

# **Financial Results**

Results for the Fiscal Year ended March 2023 & Forecast for the Fiscal Year ending March 2024

日本発条株式会社(東証プライム市場 5991) NHK Spring Co., Ltd.(5991/TSE Prime Market)





# Overview of the Financial Results for the year ended March 2023

Executive Vice President & CFO and Representative Member of the Board

Hidefumi Yoshimura

### Results for the year ended March 2023 & Forecast for the year ending March 2024



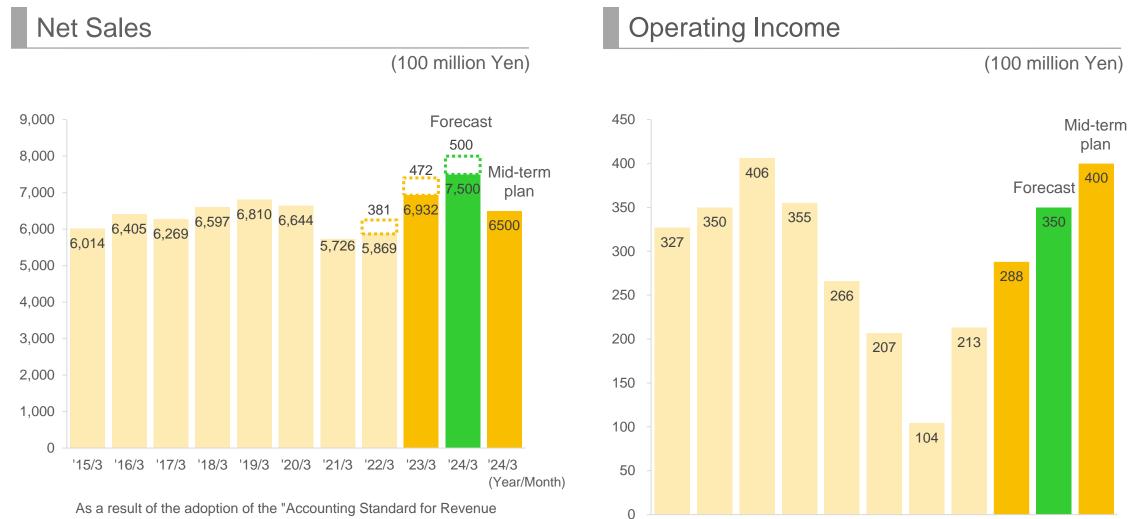
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(100 million yen)

		FYE '22/3	FYE '23/3		FYE '24/3	Forecast Vs. F	Previous year	FYE '24/3	Forecast Vs. N	lid-term plan
		Result	Result	Vs. FYE '22/3	Forecast	Variance	Ratio	Mid-term plan	Variance	Ratio
Net Sales		5,869	6,932	1,063	7,500	567	8.2%	6,500	1,000	13.3%
Operating Inc	ome	213	288	74	350	61	21.4%	400	-50	-14.3%
Ratio		3.6%	4.2%	0.5%	4.7%	0.5%	_	6.2%	-1.5%	-31.9%
Ordinary Inco	me	306	373	66	400	26	7.2%	420	-20	-5.0%
Ratio		5.2%	5.4%	0.2%	5.3%	-0.0%	_	6.5%	-1.1%	-21.2%
Profit Attribute Owners of Par		319	215	-104	250	34	16.1%	250	0	_
Extraordinary prof	fits/losses	194	-70	-264	-	70	_	-	0	_
EPS - Earning Pe	r Share	140.33	94.50	-	110.37	15.87	_	-	_	_
ROE - Return On	Equity	10.5%	6.4%	-	7.0%	0.01	_	8.0%	-1.0%	_
Average Rate	US\$	112.9	135.0	22.1	130.0	-5.0	_	100.0	30.0	_
	Thai Baht	3.4	3.7	0.3	3.8	0.1	_	3.2	0.6	-
Current Rate	US\$	122.4	133.5	11.1	130.0	-3.5	_	100.0	30.0	
	Thai Baht	3.4	3.8	0.4	3.8	_	_	3.2	0.6	_

# **Result Trends**





'18/3 '19/3

'15/3

'16/3 '17/3

'20/3

'21/3

'22/3

'23/3

'24/3

'24/3

(Year/Month)

As a result of the adoption of the "Accounting Standard for Revenue Recognition (Revised ASBJ Statement No.29)", the amount paid by customers, which was previously recorded as net sales, is offset against the cost of sales from the fiscal year ended March 31, 2022.

### Results for the year ended March 2023 Extraordinary Profits/Losses

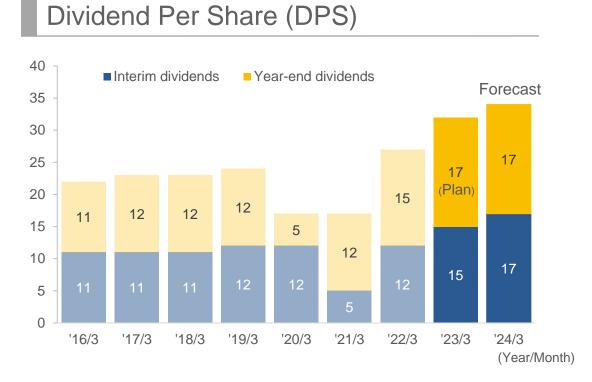


Extraordinar	y profits/losses	(100	0 million yen)
Breakdown		Details	Amount
Extraordinary losses	Imapairment loss	On production equipment	55
	Litigation settlement	Settlement of patent infringement litigation	13
	Other		1
	Total		70

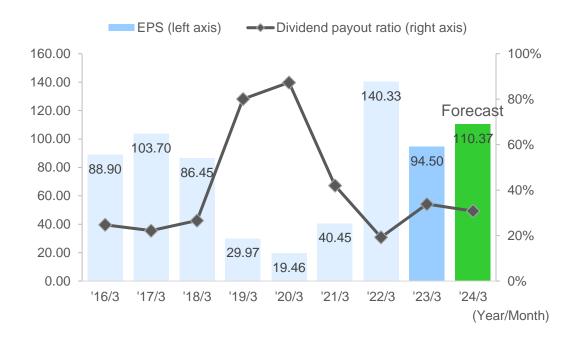
Impairment	Loss		(100 million yen)
Purpose	Company	Description	Amount
Production equipment	NHK Spring Precision Springs and Components Business	Building, Machinery	52
	Subsidiaries in America	Machinery	2
Total			55

# **Dividends**





### Earnings Per Share (EPS)



	End of Q2	Year end	Total	Dividend payout ratio
FYE'23.3	15.0 yen	17.0 yen (Plan)	32.0 yen	33.9%
Forecast for FYE'24.3	17.0 yen	17.0 yen	34.0 yen	30.8%



# Details of the Financial Results for the Year Ended March 2023

### Results for the year ended March 2023 Net Sales / Operating Income by Business Segment

NHK SPRING CO., LTD.

						(100 million yen)
		FYE '22/3	FYE	'23/3	Vs. Previous year	Vs. Forecast
		Result	Forecast	Result	vs. i levious year	v3. 1 0100031
Automotive	Net Sales	1,129	1,500	1,468	338	-31
Suspension Springs	Operating Income	-43	-20	-27	16	-7
Business	Ratio	-3.9%	-1.3%	-1.9%	2.0%	-0.5%
	Net Sales	2,084	2,670	2,737	653	67
Automotive Seating Business	Operating Income	-28	90	73	101	-16
	Ratio	-1.4%	3.4%	2.7%	4.0%	-0.7%
Precision Springs	Net Sales	1,622	1,680	1,594	-28	-85
and Components	Operating Income	178	170	114	-63	-55
Business	Ratio	11.0%	10.1%	7.2%	-3.8%	-2.9%
ndustrial Machinery	Net Sales	1,031	1,150	1,131	100	-18
and Equipment, and	Operating Income	107	140	127	20	-12
Other Operations	Ratio	10.4%	12.2%	11.3%	0.9%	-0.9%
	Net Sales	5,869	7,000	6,932	1,063	-67
Total	Operating Income	213	380	288	74	-91
	Ratio	3.6%	5.4%	4.2%	0.5%	-1.3%

#### (100 million yen)

#### Vs. FYE'22/3

In the automotive business, sales volume recovered to a certain degree due to the recovery from the impact of the COVID-19 pandemic, despite the impact of production adjustments by automobile manufacturers due to semiconductor supply shortages and other factors. In addition, sales increased significantly due to the impact of the weaker yen on overseas subsidiaries and passing on the steep rise in steel material costs to selling prices.

In the non-automotive business, sales volume of suspensions declined significantly due to the slowdown in the HDD market in the second half of the year and thereafter, despite the profit boost from the weaker yen and sales expansion of semiconductor processing parts.

#### Vs. Forecast

In the automotive-related business, the impact of automobile manufacturers' production cutbacks due to semiconductor supply shortages and other factors was larger than expected, although we made progress in recovering the impact of price hikes on various expenses.

The non-automotive business also suffered from the slowdown in the HDD market from the second half of the year and a decline in orders for semiconductor process components, resulting in lower sales and profits.

# Results for the year ended March 2023 Net Sales / Operating Income by Region



						(100 million yen)
		FYE '22/3	FYE	'23/3	Vs. Previous year	Vs. Forecast
		Result	Forecast	Result	vs. Plevious year	vs. Forecast
	Net Sales	3,413	3,967	3,910	496	-56
Japan	Operating Income	201	274	247	45	-26
	Ratio	5.9%	6.9%	6.3%	0.4%	-0.6%
	Net Sales	1,665	1,858	1,867	202	9
Asia	Operating Income	102	123	104	2	-18
	Ratio	6.1%	6.6%	5.6%	-0.5%	-1.0%
	Net Sales	790	1,175	1,153	363	-21
America & Europe & Others	Operating Income	-90	-17	-63	26	-46
	Ratio	-11.4%	-1.4%	-5.5%	5.9%	-4.0%
	Net Sales	5,869	7,000	6,932	1,063	-67
Total	Operating Income	213	380	288	74	-91
	Ratio	3.6%	5.4%	4.2%	0.5%	-1.3%

#### Vs. FYE'22/3

The automobile-related business was affected by customers' production cutbacks due to semiconductor supply shortages in all regions, but overall remained on a recovery track.

In the Asia, US, Europe, and other segments, sales are increasing due to the impact of yen depreciation.

In the U.S. and Europe, which have been a challenge for us, profitability improved from the previous year, mainly in the sheet business, although the segment is still in the red.

In addition, the profit margin in Asia (Thailand and China), where we have production bases, declined from the previous year due to a decrease in HDD suspension volume.

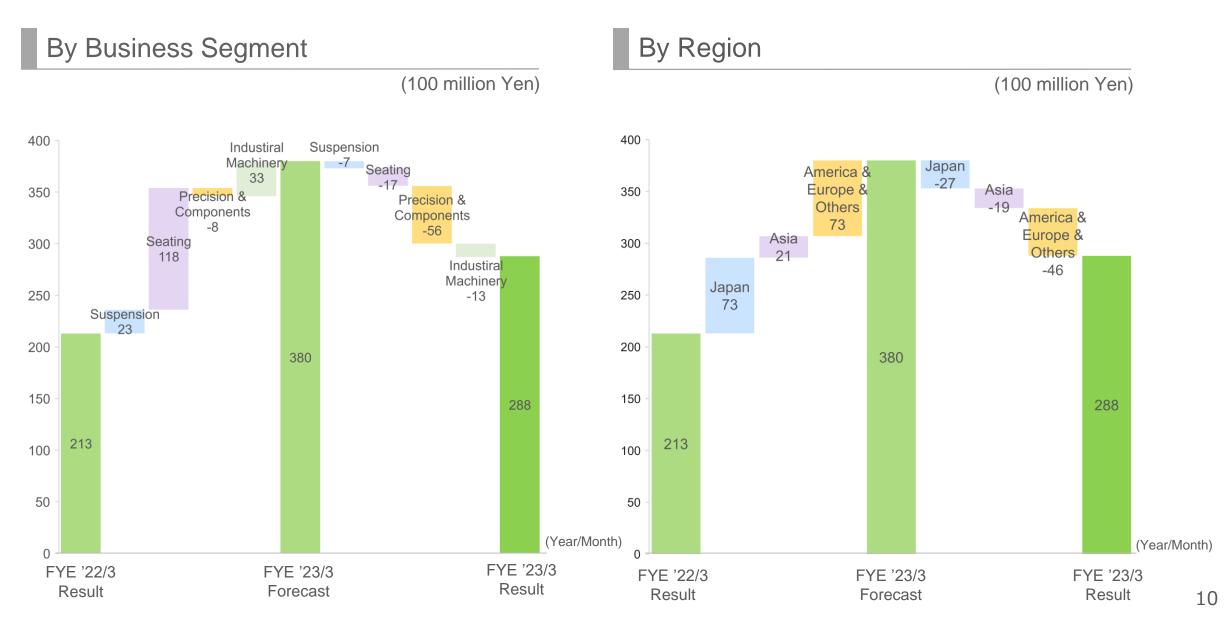
#### Vs. Forecast

The Japan and Asia segments were strongly affected by the slowdown in the HDD market, in addition to the impact of production cutbacks by automobile manufacturer due to semiconductor supply shortages and other factors.

The U.S. and Europe segments posted lower sales and profits due to customers' production adjustments caused by semiconductor supply shortages and other factors, as well as the impact of volume declines in the SUBARU business and higher unit labor costs.

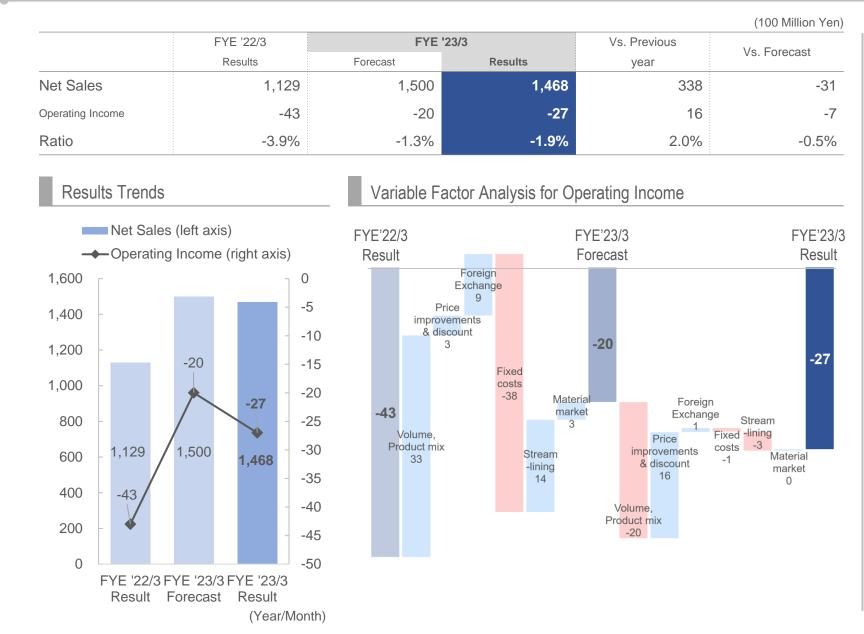
# Results for the year ended March 2023 Operating Income Trends by Segment





### Results for the year ended March 2023: Analysis by Business Segment Automotive Suspension Springs Business





#### Vs. FYE'22/3

Sales volume recovered to a certain degree due to the recovery from the impact of the COVID-19 pandemic, despite the impact of production adjustments by automobile manufacturers due to semiconductor supply shortages and other factors.

In terms of profit and loss, changes in the external environment, such as price hikes in various expenses, and increased labor costs, mainly in the U.S., pushed down profit, but the price pass-through of higher steel material prices and the effect of the weaker yen led to an improvement in both sales and profit over the previous year.

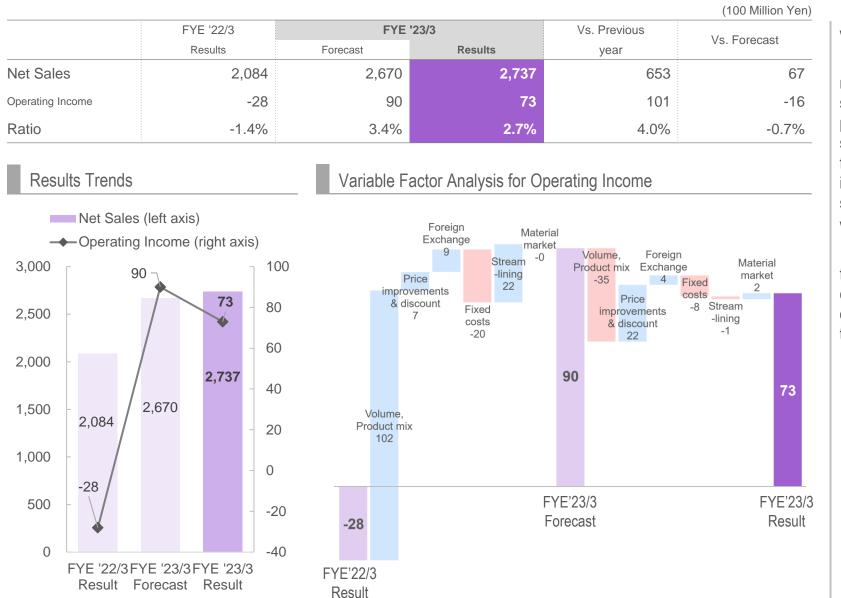
#### Vs. Forecast

Sales and profits declined due to the greater-thanexpected impact of automobile manufacturers' production cutbacks caused by semiconductor supply shortages and other factors, despite of the progress made in passing the impact of the sharp rise in the cost of auxiliary materials, expenses, and energy costs to prices, mainly in Japan.

# Results for the year ended March 2023: Analysis by Business Segment **Automotive Seating Business**

(Year/Month)





#### Vs. FYE'22/3

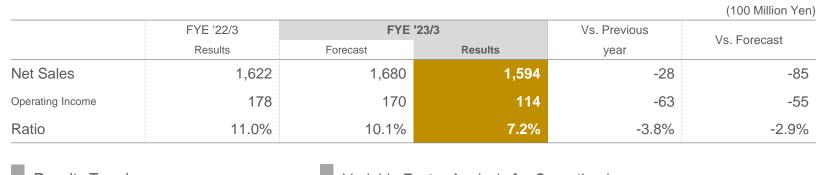
Despite production adjustments by automobile manufacturers due to semiconductor supply shortages and other factors, and the impact of price hikes in steel, energy, and other materials, sales and earnings increased due to a recovery from the impact of the COVID-19 pandemic and an increase in the yen equivalent value of overseas subsidiaries due to the weaker yen.

#### Vs. Forecast

Operating profit was lower than the previous forecast mainly due to the impact of production cutbacks in the SUBARU business from Q4 onward and one-time expenses of -1.1 billion yen to maintain the supply chain in the U.S.

### Results for the year ended March 2023: Analysis by Business Segment **Precision Springs and Components Business**



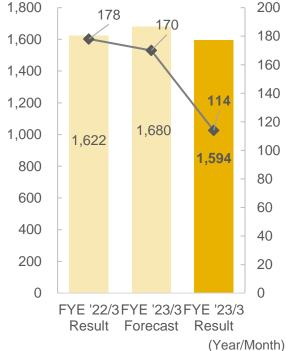


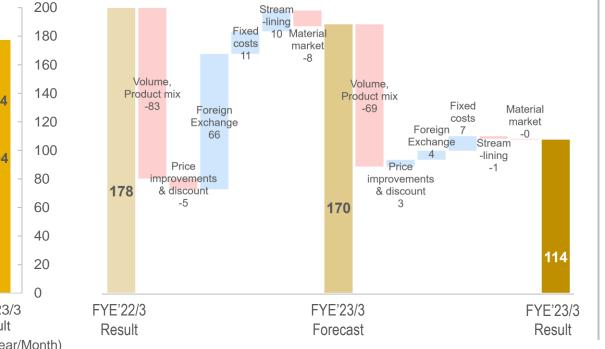
Results Trends



Net Sales (left axis)

Operating Income (right axis)





#### Vs. FYE'22/3

In the automotive business, both sales and profits declined due to production adjustments by automobile manufacturers caused by semiconductor supply shortages and other factors. In the information and telecommunication related business, HDD suspension sales volume declined significantly due to production adjustments by HDD manufacturers, despite the profit boost from the weak yen.

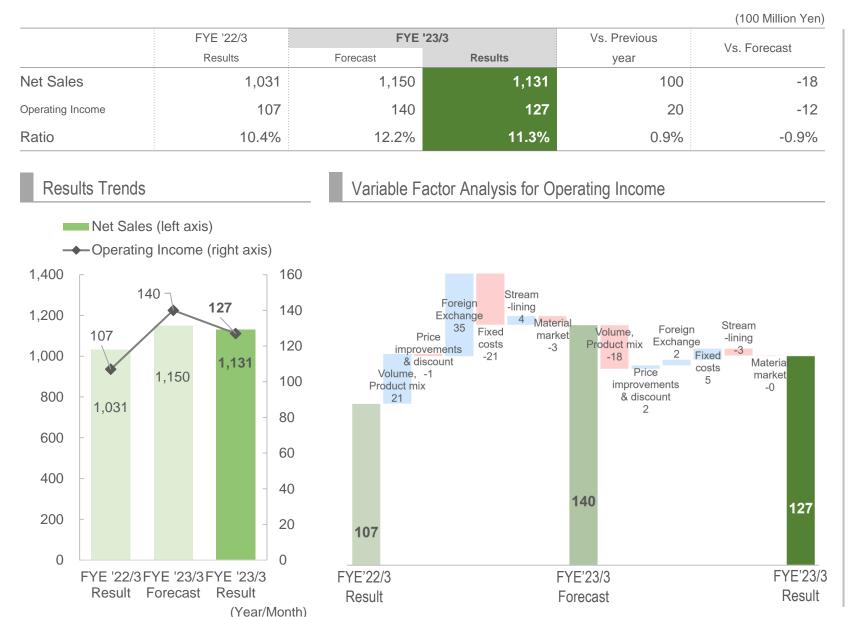
#### Vs. Forecast

The automotive-related business was more affected than expected by automobile manufacturers' production cutbacks due to semiconductor supply shortages, mainly in Japan and North America.

In the information and telecommunication related business, HDD suspension demand fell more than expected, although a slowdown in the market was anticipated from the second half of the year.

### Results for the year ended March 2023: Analysis by Business Segment Industrial Machinery and Equipment, and Other Operations





#### Vs. FYE'22/3

Both sales and income increased due to a recovery in the automotive-related business from the impact of the COVID-19 pandemic, strong orders for semiconductor process components, and the impact of a weaker yen on the exchange rate.

#### Vs. Forecast

Both sales and profit/loss were down from the previous forecast due to lower orders for semiconductor process components from the second half of the fiscal year, although the automotive-related business and golf shafts performed well.



# Details of the Financial Forecast for the Year Ending March 2024

# **Forecast for the year ending March 2024**



(100 million yen)

	FYE '23/3	FYE '24/3	Forecast Vs. Pr	evious year	FYE '24/3	Forecast Vs. Mi	d-term plan
	Result	Forecast	Variance	Ratio	Mid-term plan	Variance	Ratio
Net Sales	6,932	7,500	567	8.2%	6,500	1,000	13.3%
Operating Income	288	350	61	21.4%	400	-50	-14.3%
Ratio	4.2%	4.7%	0.5%	_	6.2%	-1.5%	-31.9%
Ordinary Income	373	400	26	7.2%	420	-20	-5.0%
Ratio	5.4%	5.3%	1.8%	_	6.5%	-1.1%	-21.2%
Profit Attribute to Owners of Parent	215	250	34	16.1%	250	0	_
Extraordinary profits/losses	-70	_	_	_	_	0	_
EPS - Earning Per Share	94.50	110.37	_	_	-	_	_
ROE - Return On Equity	6.4%	7.0%	_	_	8.0%	-1.0%	_
Average Rate US\$	135.0	130.0	-5.0		100.0	30.0	_
Thai Baht	3.7	3.8	0.1	_	3.2	0.6	-

### Forecast for the year ending March 2024 Net Sales / Operating Income by Business Segment



		FYE '23/3 FYE '24/3 Forecast Vs. Previous yea		Forecast Vs.	Previous year	FYE '24/3	Forecast V	
		Results	Forecast	Variance	Ratio	Mid-term plan	Variance	Ratio
Automotive	Net Sales	1,468	1,591	122	8.3%	1,210	381	23.9%
Suspension Springs	Operating Income	-27	21	48	_	30	-9	-42.9%
Business	Ratio	-1.9%	1.3%	3.2%	_	2.5%	-1.2%	-87.8%
	Net Sales	2,737	2,975	237	8.7%	2,400	575	19.3%
Automotive Seating Business	Operating Income	73	118	44	61.4%	80	38	32.2%
	Ratio	2.7%	4.0%	1.3%	_	3.3%	0.6%	16.0%
Precision Springs	Net Sales	1,594	1,797	202	12.7%	1,790	7	0.4%
and Components	Operating Income	114	125	10	9.0%	180	-55	-44.0%
Business	Ratio	7.2%	7.0%	-0.2%	_	10.1%	-3.1%	-44.6%
ndustrial Machinery	Net Sales	1,131	1,137	5	0.4%	1,100	37	3.3%
and Equipment, and	Operating Income	127	86	-41	-32.8%	110	-24	-27.9%
Other Operations	Ratio	11.3%	7.6%	-3.7%	_	10.0%	-2.4%	-32.2%
	Net Sales	6,932	7,500	567	8.2%	6,500	1,000	13.3%
Total	Operating Income	288	350	61	21.4%	400	-50	-14.3%
	Ratio	4.2%	4.7%	0.5%	_	6.2%	-1.5%	-31.9%

(100 million yen)

#### **Automotive Suspension Springs Business**

Aiming to transform into a profitable structure by passing on the impact of rising unit prices of various expenses to prices and strongly promoting sales price improvement and rationalization activities.

#### Automotive Seating Business

Production volume increase mainly in Japan and the U.S.

In addition, we expect to increase sales and profit through cost reductions by streamlining activities.

#### **Precision Springs and Components Business**

Despite volume growth in the automotive sector, demand for HDD suspension is expected to recover in the second half of the year and remain sluggish through the first half of the year.

#### Industrial Machinery and Equipment, and

#### **Other Operations**

Recovery of semiconductor process components volume is expected to begin in the second half of the fiscal year or later. Operating income is expected to fall below the previous year's level, partly due to the negative impact of foreign exchange rate fluctuations.

# Forecast for the year ending March 2024 Net Sales / Operating Income by Region



							-	0 million yen)
		FYE '23/3	FYE '24/3	Forecast Vs.	Previous year	FYE '24/3	Forecast Vs pla	
		Results	Forecast	Variance	Ratio	Mid-term plan	Variance	Ratio
	Net Sales	3,910	4,280	369	9.4%	4,090	190	4.4%
Japan	Operating Income	247	217	-30	-12.3%	270	-53	_
	Ratio	6.3%	5.1%	-1.3%	_	6.6%	-1.5%	_
	Net Sales	1,867	2,012	144	7.7%	1,500	512	25.4%
Asia	Operating Income	104	125	20	19.7%	110	15	12.0%
	Ratio	5.6%	6.2%	0.6%	_	7.3%	-1.1%	_
	Net Sales	1,153	1,208	54	4.7%	910	298	24.7%
America & Europe & Others	Operating Income	-63	8	71	_	20	-12	-150.0%
	Ratio	-5.5%	0.7%	6.2%	_	2.2%	-1.5%	_
	Net Sales	6,932	7,500	567	8.2%	6,500	1,000	13.3%
Total	Operating Income	288	350	61	21.4%	400	-50	-14.3%
	Ratio	4.2%	4.7%	0.5%	_	6.2%	-1.5%	-

#### term Japan

Despite volume growth in automotive-related fields, sales and profits are expected to increase due to the recovery of information and telecommunications-related volumes in the second half of the fiscal year and the negative impact of foreign exchange rates on profits.

#### Asia

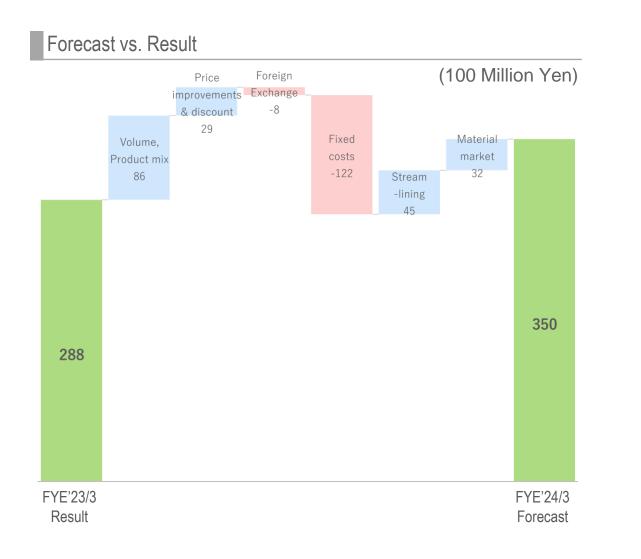
Both Thailand and China are expected to post lower profits in HDD-related components, but the automobilerelated sector is expected to post higher sales and profits due to volume recovery.

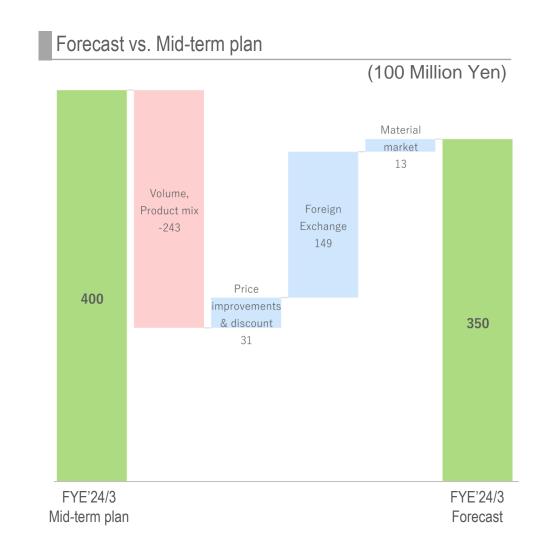
#### America and Europe, and Others

Aim to return the U.S. and European operations to profitability by increasing volume and improving selling prices to offset the impact of logistics costs, power and utilities costs, and labor costs hikes and inflation.

### Forecast for the year ending March 2024 Variable Factor Analysis for Operating Income

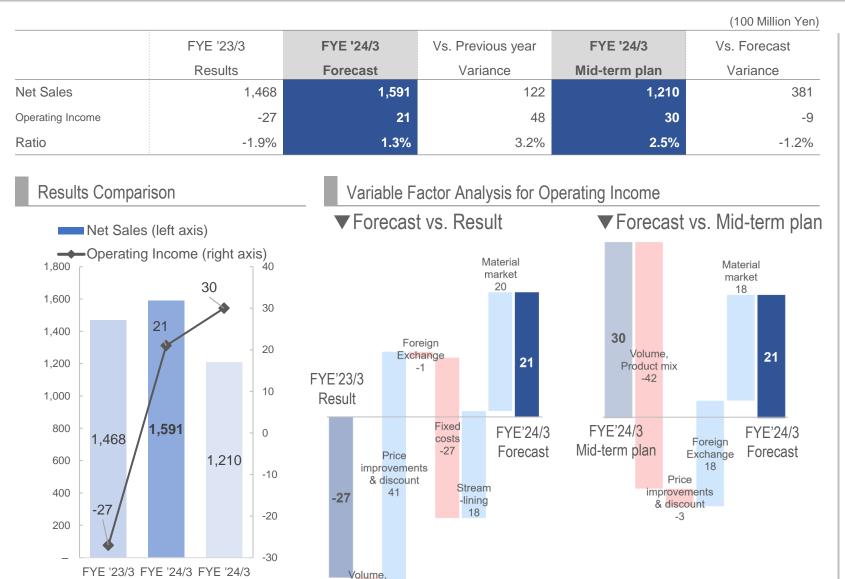






# Forecast for the year ending March 2024: Analysis by Business Segment Automotive Suspension Springs Business





Pro<mark>duct</mark> mix -3

Forecast Mid-term

plan

Results

#### Vs. FYE'23/3

It is still difficult to predict when the supply will stabilize, although the semiconductor shortage is gradually being resolved.

We aim to return to profitability by passing on the impact of rising unit prices of various expenses to prices, improving selling prices, and further promoting rationalization in the U.S. and Europe, which have been a challenge.

#### Vs. Mid-term plan

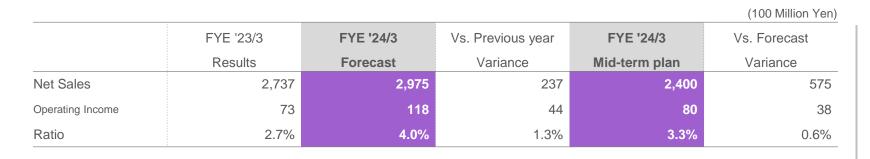
Sales are expected to exceed the initial plan by a large margin due to passing on steel and other price hikes to selling price and the weaker yen. However, profit targets are expected to fall short of the mid-term plan due to lower volume and the impact of soaring costs for auxiliary materials and energy.

### Forecast for the year ending March 2024: Analysis by Business Segment **Automotive Seating Business**

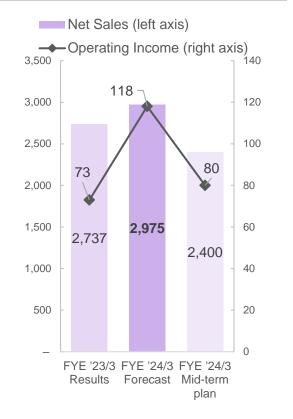
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Result

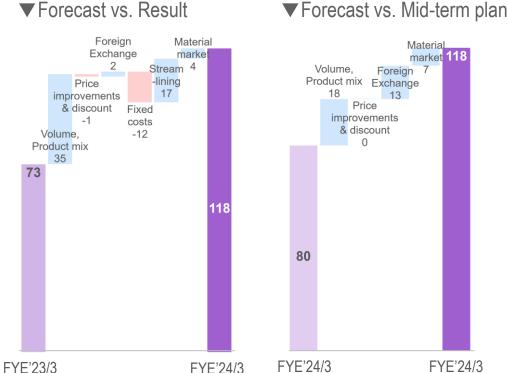




#### **Results Comparison**



Variable Factor Analysis for Operating Income



Forecast

Mid-term plan

Forecast

#### Vs. FYE'23/3

We expect automobile production volume to recover, although the timing of customers' production cutbacks due to semiconductor supply shortages and other factors is uncertain.

Volume will increase mainly in Japan and the U.S. due to increased sales to SUBARU and NISSAN.

Furthermore, we aim to achieve a significant increase in sales and profit through cost reduction activities by streamlining operations.

#### Vs. Mid-term plan

Although the U.S. business will fall short of the profit target, Japan and Thailand business will drive the profitability. Furthermore, with the impact of the weaker yen, we expect an increase in sales and profit for the overall automotive seating business.

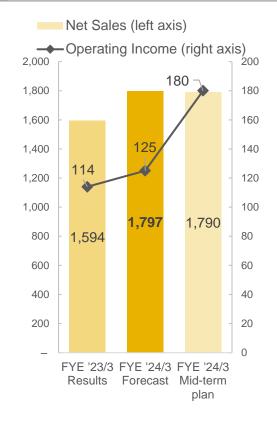
# Forecast for the year ending March 2024: Analysis by Business Segment Precision Springs and Components Business





Result

**Results Comparison** 



#### Variable Factor Analysis for Operating Income

▼Forecast vs. Result ▼ Forecast vs. Mid-term plan Price improvements & discount -22 Foreign Volume, Exchange Product mix -1 77 Fixed Material costs market Material -58 8 market Stream -5 -linina Volume. 114 7 Product mix Foreign -165 180 Exchange 97 125 Price 125 improvements & discount 18 FYE'24/3 FYE'24/3 FYE'23/3

FYE'24/3 FYE'24/3 Forecast Mid-term plan

Forecast

#### Vs. FYE'23/3

Demand for HDD-related components is expected to remain sluggish through the first half of the year, although a recovery in demand for suspensions is anticipated from the second half.

In the automobile-related field, sales and profits are expected to increase due to recovery in production volume, expansion of business scale of Motor Core, a core product for the next fiscal year, and passing on the steep rise in steel material costs to selling prices.

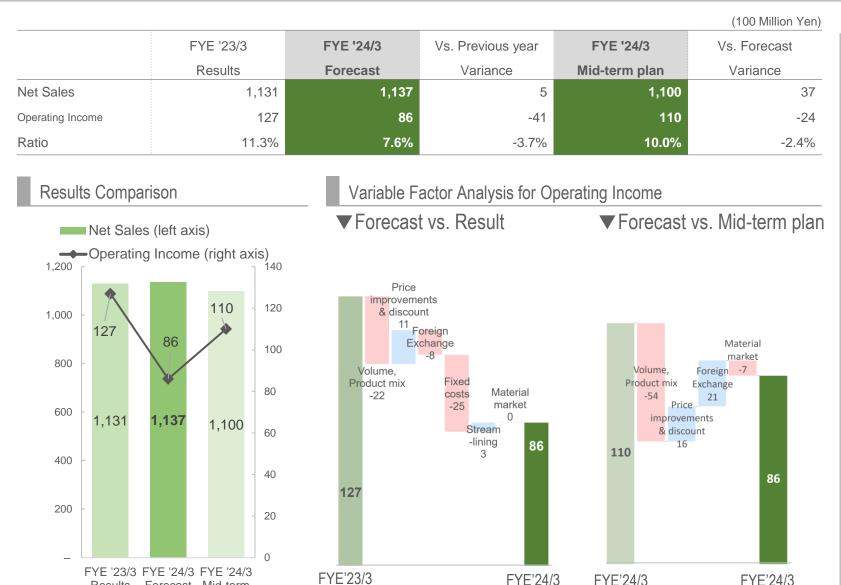
#### Vs. Mid-term plan

In the automobile-related field, earnings in the U.S. and Europe are expected to reach the midterm plan target, but the volume of engine and transmission springs is expected to be lower than initially expected. In addition, sales of motor cores in Japan and China are expected to fall short of the original mid-term plan, resulting in lower sales and profits.

Although the weaker yen is expected to boost profits for HDD-related products, the volume decline in the first half of the year is expected to have a significant impact on profits in Japan, Thailand, and China, all of which are expected to fall slightly short of the profit targets.

### Forecast for the year ending March 2024: Analysis by Business Segment Industrial Machinery and Equipment, and Other Operations





Forecast

Mid-term plan

Forecast

Result

Results

Forecast Mid-term

plan

#### Vs. FYE'23/3

Operating income is expected to be lower than the previous year due to lower volume of semiconductor process components and the negative impact of foreign exchange rates on profits, although the leisure sector, including golf shafts and marine products, is expected to remain strong.

#### Vs. Mid-term plan

The leisure sector, including golf shafts and marine products, is expected to perform well against the mid-term target. On the other hand, semiconductor processing components are expected to see lower sales and profits compared to the mid-term plan due to the volume decline in the first half of the year, although the weaker yen will boost profits.



# For Future Growth

President & CEO Representative Member of the Board



# **Background and Project Measures**



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Automotivo	-Increasing the value of Automotive	Profitability Impr	ovement Project	
Automotive Suspension Springs	Suspension Springs	-Price improvement of Automotive Suspension Springs -Negotiation of appropriate price for cost increase -Productivity improvement		
Automotive		SUBARU Project		
Seating	Adaptation to electrification	-Establishment of a management -Development of seats adapted t	t system with QCDD to needs	
		Motor Core	Die	
Motor Core	Further acceleration of electrification	-Expand new sales by leveraging st -Accelerate business by increasing	rengths competitiveness and differentiation	
			25	



# Automotive Suspension Springs Initiatives Profitability Improvement Project



## Increasing the value of Automotive Suspension Springs

-Price improvement-Price pass-through of inflationary increases

### Labor productivity improvement

Productivity improvement based on rising labor costs
Thorough manpower saving

### **Equipment productivity improvement**

Aim for optimal production between sites based on global utilization rates

### **Strengthening resilience and BCP**

Review of global supply structure for stable supply and production flexibility

#### Roadmap NHK SPRING CO.,LTD. 2023 2024 2025 **Profit increase Returning to profit Maximum profit** Increasing the Value of Price improvement due to increased value Automotive Suspension Springs Improvement in inflation increase manpower saving Labor productivity improvement Ensure adequate production $3 \text{ shift} \rightarrow$ 2 shift production

Strengthening

Equipment productivity

improvement

resilience and BCP

Optimized production system

Global multi-site production



# Automotive Seating Initiatives SUBARU Project

# **Relationship with SUBARU**



# SUBARU market share

North America : 1 0 0 % Japan : 9 2 %

<u>Time from order to delivery</u>

Delivered in 3 hours

<u>History</u>

-Delivering seats since 1969 -Synchronized production since 1989

<u>Construction of a new plant</u> in North America

July 2021: Incorporation begins

 $\rightarrow$ We need to further improve SUBARU's satisfaction.

# What's needed to improve customer evaluations and strengthen relationships?



Q:Quality Quality creation from the development and design stages

<u>C:Cost</u> Eliminate design rework and achieve cost targets

D:Delivery date Clarification of processes and driving progress by Project Manager D:Development -Pursuit of the essence of seating -Virtual development

Establishment of Project Management (PM) structure

- -Centralized management of the entire project progress and a single point of contact with the client
- -Specialized teams focus on their own tasks to improve efficiency

<u>Customer Evaluation</u> Improve QCDD and respond quickly, leading to evaluation and building even stronger relationships



# Motor Core Initiatives Motor Core Project Die Project

# **Details of Measures**



### **Establishment of global production system**

 $\sim$ Responding to increased orders $\sim$ 

- -Construction of new production building (Atsugi Plant)
- -Land acquisition (Mexico)

-Production capacity expansion (China)

### **Increased die fabrication capacity**

-Increase and train more designers
-Expansion of machining facilities
-Add design and manufacturing base in Thailand

### Development of new construction methods

- -Interlock-less lamination
- -Glue bonding core

-Interlock-less+

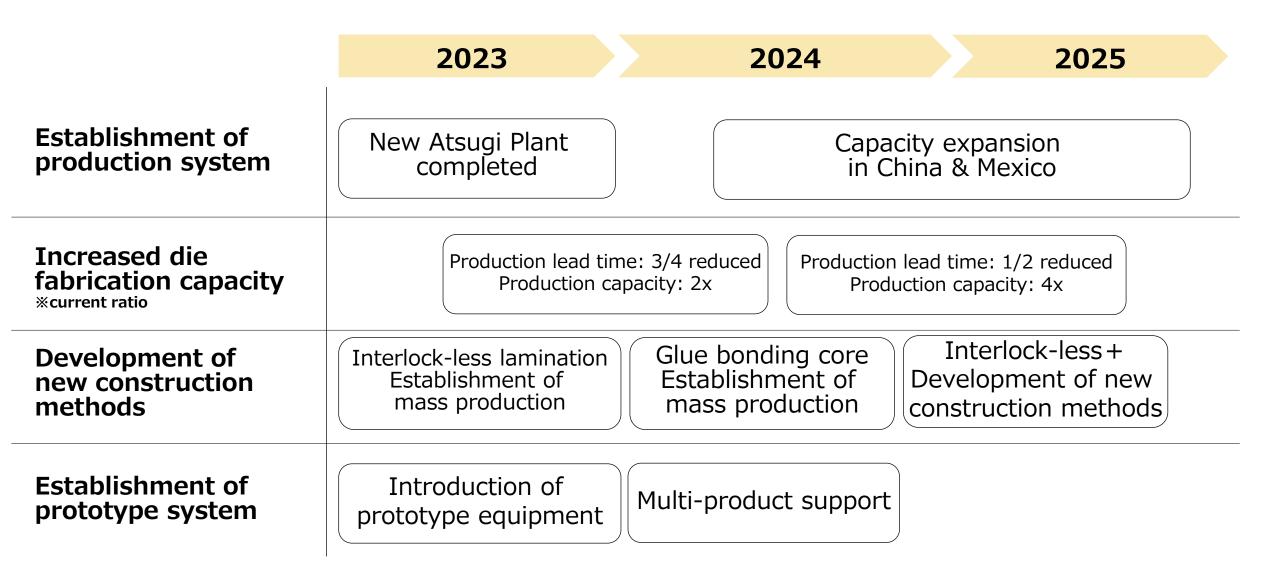
Development of new construction methods

### **Proactive response to prototypes**

- -Reinforcement of design system
   -Reinforcement of prototype production system
- -Introduction of dedicated press machine for prototype production

# Roadmap





# Global sales of Motor Core (billion yen)



Growth period	Expansion period	Maturity period
		Establish originality Aiming for industry
	<b>Expansion</b> -Expansion of Motor Core business in three global	standardization $\rightarrow$ Game change
Infrastructure development Building a foundation for	locations -Creating originality	
business expansion and production technology		
 2022 2023 2024 2025 2026 2	2027 2028 2029 2030 203	31 2032 2033 2034 2035

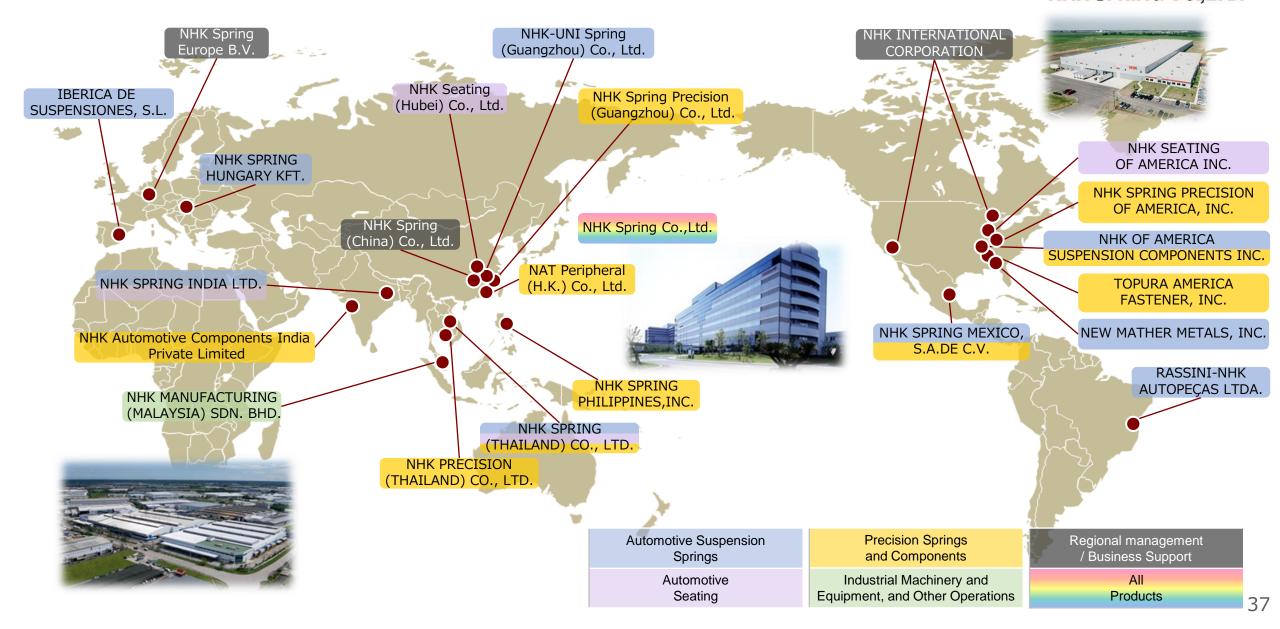
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# Supplementary Materials

## Supplementary Materials: Overseas Expansion Major Overseas Operations

## NHK NHK SPRING CO., LTD.



# Supplementary Materials Details of Net Sales (full-year)



-

***Suspension***					_			9 Othoro					(100	
FYE'22/3 Result	516	340	273			Japan	Asia <mark>=</mark> US, EU	& Others					(100 mi US,EU	llion Yen)
FYE'23/3 Result	590	438	3	439							Japan	Asia	&Others	Total
FYE'24/3 Forecast	648		69	474						FYE'22/3 Result	516	340	273	1,129
***Seating***									Automotive Suspension Spring Business	FYE'23/3 Result	590	438	439	1,468
FYE'22/3 Result	1,0	54		607		422				FYE'24/3 Forecast	648	469	474	1,591
				007			500			FYE'22/3 Result	1,054	607	422	2,084
FYE'23/3 Result		1,432			70	28	596		Automotive Seating Business	FYE'23/3 Result	1,432	708	596	2,737
FYE'24/3 Forecast		1,62	26			749	600		Business	FYE'24/3 Forecast	1,626	749	600	2,975
***Precision***										FYE'22/3 Result	823	705	93	1,622
FYE'22/3 Result	823		7	705	93				Precision Springs& Components	FYE'23/3 Result	771	704	117	1,594
FYE'23/3 Result	771		7(	)4	117				Business	FYE'24/3 Forecast	890	773	134	1,797
FYE'24/3 Forecast	890			773	134	1				FYE'22/3 Result	1,019	12	-	1,031
***Industrial***									Industrial Machinery& Equipment & Other	FYE'23/3 Result	1,116	15	-	1,131
FYE'22/3 Result	1,01	19	12						Operations	FYE'24/3 Forecast	1,116	21	-	1,137
FYE'23/3 Result	1,1	116		15						FYE'22/3 Result	3,413	1,665	790	5,869
FYE'24/3 Forecast	1,1	116		- 21					Total	FYE'23/3 Result	3,910	1,867	1,153	6,932
	) 500	)	1,000	٨	,500	2,000	2,500	2 000		FYE'24/3 Forecast	4,280	2,012	1,208	7,500
C	500	,	1,000	Ι,	500	∠,000	2,300	3,000						



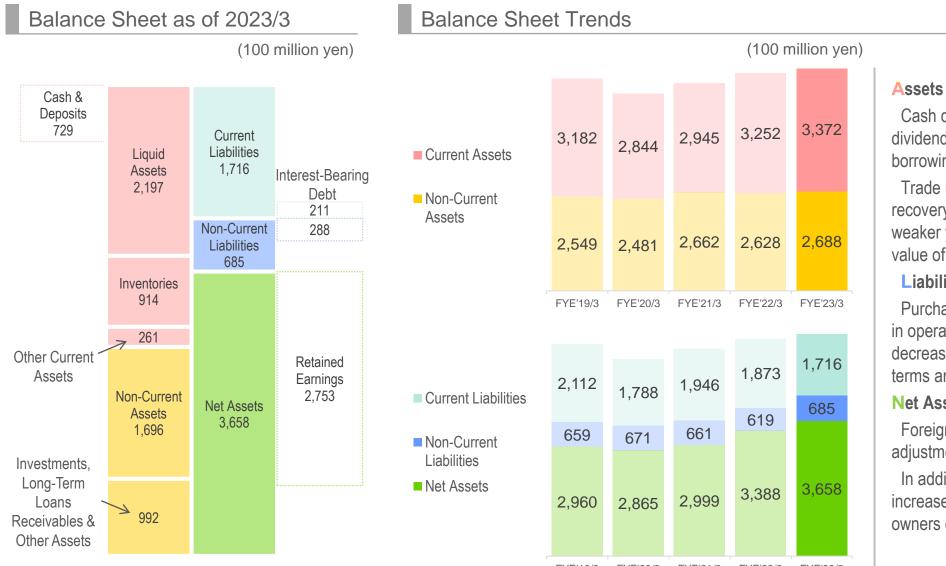
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(100 million yen)

	FYE'19.3	FYE'20.3	FYE'21.3	FYE'22.3	FYE '23/3 Result	Increase /Decrease
Total Assets	5,731	5,326	5,607	5,880	6,060	179
Stockholder's Equity	2,811	2,709	2,839	3,226	3,492	266
Stockholder's Equity to Total Assets Ratio	49.0%	50.9%	50.6%	54.9%	57.6%	2.8%
Cash and Bank Deposits	985	745	793	921	729	-191
Interest Bearing Debt	687	581	697	505	500	-5
Net Cash	298	164	95	416	229	-186

#### Supplementary Materials **Balance Sheet Status**





Cash decreased due to payments of dividends and repayments of borrowings.

Trade receivables increased due to a recovery in business transactions and a weaker yen, which pushed up the yen value of assets of foreign subsidiaries.

#### Liabilities

Purchases increased due to a recovery in operating transactions, but liabilities decreased due to changes in payment terms and income tax payments.

#### Net Assets

Foreign currency translation adjustments increased.

In addition, retained earnings increased due to profit attributable to owners of the parent.

#### Supplementary Materials **Capital Investment / Depreciation & Amortization**



## by Business Segment

(100 million Yen)

		FYE'22/3	FYE'23/3	FYE'24/3
		Result	Result	Forecast
Capital Investments	Automotive Suspension Springs	30	45	78
	Automotive Seating	50	46	59
	Precision Springs & Components	113	121	196
	Industrial Machinery & Others	30	58	63
	Company-wide sharing	7	9	40
	Total	232	280	436
	Vs. Previous year	-6.9%	20.7%	55.3%
Depreciation	Automotive Suspension Springs	66	66	62
& Amortization	Automotive Seating	48	55	48
	Precision Springs & Components	114	113	122
	Industrial Machinery & Others	36	35	39
	Company-wide sharing	17	17	25
	Total	283	288	296
	Vs. Previous year	2.9%	2.0%	2.5%

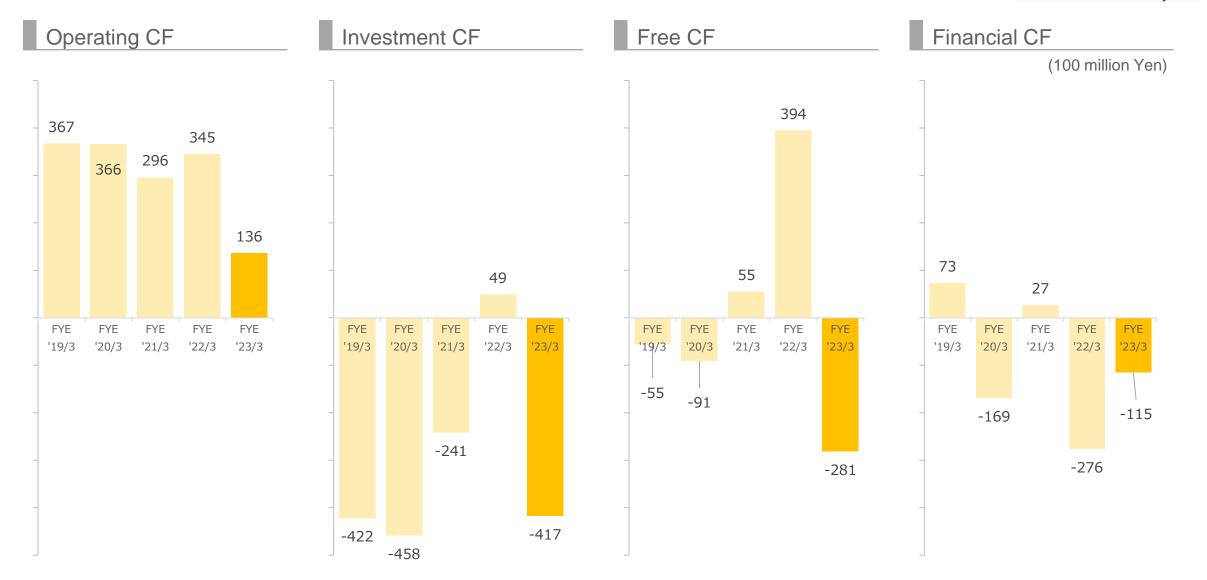
#### Supplementary Materials Capital Investment / Depreciation & Amortization Cont'd



by Region				(100 million Yen)
		FYE'22/3 Result	FYE'23/3 Result	FYE'24/3 Forecast
Capital Investments	Japan	130	178	252
	Asia	73	61	126
	America, Europe & Others	28	40	58
	Overseas total	102	102	184
	Total	232	280	436
Depreciation	Japan	165	149	162
& Amortization	Asia	73	86	91
	America, Europe & Others	44	52	43
	Overseas total	117	139	134
	Total	283	288	296

## Supplementary Materials Cash Flow Status

NHK NHK SPRING CO., LTD.

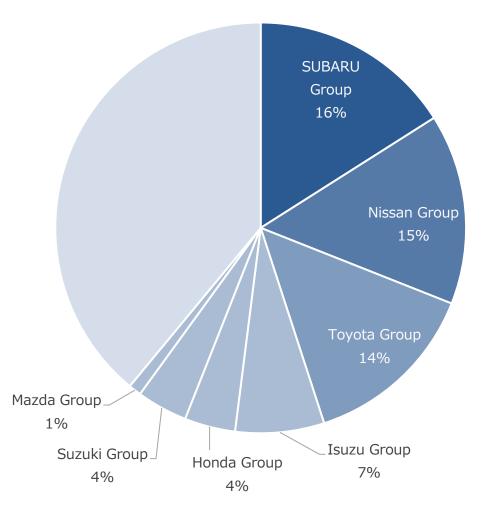


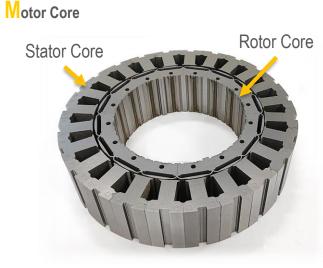
### Supplementary Materials Sales Breakdown to Each of the Major Car Makers



Major car makers	FYE'22/3	FYE'23/3
SUBARU Group	15%	16%
Nissan Group	14%	15%
Toyota Group	13%	14%
Isuzu Group	6%	7%
Honda Group	4%	4%
Suzuki Group	4%	4%
Mazda Group	1%	1%
Top 3 Companies	42%	45%

(Note) The percentages show share versus total net sales.





NHK produce Motor Cores, which are laminated iron cores used in the motors -- drive motors and/or power generators-- for EV and HV vehicles. They are made by some hundred layers of 0.25-0.35 mm thickness electromagnetic steel sheets which are stamped out one by one, and are fastened together by caulking or welding.

The motor core consists of the Rotor Core, which has a magnet inserted and serves as the rotating part of the motor, and the Stator Core, which is the fixed winding part. Electric power from battery is supplied to the motors through inverters, and Rotor Cores --which contains magnets-- are pulled and repelled by rotating magnetic field generated in the Stator Cores-- which are wound with coils--, causing Rotor Cores high speed rotation. Thin plate laminated iron cores can easily pass through magnetic field lines, and have ability to generate stronger magnetic force.

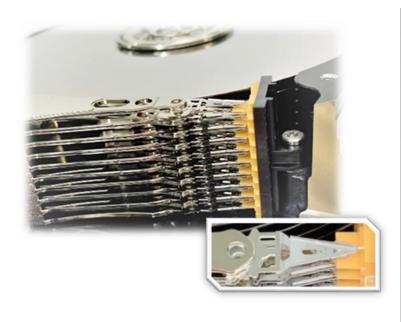
NHK Motor Cores are diameter of around 200mm and height of around 150mm, which is a relatively large size for the precision stamped products that NHK produce; but NHK has built up an ability over the many years, to produce dimensional accuracy as micron level, through our production of automotive parts and HDD (hard disk drive) parts, to be able to produce this kind of large, ultra-high precision stamped products.

The press dies --which is the key to the production of Motor Core-- are manufactured in-house, from designing, production to maintenance. In addition to our Atsugi Plant in Japan, NHK is able to produce the same quality motor cores, at our global operations in Mexico and China.



## Supplementary Materials: Product Information Suspension for HDD (Hard Disk Drive) Read-Write Head







Suspensions for HDD are unique spring products, holding read-write head in Hard Disk Drive devices.

In these days, there are much more HDDs in the Data Center in the companies ,who operates SNS and/or Video sharing sites --rather than used in Personal computers--; In these Data Centers, Ultra-large capacity HDDs line up with unit of hundreds of thousands.

A lot of CLA type suspensions (Refer Note 1. :hereinafter CLA) are used in these kind of HDDs; for example, in the picture (left), 18 pieces of CLA are used in 1 HDD equipment. The CLA is an Ultra-small actuator, built into the tip of the suspension, which moves read-write head. The CLA types can make finer movement at higher speed, rather than DSA type suspensions (Refer Note 2. :hereinafter DSA), a conventional product with a small actuator built into the center.

If you compare it to a human part, DSAs use up to the wrist, and CLAs use up to the fingertips; It has become an indispensable product for ultra-large capacity HDDs, by improving positioning accuracy and speed, with speedy & fine movements.

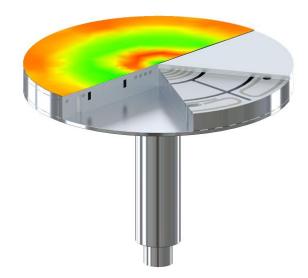
NHK Spring had started CLA mass-production from January 2016 --first in the world– and have top share of the world.

\*Note 1 : CLA stands for "Co-Located Actuators" \*Note 2 : DSA stands for "Dual Stage Actuators"

# Supplementary Materials: Product Information Parts for Semiconductor Manufacturing Equipment



Stage heater with multi-zone temperature distribution control function for film deposition equipment



Ceramics spray-coated cooling plate for etching equipment



In semiconductors, conductors and insulators are drawn in a fine and complicated pattern on a silicon substrate to form a circuit.

Our stage heaters, which are mainly made of metal such as aluminum alloy and stainless steel, are broadly adopted in film deposition processes such as CVD and ALD\*, and they make it possible to realize a complicated internal structure by the advanced bonding technology that we have cultivated over many years. \*CVD stands for Chemical Vapor Deposition \*ALD stands for Atomic Layer Deposition

In making full use of our own heater element design technology and analysis technology for simulation, it is possible to arrange multiple heater elements, refrigerant channels, and heat insulating space, which enables to realize not only equalize temperature distribution, but also active temperature distribution control, that partially generates a difference in the range of several tens of degrees.

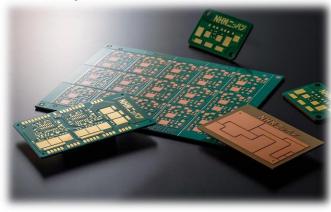
Regarding to etching equipment, we are manufacturing important stage parts called cooling plates, on which silicon wafers are loaded during process. Most of them are made from aluminum alloy; NHK have the strength of integrated production --from material procurement to precision processing and ceramic spray coating--, and applying our advanced bonding technology, common to the heater manufacturing.

In these years, in addition to the parts at the bottom of the chamber -- heater and cooling plate which support work in process wafers--, we have also focused on developing the parts of the upper side of the chamber -- called shower heads, for the purpose of supplying required gas in the process --, and this sales are also increasing.

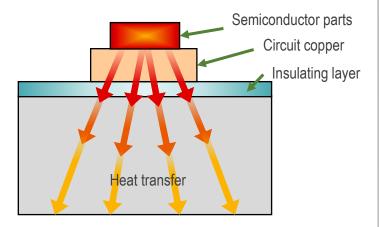
## Supplementary Materials: Product Information IMS (Integrated Metal Substrate)



MS with high heat dissipation and high reliability insulation layer



**C**ross-sectional structure of IMS



Metal base (Iron, Aluminum, Copper)

Integrated Metal Substrates (IMS) are circuit plates, circuits are formed via an insulating layer on metal base, such as aluminum or copper, and their excellent heat dissipation are characteristic of IMS. Taking advantage of this heat-radiating performance, IMS is used in the fields of automotive, industrial, and consumer applications, to efficiently dissipate the heat generated by semiconductor components mounted on IMS.

In the automotive field, our products are increasingly used in DC-DC converters and charger modules for electric and hybrid vehicles, and we are aiming to use them in drive inverter circuits in their future. In industrial applications, in addition to general-purpose inverters and inverter circuits for air conditioners, our IMS are widely used as power modules inside power conditioners for renewable energy.

Our IMS is specialized in the development and manufacturing of high heat radiation and highly reliable insulating layers.

Our IMS is characterized by our strength in integrated production, from the development of high heatdissipating and highly reliable insulating layers, to manufacturing and finishing into IMS.

We have been developing IMS since 1980s, and have been leading the industry by introducing high heat dissipation insulating materials to the market successively.



# NHK SPRING CO.,LTD.

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