Innovation In Action

Vision 2030 Securities Code : 6268



Results Briefing for the First Six-month of the Fiscal Year Ending December 31, 2022 (FY2022/12 H1)

Nabtesco Corporation August 8, 2022

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.

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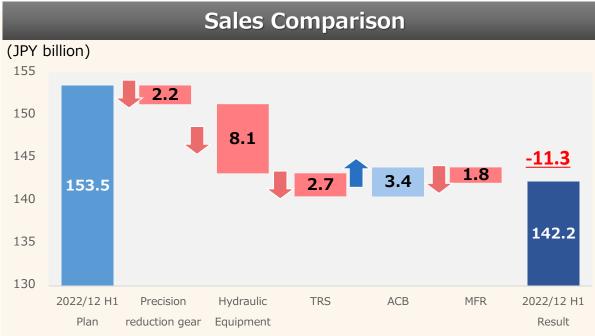
1. Results for FY2022/12 H1



1-1 FY2022/12 H1 Results -Compared to the Initial Plan-

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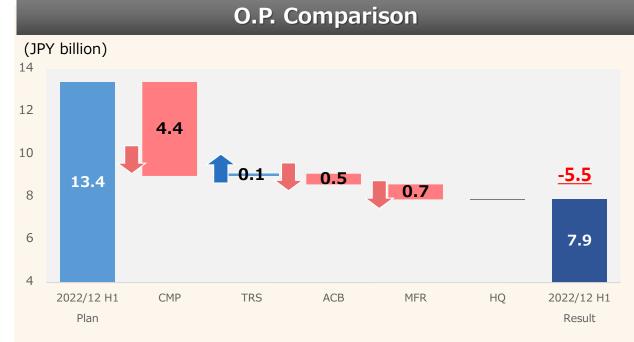


[Sales increase]

-ACB: Increased platform doors sales in overseas

[Sales decrease]

- -Precision Reduction Gears: Production volume decreased due to spread of COVID-19 at Japan plant, and production delay happened at China plant due to logistics disruption caused by the Shanghai lockdown.
- -Hydraulic Equipment: Production volume decreased due to lower-thanexpected Chinese excavators demand comparing to the initial plan, and temporary operation suspension at Shanghai plant due to the lockdown.
- **-TRS:** Production delay happened due to the shortages of electronic components both of at customers or at the Company side.
- -MFR: Production and shipment delay happened due to the shortage of electronic components for packaging machines assemble.



[O.P. increase]

-TRS: Increased due to the recovery of MRO and cost reductions

[O.P. decrease]

- -Precision Reduction Gears: Decreased due to lower production volume resulting from lower sales mentioned on the left.
- -Hydraulic Equipment: Decreased in sales due to lower demand in China market and lower production volume due to temporary suspension of operations at the Shanghai plant.
- -MFR: Decreased due to the delay in production and shipments caused by shortage of electronic components for packaging machines assemble.

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O.P. declined due to the lower sales resulting from the temporary suspension of production at the Shanghai plant and components shortages, and increased in raw material and other production costs.
 The decrease in financial income and cost is due to the mark-to-market valuation of HDS^{*1} shares. (2021 Q4: ¥4,860/share → 2022 Q2: ¥3,995/share)

	2021/12	2022/12	2022/12		YoY	Plan	
(JPY billion)	H1 result	H1 plan As of Feb.10	H1 result		Variation	Variation	
	(A)	(B)	(C)		(C-A)	(C-B)	
Sales	145.7	153.5	142.2		-3.5	-11.3	
0.P.	14.6	13.4	7.9		-6.7	-5.5	
Operating profit margin	10.0%	8.7%	5.5%		-4.5pt	-3.2pt	
Financial income and cost	92.6	0.1	-14.7		-107.3	-14.8	
(Revaluation share of HDS)	93.8	-	-16.6		-110.4	-	
Equity in earnings of affiliates	1.2	0.9	1.1		-0.1	0.2	
Profit before tax	108.5	14.4	-5.7		-114.1	-20.1	
Net profit ^{*2}	68.1	7.7	-5.1		-73.2	-12.8	
Total basic earnings per share (JPY Yen)	556.45	64.03	-42.56		* 1 HDS: Harmonic Drive Systems Inc.*2 Net profit attributable to owners of the parer		
DPS (JPY Yen)	38	39 (Plan)	39				



Decrease in "Assets held for sale" and "Other financial assets in non-current assets" was mainly due to the write-down of HDS^{*1} shares.

Decrease in "Income taxes payable and deferred tax liabilities" is due to the payment of income taxes payable in FY2021 (including gain on valuation of HDS^{*1}).

	2021/12 Q4	2022/12 Q2	
(JPY billion)	(As of Dec. 31, 2021)	(As of June 30, 2022)	Variation
Assets	481.7	465.6	-16.1
(Cash and cash equivalents)	112.8	106.7	-6.1
(Inventories)	41.9	53.1	11.3
(Assets held for sale)	44.5	36.2	-8.3
(Tangible fixed assets and right-of-use assets)	97.9	102.0	4.1
(Other financial assets in non-current assets)	53.8	46.1	-7.7
Liabilities	226.7	212.3	-14.4
(Income taxes payable and deferred tax liabilities)	33.7	11.8	-22.0
Equities	255.0	253.3	-1.7
(Non-controlling interests)	15.1	14.3	-0.8
(Equity attributable to owners of parent)	239.9	239.0	-0.9
Ratio of equity attributable to owners of parent:	49.8%	51.3%	* 1 HDS, Harmonic Drive

* 1 HDS: Harmonic Drive Systems Inc.

2. Outlook for FY2022/12 H2



2-1 Outlook for FY2022/12 H2

-Market situations, Order taking, Order backlog and Actions in H2-

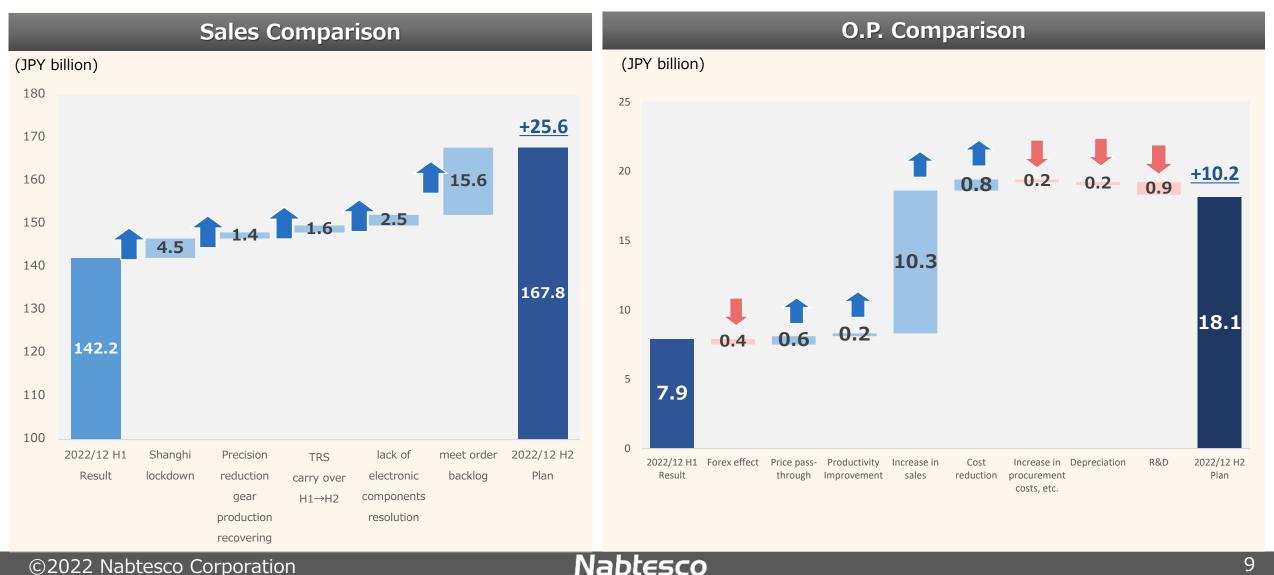
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	Market situations	Orders taking 21 H1/21 H2/22 H1	Order backlog (vs 21 H2)	Sales 21 H1/21 H2/22 H1/22 H2	Actions to achieve 2022/H2 plan
Precision Reduction Gears	 -Continuing high robot demand for new EV production lines -Increasing demand for automation in battery production lines as well -Strong demand for semiconductor manufacturing equipment and machine tools 		+42%		Sales expansion -High utilization to meet strong demand (Precision reduction gears) -Ensure supply chain management and workforce acquisition
Hydraulic Equipment	 -Sluggish demand for China in 22 H1 Demand forecast for Excavator market in China YoY -36% (initial assumption: YoY -20%) -Demand for Europe, the U.S. and Southeast Asia remained strong as expected. 		-2%		-Secure electronic components (TRS/ACB/MFR) -Developing new suppliers -Promoting designs changes
TRS	 -Railroad Vehicle Equipment: Recovery for MRO demand -Aircraft Equipment: Recovery for small aircraft -Marine Vessel Equipment: Increase demand for new marine ship build -Commercial Vehicle Equipment: Increase demand for Southeast Asian markets 		+11%		O.P. expansion -Achievement of sales targets -Promoting price increases in MRO (TRS) -Reduction of raw material and outsourcing costs
ACB	 Increase demand for automatic doors for redevelopment in the metropolitan area in 2023 and 2024. Strong demand for platform doors in Japan and overseas markets 		+20%		 -In-house production of bearings -Developing new suppliers -Passing on rising raw material costs to product prices -Reallocation of personnel to high-utilization plants
MFR	 Increase demand for automation requirements due to labor shortages Growing demand for individual food packaging 		+35%		 From Aircraft/Hydraulic equipment plant to Precision reduction gear plant -Reduction of ad. expenses (HQ)

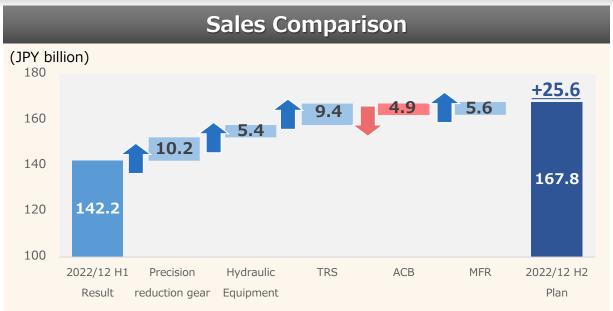
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By resolving the stagnation in production, logistics, etc. that occurred in H1, we will steadily digest the high level of order backlogs in H2 and achieve the sales and O.P. plan.



2-3 Forecasts for FY2021/12 H2 by Segments -Compared to H1-

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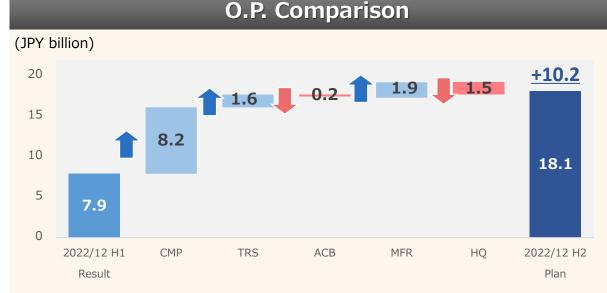


[Sales increase]

- -Precision Reduction Gears: Sales increase due to continued high demand for industrial robots, machine tools, SME, and EV battery manufacturing equipment
- -Hydraulic Equipment: Sales increase due to recovery from production delays caused by the Shanghai lockdown and increase demand tied to the Chinese New Year 2023.
- **-TRS:** Sales increase due to response to delay in procurement of electronic components, recovery from production delays caused by the Shanghai lockdown, and recovery in passenger demand.
- -MFR: Sales increase due to the promote to recovery actions to catch up procurement of electronic components delay.

[Sales decrease]

-ACB: Due to the advance of sales in H1, full year sales will be in line with the initial plan for the full year



[Sales increase]

-CMP: In addition to the increase in sales as described on the left, OP increase due to the price pass-through of increased procurement costs.

-TRS: OP increase due to higher MRO sales in addition to increased demand as described on the left.

-MFR: OP increase due to the increase in sales as described on the left.

[OP decrease]

-ACB: OP is expected to decrease due to lower sales, but the amount of decrease is limited.

-HQ cost: R&D investments to promote innovation will be executed as planned.

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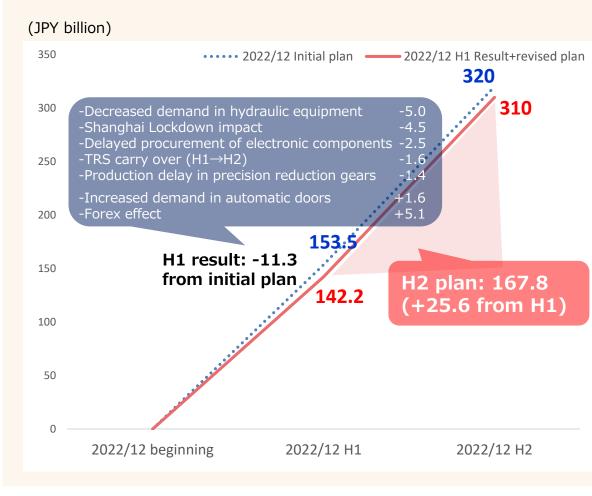
3. Outlook for FY2022/12 Full Year



3-1 FY2022/12 Revised Plan

Sales Comparison

H2: 167.8 JPY billion (+25.6 JPY billion from H1) Full year: 310 JPY billion yen (-10 JPY billion from initial plan)



O.P. Comparison

H2: 18.1 JPY billion (+10.2 JPY billion from H1) Full year: 26 JPY billion yen (-7 JPY billion from initial plan)

(JPY billion)



The sale of half of the HDS^{*1} shares held was completed on July 11. 4.9 JPY billion of financial income will be recorded in Q3 under the revised plan. Total sales amounted to 49.4 billion yen (VWAP^{*2} during the sale period: ¥5,392). We intend to sell the other half of our holdings (approx. 9 million shares) in the future.
 ROIC in the plan is 6.6%. We will continue to improve asset efficiency through the use of the ROIC tree.

	2021/12	2022/12	2022/12
(JPY billion)	Full year result	Full year plan	Revised plan
		As of Feb.7	As of July 31
Sales	299.8	320.0	310.0
O.P.	30.0	33.0	26.0
(OPM)	10.0%	10.3%	8.4%
Financial Income and Cost	69.9	0.1	6.1
(Revaluation share of HDS)	70.7	-	4.9
Income before tax	102.0	35.0	35.0
Net profit ^{*3}	64.8	23.4	23.4
ROIC	8.1%	8.5%	6.6%

DPS (JPY Yen)	77.0	78.0 (Plan)	78.0 (Plan)
Payout ratio	14.4%	40.1% (Plan)	40.0% (Plan)
Share price used for revaluation of HDS share (JPY yen)	4,860/share	4,860/share	4,860/share

^{*1} HDS: Harmonic Drive Systems Inc. ^{*2} VWAP: Volume Weighted Average Price

^{*3} Net profit attributable to owners of the parent



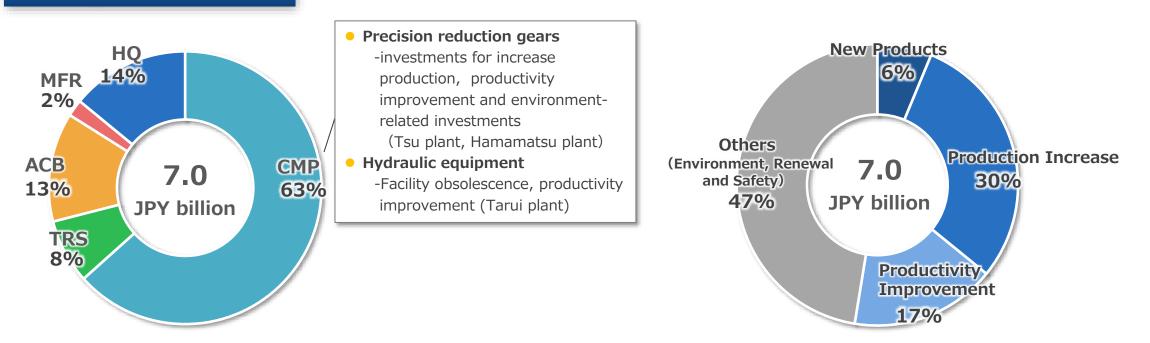
3-3 CAPEX, R&D and Depreciation

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	2021/12	2022/12	YoY	2021/12	2022/12	2022/12	Plan
(JPY billion)	H1 result (A)	H1 result (B)	Variation (B-A)	Result	Revised plan (C)	Initial plan (D)	Variation (C-D)
CAPEX	4.7	7.0	2.3	9.6	30.2	36.1	-5.9
R&D	4.8	5.4	0.6	9.6	12.3	11.4	0.9
Depreciation	6.6	7.1	0.5	13.3	14.1	14.3	-0.2

2022/12 H1 Result



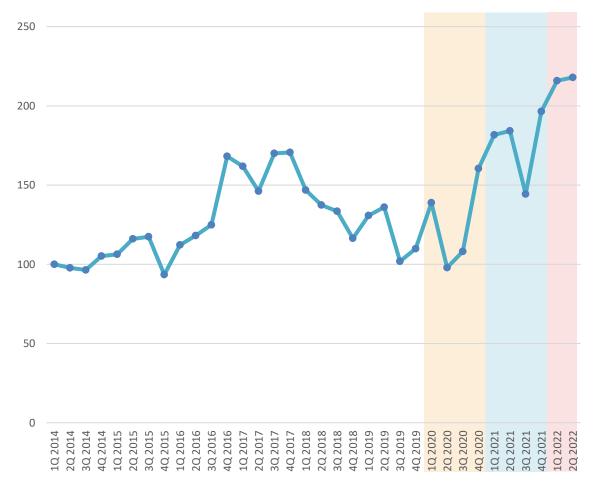


4-1 Precision Reduction Gears -Consolidated Orders and Production Capacity-

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Index for FY2022/Q2 consolidated orders taking

-Record-high orders for three quarters in a row following FY2021/Q4. **QoQ +1%, YoY +18%**



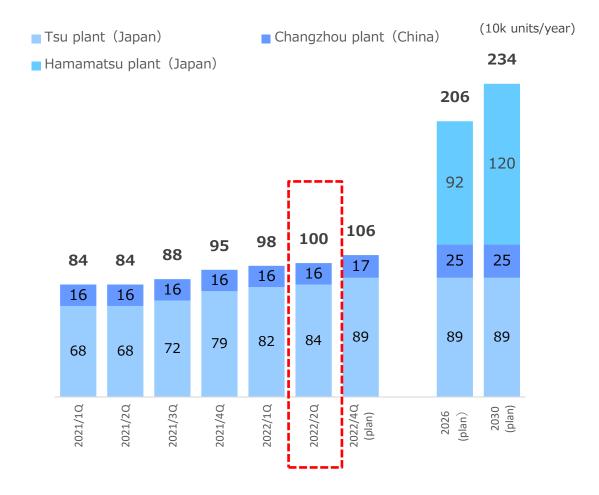
FY2014/Q1=100

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Production capacity expansion

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-Annual production capacity reached to one million units at FY2022/Q2. -The new Hamamatsu plant commencement ceremony in Sep.23, 2022



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4-2 New Hamamatsu Plant for Precision Reduction Gears

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Smart manufacturing plant for Precision Reduction Gear RV[™]
 Regular production capacity: 920,000 units as of 2026/1.2 million units as of 2030
 Promote initiatives to address 10 SDGs, including energy creation by solar power generation (to achieve RE100)



Item	Tsu plant	Hamamatsu plant
Site area	111,978 m ỉ	181,700 m [*]
Ordinary production capacity for RV	890,000 units per year	1.2 million units as of 2030

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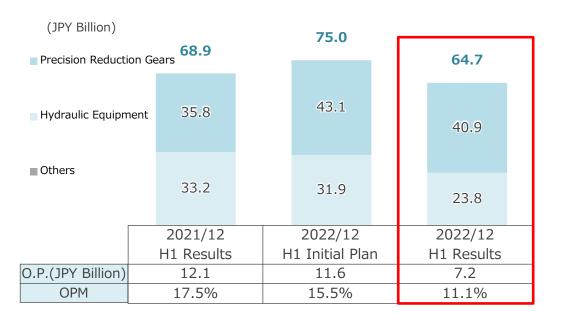
■ FOREX rate		2021/12	2021/12	2022/12	2022/12	2022/12
		H1 results	Full year results	H1 results	Initial plan	Revised plan
	USD	¥108.45	¥110.37	¥124.52	¥110.00	¥120.00
	RMB	¥16.76	¥17.12	¥19.12	¥17.00	¥18.50
	EUR	¥130.46	¥120.34	¥135.16	¥125.00	¥130.00
	CHF	¥119.02	¥120.71	¥131.83	¥120.00	¥125.00

FOREX sensitivity (This represents the effect to be expected on operating profit if the exchange rate fluctuates by one yen)

	2022/12 H1 results			
(Million yen)	Sales	O.P.		
USD	68	16		
RMB	1,092	262		
EUR	32	Minimal		
CHF	103	Minimal		

2022/12 Revised plan				
Sales	0.P.			
174	30			
2,679	759			
76	Minimal			
194	Minimal			

Details of 2022/12 H1 Results



Component Solutions Segment (CMP)

[Sales]

• Precision Reduction Gears Business :

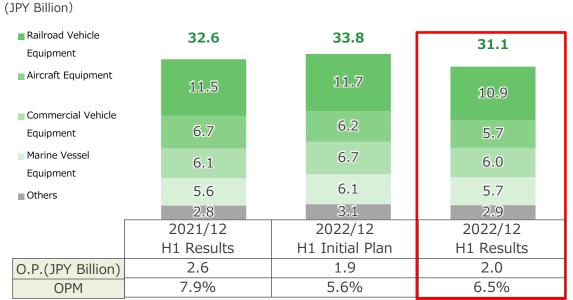
Sales increased YoY due to the strong demand for industrial robots, machine tools, semiconductor manufacturing equipment and lithium-ion battery manufacturing equipment for EVs.

• Hydraulic Equipment Business :

Sales decreased YoY due to significantly lower demand in China and suspension of Shanghai Plant operation by Shanghai lockdown.

[O.P.]

O.P. Decreased YoY due to lower sales and higher personnel/distribution etc. costs



Transport Solutions Segment (TRS)

[Sales]

Railroad Vehicle Equipment Business :

Sales declined YoY due to lower demand for new vehicles in the domestic and foreign markets, despite of the strong sales of MRO.

• Aircraft Equipment Business :

Sales declined YoY due to the delay in procuring components for Ministry of Defense, despite of moderate recovery in demand for commercial aircraft.

Commercial Vehicle Equipment Business :

Despite the impact of production cut due to customers' production adjustments, sales remained at the same level as the previous year due to the recovery of the Southeast Asian market.

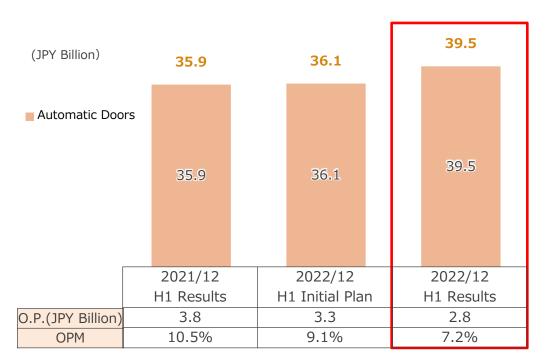
Marine Vessel Equipment Business :

Sales remained at the same level as the previous year due to higher demand of shipbuilding and marine transportation, despite of the negative impact of shanghai lockdown.

[O.P.]

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O.P. Decreased YoY due to lower sales.



Accessibility Solutions Segment (ACB)

[Sales]

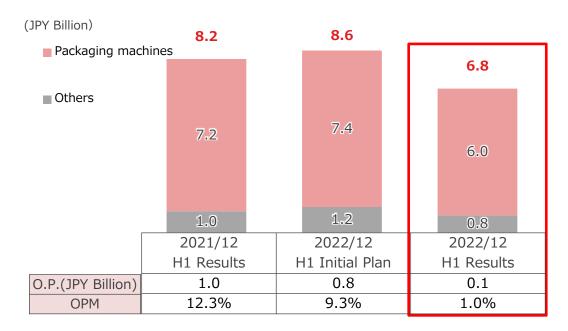
 $\boldsymbol{\cdot}$ Automatic Doors :

Sales increased YoY due to the steady demands in both domestic and overseas markets

[O.P.]

O.P. decreased YoY due to the higher personnel costs resulting from travel restrictions in Europe caused by COVID-19, as well as lower profitability resulting from differences in product mix.

Manufacturing Solutions Segment (MFR)



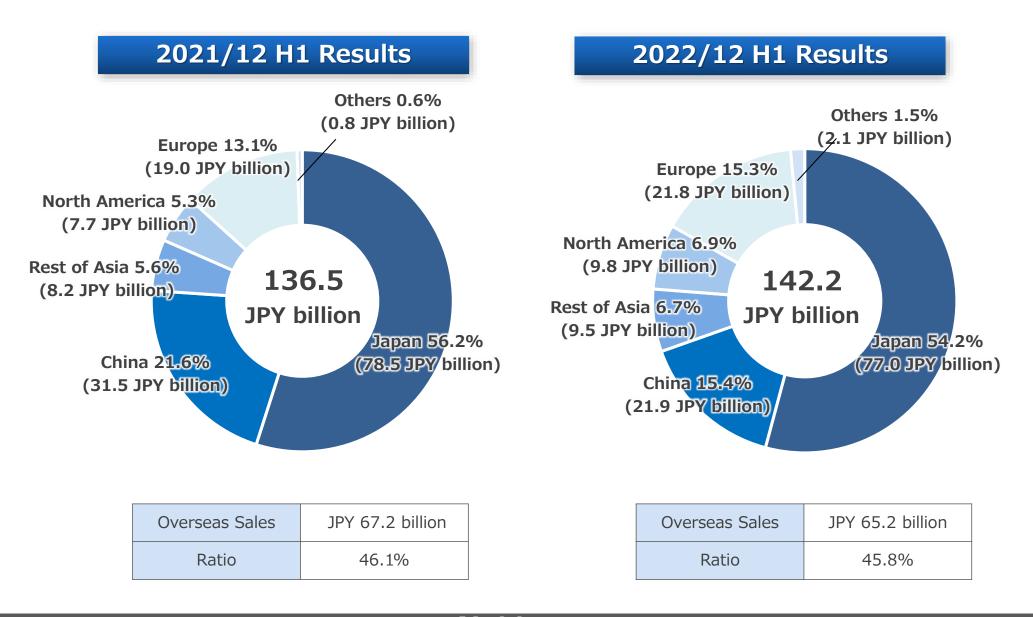
[Sales]

Packaging Machines :

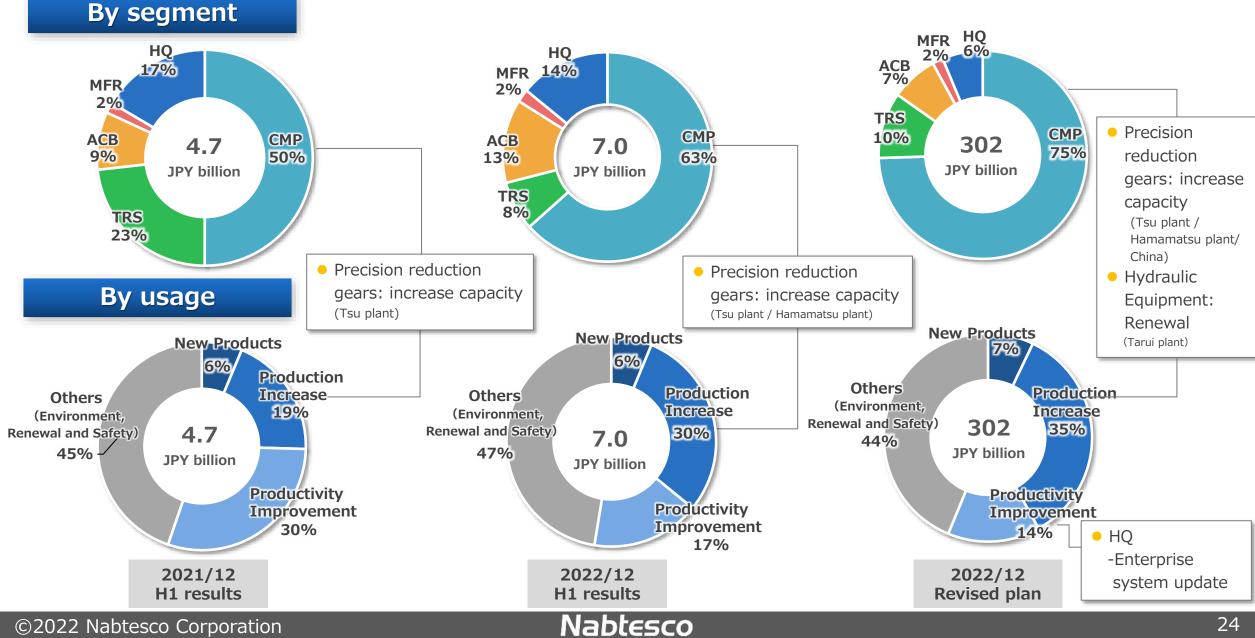
Both product sales and MRO sales declined YoY due to the procurement delay of electronic components and other items.

[O.P.]

O.P. decreased YoY due to lower sales because of production delay caused by shortage of electronic components.



Breakdown in CAPEX



Details of FY2022/12 Full Year Forecasts

151.8 Sales (JPY billion) 145.0 138.1 Precision Reduction Gears Hydraulic Equipment 89.0 77.5 92.0 Others 60.6 62.8 53.0 2022/12 2021/12 2022/12 Initial Plan **Revised Plan** Results O.P.(JPY billion) 26.4 22.9 22.6 (OPM) 16.6% 17.4% 15.6%

Component Solution Segment (CMP)

CMP: Revised down Sales and O.P.

[Sales]

• Precision Reduction Gears Business:

Sales are expected to increase compared to the initial plan due to strong demand for industrial robots, machine tools, etc.

• Hydraulic Equipment Business:

Sales are expected to decrease compared to the initial plan due to significantly lower demand in China and suspension of Shanghai Plant operation caused by Shanghai lockdown.

[O.P.]

O.P. is expected to decrease compared to the initial plan due to lower sales of Hydraulic Equipment business in H1 and higher materials etc. costs.

Transport Solution Segment (TRS)

Sales (JPY billion)		67.7	67.7			71.7	
Rai	Iroad Vehicle Equipment	•	••••				
Aircraft Equipment		25.8		26.0		25.1	
Commercial Vehicle Equipment		13.2		15.3		14.9	
Marine Vessel Equipment		12.1		13.5		12.7	
Others		11.3 5.4				12.6 6.4	
		2021/12 Results	2			2022/12 Revised Plan	
	O.P.(JPY billion)	5.6		6.6		5.8	
	(OPM)	8.3%		9.0%		8.1%	

TRS: Revised down Sales and O.P

[Sales]

• Railroad Vehicle Equipment Business :

Sales are expected to decrease compared to the initial plan mainly due to postponement of subway projects in China.

Aircraft Equipment Business/Commercial Vehicle Equipment Business :

Sales are expected to decrease compared to the initial plan due to prolonged product quality issues and production adjustments at customers.

Marine Vessel Equipment Business :

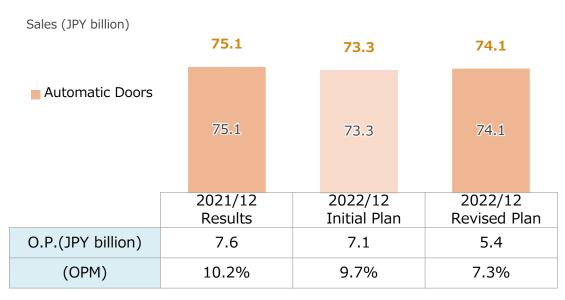
Sales are expected to increase compared to the initial plan due to higher demand in shipbuilding and shipping markets, despite of the negative impact of shanghai lockdown.

[O.P.]

O.P. expected to decrease compared to the initial plan due to lower sales.



Accessibility Solution Segment (ACB)



ACB : Revised up Sales and down O.P.

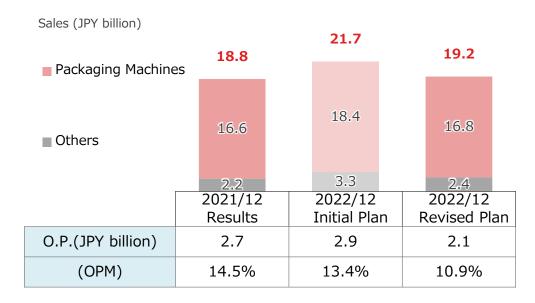
[Sales]

Sales are expected to increase compared to the initial plan due to FOREX effects and the strong platform doors demands in Japan and overseas. Sales of automatic doors are expected to increase steadily by small and medium-sized projects and MRO orders, while demands of automatic doors are sluggish until the completion of the buildings for the redevelopment projects in the Tokyo metropolitan area in 2023 and 2024.

[O.P.]

O.P. is expected to decrease compared to the initial plan due to the higher personnel costs resulting from travel restriction in Europe caused by COVID-19, as well as lower profitability resulting from differences in product mix.

Manufacturing Solution Segment (MFR)



MFR : Revised down Sales and O.P.

[Sales]

• Packaging Machines :

Sales in H1 declined due to the procurement delays of electronic components and other items, despite strong demands for packed food for individual use and labor saving.

Sales are expected to be in line with the revised plan through the solving procurement issues in H2 by changing of product design and developing new suppliers.

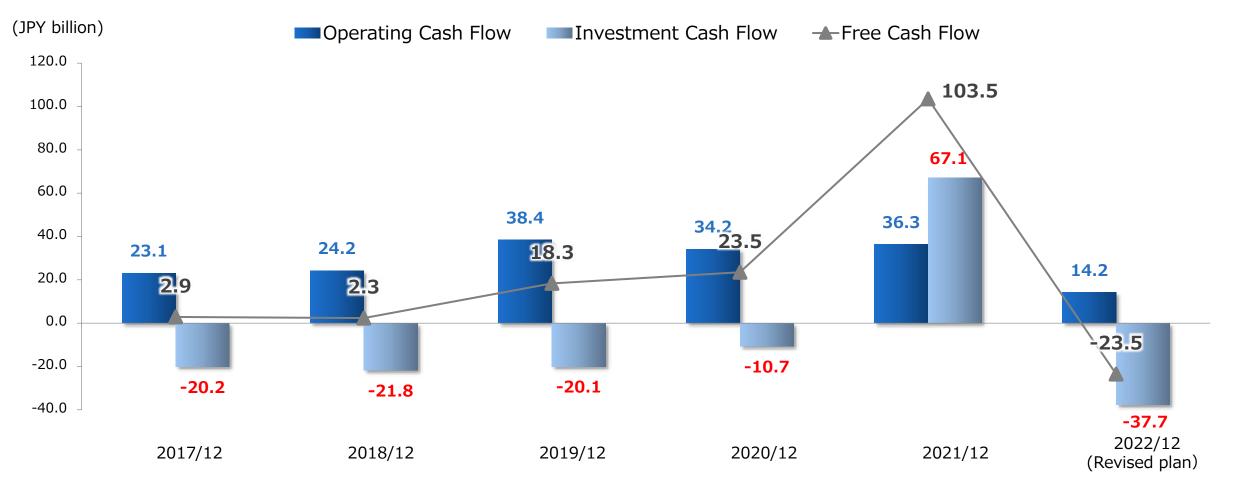
[O.P.]

O.P. is expected to decrease compared to the initial plan due to lower sales resulting from production delays caused by shortage of electronic components in H1.



Cash Flow

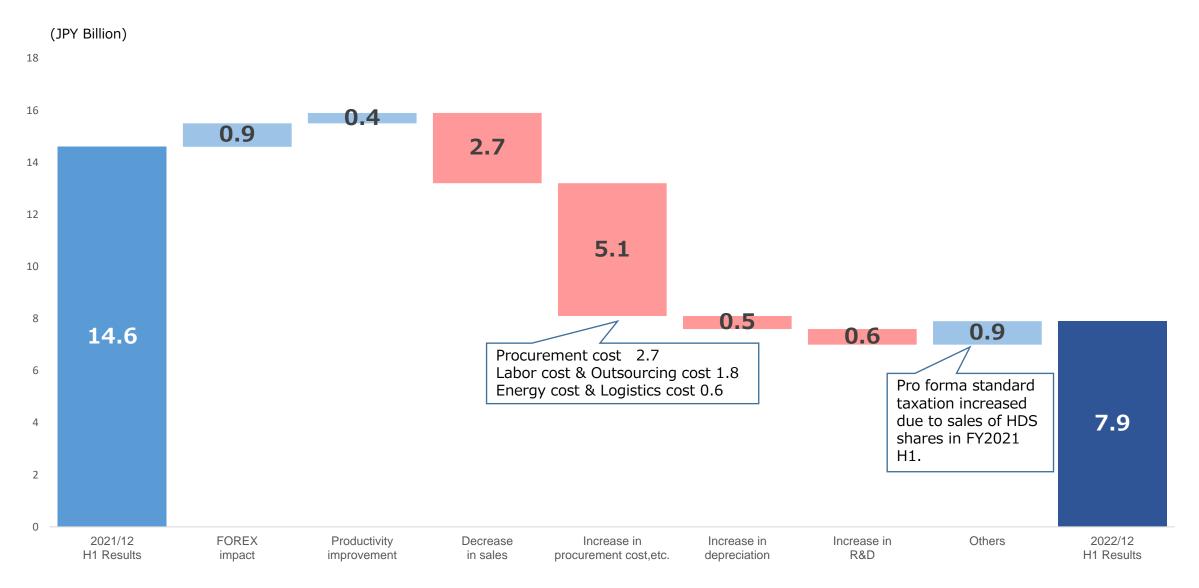
For FY2022/12, negative free cash flow is expected due to CAPEX increase for the construction of a new precision reduction gear factory, increased income tax payments, and payment of difference adjustment to a securities firm related to the sale of HDS^{*1} shares.



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* 1 HDS: Harmonic Drive Systems Inc.

■ O.P. decreased year-on-year mainly due to "Decrease in sales" and "Increase in procurement cost, etc."



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Sales by Segment and Business Outline

Component Solutions Segment (CMP)

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ales	(JPY billion)					138.1	151.8	145.0
	Precision Reduction Gears	113.9	119.3	107.1	109.9			
	Hydraulic Equipment	72.6	65.8	54.9	55.8	77.5	89.0	92.0
	Others	41.3	53.4	52.2	54.0	60.6	62.8	53.0
		2017/12 Results	2018/12 Results	2019/12 Results	2020/12 Results	2021/12 Results	2022/12 Initial Plan	2022/12 Revised Plan
	O.P.(JPY billion)	20.4	20.2	15.9	17.7	22.9	26.4	22.6
	(OPM)	17.9%	16.9%	14.8%	16.1%	16.6%	17.4%	15.6%

Transport Solutions Segment (TRS)

Sales (JPY billion)	79.1	81.9	84.0	78.1	67.7	73.2	71.7
 Railroad Vehicle Equipment Aircraft Equipment 	27.9	31.2	30.3	29.5	25.8	26.0	25.1
Commercial Vehicle Equipmer	nt 18.9	18.5	22.8	18.8	13.2	15.3	14.9
Marine Vessel Equipment	11.0	14.6	14.2	12.0	12.1	13.5	12.7
Others	8.5 12.6	9.8 7.8	10.8 5.9	10.7 7.0	11.3 5.4	12.3 6.1	12.6 6.4
	2017/12	2018/12	2019/12	2020/12	2021/12	2022/12	2022/12
	Results	Results	Results	Results	Results	Initial Plan	Revised Plan
O.P.(JPY billion)	8.4	2.0	5.8	3.3	5.6	6.6	5.8
(OPM)	10.6%	2.5%	6.9%	4.3%	8.3%	9.0%	8.1%

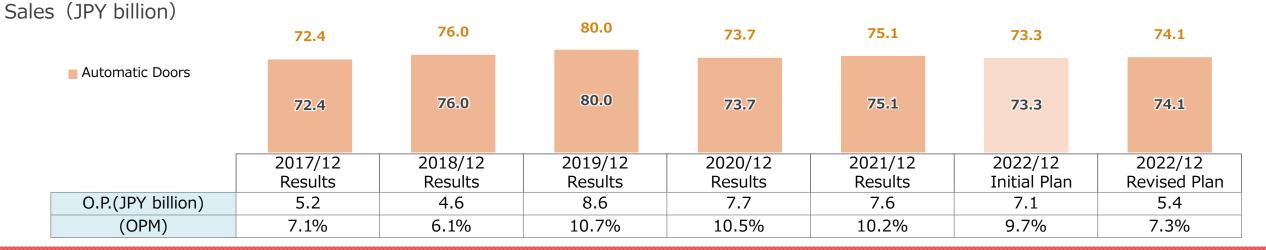
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Accessibility Solutions Segment (ACB)

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Manufacturing Solutions Segment (MFR)

Sales (JPY billion)

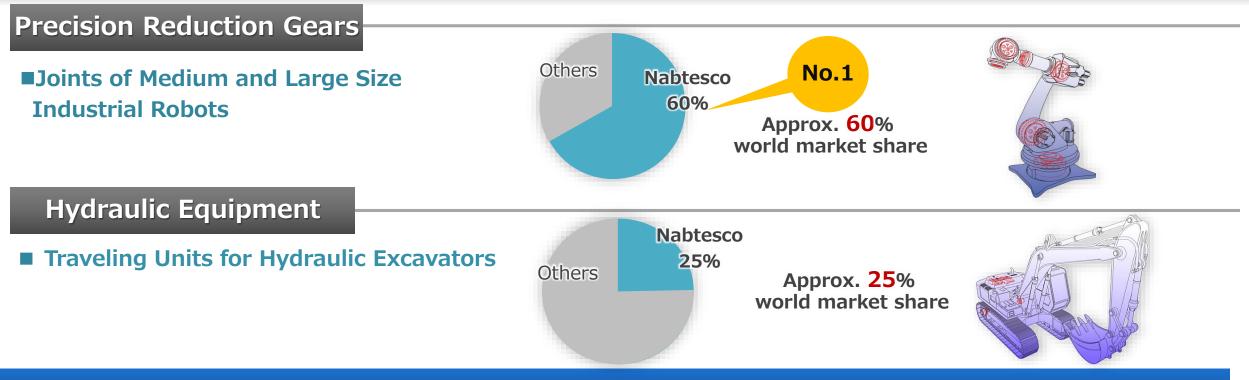
			18.7		18.8	21.7	19.2
Packaging Machines	17.0	17.5	10.7	17.7			
Others	13.1	14.6	16.1	15.0	16.6	18.4	16.8
	3.8	2.9	2.6	2.8	2.2	3.3	2.4
	2017/12 Results	2018/12 Results	2019/12 Results	2020/12 Results	2021/12 Results	2022/12 Initial Plan	2022/12 Revised Plan
O.P.(JPY billion)	2.0	2.5	2.6	2.3	2.7	2.9	2.1
(OPM)	11.6%	14.0%	13.7%	13.1%	14.5%	13.4%	10.9%

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Main Products: Component Solutions Segment (CMP)

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Main Customers

Precision Reduction Gears

Industrial Robots: Fanuc, Yasukawa Electric, KHI, KUKA Roboter (Germany), ABB Robotics (Sweden) Machine Tools: Yamazaki Mazak, Okuma, DMG Mori Seiki

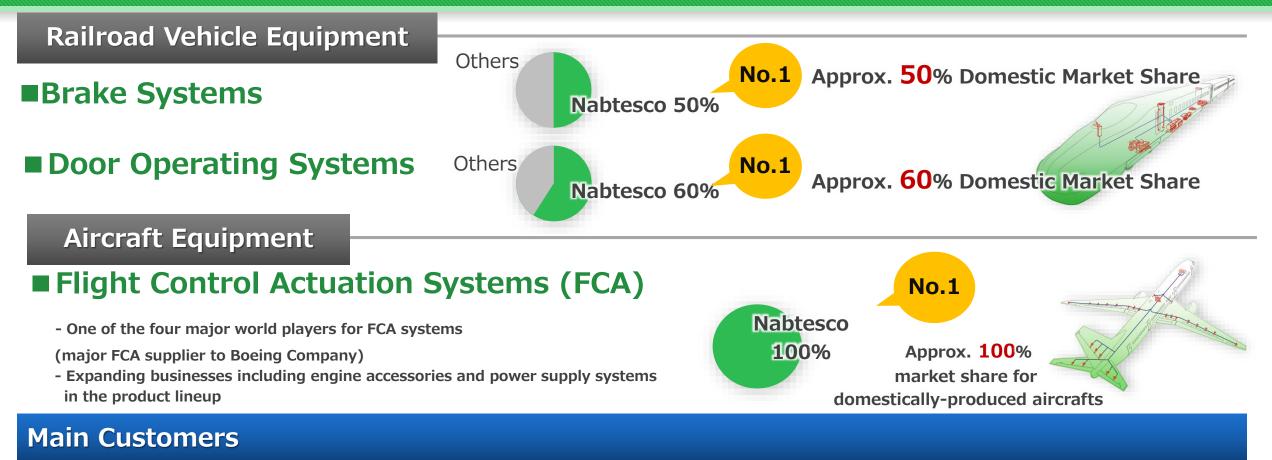
Hydraulic Equipment

Traveling Units: Komatsu, Sumitomo Construction Machinery, Kobelco Construction Machinery, Sany (China), XCMG (China), Liu Gong (China)

Main Products: Transport Solutions Segment (TRS)

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Railroad Vehicle Equipment

JR Companies, Private railway companies, KHI, Bullet train and subway projects in China

Aircraft Equipment

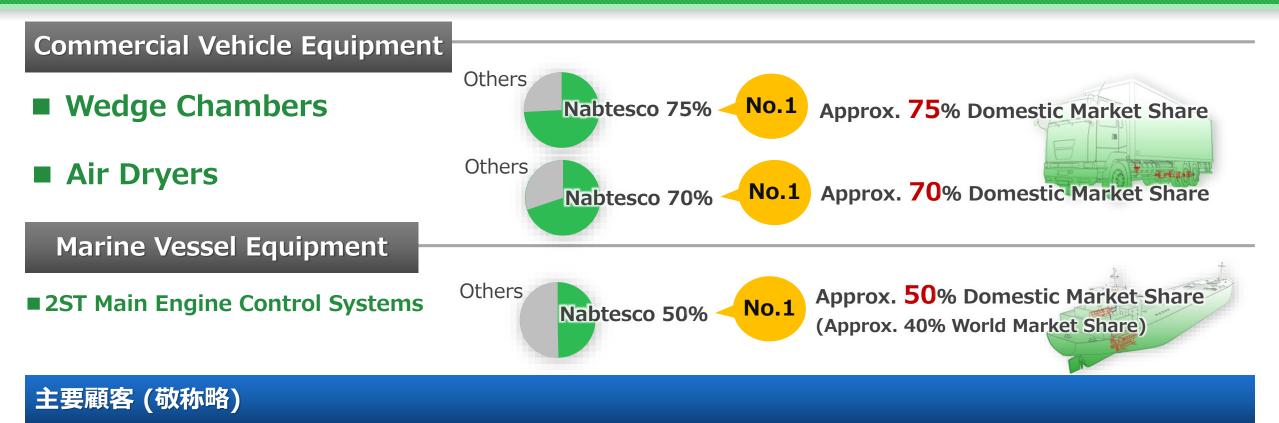
Boeing, KHI, MHI, IHI, Japanese Ministry of Defense, Airline operators

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Main Products: Transport Solutions Segment (TRS)

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Commercial Vehicle Equipment

Hino, Isuzu, Mitsubishi Fuso Truck & Bus, UD Trucks

Marine Vessel Equipment

KHI, Hitachi Zosen, Makita Corporation, Japan Engine Corporation, Mitsui Engineering & Shipbuilding, Hyundai Heavy Industries (Korea), HSD Engine Co., Ltd. (Korea), Hudong Heavy Machinery (China), MAN Diesel (Denmark)

Main Products: Accessibility Solution Segment (ACB)

Innovation In Action

Vision 2030



Main Customers

Automatic Doors for buildings: Major general contractors, sash manufacturers, hospitals, banks, public institutions, etc. Platform Doors : Subway projects in France, China and others

Main Products: Manufacturing Solutions Segment (MFR)



Main Customers

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

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