117.95	190	142.37
ROA	6.9%	7.5%	7.1%
ROE	12.2%	15.0%	12.0%
Payout ratio	32.2%	30% or over	35.1% (Plan)

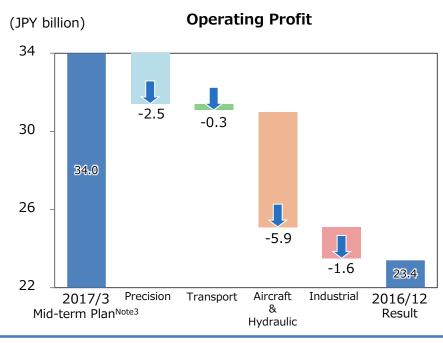
Note3: Since the Company changed the account closing date in June 2015, the figures for the Medium-term Management Plan which were originally set as targets for the FY2017/3 are now applied as target figures for the FY2016/12.

<sup>\*</sup>Net income refers to "Net income attributable to owners of the parent."

# Review of the Previous Mid-Term Management Plan

■ Steady growth was observed on the back of strong demand for precision reduction gears for industrial robots and the favorable effects of M&A in the automatic doors business despite a deteriorated business environment in China as well as sluggish demand in emerging countries affecting the hydraulic equipment business.





**Precision :** In contrast to precision reduction gears showing robust performance, sales of new energy equipment failed to grow due to the delayed start of the solar thermal power market.

**Transport:** Development of emerging markets including Southeast Asia delayed for the railroad vehicle equipment and commercial vehicle equipment businesses. The marine vessel equipment business was negatively affected by the sluggish shipbuilding and shipping market.

**Aircraft and hydraulic:** The Chinese market decelerated mainly in hydraulic equipment.

**Industrial:** Sales in the automatic doors business achieved the target by means of M&A, etc.

Note3: Since the Company changed the account closing date in June 2015, the figures for the Medium-term Management Plan which were originally set as targets for the FY2017/3 are now applied as target figures for the FY2016/12.

1. Annual Consolidated Results for 2016/12

Review of the Previous Mid-Term
 Management Plan(2015/3~2017/3\*)

3. The New Mid-Term Management Plan (2017/12~2020/12)

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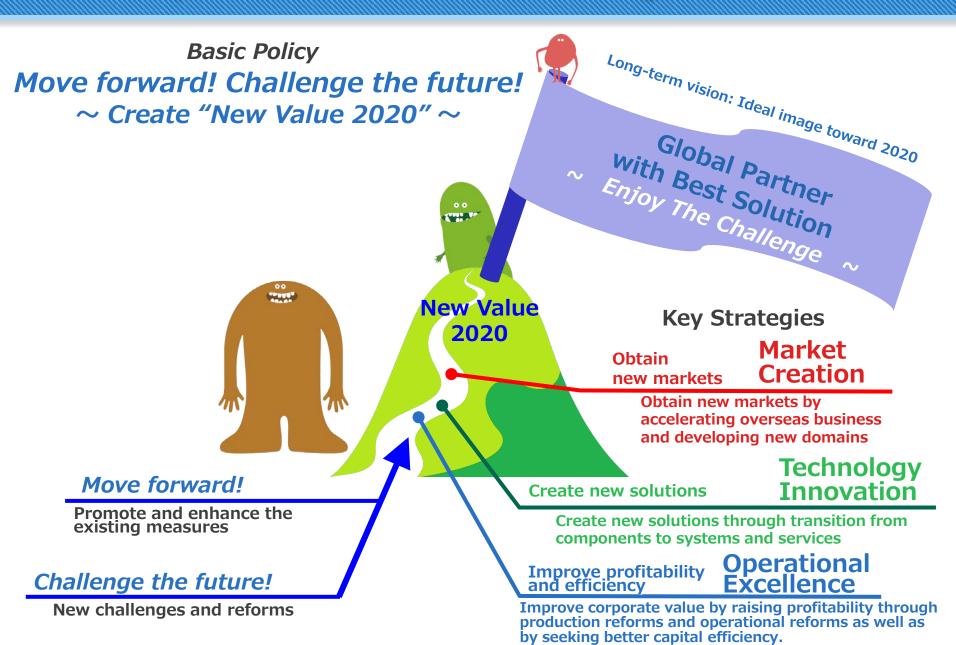
Our commitments in the New Medium-term Management Plan

ROE: 15%

Consolidated payout ratio: 35% or over

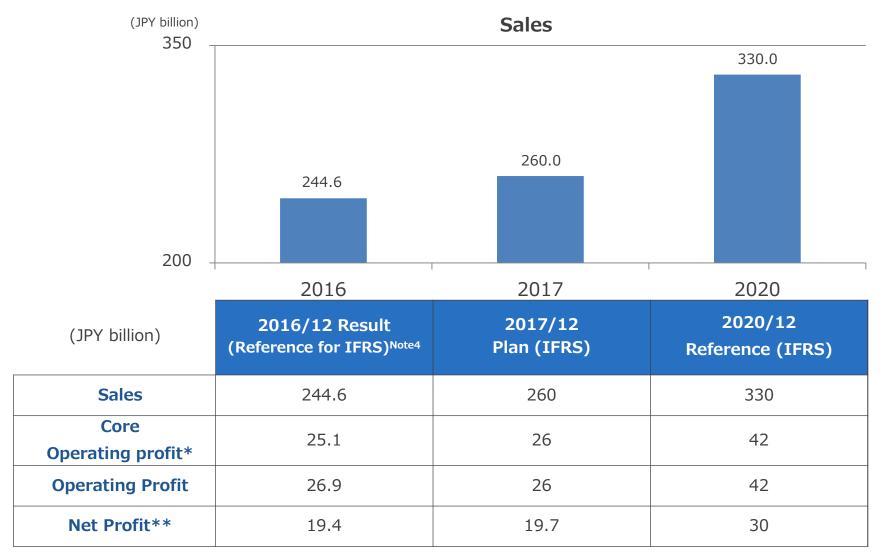
Focus on solving ESG issues

# Basic Policy of the New Medium-term Management Plan



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# Mid-Term Management Plan (Reference)



<sup>\*</sup>Core operating profit: Calculated the sum of operating income year ended December 2016(JGAAP), goodwill amortization and others.

<sup>\*</sup>Net Profit : Net profit attributable to owners of the parent

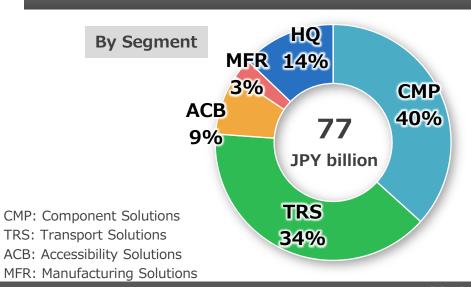
Note 4: Actual figures for FY2016/12 (IFRS) represent referential values prepared for the purpose of comparison with the forecast for FY2017/12. Therefore, they are subject to change after auditing.

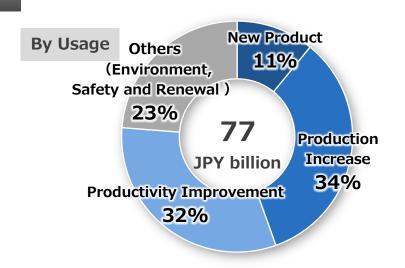
# Investment for the further growth

# ■ Invest for further organic growth and other strategies for growth

(JPY billion)	Previous mid-term plan period accumulated	New mid-term plan period accumulated 17/12~20/12
CAPEX	31	77
R&D	20	40
M&A etc.	10	30

#### New mid-term plan (4 years accumulation)





Efforts in Non-financial Aspects: Reinforcing Managerial Base to Support Basic Strategies

■ Realizing highly efficient production, highly environmental functions and a comfortable working environment by introducing smart factory systems.

### Reduce burden on the environment.

- Reduce CO2 emissions
- Promote zero emission efforts
- Reduce the use of toxic substances
- Establishing overwhelming competitive superiority based on "Manufacturing Innovation."

# **Manufacturing Innovation**

- Realize sophisticated automatization and promote smart production management by effective use of IoT and AI technologies
- Develop proprietary production technologies
- Optimize the "Make & Buy" balance, and promote reforms in procurement and logistics

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# **Growth Strategy by Business Segment**

Achieve growth based on individual business-oriented strategy on top of organic growth.

#### **Growth with market growth**

#### **Technology superiority strategy**

# Precision reduction gears Aircraft equipment

 Strategies to maintain competitive superiority

# Reinforcement of business bases

#### **Company-wide basis:**

- Reinforce business bases through operational and organizational reforms.
- Enhance financial strategy (by introducing ROIC as an administrative index).

#### Growth based on

each market-oriented strategy

#### (1) Expansion of regional market share

#### **Automatic doors**

- Expand market shares by regioncentered strategies
- Improve profitability through value chain model

#### (2) Penetration into new markets

# Railroad vehicle equipment Packaging machines

- Develop markets in Europe, China and Southeast Asia
- (3) Expansion of product line-up

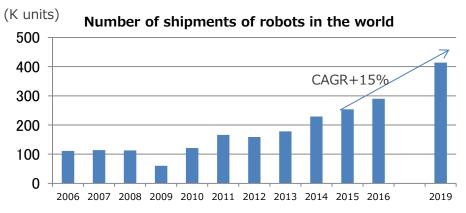
Hydraulic equipment Commercial vehicle equipment Marine vessel equipment

- Expand product line-up.
- Respond to systematization and modularization.

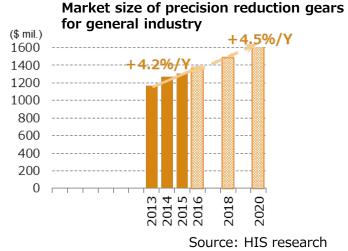
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# Component Solutions (CMP): Precision Reduction Gears

- Maintain competitive superiority in precision reduction gears for industrial robots as our business base
- Expand sales in the general industry market



■ The number includes all sizes from small to large. Source: IFR



#### **Technology Innovation**

Maintain competitive superiority based on overwhelming technologies and a wide range of products

#### **Operational Excellence**

Pursue automatization and labor saving to build highly efficient factories and expand productivity

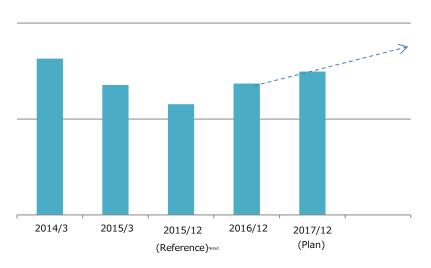
#### **Market Creation**

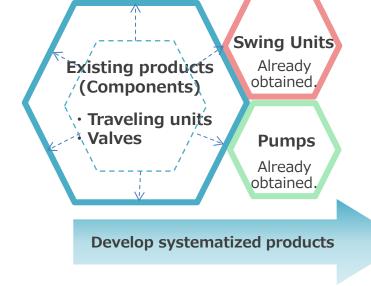
Develop high value-added products targeted at the expansion of sales to non-robotics industries.

# Component Solutions (CMP): Hydraulic Equipment

**■** Expand product line-up and respond to systematization and modularization

#### Trend of net sales





Note 2: Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

#### **Technology Innovation**

Enhancement of competitive edge of the existing products, and development of next-generation systematized products

**Operational Excellence** 

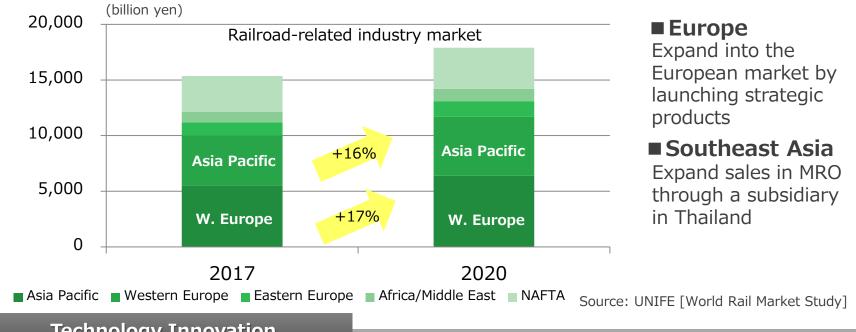
Further reinforcement of the global production system

**Market Creation** 

Sales and development of uses of systematized products

# Transport Solutions (TRS): Railroad Vehicle Equipment

#### ■ Penetration into the European and Southeast Asian markets



**Technology Innovation** 

Launch of systematized products

**Operational Excellence** 

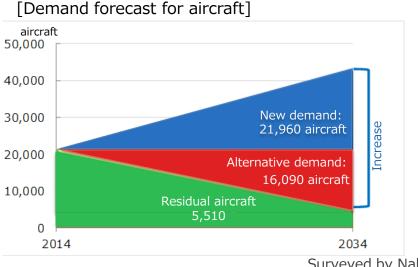
Promote automatization in logistics and inspection processes

**Market Creation** 

**Expand sales in the European market** 

# **Transport Solutions (TRS): Aircraft Equipment**

■ Provide creative customer value to realize growth in the commercial aircraft business



- Business for the Ministry of Defense Stable
- New programs for commercial aircraft B737MAX (Operation will start in 2017) B777X (Operation will start in 2020)

Surveyed by Nabtesco.

#### **Technology Innovation**

#### **Promote continuous innovations**

**Operational Excellence** 

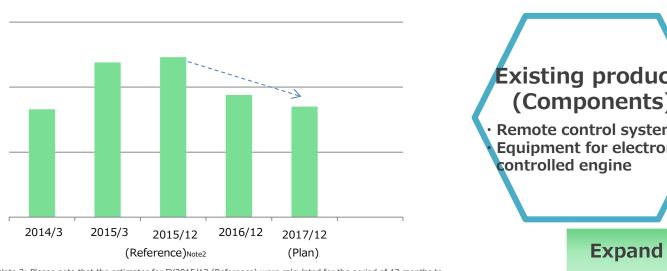
Improve productivity and reduce burden on the environment

**Market Creation** 

Promote proposal-based MRO business to improve added value for customers

# **Transport Solutions (TRS): Marine Vessel Equipment**

■ Increase profits by expanding product line-up and service menu



Note 2: Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

Trend of net sales

#### environmental regulations Existing products (Components) **Remote control systems** Equipment for electronical Meet energy-saving requirements

**Expand product line-up** 

Meet

#### **Technology Innovation**

Develop products that meet environmental regulations and energy-saving requirements

**Operational Excellence** 

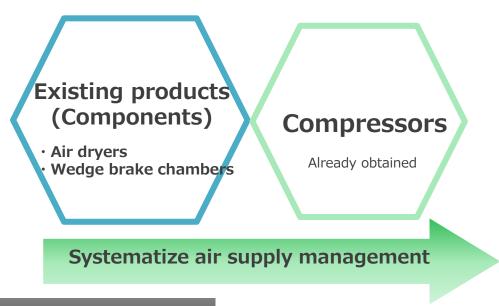
Improve efficiency in SCM by effective use of IoT and AI

**Market Creation** 

Enhance proposal-based sales activities by effective use of ICT and IoT

# Transport Solutions (TRS): Commercial Vehicle Equipment

Develop systematized products and expand business in Europe



**Technology Innovation** 

Shift from components to systematized products

**Operational Excellence** 

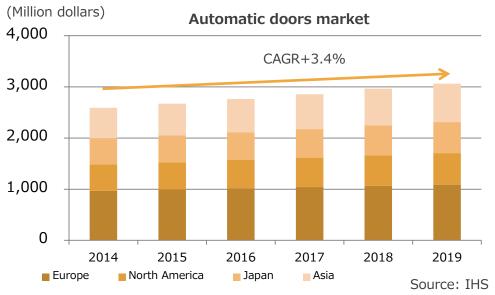
Implement globally optimum production locations strategy

**Market Creation** 

Expand business in Europe and India by utilizing the Group's business bases

# **Accessibility Solutions (ACB): Automatic Doors**

■ Enhance the value chain business bases, and expand market shares by means of regionfocused business.



#### ■ Target of CAGR: 5% or higher

- Enhance value-chain models (including the use of M&A)
- Enhance the capability of solutions.

**Technology Innovation** 

Develop and provide high value-added maintenance services.

**Operational Excellence** 

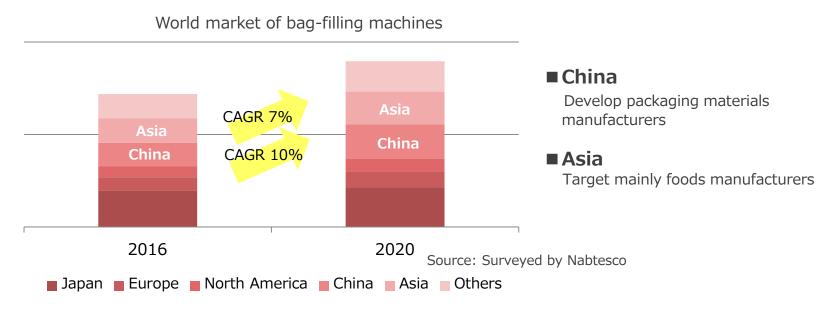
Improve profitability by means of reforms of SCM.

**Market Creation** 

Further promote the regional value chain model.

# Manufacturing Solutions (MFR): Packaging Machines

■ Penetrate into emerging markets including China and Southeast Asia, etc.



**Technology Innovation** 

**Expand product domains** 

**Operational Excellence** 

Shorten the production lead time by introducing common platforms

**Market Creation** 

Enhance sales expansion in Europe, the United States and Asia

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# Growth Investments and Promotion of Reinforcement of Business Base up to the Previous Med-term Management Plan

#### Precision reduction gears

- Construction of a new factory in China
- Expand and reinforce the mother factory in Japan

#### Aircraft equipment

 Investments in a new factory for a new program (totaling 10 billion yen)

#### **Hydraulic equipment**

- Reorganization of the factories in China
- Expansion of product line-up. (Acquisition of Hyest Corporation)

#### **Automatic doors**

 M&A mainly in the United States

#### Railroad vehicle equipment

- Incorporation of a sales subsidiary in Thailand
- Acquisition of a production base in Europe (Nabtesco Oclap)

#### **Technology and R&D Division**

 Acquisition of OVALO to promote the introduction of mechatronics

#### Commercial vehicle equipment

 Acquisition of a German manufacturer of compressors

Incorporation of a subsidiary in India; and Relocation and expansion of Nabtesco Digital Engineering Center

# Forecast for FY2017/12 (IFRS)

(JPY million)	2016/12 Result (Reference for IFRS) <sup>Note4</sup>	2017/12 Plan (IFRS)	Variation
Sales	244,618	260,000	15,382
Core Operating Profit*	25,175	26,000	825
O.P.	26,938	26,000	-938
Net Profit*	19,445	19,700	255
Net profit per share	157.43	159.49	2.06
ROA	7.9%	7.3%	-0.6pt
ROE	13.5%	12.7%	-0.8pt

#### Remarks:

- Steady demand from Precision reduction gears for Industrial robots.
- Consolidation of automatic door business subsidiary (3M)

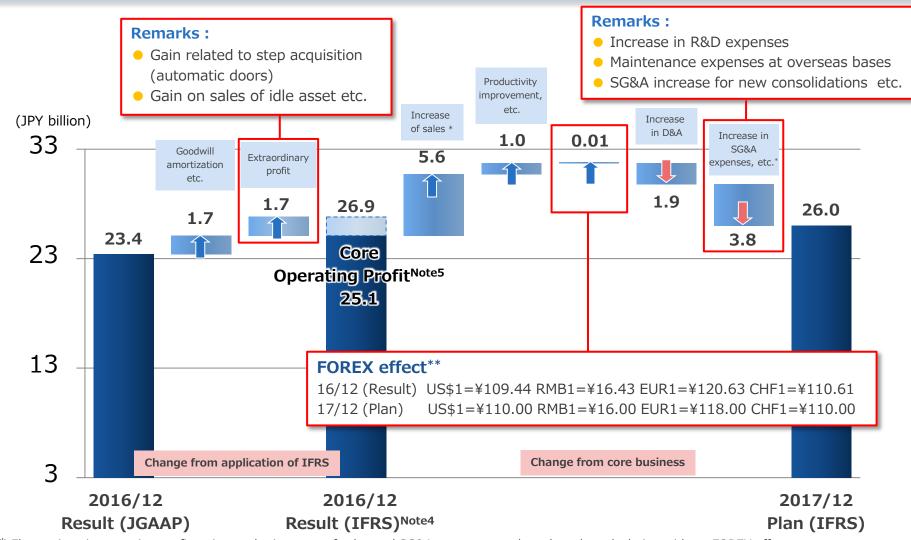
Dividend per share (Yen)	50(Plan)	56(Plan)	6
Payout Ratio	31.8%(Plan)	35.1%(Plan)	3.3pt

Note4: Actual figures for FY2016 (IFRS) represent referential values prepared for the purpose of comparison with the forecast for FY2017. Therefore, they are subject to change after auditing.

<sup>\*</sup>Core operating profit: Calculated the sum of operating income year ended December 2016(JGAAP), goodwill amortization and others.

<sup>\*</sup>Net Profit: Net profit attributable to owners of the parent

#### Consolidated Profit & Loss Result (Analysis of Changes in Operating Profit)



<sup>\*</sup> Fluctuations in operating profit owing to the increase of sales and SG&A expenses are based on the calculation without FOREX effect.

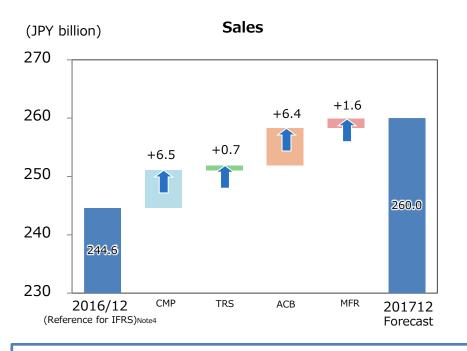
Note4: Actual figures for FY2016 (IFRS) represent referential values prepared for the purpose of comparison with the forecast for FY2017. Therefore, they are subject to change after auditing.

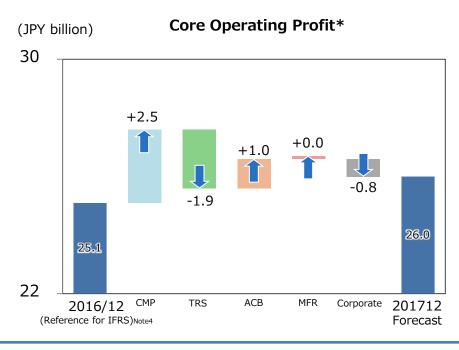
Note5: Core operating profit: Calculated the sum of operating income year ended December 2016(JGAAP), goodwill amortization and others.

<sup>\*\*:</sup> FOREX sensitivity in O. P. (This represents the effect to be expected on operating profit if the exchange rate fluctuates by one yen): (USD): JPY 54 million (RMB): JPY 45 million (EUR): minimal

# Forecast for FY2017/12 (IFRS)

■ Both sales and profits increased reflecting strong demand for precision reduction gears and the effects of consolidation of an automatic door sales company





**CMP:** Strong demand for precision reduction gears for industrial robots and an increase in demand for hydraulic equipment in emerging countries

TRS: Decrease in demand due to the influence of development of China's proprietary high-speed railroad vehicle models

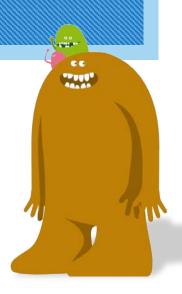
**ACB:** Favorable effects of the consolidation implemented in the previous fiscal year of an automatic door sales company (One quarter effect)

MFR: Expansion of overseas sales of packaging machines

Note4: Actual figures for FY2016 (IFRS) represent referential values prepared for the purpose of comparison with the forecast for FY2017. Therefore, they are subject to change after auditing.

<sup>\*</sup>Core operating profit: Calculated the sum of operating income year ended December 2016(JGAAP), goodwill amortization and others.

# **Appendix**



# **CAPEX, R&D and Depreciation**

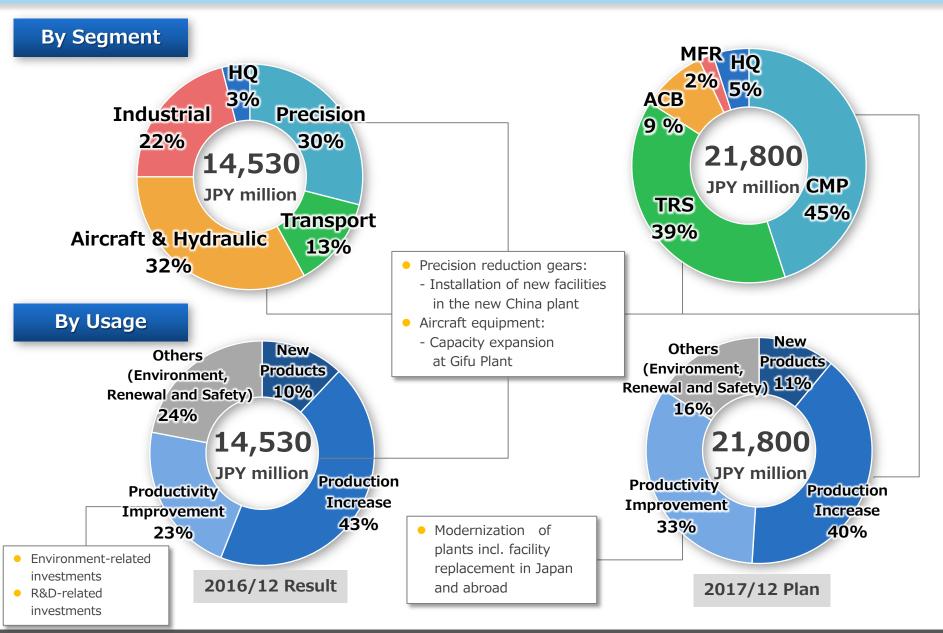
(JPY million)	2016/12 Result
CAPEX	14,530
R&D	7,362
Depreciation	7,406

2017/12 Plan
21,800
8,700
9,300

2015/12 Result (Reference)*
10,291
7,265
7,399

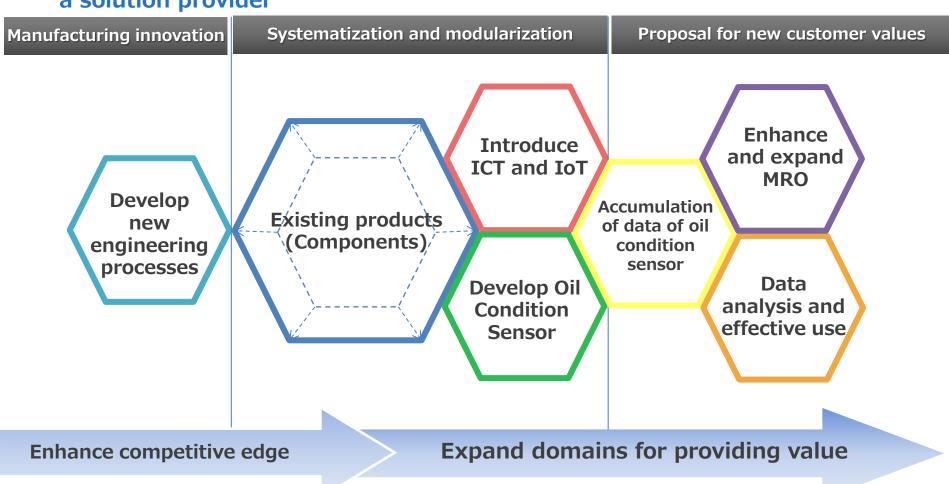
<sup>\*</sup> Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

### **Breakdown in CAPEX**



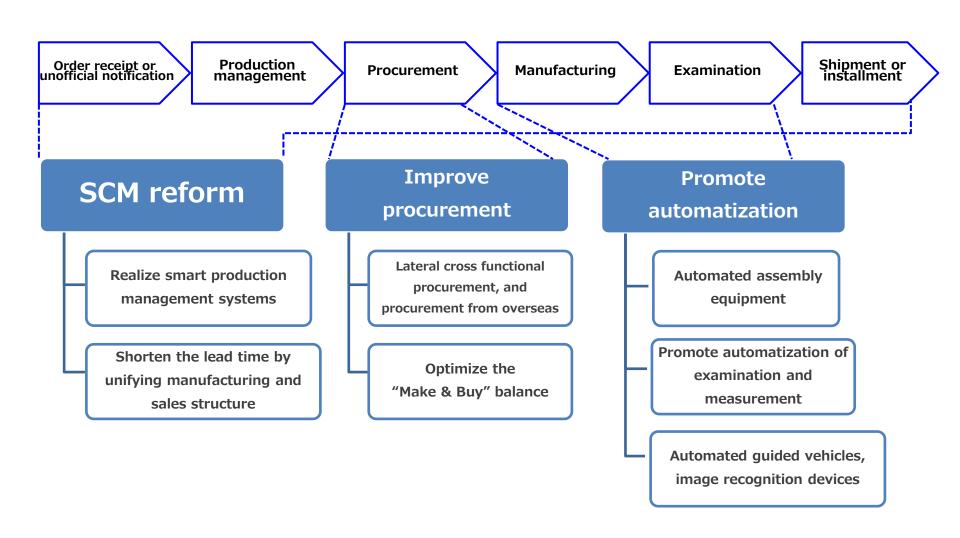
# Market Creation/Technology Innovation

- Enhance competitive edge of existing products by means of "Development of new engineering processes"
- Expand business domains for providing value through shifting to becoming a solution provider



# **Operational Excellence**

■ Improve profitability through production reforms (improving efficiency in manufacturing)



# **Operational Excellence**

■ Increase profitability by means of production reforms and operational reforms, and improcorporate value by further boosting capital efficiency.

Introduce ROIC as an **Increase profits of Financial leverage** internal administrative **businesses** indicator ■ Focus on debt procurements Asset reduction and improvement of (bank loans and straight bonds) efficiency will be implemented at the field level. ■ Maintain credit ratings at A. ■ Increase profits through growth investments **Generating cash** ■ Modernization of domestic factories, responses to **Growth investments** increased production (Strategic investments, and investments in M&A) ■ Investments in R&D ■ Strategic M&A ■ Maintain the payout ratio at Shareholders' return 35% or higher Aim at continuous increase in

dividends.

### Non-financial Efforts: Provision of Value to Stakeholders

■ Implement sustainable management with the aim of solving the ESG issues

#### **Shareholders**

- Improve governance.
- Enhance risk management.
- Enhance the transmission of ESG information.

#### **Customers**

- Pursue customer satisfaction.
- Secure high quality and safety.

### **Employees**

- Working-style reform.
- Promote human resources development and diversity.
- Secure safe workplaces.

### **Business partners**

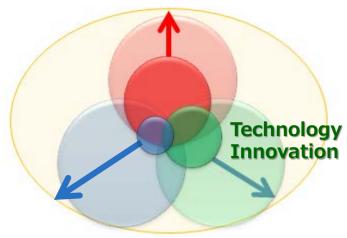
■ Responsible procurement activities

# The environment and society

- Response to climate change issue
- Environmentally conscious manufacturing
- Development of local communities.

## Non-financial Efforts: Reinforcement of Management Base to Support the Basic Strategy

#### **Market Creation**



### Operational Excellence

- Reinforce the operational base by means of structural and operational reforms.
- **■** Improve corporate governance
  - Accelerate decision-making procedures by delegation of power.
  - Enhance regional control functions and monitoring systems.
- Activate organizations and sophisticate the use of human resources.
  - Promote working-style reform.
  - Implement further measures for employees' health.
  - Promote diversity.

- Reinforce the management base toward the acceleration of overseas business development
- Cultivate human resources capable of engaging globally, and hire personnel specializing in electronics and electric fields.
- Establish internal control, compliance and risk management structures on a global basis.
  - The Compliance Committee and Risk Management Committee were established. (December 2016)
- Code of Ethics of the Nabtesco Group was established. (Respect for human rights; prevention of bribery, etc.)
- Realize highly efficient production and high environment functions and a comfortable working environment by introducing smart factory systems.
- Establish overwhelming competitive superiority based on Manufacturing Innovation.
  - Reduction of burdens on the environment: Long-term targets:

(compared with FY 2015)	2030	2050
Reduction of CO <sub>2</sub> emissions	-30%	-80%

#### Medium-term targets:

(compared with FY 2015)	2020
Reduction of CO <sub>2</sub> emissions:  • Reduce global sales cost unit.  • Reduce total domestic emissions.	• -9% or lower • Maintain the FY2015 level
Promote zero-emissions initiatives.	Zero landfill disposal
Reduce the use of toxic substances.	Maintain the sales cost unit recorded in FY 2016

- Manufacturing Innovation:
- Realize sophisticated automatization and promote smart production management by effective use of IoT and Al technologies.
- Develop proprietary production technologies.
- Optimize the "Make & Buy" balance, and promote reforms in procurement and logistics.

#### Non-financial Efforts: Enhance CSR toward Responsible Corporate Behavior

#### **■ Promote systematization of CSR activities**

- The CSR Committee was established. (August 2016)
- The basic policy on CSR was established:

By practicing The Nabtesco Way, the Nabtesco Group strives to ensure management transparency, provide safety, comfort and a sense of security, and fulfill its corporate social responsibilities, thereby contributing to solving environmental and social issues and seeking to enhance corporate value on a sustainable basis.."

■ Re-examination of materiality (material CSR Issues)

General Category	ESG Category	Materiality (Material CSR Issues)	Major SDGs of Relevance
Ensure Governance		Strengthen corporate governance	16 PEAGE JUSTICE AND STRONG 17 PARTNERSHIPS AND STRONG NO. 18 FOR THE GOALS
management transparency	(G)	Promote risks management and compliance behavior	
		●Ensure proactive dialogue with stakeholders	
Provide safety,	Society (S)	Enhance customer satisfaction     Ensure quality and safety	3 GOOD HEALTH  AND WELL-SCHOOL  TO GENDER  T
comfort and a sense of security		<ul> <li>Develop human capital and promote workplace diversity</li> <li>Provide safe and comfortable workplaces</li> </ul>	8 DECENT WORK AND BEOMONIE GROWTH 9 INDUSTRY INNOVATION AND PRESTRUCTURE
		•Respect human rights Prevent corruption	10 REDUCED 12 RESPONSIBLE CONSUMPTION AMPROPRICTION
		•Fair, proper and transparent procurement activities	
		●Local community development	6 CLEAN WATER 7 AFFORDABLE AND CALEAN EMERGY
	Environment	●Countermeasures for climate change	<b>7</b>
	(E)	Environmentally friendly manufacturing	11 SISTAINABLECTIES 13 CLIMATE AND COMMUNITIES
	●Environmentally friendly manufacturing		A DACTION
		●Reduction of environmental impact	

### Non-financial Efforts: External Recognition of Achievements

- Promoting dialogues with stakeholders through active transmissions of ESG information.
- **■** Integrated Report
  - Selected as "Excellent" by "Nikkei Annual Report Awards 2016"



(https://www.nabtesco.com/library/annual report/oir2015 12/eng/index.html)

- Inclusion in major external assessment and ESG-related indices for FY 2016
  - DJSI World Index
  - FTSE4Good Index Series
  - MSCI Global Sustainability Index
  - STOXX Global ESG LEADERS INDICES
- JPX-NIKKEI 400
- CDP's Climate A List
- CDP's Supplier Climate A List

MEMBER OF

Dow Jones Sustainability Indices

In Collaboration with RobecoSAM (





2016 Constituent MSCI Global Sustainability Indexes









### **Topic: Acquisition for Promoting Mechatronics**

#### **OVALO GmbH/adcos GmbH**

	OVALO GmbH	adcos GmbH
Location	Limburg an der Lahn (Germany)	Köln (Germany)
Line of merchandise	Chassis system, and engine system products	ECU* for development, and software
Non-consolidated net sales (Forecast for FY2016/12)	Approx. 20 million euros	Approx. 2 million euros
Acquisition value	Approx. 82 million euros (including the acquisition price of claimable assets)	





\*ECU (Electric Control Unit) for development; Computers dedicated to development used in RCP (Rapid Control Prototyping) before designing and manufacturing computers loaded on actual equipment.

#### **Expected synergies**

### **Technology Innovation**

Utilizing capability of development of unified motor and control units, we will systematize and introduce mechatronics to various products







#### **Market Creation**



To be used as the new development and production base in Europe

<sup>\*</sup>RCP: A development technique for checking and improving software, etc. reproduced in the model-based design by downloading to a computer dedicated to development, and by actually operating it.

### **Main Products: Precision Equipment Segment**

#### **Precision Reduction Gears**

■ Joints of Industrial Robots

Others Nabtesco Approx. 60% 60% world market share No.1 Others

Nabtesco

60%

■ Machine Tool ATCs

(ATC = Automatic Tool Changer)

New Energy Equipment



No.1

Approx. 60%

domestic market share



#### **Main Customers**

■Precision Reduction Gears

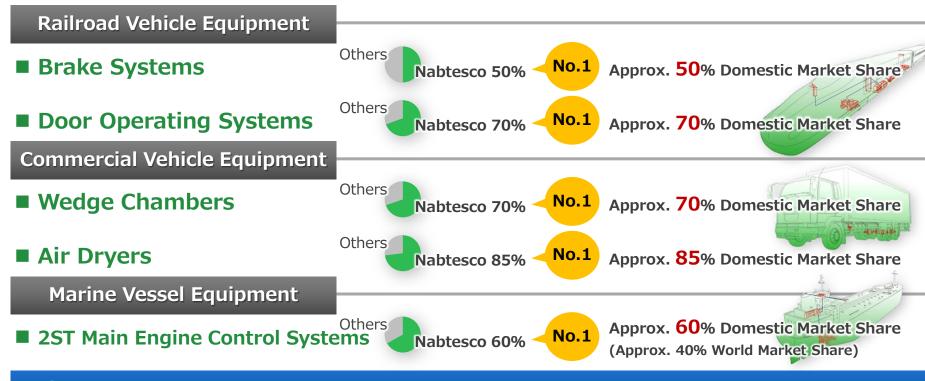
Industrial Robots: Fanuc, Yaskawa Electric, KHI, KUKA Roboter (Germany), ABB Robotics (Sweden)

Machine Tools: Yamazaki Mazak, Okuma, DMG Mori Seiki

■New Energy Equipment

Solar Tracking Equipment: Cobra Thermosolar Plant (Spain) Drive Units for Wind Turbines: MHI, Hitachi, Ltd., Others

### Main Products: Transport Equipment Segment



#### **Main Customers**

- Railroad Vehicle Equipment

  JR Companies, Private railway companies, KHI, Bullet train and subway projects in China
- Commercial Vehicle Equipment
  Hino, Mitsubishi Fuso Truck & Bus, Isuzu, UD Trucks
- Marine Vessel Equipment

  KHI, Mitsui Engineering & Shipbuilding, MHI, Hitachi Zosen, Makita, Hyundai Heavy Industries (Korea),

  Doosan Engine (Korea), Hudong Heavy Machinery (China), MAN Diesel (Denmark)

42

### Main Products: Aircraft & Hydraulic Segment

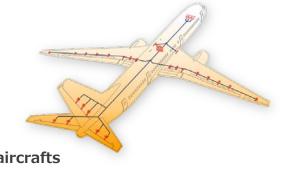
#### Aircraft Equipment

#### ■ Flight Control Actuation Systems (FCA)

 One of the four major world players for FCA systems (major FCA supplier to Boeing Company)

 Expanding business into engine accessories and power supply systems





#### **Hydraulic Equipment**

■ Traveling Units for Hydraulic Excavators





#### **Main Customers**

■ Aircraft Equipment

Boeing, KHI, MHI, IHI, Japanese Ministry of Defense, Airlines

**■** Hydraulic Equipment

Komatsu, Kobelco Construction Machinery, Kubota, Sumitomo Construction Machinery, Hitachi Construction Machinery, Sany、Zoomlion、XCMG、LiuGong

### Main Products: Industrial Equipment Segment

#### **Automatic Doors**

■ Automatic Doors

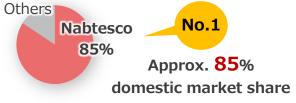


**■ Platform Screen Doors** 



#### **Packaging Machines**

■ Packaging Machines for Retort Pouch Foods









#### **Main Customers**

Automatic Doors

Automatic Doors for buildings: Major general contractors, sash manufacturers, hospitals, banks, public institutions, etc.

**Platform Doors:** Subway projects in France and China, others

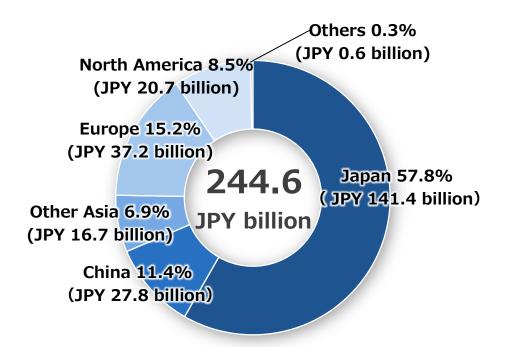
■ Packaging Machines

Mitsui Sugar, Ajinomoto, Marudai Food Co., Ltd., ARIAKE Japan, KENKO Mayonnaise, P&G, Kao, Lion, beverage companies in North America, food companies in China

### Sales by Geographic Segment

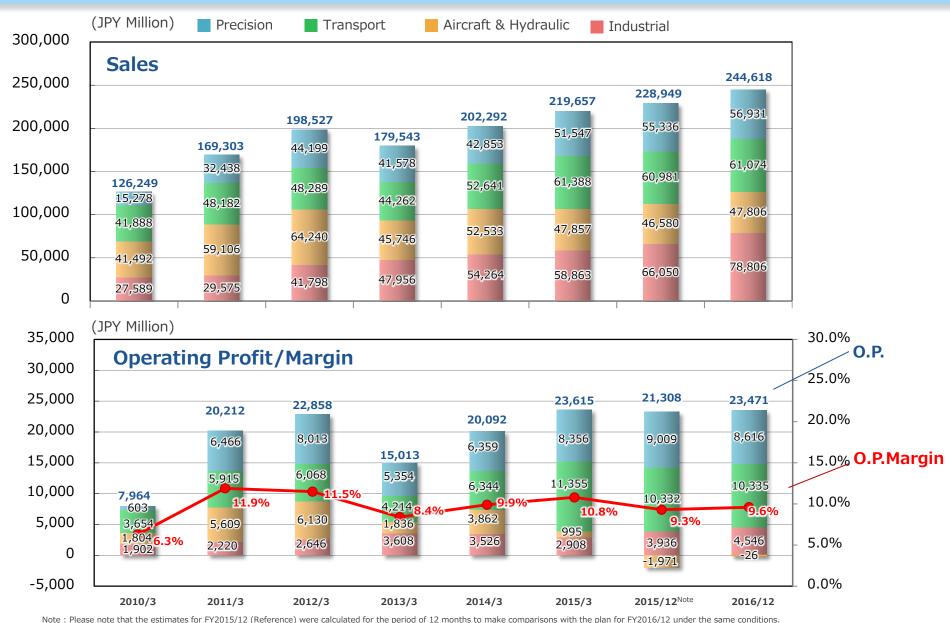
### 2016/12 result

(12-month period for both domestic and overseas companies)



Oversea sales	JPY 103.2 billion
Ratio	42.2%

### Result for Sales and Operating Profit by Business Segment



### **Segment Sales and O.P. (Previous Segmentation: JGAAP)**

#### (JPY million)

Segment	Term	2016/12 Result
	Sales	56,931
Precision	O.P. (OPM)	8,616 (15.1%)
	Sales	61,074
Transport	O.P. (OPM)	10,335 (16.9%)
Aircraft	Sales	47,806
& Hydraulic	O.P. (OPM)	-26 (-0.1%)
	Sales	78,806
Industrial	O.P. (OPM)	4,546 (5.8%)

2016/12 plan (As of 31 <sup>st</sup> Oct.)
57,300
8,400 (14.7%)
60,300
9,600 (15.9%)
47,900
100 (0.2%)
79,500
4,200 (5.3%)

2015/12 Result (Reference) <sup>NOte2</sup>	
55,336	)
9,009 (16.3%)	
60,981	
10,332 (16.9%)	
46,580	)
-1,971 (-4.2%)	
66,050	)
3,936 (6.0%)	

Note2 : Please note that the estimates for FY2015/12 (Reference) were calculated for the period of 12 months to make comparisons with the plan for FY2016/12 under the same conditions.

### Segment Sales and O.P. (New Segmentation: IFRS)

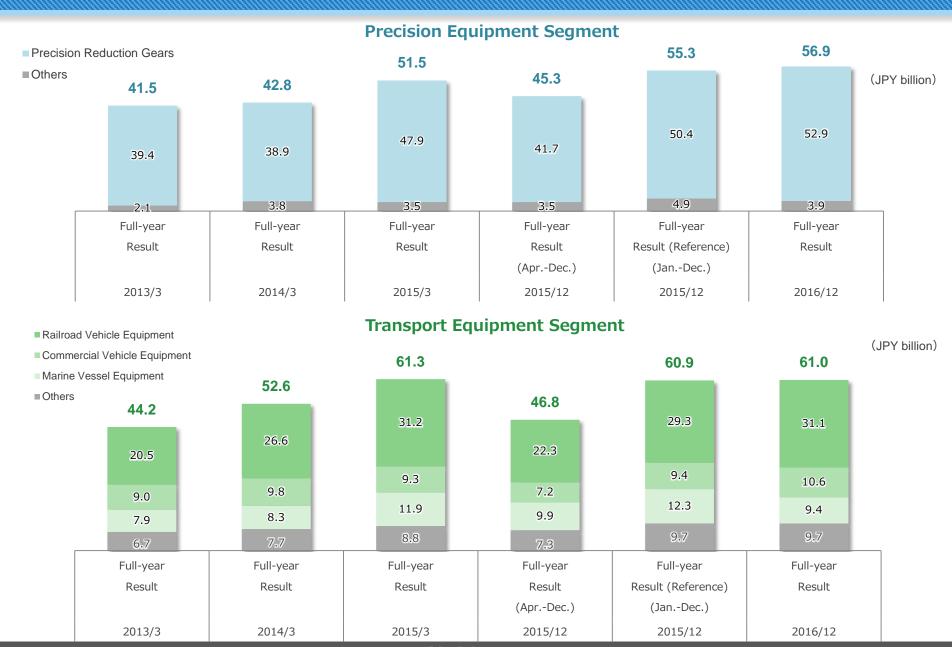
(JPY million)

Segment	Term	2016/12 Result <sup>note4</sup> (IFRS)	2017/12 Plan (IFRS)		2020/12 Mid-term plan Reference
Component	Sales	82,473	89,000		118,400
Solutions	Core O.P.	11,200	13,700		22,200
(CMP)	(Core OPM)	(13.6%)	(15.4%)		(18.8%)
Transport	Sales	81,425	82,200		104,400
Solutions	Core O.P.	13,409	11,500		17,200
(TRS)	(Core OPM)	(16.5%)	(14.0%)		(16.5%)
Accessibility	Sales	64,634	71,100		79,200
Solutions	Core O.P.	4,726	5,800		7,900
(ACB)	(Core OPM)	(7.3%)	(8.2%)		(10.0%)
Manufacturing	Sales	16,086	17,700		27,700
Solutions	Core O.P.	1,591	1,600		3,200
(MFR)	(Core OPM)	(9.9%)	(9.0%)		(11.6%)
Corporate	Sales	0	0		300
Corporate	Corporate or Elimination	- 5,751	-6,600		-8,500
Other Profit or Loss		1,763	0	(	0

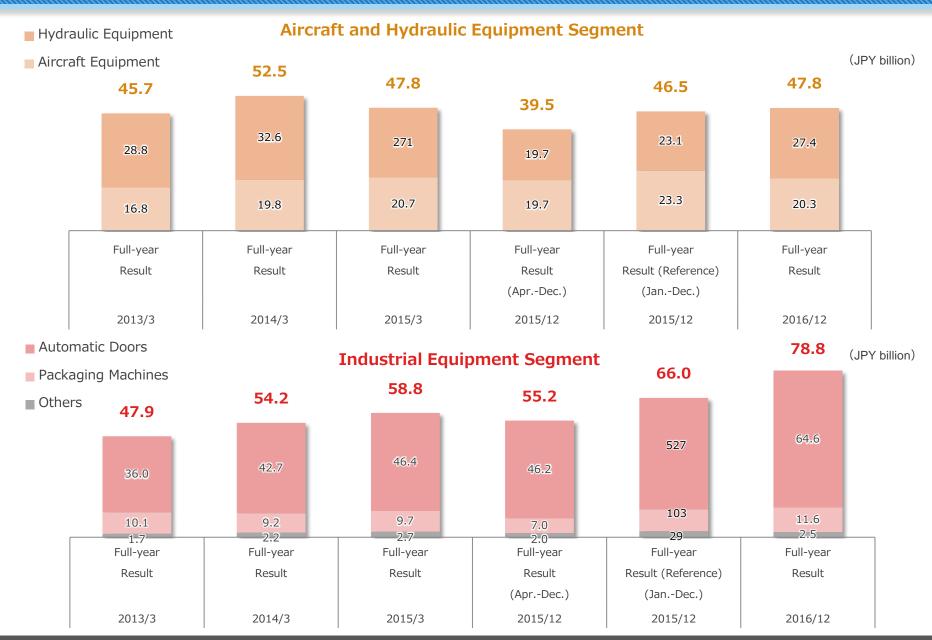
Note4: Actual figures for FY2016 (IFRS) represent referential values prepared for the purpose of comparison with the forecast for FY2017. Therefore, they are subject to change after auditing.

<sup>\*</sup>Core operating profit: Calculated the sum of operating income year ended December 2016(JGAAP), goodwill amortization and others.

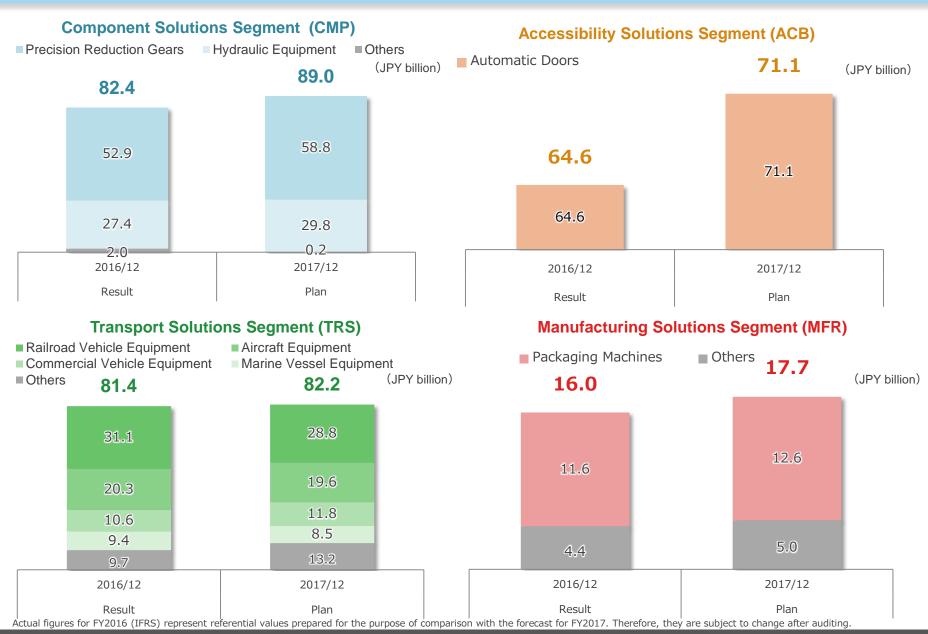
### Result for Sales by Business (JGAAP)



### Result for Sales by Business (JGAAP)



### Result and Forecast for Sales by Business (IFRS)



### **Segmentation Change**

# ■ Segmentation change from FY2017/12 Technology similarity to Business model similarity

[Current Segmentation]

[New Segmentation]

			[
Segment	Main business		Segment
Precision	Precision Reduction Gears		
Equipment	New Energy Equipment		Componen Solutions
_	Railroad Vehicle Equipment	<b>→</b>	
Transport Equipment	Commercial Vehicle Equipment		
	Marine Vessel Equipment		Transport
Aircraft &	Aircraft Equipment		Solutions
Hydraulic Equipment	Hydraulic Equipment		
Industrial	Automatic Doors		Accessibility Solutions
Equipment	Packaging Machines		Manufacturin Solutions (Others)

Segment	Main business
<b>C</b>	Precision Reduction Gears
Component Solutions	New Energy Equipment
	Hydraulic Equipment
	Railroad Vehicle Equipment
Transport Solutions	Commercial Vehicle Equipment
	Marine Vessel Equipment
	Aircraft Equipment
Accessibility Solutions	Automatic Doors
Manufacturing Solutions (Others)	Packaging Machines

### **Segmentation Change: Other Subsidiaries**

Segment	Main Other Subsidiaries	
Component Solutions	Changzhou Nabtesco Precision Machinery (Manufacturing and sales of gear wheels for reduction gear) T.S. Mechatech (Machining and sales of machinery and appliances)	
Transport Solutions	Nabtesco Service (Sales, installation, and maintenance of hydraulic and railroad vehicle equipment) Taiwan Nabtesco Service (Sales and after-sales service for Nabtesco Corporation's Railroad vehicle equipment) NABTEC (Subcontractor for design of products and production equipment for various machinery)	
Accessibility Solutions		
Manufacturing Solutions (Others)	TS Precision (Sales and Manufacturing constant velocity joint groove processing machines and others) CMET (Sales and Manufacturing rapid prototyping systems) DIAVAC (Sales and Manufacturing vacuum machinery and others)	

# Nabtesco

moving it. stopping it.

