

Financial Results

Results for the Fiscal Year
Ended March 2024
& Forecast for the Fiscal Year
Ending March 2025

TSE Prime: 5991
NHK Spring Co., Ltd.
May 27, 2024



Overview of the Financial Results for the Year Ended March 2024

Executive Vice President & CFO and
Representative Member of the Board

Hidefumi Yoshimura

Thank you for taking the time out of your busy schedule to attend our financial results briefing today.

Overview of the Financial Results for the Year Ended March 2024



(100 million yen)

	FY2022		FY2023		Vs. FY2022		Results Vs. Mid-term plan		FY2024		Forecast Vs. Previous year	
	Results		Mid-term plan	Results	Results	Results	Ratio	Forecast	Variance	Ratio		
Net Sales	6,932		6,500	7,669	736	1,169	15.2%	7,800	130	1.7%		
Operating Profit	288		400	346	58	-54	-15.4%	400	54	15.4%		
Ratio	4.2%		6.2%	4.5%	0.4%	-1.6%	-	5.1%	0.6%	-		
Ordinary Profit	373		420	478	104	58	12.2%	470	-8	-1.7%		
Ratio	5.4%		6.5%	6.2%	0.9%	-0.2%	-	6.0%	-0.2%	-		
Profit Attributable to Owners of Parent	215		250	391	176	141	36.2%	400	8	2.1%		
Extraordinary profits/losses	-70		-	90	160	90	-	85	-4	-5.3%		
EPS - Earning Per Share (unit: yen)	94.50		-	173.27	78.77	173.27	-	180.62	7.35	-		
ROE - Return On Equity	6.4%		8.0%	10.4%	4.0%	2.4%	-	9.7%	-0.7%	-		
Average Rate	US\$	135.0	100.0	144.4	9.5	44.4	-	148.0	3.6	-		
	Thai Baht	3.7	3.2	4.0	0.3	0.8	-	4.0	-0.0	-		
Current Rate	US\$	This year	133.5	100.0	151.4	17.9	51.4	-	145.0	-6.4	-	
		Previous year	122.4	-	133.5	11.1	133.5	-	151.4	-	-	
	Thai Baht	This year	3.8	3.2	4.1	0.3	0.9	-	4.0	-0.1	-	
		Previous year	3.4	-	3.8	0.4	3.8	-	4.1	-	-	

3

First, I would like to provide an overview of the financial results.

For the fiscal year ended March 2024, net sales were 766.9 billion yen, operating profit was 34.6 billion yen, ordinary profit was 47.8 billion yen, and net profit attributable to the shareholders of the parent company was 39.1 billion yen.

The exchange rates are as listed.

Compared to the targets in the 2023 mid-term plan, we exceeded the targets for all items except for operating profit.

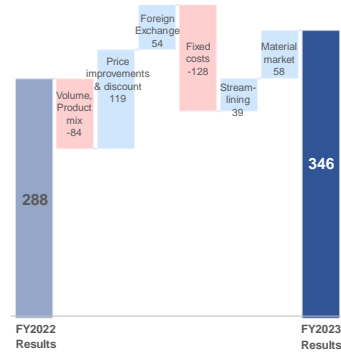
Additionally, the forecast for the fiscal year ending March 2025 is net sales of 780 billion yen, operating profit of 40 billion yen, ordinary profit of 47 billion yen, and net income of 40 billion yen.

Variable Factor Analysis for Operating Profit

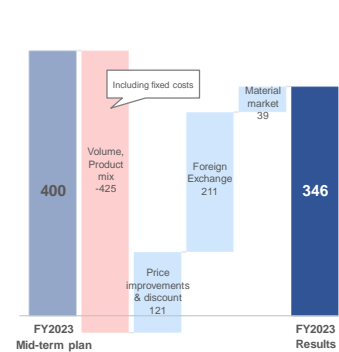
	FY2022	FY2023		Vs. FY2022	Vs. Mid-term plan
	Results	Mid-term plan	Results	Results	Results
Net Sales	6,932	6,500	7,669	736	1,169
Operating Profit	288	400	346	58	-54
Ratio	4.2%	6.2%	4.5%	0.4%	-1.6%

Variable Factor Analysis for Operating Profit

(Vs. Previous year)



(Vs. Mid-term plan)



Vs. FY2022

30% of the increase in sales reflected the impact of the weaker yen on overseas subsidiaries and 20% reflected passing on the steep rise in raw material costs to selling prices. Sales were therefore significantly impacted by fluctuations in exchange rates and material markets.

In non-automobile-related industries, despite the boost from the weak yen, sales and profits decreased due to reduced volume in HDD-related components and semiconductor process components business, which had been performing well until the first half of the previous year.

On the other hand, the automobile-related industry saw an increase in sales as the impact of supply shortages for components such as semiconductors was resolved. Although fixed costs increased in some areas in the U.S. and Europe, the strong performance of the Automotive Seating business and improved selling prices in the second half contributed to increased sales and profits.

Vs. Mid-term plan

Net sales significantly exceeded the mid-term plan due to the reflection of increased steel prices in selling prices and the impact of yen conversion for overseas subsidiaries due to the weak yen.

In the automobile-related industry, while the Automotive Seating business is the main driver, there has been a decrease in volume in HDD-related business and semiconductor process components business since the second half of the previous year. Due to this, operating profit for the Group overall is below the target in the mid-term plan.

Here is a graph showing the factors influencing operating profit for the fiscal year ended March 2024.

Compared to the previous fiscal year, the variation in sales and composition differences showed an increase in volume for the automobile-related business, but a significant decrease in volume for the HDD-related business and semiconductor process components business, resulting in a decrease of 8.4 billion yen in profit.

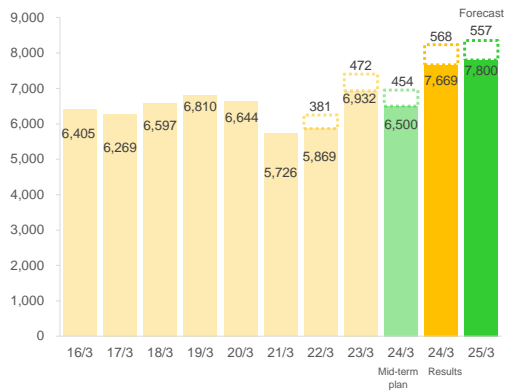
Additionally, although there was an increase in fixed costs due to the increase in automobile-related business volume, inflation impacts, and base pay increases, there were profit-increasing factors such as cost recovery, sales price improvements, factory streamlining, and exchange rates, resulting in a profit increase of 5.8 billion yen compared to the previous fiscal year.

Compared to the mid-term plan, despite significant growth in the automotive seating business, other businesses saw a decrease in volume, especially the precision springs & components business, including HDD-related business and semiconductor process components business. Despite profit-increasing factors like exchange rates and sales price improvements, we fell short of the mid-term target by 5.4 billion yen.

Results Trends

Net Sales

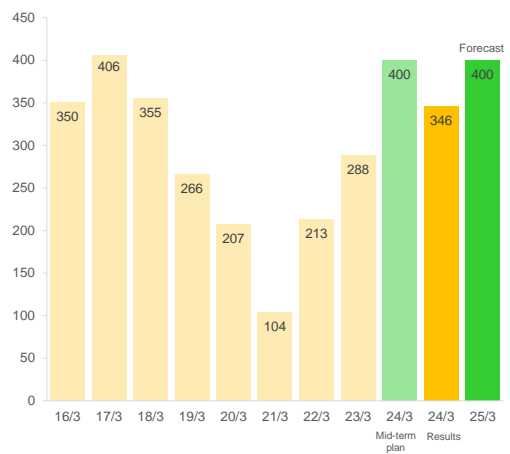
(100 million yen)



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.

Operating Profit

(100 million yen)



Next, I would like to discuss the performance trends. Although operating profit did not reach the target of the 2023 mid-term plan, it has been recovering steadily since the bottom in the fiscal year ended March 2021.

Extraordinary Profits/Losses

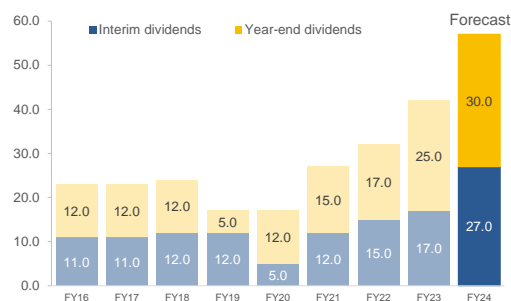
Extraordinary profits/losses			(100 million yen)
Breakdown	Details		Amount
Extraordinary profits	Gain on sale of investment securities	Gain on the sale of policy-holding shares	161
		Other	2
	Total		163
Extraordinary losses	Impairment loss	Production equipment	70
		Other	3
	Total		73

Impairment Loss				(100 million yen)
Purpose	Company	Description	Amount	
Production equipment	Subsidiaries in China	Building, Machinery	44	
	Subsidiaries in Hungary	Machinery	19	
	Subsidiaries in America	Building, Machinery	5	
	Industrial Machinery & Other Operations in NHK SPRING	Building, Machinery	1	
Total			70	

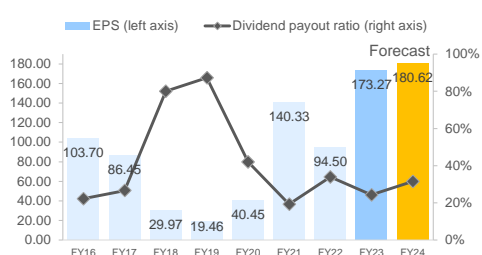
Here is the status of extraordinary profits and losses. While we recorded a gain of 16.1 billion yen from the sale of investment securities, we also recorded an impairment loss of 7 billion yen. The breakdown of the impairment loss is as shown, with significant amounts recorded for subsidiaries in China and Hungary.

Dividends

Dividend Per Share (DPS)



Earnings Per Share (EPS)



	End of Q2	Year-end	Total	Dividend payout ratio
Result for the year ended Mar. 2024	17.0 yen	25.0 yen	42.0 yen	24.2%
Forecast for the year ending Mar. 2025	27.0 yen	30.0 yen	57.0 yen	31.6%

Next, I would like to discuss the trend in dividend amounts.

For the fiscal year ended March 2024, the year-end dividend has been increased by 2 yen from the initial plan to 25 yen, with an annual total of 42 yen.

For the fiscal year ending March 2025, we plan to further increase the dividend to 27 yen at mid-term and 30 yen at year-end, for an annual total of 57 yen.

Financial Results for the Year Ended March 2024

Let's take a closer look at the financial results for the fiscal year ended March 2024.

Net Sales/Operating Profit by Business Segment

		(100 million yen)					
		FY2022	FY2023		Vs. FY2022	Vs. Mid-term plan	
		Results	Mid-term plan	Results	Results	Results	
■ Automotive Suspension Springs	Net Sales	1,468	1,210	1,711	243	501	
	Operating Profit	-27	30	15	43	-14	
	Ratio	-1.9%	2.5%	0.9%	2.8%	-1.6%	
■ Automotive Seating	Net Sales	2,737	2,400	3,241	503	841	
	Operating Profit	73	80	191	118	111	
	Ratio	2.7%	3.3%	5.9%	3.2%	2.6%	
■ Precision Springs & Components	Net Sales	1,594	1,790	1,617	22	-173	
	Operating Profit	114	180	71	-43	-109	
	Ratio	7.2%	10.1%	4.4%	-2.8%	-5.7%	
■ Industrial Machinery & Others	Net Sales	1,131	1,100	1,099	-32	-1	
	Operating Profit	127	110	68	-59	-42	
	Ratio	11.3%	10.0%	6.2%	-5.1%	-3.8%	
Total	Net Sales	6,932	6,500	7,669	736	1,169	
	Operating Profit	288	400	346	58	-54	
	Ratio	4.2%	6.2%	4.5%	0.4%	-1.6%	

Vs. FY2022

The automobile-related industry showed an overall increase in sales due to the resolution of the impact of semiconductor shortages.

Automotive Suspension Springs turned profitable as improved selling prices in the second half offset increased fixed costs in the U.S. and Europe.

Automotive Seating saw an increase in the number of units ordered from each customer, resulting in the highest ever operating profit.

Precision Springs & Components saw a decrease in profits due to reduced quantities of HDD-related components, despite a recovery in the automobile-related industry and the boost from the weak yen.

Industrial Machinery & Others saw decreased sales and profits, primarily due to reduced quantities in semiconductor process components and the leisure sector.

Vs. Mid-term plan

While the Automotive Seating business is the main driver, due to the failure of the North American Automotive Suspension Springs business to achieve its profit target and a decrease in volume in HDD-related components and semiconductor process components, operating profit for the Group overall is below that of the mid-term plan.

First, I would like to discuss net sales and operating profit by business segment. Compared to the previous fiscal year, the automobile-related businesses such as automotive suspension springs and automotive seating saw an increase in sales, with the automotive suspension springs business turning profitable. The automotive seating business recorded its highest ever profit. In the precision springs & components business, although there was a recovery trend in the automobile-related industry, a decrease in volume in the HDD-related business led to a decline in profit. In the industrial machinery & other operations, a decrease in semiconductor process components and a decrease in the leisure sector led to a decline in both sales and profit. Compared to the mid-term plan, the automotive seating business saw a significant increase in profit, but the decrease in profit for the HDD-related business and semiconductor process components business was substantial, resulting in overall operating profit unfortunately falling short of the mid-term plan.

Net Sales/Operating Profit by Region

		(100 million yen)				
		FY2022	FY2023		Vs. FY2022	Vs. Mid-term plan
		Results	Mid-term plan	Results	Results	Results
● Japan	Net Sales	3,910	4,090	4,377	466	287
	Operating Profit	247	270	299	51	29
	Ratio	6.3%	6.6%	6.8%	0.5%	0.2%
● Asia	Net Sales	1,867	1,500	1,869	1	369
	Operating Profit	104	110	79	-25	-30
	Ratio	5.6%	7.3%	4.2%	-1.4%	-3.1%
● America & Europe & Others	Net Sales	1,153	910	1,423	269	513
	Operating Profit	-63	20	-31	31	-51
	Ratio	-5.5%	2.2%	-2.2%	3.3%	-4.4%
Total	Net Sales	6,932	6,500	7,669	736	1,169
	Operating Profit	288	400	346	58	-53
	Ratio	4.2%	6.2%	4.5%	0.4%	-1.6%

Vs. FY2022

Japan saw a volume decrease in HDD-related components and semiconductor process components, but sales and profits increased due to positive contributions from the weak yen and increased sales in the automobile-related business centering on the Automotive Seating business.

In Asia, the automotive sector in Thailand continued to perform well, but due to a decrease in orders for automobile-related components in China and HDD-related components in Thailand and China, profit and loss performance fell below the previous year's results.

In Europe, America, and other regions, there was a rise in personnel expenses, etc., but measures to improve selling prices made a positive contribution, and the extent of the loss was smaller than the previous year.

Vs. Mid-term plan

In Japan, sales decreased, especially for HDD-related components, semiconductor process components, and integrated metal substrates, but the Automotive Sealing business in particular drove increased sales and profits.

In Asia, the mid-term plan was not met mainly due to reduced quantities of automotive-related components and HDD-related components in China.

Sales increased in the U.S., Europe, and other regions due to the conversion impact of the weak yen and the reflection of increased steel prices in selling prices. However, higher labor costs and delayed productivity improvements prevented achieving the targeted return to profitability.

Next, I would like to discuss net sales and operating profit by regional segment.

In Japan, despite a decrease in the HDD-related business and semiconductor process components business, an increase in automobile-related businesses, mainly automotive seating, led to an increase in both sales and profit.

In the Asia region, a decrease in profit was primarily due to the impact of the China business.

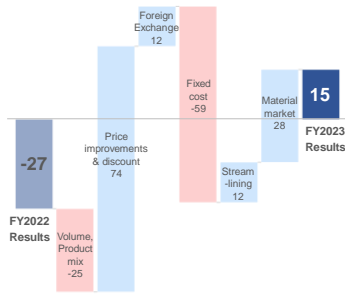
In the U.S. and Europe, although the deficit was reduced due to passing on materials and energy costs to customers, the impact of rising labor costs and delays in productivity improvements unfortunately prevented a return to profitability.

Automotive Suspension Spring

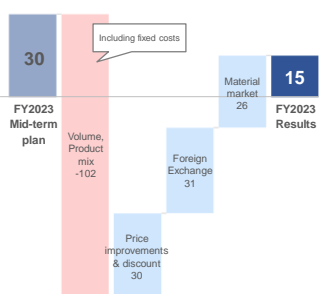
	FY2022 Results	FY2023		Vs. FY2022 Results	Vs. Mid-term plan Results
		Mid-term plan	Results		
Net Sales	1,468	1,210	1,711	243	501
Operating Profit	-27	30	15	43	-14
Ratio	-1.9%	2.5%	0.9%	2.8%	-1.6%

Variable Factor Analysis for Operating Profit

(Vs. Previous year)



(Vs. Mid-term plan)



Vs. FY2022

The impact of the semiconductor shortage was resolved, and sales increased for all operations, with the exception of China.

In the U.S. and Europe, fixed costs increased due to the surge in personnel costs resulting from the labor market crunch and decline in productivity due to the failure to secure personnel, but improved selling prices in the second half drove the turnaround to profitability.

Vs. Mid-term plan

Sales exceeded the mid-term plan by a large margin due to the impact of the weak yen and passing on of hikes in steel and other material costs to selling prices.

However, operating profit fell below the mid-term plan due to reduced quantities and increased fixed costs in the U.S. and Europe.

Next, let's look at the business segments in detail.

First, the automotive suspension springs business.

An increase in automobile production due to the resolution of semiconductor shortages and recovery of material market conditions and inflation impacts led to an increase in sales and profit in regions outside of China compared to the previous fiscal year.

In the U.S. and Europe, although fixed costs increased significantly, recovery of inflation impacts and improvements in sales prices in the second half of the fiscal year reduced the deficit, resulting in the overall automotive suspension springs business turning profitable.

Compared to the mid-term plan, there was a significant increase in sales due to the impact of yen depreciation on currency translation and the reflection of rising material market prices in sales prices, but the decrease in order volumes and the increase in fixed costs, particularly in the U.S. and Europe, led to profits falling short of the target.

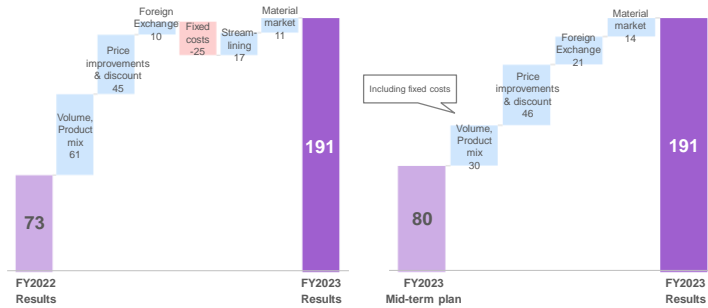
Automotive Seating

	FY2022 Results	FY2023		Vs. FY2022 Results	Vs. Mid-term plan Results
		Mid-term plan	Results		
Net Sales	2,737	2,400	3,241	503	841
Operating Profit	73	80	191	118	111
Ratio	2.7%	3.3%	5.9%	3.2%	2.6%

Variable Factor Analysis for Operating Profit

(Vs. Previous year)

(Vs. Mid-term plan)



Vs. FY2022

The impact of decreased production volume due to the semiconductor shortage has mostly been resolved, and volume recovered, especially at SUBARU, Toyota, and Nissan.

Due to factors such as the increase in the yen equivalent value of overseas subsidiaries due to the weaker yen, sales and profits increased significantly. Operating profit exceeded the level of FY2016, setting a new record.

Vs. Mid-term plan

Although the U.S. business fell short of the profit target, Japan and Thailand drove profitability.

Moreover, the weak yen also had an impact, leading to increased sales and profits.

Next is the automotive seating business.

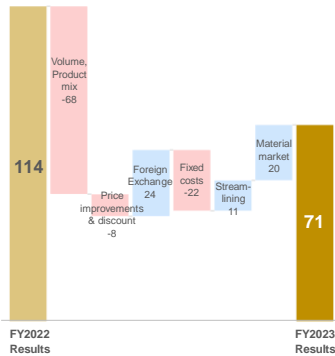
Both in comparison to the previous fiscal year and the mid-term plan, there was an increase in volume, with higher development fee income and improved sales prices leading to a significant increase in both sales and profit.

Precision Springs & Components

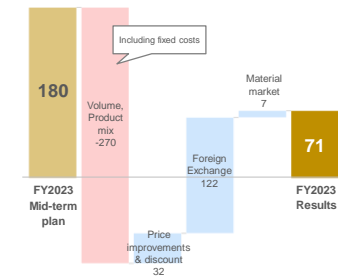
	FY2022 Results	FY2023		Vs. FY2022 Results	Vs. Mid-term plan Results
		Mid-term plan	Results		
Net Sales	1,594	1,790	1,617	22	-173
Operating Profit	114	180	71	-43	-109
Ratio	7.2%	10.1%	4.4%	-2.8%	-5.7%

Variable Factor Analysis for Operating Profit

(Vs. Previous year)



(Vs. Mid-term plan)



Vs. FY2022

Due to a recovery from production adjustments arising from the semiconductor shortage, the automobile-related industry was mostly on a recovery track.

In non-automobile-related industries, there was a significant decrease in sales and profits year-on-year due to a volume decrease in the HDD-related components, which had been performing well, with a high profit margin, until the first half of the previous year.

Vs. Mid-term plan

In the automobile-related field, the volume of engine and transmission springs was lower than the mid-term plan. In addition, sales of motor cores in Japan and China fell short of the plan, resulting in lower sales and profits than the original mid-term plan targets.

Although the weaker yen boosted profits for HDD-related components, the volume decline since the first half of the previous year had a significant impact, and profits in Japan, Thailand, and China, all fell short of the targets.

Next is the precision springs & components business.

In the automobile-related industry, there was a general recovery trend excluding China, but in non-automobile-related industries, the slowdown in the HDD-related business, which had been strong up until the first half of the previous year, led to an increase in sales but a decrease in profit compared to the previous fiscal year.

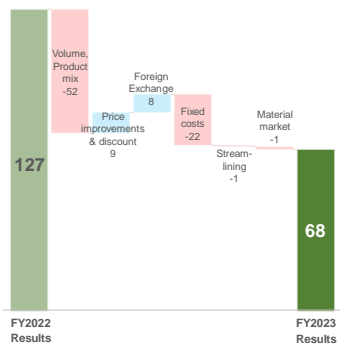
Compared to the mid-term plan, there was a significant decline in sales in both the automobile-related and non-automobile-related industries. While yen depreciation had a positive impact on profits, both sales and operating profit fell short of the mid-term targets.

Industrial Machinery & Others

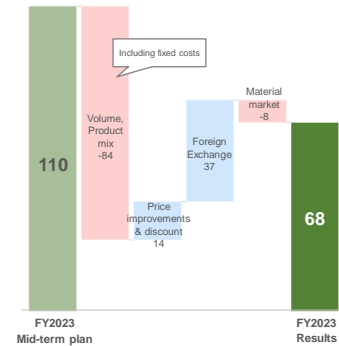
	FY2022 Results	FY2023		Vs. FY2022 Results	Vs. Mid-term plan Results
		Mid-term plan	Results		
Net Sales	1,131	1,100	1,099	-32	-1
Operating Profit	127	110	68	-59	-42
Ratio	11.3%	10.0%	6.2%	-5.1%	-3.8%

Variable Factor Analysis for Operating Profit

(Vs. Previous year)



(Vs. Mid-term plan)



Vs. FY2022

Due to the recovery in automobile production volume, sales in related businesses increased.

The weak yen also had an effect, but due to decreased volume for semiconductor process components and the leisure sector, sales and profits decreased year-on-year.

Vs. Mid-term plan

Sales increased, centering on the leisure sector (golf shafts, marine products, etc.) and car parking equipment. In addition, the weak yen had an effect, but the decrease in volume, mainly for semiconductor process components, had a significant impact, and sales and profits decreased against the mid-term plan targets.

Next is industrial machinery & other operations.

While there was a recovery in sales in the automobile-related industry, the significant decrease in volume in the semiconductor process components business and the leisure-related components business led to a decrease in both sales and profit compared to the previous fiscal year.

Similarly, compared to the mid-term plan, the significant decrease in volume in the semiconductor process components business resulted in operating profit falling short of the target.

Financial Forecast for the Year Ending March 2025

Next is the performance forecast for the fiscal year ending March 2025.

Forecast for the year ending March 2025

(100 million yen)

	FY2023 Results	Forecast for FY2024			Vs. FY2023	
		1st half	2nd half	Full-year	Results	Ratio
Net Sales	7,669	3,777	4,023	7,800	130	1.7%
Operating Profit	346	142	258	400	54	15.4%
Ratio	4.5%	3.8%	6.4%	5.1%	0.6%	-
Ordinary Profit	478	195	275	470	-8	-1.7%
Ratio	6.2%	5.2%	6.8%	6.0%	-0.2%	-
Profit Attributable to Owners of Parent	391	150	250	400	8	2.1%
Extraordinary profits/losses	90	-	85	85	-4	-5.3%
EPS - Earning Per Share (unit: yen)	173.27	-	-	180.62	7.35	-
ROE - Return On Equity	10.4%	-	-	9.7%	-0.7%	-
Average Rate	US\$	144.4	-	148.0	3.6	-
	Thai Baht	4.0	-	4.0	-0.0	-
Current Rate	US\$	This year	-	145.0	-6.4	-
		Previous year	-	151.4	-	-
	Thai Baht	This year	-	4.0	-0.1	-
		Previous year	-	4.1	-	-

16

As mentioned at the beginning, for the fiscal year ending March 2025, which is the first year of the new mid-term plan that the president will explain later, the plan is for net sales of 780 billion yen, operating profit of 40 billion yen, ordinary profit of 47 billion yen, and net income of 40 billion yen.

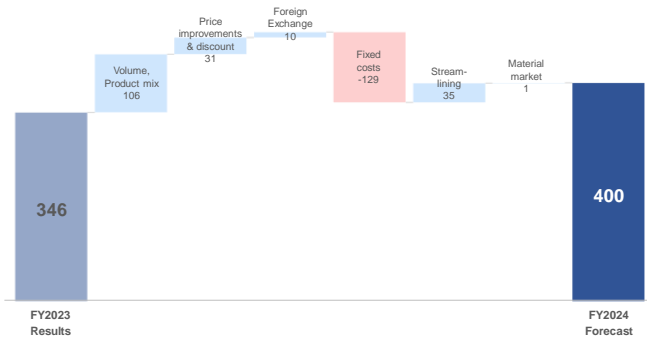
The exchange rates are as listed.

Variable Factor Analysis for Operating Profit

(100 million yen)

	FY2023 Results	Forecast for FY2024			Vs. FY2023 Results
		1st half	2nd half	Full-year	
Net Sales	7,669	3,777	4,023	7,800	130
Operating Profit	346	142	258	400	54
Ratio	4.5%	3.8%	6.4%	5.1%	0.6%

Variable Factor Analysis



Vs. FY2023

With the start of the new mid-term plan and the Group's management policy for FY2024, plans include increased investment in human capital, including wage increases, active future-oriented research and development, and increased expenses related to DX.

On the other hand, we expect to secure profit and loss exceeding the previous fiscal year for the consolidated Group as a whole due to recovery in volume for HDD-related and semiconductor process components and improved profitability for North American operations in the Automotive Suspension Springs business.

The factors influencing operating profit include investments in human capital such as base pay increases, increased costs for future-oriented R&D, and DX-related expenses, all contributing to an increase in fixed costs.

On the other hand, we expect a recovery in the HDD-related business and the semiconductor process components business, planning for an operating profit of 40 billion yen, exceeding the previous fiscal year.

Forecast for the year ending March 2025

Net Sales/Operating Profit by Business Segment



		(100 million yen)					
		FY2023 Results	Forecast for FY2024			Vs. FY2023	
			1st half	2nd half	Full-year	Results	Ratio
■ Automotive Suspension Spring	Net Sales	1,711	865	935	1,800	88	5.2%
	Operating Profit	15	4	38	42	26	162.6%
	Ratio	0.9%	0.5%	4.1%	2.3%	1.4%	-
■ Automotive Seating	Net Sales	3,241	1,516	1,584	3,100	-141	-4.4%
	Operating Profit	191	43	73	116	-75	-39.3%
	Ratio	5.9%	2.8%	4.6%	3.7%	-2.2%	-
■ Precision Springs & Components	Net Sales	945	483	507	990	44	4.8%
	Operating Profit	6	9	31	40	33	505.5%
	Ratio	0.7%	1.9%	6.1%	4.0%	3.3%	-
■ Disk Drive Suspension	Net Sales	671	359	381	740	68	10.1%
	Operating Profit	64	58	58	116	51	79.7%
	Ratio	9.6%	16.2%	15.2%	15.7%	6.1%	-
■ Industrial Machinery & Others	Net Sales	1,099	554	616	1,170	70	6.4%
	Operating Profit	68	28	58	86	17	26.2%
	Ratio	6.2%	5.1%	9.4%	7.4%	1.2%	-
Total	Net Sales	7,669	3,777	4,023	7,800	130	1.7%
	Operating Profit	346	142	258	400	54	15.4%
	Ratio	4.5%	3.8%	6.4%	5.1%	0.6%	-

Change in Segment Classification

Revising decision-making for resource allocation, performance management divisions, and reporting systems to management to better match actual business conditions, and changing the reporting segments starting from FY2024.

Previous: Precision Springs & Components

New: Classified into "Precision Springs & Components" and "DDS"

(DDS=Disk Drive Suspension)

Vs. FY2023

Automotive Suspension Springs are expected to see decreased profits in Japan and Mexico, but increased sales and profits due to improved selling price activities in U.S. operations.

Automotive Seating is expected to see decreased sales and profits due to reduced unit numbers from model changes, decreased development income, and increased research and development expenses.

Precision Springs & Components are expected to see increased sales and profits due to expanded sales of motor cores and quantity recovery in overseas operations.

DDS and Industrial Machinery & Others are expected to see increased sales and profits due to quantity recovery in HDD suspensions, semiconductor process components, and golf shafts.

Here is the forecast for net sales and operating profit by business segment. Starting this fiscal year, in line with the start of the new mid-term plan, we will change the business segment classifications, separating the precision springs & components business into the precision springs & components business and the DDS (Disc Drive Suspension) business.

This change aims to provide investors with a clearer understanding of each business' state.

Regarding the fiscal year ending March 2025 by business segment, we plan for increased sales and profit in all businesses except for the automotive seating business compared to the fiscal year ended March 2024.

Forecast for the year ending March 2025

Net Sales/Operating Profit Forecast by Region



		(100 million yen)					
		FY2023	Forecast for FY2024			Vs. FY2023	
		Results	1st half	2nd half	Full-year	Results	Ratio
● Japan	Net Sales	4,377	2,083	2,282	4,365	-12	-0.3%
	Operating Profit	299	68	166	234	-65	-21.8%
	Ratio	6.8%	3.3%	7.3%	5.4%	-1.5%	-
● Asia	Net Sales	1,869	960	1,023	1,983	113	6.1%
	Operating Profit	79	85	86	171	91	115.9%
	Ratio	4.2%	8.9%	8.4%	8.6%	4.4%	-
● America & Europe & Others	Net Sales	1,423	734	718	1,452	28	2.0%
	Operating Profit	-31	-11	6	-5	26	-
	Ratio	-2.2%	-1.5%	0.8%	-0.3%	1.9%	-
Total	Net Sales	7,669	3,777	4,023	7,800	130	1.7%
	Operating Profit	346	142	258	400	54	15.4%
	Ratio	4.5%	3.8%	6.4%	5.1%	0.6%	-

Vs. FY2023

● Japan

A profit boost due to the weak yen and volume recovery for HDD-related and semiconductor process components are anticipated, but since the profits of the Automotive Seating business, which represents a large part of the Group's business, will be less than last year, we expect sales and profits to decrease for Japan overall.

● Asia

We expect sales and profits to increase year-on-year due to increased volume of HDD-related components in Thailand and China and recovery of the automobile-related business in China.

● America & Europe & Others

We expect the extent of losses to shrink year-on-year due to sales price improvements and streamlining efforts. Since we expect to post one-time expenses due to new product launches at some Mexican operations, we expect a slight operating loss for the U.S. and Europe segment overall.

Regionally, Japan is expected to see a decrease in both sales and profit due to the impact of the automotive seating business.

In Asia, we expect increased sales and profit due to the sales growth of the HDD-related business in Thailand and China, as well as a slight recovery in the automobile-related business in China.

In the U.S. and Europe, while we expect to incur one-time costs associated with the launch of new products in Mexico, we plan to reduce the deficit through sales price improvements and factory streamlining.

Next, we will look at each business segment.

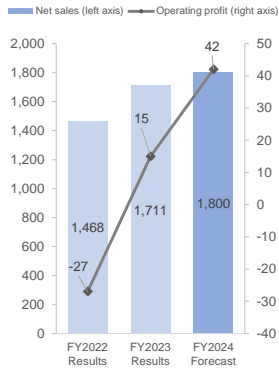
Automotive Suspension Spring

	FY2023 Results	Forecast for FY2024			Vs. FY2023 Results
		1st half	2nd half	Full-year	
Net Sales	1,711	865	935	1,800	88
Operating Profit	15	4	38	42	26
Ratio	0.9%	0.5%	4.1%	2.3%	1.4%

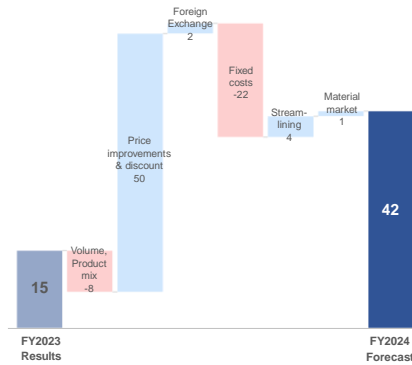
Vs. FY2023

Despite expected profit decreases in Japan due to differences in product mix and temporary costs associated with the new product launches in Mexico, increased sales and profits are expected due to improved selling prices in U.S. operations.

Results Comparison



Variable Factor Analysis for Operating Profit



In the automotive suspension springs business, as mentioned earlier, we expect one-time costs associated with the launch of new products in Mexico. Despite the profit impact of product mix differences in Japan, we plan for increased sales and profit in this segment due to reduced deficits in the U.S. and Europe and recovery in the China business.

Automotive Seating

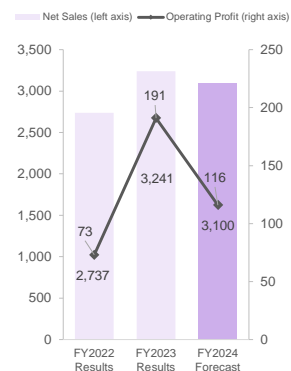
	FY2023 Results	Forecast for FY2024			Vs. FY2023 Results
		1st half	2nd half	Full-year	
Net Sales	3,241	1,516	1,584	3,100	-141
Operating Profit	191	43	73	116	-75
Ratio	5.9%	2.8%	4.6%	3.7%	-2.2%

(100 million yen)

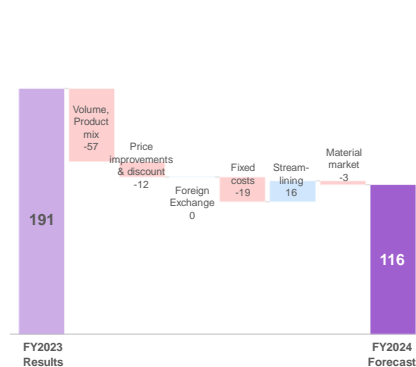
Vs. FY2023

We expect a slight year-on-year decrease in the Automotive Seating business sales volume due to factors such as the switching of ordered car models. In addition, we forecast that sales and profits will decrease due to the impact of factors such as a decrease in development income in Japan and increased expenditures on future-oriented research and development costs.

Results Comparison



Variable Factor Analysis for Operating Profit



In the automotive seating business, we expect a decrease in volume compared to the fiscal year ended March 2024 due to model changes in ordered vehicles. Additionally, the decrease in development fee income and the increase in R&D expenses for the future will impact the business, resulting in a forecast of decreased sales and profit.

Precision Springs & Components

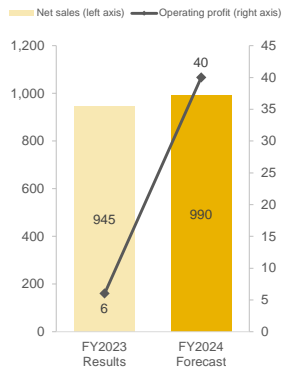
	FY2023 Results	Forecast for FY2024			Vs. FY2023 Results
		1st half	2nd half	Forecast	
Net Sales	945	483	507	990	44
Operating Profit	6	9	31	40	33
Ratio	0.7%	1.9%	6.1%	4.0%	3.3%

Vs. FY2023

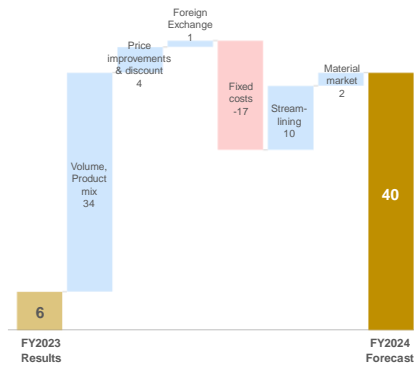
In Japan, we will secure increased sales and profits due to growth in motor core sales and increased volume for product lines with high profit margins.

In overseas operations as well, we forecast that operating profit will exceed the previous fiscal year since a recovery in volume is expected, especially in Thailand and China.

Results Comparison



Variable Factor Analysis for Operating Profit



For the precision springs & components business, starting from the fiscal year ending March 2025, the Disk Drive Suspension business is separated, and the figures for the fiscal year ended March 2024 on this page also exclude the Disk Drive Suspension business. We plan for increased sales and profit due to the expansion of motor core sales and an increase in the volume of high-margin products.

DDS (Disk Drive Suspension)

	FY2023 Results	Forecast for FY2024			Vs. FY2023 Results
		1st half	2nd half	Forecast	
Net Sales	671	359	381	740	68
Operating Profit	64	58	58	116	51
Ratio	9.6%	16.2%	15.2%	15.7%	6.1%

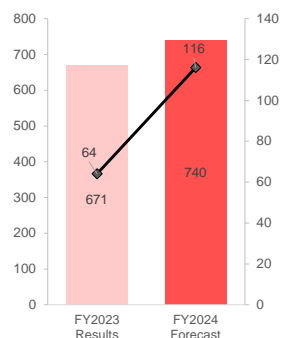
(100 million yen)

Vs. FY2023

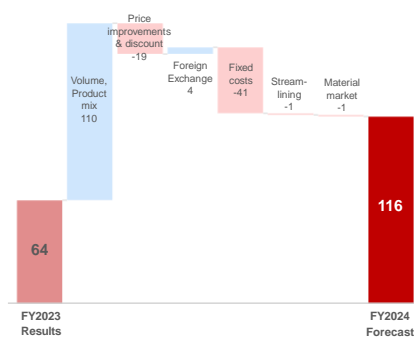
Demand for HDD suspensions is expected to be on a recovery track in Japan, Thailand, and China.
We forecast increased sales and profits due to the positive contribution of increased volume and the profit boost resulting from the weak yen.

Results Comparison

■ Net Sales (left axis) — Operating Profit (right axis)



Variable Factor Analysis for Operating Profit



The Disk Drive Suspension business, which started to recover from the third quarter of the fiscal year ended March 2023, is expected to continue its recovery, and we plan for increased sales and profit.

Industrial Machinery & Others

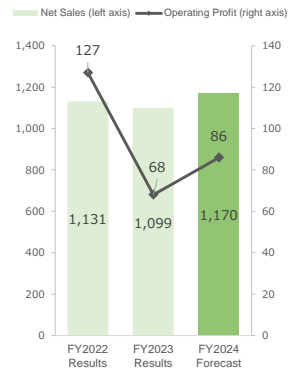
	FY2023 Results	Forecast for FY2024		Forecast	Vs. FY2023 Results
		1st half	2nd half		
Net Sales	1,099	554	616	1,170	70
Operating Profit	68	28	58	86	17
Ratio	6.2%	5.1%	9.4%	7.4%	1.2%

(100 million yen)

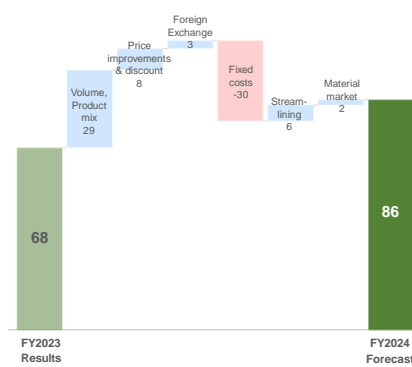
Vs. FY2023

Although there are upfront costs associated with increased production of integrated metal substrates, increased sales and profits compared to the previous year are expected due to quantity recovery mainly in semiconductor process components and golf shafts.

Results Comparison



Variable Factor Analysis for Operating Profit



In industrial machinery & other segments, we expect increased fixed costs, including advance expenses for future production increases in the metal substrate business. However, we plan for increased sales and profit due to the recovery in semiconductor process components and golf shafts.

This concludes the explanation of the financial results for the fiscal year ended March 2024 and the performance forecast for the fiscal year ending March 2025.

Review of the FY2023 Mid-term Plan and FY2026 Mid-term Plan

President & COO
Representative Member of the Board

Kazuhisa Uemura

Next, Uemura will explain the review of the 2023 mid-term plan and the 2026 mid-term plan.

Hereafter, the 2023 mid-term plan and the 2026 mid-term plan will be abbreviated as 23MT and 26MT, respectively.

Review of the FY2023 Mid-term Plan

First, I would like to provide a review of the 23MT.

Review of the FY2023 Mid-term Plan

◆ Steady progress has been made on the basic policies outlined in the FY2023 mid-term plan as follows.

Further promotion of CSR activities	Strengthen further relationship & mutual trust with stakeholders	Enhancing dialogue with shareholders and investors, improving disclosures, and ensuring fair transactions Revising personnel systems, improving the effectiveness of the internal reporting system, and participating in community activities
	Sincerely strive to environmental and social issues	Implementation of the Environmental Challenge Declaration
	Thoroughly implement quality-first manufacturing	Conducting quality audits (reduction in significant quality issues)
Accelerate response to drastically changing business environment	Strengthen actions to electrification and autonomous of automobiles	Steadily advancing the development of motor cores, high-performance Automotive Seating, integrated metal substrates, etc., and simultaneously preparing mass production systems
	Create next-generation core businesses	
Secure "profit" for sustainable growth	Develop attractive product	Developing new products and high value-added products (XT coil springs, biomass raw material sheet urethane, temper-less stabilizers, etc.)
	Total cost reduction	Advancing the establishment of production systems capable of responding to sudden plan changes and promoting streamlining

27

In the 23MT, we focused on three basic policies: "Further promotion of CSR activities," "Accelerate response to drastically changing business environment," and "Secure "profit" for sustainable growth."

Despite the highly volatile environment over the past three years, we made steady progress and, as Yoshimura explained earlier, largely achieved our plan.

Project Progress

Next, I would like to provide an update on the progress of the three projects launched last year.

Background and Project Measures

Automotive Suspension Springs	Achieving profitability	<p>Profitability Improvement Project</p> <p>Price improvement of Automotive Suspension Springs Negotiation of appropriate price for cost increase Productivity improvement</p>
Automotive Seating	Improving customer satisfaction	<p>SUBARU Project</p> <p>Establishment of a management system with QCDD Development of seats adapted to needs</p>
Motor Core	Further acceleration of electrification	<p>Motor Core Project</p> <p>Expand new sales by leveraging strengths Accelerate business by increasing competitiveness and differentiation</p>

The objectives and measures of each project are as shown.

Profitability Improvement Project (Automotive Suspension Springs)

First, I would like to provide an explanation of the automotive suspension spring Profitability Improvement Project.

Details of Measures

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

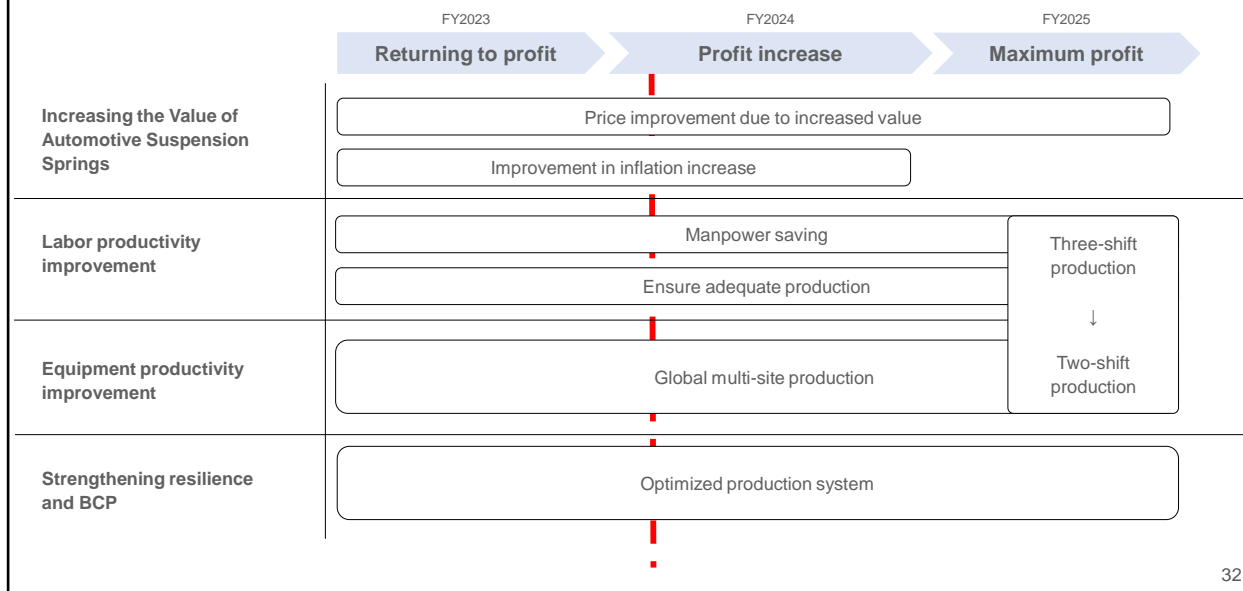
Aim for optimal production between sites based on global utilization rates

Strengthening resilience and BCP

Review of global supply structure for stable supply and production flexibility

The measures for maximizing automotive suspension spring profits are as shown.

Roadmap



The automotive suspension springs business finally turned profitable in the fiscal year ended March 2024. The main reasons were the recovery of cost increases due to inflation and improvements in sales prices.

However, in the U.S., the labor market remains tight, and productivity has not increased as planned due to rising labor costs and low employee retention rates. We are reviewing the optimal production system and gradually shifting part of the production from the U.S. to other countries.

We will continue to strengthen activities aimed at further value enhancement and increase profits for the fiscal year ending March 2025.

SUBARU Project (Automotive Seating)

Next is the automotive seating SUBARU Project.

Customer Evaluation

Q: Quality

Quality creation from the development and design stages

C: Cost

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

Customer Evaluation

Received the **“Production Supply Contribution Award”**

34

The main objective of the SUBARU Project is to enhance customer satisfaction.

As explained at the briefing six months ago, the newly launched model last year was developed with thorough project management to eliminate rework compared to the previous model, improving appearance quality and eliminating unnecessary costs.

Even after the launch, by maintaining close communication with customers, we ensured flexible production responses and reliable supply to customers, receiving high evaluations including the "Production Supply Contribution Award."

We will continue to promote these activities for the next model to further enhance customer satisfaction.

Motor Core Project (Precision Springs)

The third project is the Motor Core Project.

Details of Measures

Establishment of global production system

—Responding to increased orders—

- Start of operation of the new production building (Atsugi Plant)
- Start of construction of the new plant (Mexico)

Increased die fabrication capacity

- Increase and train more designers
- Expansion of machining facilities
- Add design and manufacturing base in Thailand
- Strengthening collaboration with Japanese suppliers

Development of new construction methods

- Considering mass production line for interlock-less lamination
- Establishing mass production for glue bonding core method
- Developing new interlock-less + methods
- Considering and proposing added value

Proactive response to prototypes

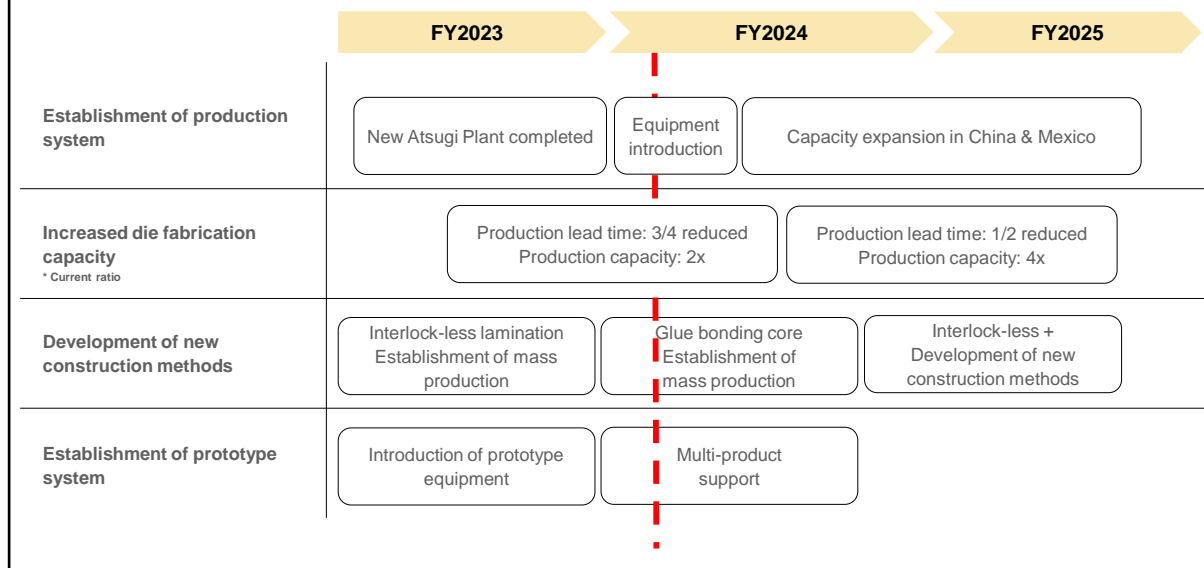
- Reinforcement of design system
- Reinforcement of prototype production system
- Introduction of dedicated large press machine for prototype production
- Integrated response from prototyping to mass production

The purpose of this project is to respond to the electrification of vehicles.

Although there is a temporary slowdown in battery EV demand, we expect it to expand steadily in the long term.

In this context, we are steadily strengthening production capacity and die fabrication capabilities, developing new production methods, and responding to new prototype requests.

Roadmap



37

Regarding the production system, a new production building was completed at the Atsugi Plant in Japan last fall. Currently, equipment is being installed, and mass production is scheduled to start in July next year.

Additionally, we have begun constructing a new plant in Mexico. Meanwhile, we are closely monitoring the trends of Japanese OEM manufacturers in China.

Other measures are progressing as planned.

FY2026 Mid-term Plan

Next, I would like to explain the 26MT.

2026中計

NHK Group Fundamental Policies for 2026 Mid term Plan

NHKニッパツ
S.P.A.I.N.
ニッパツウェイ
NHK GROUP WAY

グループ基本方針

～人を大切にし、社会へ貢献する～
～サステナビリティ活動のさらなる推進～
～ Respect for People & contribute to society ～
～ Further promotion of sustainability ～

人を大切にする
Respect for People

社会へ貢献する
Contributing to society

**ちゃんと買って
ちゃんと造って
ちゃんと売る**
Purchase appropriately,
manufacture accurately,
market and sell properly

©YOKOHAMA FC SEAGULLS

The basic policies of the 26MT have been created and communicated within the Group, as shown in this poster.

NHK Group Fundamental Policies for 2026 Mid term Plan

—Further promotion of sustainability— —Respect for People & contribute to society—	Respect for People	<ul style="list-style-type: none"> ■ Strengthening trust with stakeholders ■ Build a safe and secure company and a rewarding and comfortable workplace ■ Supporting the growth and development of a diverse employee base
	Contributing to society	<ul style="list-style-type: none"> ■ Providing indispensable key components ■ Speeding up actions towards global environmental changes ■ Contributing to the local community
	Purchase appropriately, manufacture accurately, market and sell properly	<ul style="list-style-type: none"> ■ "Quality First" & elevating the power of manufacturing ■ Promoting Digital Transformation (DX) & strengthening competitiveness ■ Promoting fair transactions and strengthening CSR in procurement

As the NHK Spring Group, we will respect all stakeholders, including employees, and contribute to society by promoting business and sustainability activities in an integrated manner. Additionally, we will return to the basics of business, working together as a team to “purchase appropriately, manufacture accurately, and market and sell properly.”

FY2026 Mid-term Plan Business Goals (Sales and Profit)

(100 million yen)

	FYE '24/3 (FY2023) Results	FYE '27/3 (FY2026) Plan	Results	Ratio
Net Sales	7,669	8,500	830	10.8%
Operating Profit	346	520	173	50.1%
Ratio	4.5%	6.1%	1.6%	
Ordinary Profit	478	570	91	19.2%
Ratio	6.2%	6.7%	0.5%	
Profit Attributable to Owners of Parent	391	430	38	9.7%

- ◆ Planning for increased sales of substrates for components for electric vehicles and motor cores in the automotive market.
- ◆ Anticipating a recovery in demand for HDD-related components and semiconductor process components in the information and communication market.
- ◆ Promoting automation and improving productivity to increase profit margins.

41

Next, I would like to explain the sales and profit forecast for the 26MT. As shown in the materials, for the fiscal year ending March 2027, we expect increased sales in both the automobile-related and information and communication-related markets, and plan to improve profit margins by promoting automation and improving productivity. In each business, we will steadily implement the measures set out in the mid-term plan and aim to achieve net sales of 850 billion yen and operating profit of 52 billion yen.

FY2026 Mid-term Plan Sales and Operating Profit Goals by Segment

(100 million yen)

		FYE '24/3 (FY2023) Results	FYE '27/3 (FY2026) Plan	Increase/ Decrease	Growth Rate	Operating Profit Factors for the differences
■ Automotive Suspension Spring	Net Sales	1,711	1,738	26	1.5%	<ul style="list-style-type: none"> Increased sales and profits through the establishment of a stable production and supply system across all global operations. Contributed to profit growth through the promotion of new technology and product development, and manufacturing reforms. Reconstructed two U.S. bases to achieve profitability.
	Operating Profit	15	52	36	225.1%	
	Ratio	0.9%	3.0%	2.1%		
■ Automotive Seating	Net Sales	3,241	3,071	-170	-5.3%	<ul style="list-style-type: none"> Despite decreased sales and profits, steady profit secured in existing businesses by strengthening responses to customer needs. Strengthening competitiveness to secure orders for successor models.
	Operating Profit	191	120	-71	-37.2%	
	Ratio	5.9%	3.9%	-2.0%		
■ Precision Springs & Components	Net Sales	945	1,050	104	11.1%	<ul style="list-style-type: none"> Increased sales and profits through the expansion of the motor core business and the development of new products. Additionally, contributed to profit growth by strengthening the profitability of existing businesses.
	Operating Profit	6	43	36	550.9%	
	Ratio	0.7%	4.1%	3.4%		
■ Disk Drive Suspension	Net Sales	671	1,171	499	74.3%	<ul style="list-style-type: none"> Increased sales and profits through streamlining, focusing on HDD suspensions and micro contactors, which are expected to recover in the market.
	Operating Profit	64	190	125	194.3%	
	Ratio	9.6%	16.2%	6.6%		
■ Industrial Machinery & Others	Net Sales	1,099	1,470	370	33.7%	<ul style="list-style-type: none"> Increased sales and profits through a focus on semiconductor process components and integrated metal substrates. Ending the chemical products business and transferring/consolidating equipment among Japanese bases.
	Operating Profit	68	115	46	68.8%	
	Ratio	6.2%	7.8%	1.6%		
Total	Net Sales	7,669	8,500	830	10.8%	
	Operating Profit	346	520	173	50.1%	
	Ratio	4.5%	6.1%	1.6%		

42

Sales revenue by product segment is as shown.

FY2026 Mid-term Plan: Regional Sales and Operating Profit Targets

(100 million yen)

		FYE '24/3 (FY2023) Results	FYE '27/3 (FY2026) Plan	Increase/ Decrease	Growth Rate	Operating Profit Factors for the differences
● Japan	Net Sales	4,377	5,053	675	15.4%	<ul style="list-style-type: none"> In the automobile-related industry, although reduced profits are expected in the Automotive Seating business, sales expansion of motor cores and in-vehicle integrated metal substrates, which are the next growth businesses, is anticipated. In non-automobile-related industries, operating profit is expected to increase due to the growth in quantities of HDD-related components, semiconductor process components, and leisure sector products.
	Operating Profit	299	340	40	13.7%	
	Ratio	6.8%	6.7%	-0.1%		
● Asia	Net Sales	1,869	2,098	228	12.2%	<ul style="list-style-type: none"> Particularly driven by the HDD-related component business in Thailand and China. Increased sales and profits are expected due to the recovery in quantities of HDD-related components from fiscal 2024 onwards and the growing demand for nearline HDDs.
	Operating Profit	79	168	88	112.1%	
	Ratio	4.2%	8.0%	3.8%		
● America & Europe & Others	Net Sales	1,423	1,349	-74	-5.2%	<ul style="list-style-type: none"> Continuously promoting productivity improvement and price negotiation efforts due to inflation. Optimizing the global production system to ensure stable production and maximize profits. Making the U.S. bases, which are a challenge, profitable.
	Operating Profit	-31	12	43	0.0%	
	Ratio	-2.2%	0.9%	3.1%		
Total	Net Sales	7,669	8,500	830	10.8%	
	Operating Profit	346	520	173	50.1%	
	Ratio	4.5%	6.1%	1.6%		

43

Sales revenue by regional segment is as shown.

FY2026 Mid-term Plan: New Management and Financial Indicators Targets

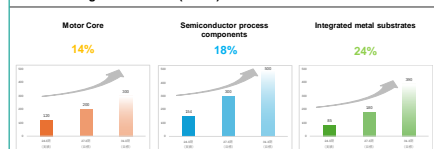


FY2023 Mid-term plan

		FY23 Mid-term plan (Targets)	FY2023 (Results)
Target for Net Sales and Income	Net Sales	650 billion yen	766.9 billion yen
	Operating Profit (Plans)	40 billion yen (6.2%)	34.6 billion yen (4.5%)
	Ordinary Profit (Ordinary margin)	42 billion yen (6.5%)	47.8 billion yen (6.2%)
	Net Income (Net margin)	25 billion yen (3.8%)	39.1 billion yen (5.1%)
Financial Indicators	Investment Efficiency	ROE	8.0% → 10.4%
	Shareholder Return	Dividend payout ratio	About 30% → 24.2%

(Note)1. Among the net sales and income targets, the ordinary margin is also set as a financial indicator target.

Annual Average Growth Rate (CAGR) of Sales - Period: FY2023 to FY2030



FY2026 Mid-term plan : Newly added management indicators

		FY2023 (Results)	FY26 Mid-term plan (Targets)	
Target for Net Sales and Income	Net Sales	766.9 billion yen	850 billion yen	
	Operating Profit (Plans)	34.6 billion yen (4.5%)	52 billion yen (6.1%)	
	Ordinary Profit (Ordinary margin)	47.8 billion yen (6.2%)	57 billion yen (6.7%)	
	Net Income (Net margin)	39.1 billion yen (5.1%)	43 billion yen (5.1%)	
Financial Indicators	Investment Efficiency	ROE	10.4% → Over 10%	
		ROIC	6.1% → Over 7%	
	Shareholder Return	Dividend payout ratio	24.2% → Over 30%	
	Annual Average Growth Rate (CAGR) of Sales (FY2023 to FY2030)	Motor Core	-	14%
		Semiconductor process components	-	18%
		Integrated metal substrates	-	24%
	Soundness	Stockholder's Equity to Total Assets Ratio ²	58.7%	Over 50%
	Policy-based shares	Net asset ratio	20.4%	Below 20%

(Note) 2. Stockholder's Equity to Total Assets Ratio is adopted as an indicator of soundness, and the target level will be continuously reviewed from the perspective of capital policy.

Next, I would like to explain the new management and financial performance targets set for the 26MT.

The left side shows the financial indicators and targets set in the 23MT, and the right side shows the financial indicators and targets set in the 26MT. We aim for an ROE of over 10%. The newly established ROIC (Return on Invested Capital) target is over 7%, up from the current 6.1%.

We have positioned the motor core, semiconductor process components, and metal substrate businesses as growth businesses, targeting an annual average growth rate of sales (CAGR) of 14%, 18%, and 24%, respectively, by the fiscal year ending March 2031.

In addition, to avoid the risk of excessive leverage with the introduction of ROIC, we have set a soundness indicator of a minimum ratio of stockholder's equity to total assets of 50%.

We will set goals from multiple perspectives of profitability, efficiency, soundness, and growth, and aim to comprehensively enhance them.

The significance of introducing the new indicators and their impact on employees are detailed in the Appendix, so please review it later.

FY2026 Mid-term Plan: Capital Costs and Cash Allocation

Prioritizing capital allocation for growth investments aimed at enhancing corporate value in the medium to long term.

Comparison of ROIC and WACC		
	FY2023 (Results)	FY26 Mid-term plan (Targets)
ROIC (Company-wide)	6.1%	7.0% or higher
WACC [†] (Company-wide)	6.3%	


Reference/ROIC by Business Segment [‡]	
*FY2023 actual results	
Automotive Suspension Springs	1.1%
Automotive Seating	20.2%
Precision Springs & Components	0.6%
Disk Drive Suspension	10.9%
Industrial Machinery & Others	6.2%

Cash In	Cash Out		
Operating CF 270 billion yen ³	Investment 250 billion yen	Investment in Human Capital 50 billion yen	Improvement of treatment and workplace environment to enhance employee engagement
		DX investment 20 billion yen	Investment in core systems and AI technology to promote operational reforms
CN investment 10 billion yen		Promoting CN activities through electrification of production equipment and purchase of renewable energy	
R&D investment 70 billion yen		Accelerating activities for new product development and market launch, and promoting value enhancement measures for existing products	
Business investment 100 billion yen		Strengthening "quality-first" manufacturing capabilities through continuous technological innovation	
Sale of policy-holding shares 15 billion yen New borrowings from financial institutions 25 billion yen	Shareholder returns 60 billion yen	Dividends 40 billion yen	Stable dividends considering consolidated performance and payout ratio
		Share buybacks 20 billion yen	Shareholder returns through share buybacks and cancellations, and achieving a capital structure that considers efficiency and safety

[†]1. When calculating WACC, the risk-free rate is the yield on newly issued 10-year government bonds, the equity risk premium is the two-year weekly equity risk premium since 1974, and β uses the company's historical beta for 60 months.
[‡]2. ROIC by business segment is calculated simply by aggregating non-current assets and inventories from the perspective of management efficiency.
³3. Operating CF of 270 billion yen is calculated by adding 100 billion yen of investment costs (30 billion yen in human capital investment, 40 billion yen in DX investment, and 66 billion yen in R&D investment) included in cash out to the original operating CF of 170 billion yen.

Next, I would like to provide an explanation of capital costs and cash allocation. Regarding capital costs, the current WACC (Weighted Average Cost of Capital) is 6.3%. As mentioned earlier, the current ROIC (Return on Invested Capital) is 6.1%. In the 26MT, we aim for a ROIC of 7%, exceeding the WACC. The ROIC by business segment for the fiscal year ended March 2024 is listed in the bottom left of the table for your reference. Next is cash allocation. The total amount of cash inflows and outflows is estimated to be 310 billion yen. The breakdown is as shown. In addition to growth investments and R&D investments, we aim to enhance long-term corporate value by actively engaging in human capital investment, DX investment, and carbon neutrality investment. For shareholder returns, we plan to allocate 60 billion yen over three years. Of this, the total dividend amount is 40 billion yen, with a target dividend payout ratio of over 30%. We aim to strengthen proactive shareholder returns.

Efforts to Address Global Environmental Issues

Theme	Mid-term Plan Goals (FY2026 Goals)
Reduction of CO ₂ emissions	<ul style="list-style-type: none"> CO₂ emissions: 103,000 tons-CO₂ ^{*1} (33% reduction compared to FY2013) <p>Energy saving, electrification/conversion to electric vehicles, technological innovation, introduction of renewable energy, and purchase of renewable energy</p>  <p>Plan to reduce 75,000 tons-CO₂ against the trend CO₂ emissions of 178,000 tons-CO₂ due to production increase</p>
Reduction of industrial waste volume	<ul style="list-style-type: none"> Industrial waste volume: 33 tons ^{*2} (73% reduction compared to FY2013)

*1 Target: Company and Japanese Group companies, SCOPE1+SCOPE2

*2 Target: Company and Japanese Group companies, non-recyclable materials

46

I will now introduce initiatives for addressing global environmental issues. In 2021, we declared the "NHK Spring Group Environmental Challenges," aiming to achieve carbon neutrality and zero industrial waste by 2039. As an interim goal, we have set targets for the 26MT.

By the final year of the 26MT, fiscal 2026, we aim to reduce CO₂ emissions to 103,000 tons, a 33% reduction from fiscal 2013, and reduce non-resource industrial waste to 33 tons, a 73% reduction from fiscal 2013.

Efforts Towards Human Capital Management

Theme	Measures
Rewarding Workplace	<ul style="list-style-type: none">• Introduction of recruitment methods to secure personnel with multifaceted thinking• Abolition of seniority elements and review of treatment• Renewing the education system aimed at eliminating individual dependency
Comfortable Workplace	<ul style="list-style-type: none">• Increasing disposable time through operational efficiency using systems• Preparing working conditions to maximize employee performance
Safe and Secure Company	<ul style="list-style-type: none">• Reducing heavy labor and strengthening health consultation services• Eradicating harassment to maintain employee morale

We will also strengthen our efforts on HR-related measures focusing on human capital management.

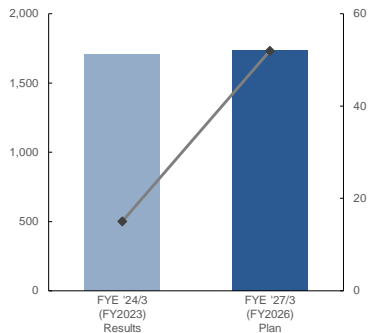
Under themes such as building a safe and secure company and a rewarding and comfortable workplace, we will focus on building an organization and system where highly motivated, ideal personnel can thrive.

FY2026 Mid-term Plan
(By Business Segment)

Next, I will provide an explanation of plans by business segment.

Issues and Initiatives of Each Business (Automotive Suspension Springs)

- ◆ Establishing a stable production and supply system across all global operations
 - ⇒ “Profitability Improvement Project” will be managed as part of the FY26 Mid-term Plan measures going forward



Issues and Initiatives in the FY26 Mid-term Plan

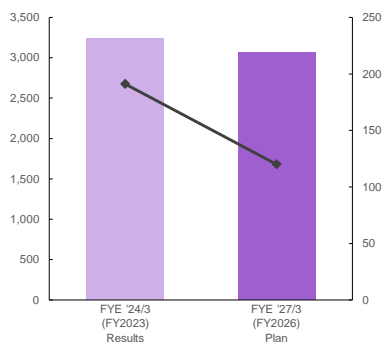
- ◆ Efforts towards achieving profitability at two North American bases
 - Promoting selling price improvements, productivity improvements, and optimal order strategies
- ◆ New technology and product development and market launch to improve competitiveness
 - Enhancing the added value of “springs”
- ◆ Improving productivity through promoting manufacturing reforms
- ◆ Strengthening the global production technology support system

First, the automotive suspension springs business.

We plan to establish a stable production and supply system at all global bases. Particularly, we will focus on achieving profitability at the two North American bases, which remain our greatest challenge.

Issues and Initiatives of Each Business (Automotive Seating)

- ◆ Ensuring steady profits in existing businesses by developing products that meet customer needs, and strengthening competitiveness to secure orders for successor models.



Issues and Initiatives in the FY26 Mid-term Plan

- ◆ Focusing on developing seats that respond to electrification, autonomous driving, and environmental issues
 - Promoting differentiation through comfort and fundamental technology development
 - Expanding sales through the development of value-added devices
 - Securing core technology patents
- ⇒ "SUBARU Project" will be managed as part of the FY26 Mid-term Plan measures going forward
- ◆ Eliminating heavy labor through the use of robots and automation



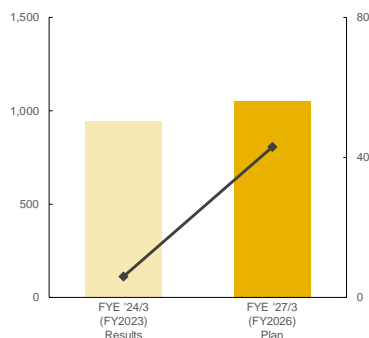
Next, the automotive seating business.

For the fiscal year ending March 2027, we expect a slight decrease in both sales and profit compared to the fiscal year ended March 2024.

We will develop products that meet customer needs, secure revenue in existing businesses, and strengthen competitiveness to win orders for next-generation models.

Issues and Initiatives of Each Business (Precision Springs & Components)

- ◆ Expanding the motor core business and developing new products in anticipation of accelerated electrification



Issues and Initiatives in the FY26 Mid-term Plan

- ◆ Expanding the motor core business
 - Enhancing the global production system and prototype development environment
 - ⇒ "Motor Core Project" will be managed as part of the FY26 Mid-term Plan measures going forward
- ◆ Efforts towards electrification components
 - Expanding sales of new products such as control devices and connection components
- ◆ Strengthening the profitability of existing businesses



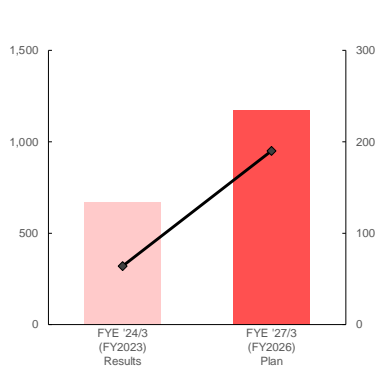
Next, the precision springs & components business.

This business will expand the motor core business and promote new product development in anticipation of accelerated vehicle electrification.

From this fiscal year, the business segment classifications have changed. Part of the traditional precision springs & components business has been separated into the Disk Drive Suspension business, which I will explain. The figures for the fiscal year ended March 2024 in the materials are from after the Disk Drive Suspension business was separated.

Issues and Initiatives of Each Business (Disk Drive Suspension)

- ◆ Focusing on HDD suspensions and micro contactors, which are expected to recover in the market, pursuing streamlining while maintaining a high-profit structure



Issues and Initiatives in the FY26 Mid-term Plan

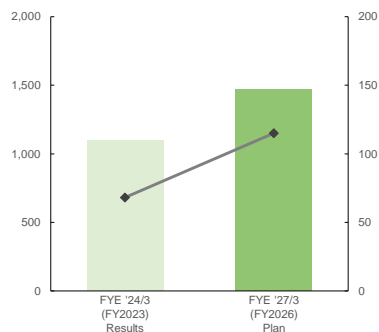
- ◆ Promoting smart factory implementation
 - Minimizing labor hours through the deployment of material handling AGVs
 - Stabilizing quality and deploying AOI through DX promotion
- ◆ Increasing market recognition and establishing a business foundation through sales expansion
- ◆ Exploring new products leveraging Disk Drive Suspension core technology

Next is the Disk Drive Suspension business.

Disk Drive Suspension stands for Disc Drive Suspension. This business primarily produces HDD (Hard Disc Drive) suspensions and micro contactors, and it has high profitability. We expect significant increases in both sales and profit towards the fiscal year ending March 2027.

Issues and Initiatives of Each Business (Industrial Equipment and Others)

- ◆ Focusing on semiconductor process components and integrated metal substrates, and reorganizing other businesses



Issues and Initiatives in the FY26 Mid-term Plan

- ◆ Strengthening the system in line with the business expansion of semiconductor process components
 - Increasing production capacity by expanding the Miyata Plant
- ◆ Establishing a mass production system for integrated metal substrates
 - Building a mass production system at the Komagane Plant
 - Preparing for production at the new production building in Malaysia
- ◆ Ending the chemical products business and transferring/consolidating equipment among Japanese bases

Next is industrial machinery & other operations.

This business primarily produces semiconductor process components and integrated metal substrates. We are currently preparing to increase production capacity for both, expecting substantial growth in the future. Therefore, we anticipate significant increases in both sales and profit for this business as a whole towards the fiscal year ending March 2027.

2026中計

NHK Group Fundamental Policies for 2026 Mid term Plan

NHKニッパツ

S.P.A.I.N.
ニッパツウェイ
NHK GROUP WAY

人を大切にする
Respect for People

グループ基本方針

～人を大切にし、社会へ貢献する～
～サステナビリティ活動のさらなる推進～
～ Respect for People & contribute to society ～
～ Further promotion of sustainability ～

社会へ貢献する
Contributing to society

**ちゃんと買って
ちゃんと造って
ちゃんと売る**

Purchase appropriately,
manufacture accurately,
market and sell properly

横浜未来
横浜共立
メイトリアルグループ

ニッパツ
27

©YOKOHAMA FC SEAGULLS

Finally, please review the Group's basic policies for the 26MT again.
Our company aims to maximize corporate value with the mottoes
"Respect for People & contribute to society" and "Further promotion of
sustainability" as part of the mid-term plan.
That concludes this presentation. Thank you for your attention.

Supplementary Materials

Review of the FY2023 Mid-term Plan

**Comparison of equipment investment and depreciation costs:
Mid-term plan vs. actual results**

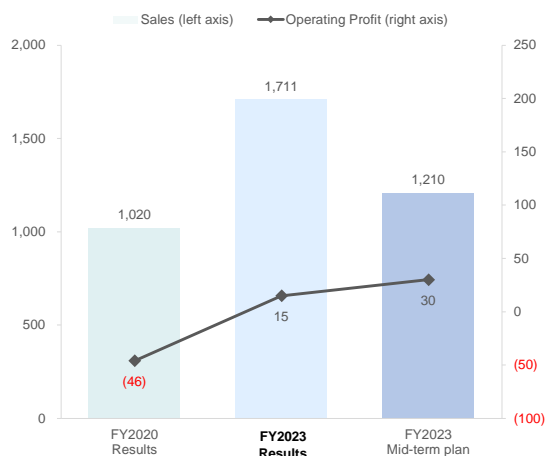
(100 million yen)

		FY2023 Mid-term plan	FY2023 Results
Capital Investments	Japan	536	567
	Overseas	343	314
	Total	880	882
Depreciation & Amortization	Japan	535	460
	Overseas	349	395
	Total	885	855

Progress Status of Each Business (Automotive Suspension Springs)

- Despite the impact of semiconductor shortages and soaring steel prices, the balance improved over three years.
- In North American operations, fixed costs increased due to rising labor rates and worsening employment conditions, but selling price improvement negotiations helped secure an operating profit for the spring business as a whole.

Results Comparison (100 million yen)



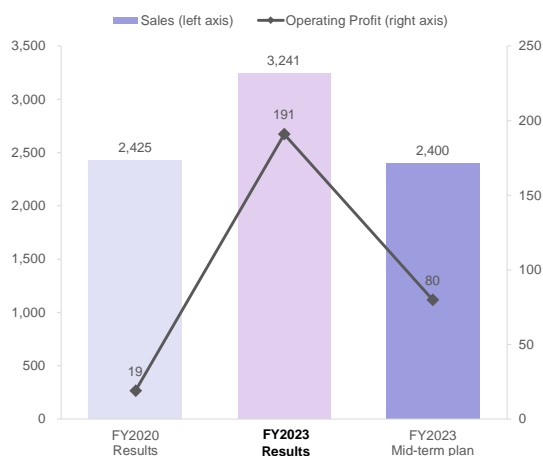
Issues and Initiatives of the FY23 Mid-term Plan

- ◆ **Creating new technologies and new products**
Developed XT coil springs, which are 34% lighter than conventional products that withstand the same load, through new taper molding
- ◆ **Deficit operations in U.S. change to profitable, and profitability improvement in European operation**
The situation remains challenging due to rising labor costs and delays in productivity improvement. Continuously promoting profit improvement.
- ◆ **Building up optimize production structure**
Completed transfer of the leaf spring assembly process to an affiliated company
Considering changes in the number of production shifts and reviewing the global supply system for coil springs and stabilizers
- ◆ **Thorough manufacturing cost reduction**
Continuing efforts to reduce fixed costs and promote streamlining.

Progress Status of Each Business (Automotive Seating)

- Despite the impact of semiconductor shortages, sales and operating profit significantly exceeded the mid-term plan due to the subsequent recovery in unit numbers.

Results Comparison (100 million yen)



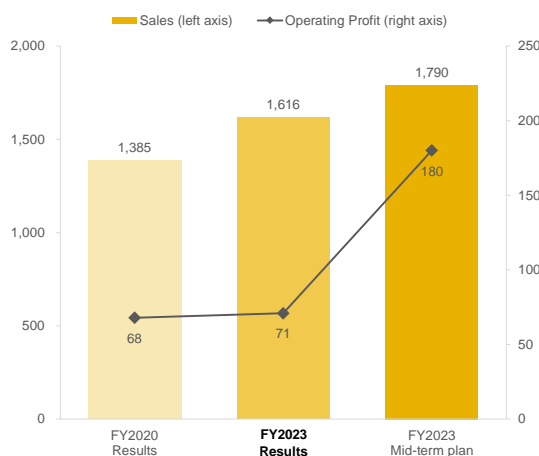
Issues and Initiatives of the FY23 Mid-term Plan

- ◆ **Steady reaction to Model change**
Smooth response as planned
- ◆ **Improve profitability in North America new plant**
Completed transfer to the new plant
Improved profitability through logistics improvements, etc.
- ◆ **Reduce development cost and lead time, by improving analyze technologies**
Continuing activities aiming to halve the static strength test
- ◆ **Steady reaction to required quality level from customers**
Promoting further level-ups through review of development procedures and introduction of AI visual inspection
- ◆ **Developing new seat required in Auto-driving era**
Promoting the development of unique items required for autonomous driving

Progress Status of Each Business (Precision Components)

- In the automotive-related business, motor cores in Japan and China and springs for engines and transmissions were underperforming.
- In the information and communication-related business, the decline in HDD demand since the second half of 2022 had a significant impact.

Results Comparison (100 million yen)



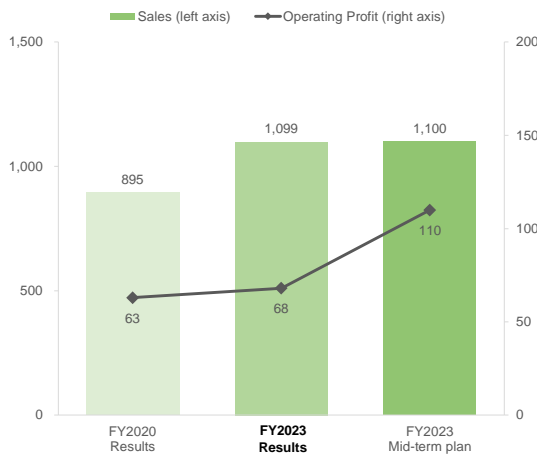
Issues and Initiatives of the FY23 Mid-term Plan

- ◆ **Steady reaction to EV tend acceleration**
 - Strengthening motor core production capacity in Mexico
 - Expanding thin plate springs for HEVs and EVs
- ◆ **Adequate reactions to nearline HDD demand increase, and increasing sales share**
 - Further productivity improvement anticipating the recovery of HDD demand
- ◆ **Cost reductions by Productivity improvement and applying AI**
 - Promoting data processing and analysis using AI

Progress Status of Each Business (Industrial Machinery & Others)

- Although there was growth in the automotive and leisure-related businesses, the significant impact of the decline in demand for semiconductor manufacturing equipment since the second half of 2022 prevented the achievement of the mid-term plan goals in the final year.

Results Comparison (100 million yen)



Issues and Initiatives of the FY23 Mid-term Plan

- ◆ **Semi-conductor manufacturing machine parts**
The prolonged slump in the memory market is expected to delay a full-scale demand recovery until FY2025 or later.
- ◆ **Integrated Metallic Substrate**
Increasing production capacity in Japan (Komagane Plant) and Malaysia
- ◆ **Pipe support & Security device**
Promoting profit improvement through selection and concentration
- ◆ **Accelerate development speed, and expand sales by new products.**
Developing showerhead products and next-generation thermal spray products

FY2026 Mid-term Plan Assumptions

Automobile production volume

(Thousands of units)

		FY2023 Results	FY2026 Mid-term plan
Global	Japanese	25,400	28,100
	Other	63,200	70,400
	Total	88,500	98,500
Japan	Japanese	8,500	9,500
North America	Japanese	4,300	4,500
	Other	8,000	8,400
	Total	12,300	12,900
China	Japanese	3,900	3,500
	Other	26,000	28,200
	Total	29,900	31,700
Thailand	Japanese	1,600	1,500
	Other	300	500
	Total	1,900	2,000

- The impact of the COVID-19 pandemic and semiconductor shortages was almost resolved in 2023.
- Particularly in developed countries, the global economic growth rate is expected to slow down, with gradual growth anticipated from 2024 onwards.

HDD Production Volume, Total Demand for Suspensions

	CY2023 Results	CY2026 Mid-term plan
HDD (Millions of units)	122	118
Suspension (Millions of units)	1,017	1,585

- Amid investment cuts due to economic uncertainty, focusing on AI investment and optimizing data center operations reduced HDD demand.
- Meanwhile, the global data volume continues to grow, and nearline HDD demand remains strong.
- The number of disks used per nearline HDD is increasing, and the number of suspensions is also expected to increase.

Semiconductor Manufacturing Equipment Market

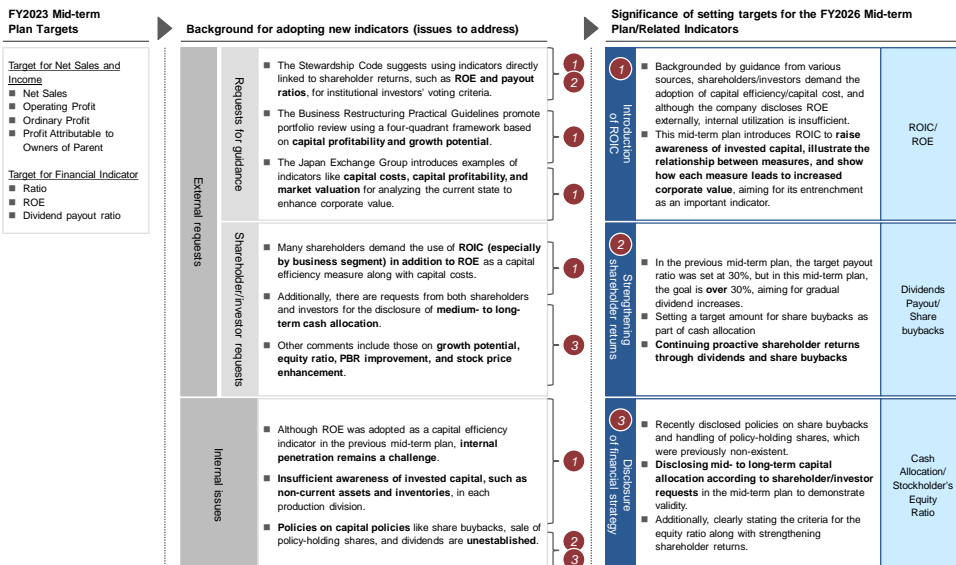
(Billions of dollars)

	FY2023 Results	FY2026 Mid-term plan
Front-end	99	125
Back-end	9	13
After-service	24	37
Total	132	175

- Semiconductor Market
Accelerated investment in AI generation that uses a large amount of CPU and memory, and increased demand due to the electrification of automobiles.
- Equipment Market
Expected full recovery from 2025 onwards, with 2023 to 2024 being the bottom.
Factory construction plans are ongoing in various countries, with market expansion anticipated.

Responses to achieve management
conscious of capital costs
and stock prices

Significance of setting new management indicators



Impact on employees and direction of measures from the introduction of new management indicators

Direction of measures

Establishment of management/operational system

- Setting up a conference body to discuss frequency, improvement measures, etc., with the management department upon introduction
 - Considering reflection in organizational structure/personnel evaluations as necessary

Explanation for executives of production divisions and permeation

- Setting up briefing and study sessions for executives of each production division to explain basic concepts and the significance of introducing ROIC to ensure penetration

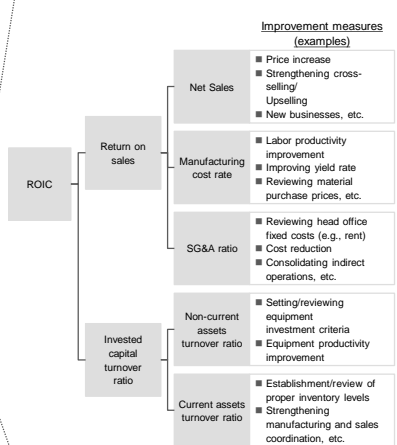
Collaboration/linkage with on-site improvement activities

- Dissecting the ROIC tree with each production division and reconfirming the position of ongoing improvement activities
- Considering additional measures if key drivers, etc., require further improvement

Review for the next mid-term plan

- Reviewing calculation methods, target levels, and disclosure ranges based on the FY2026 mid-term plan for the FY2030 mid-term plan
 - Setting target values by business segment, etc.

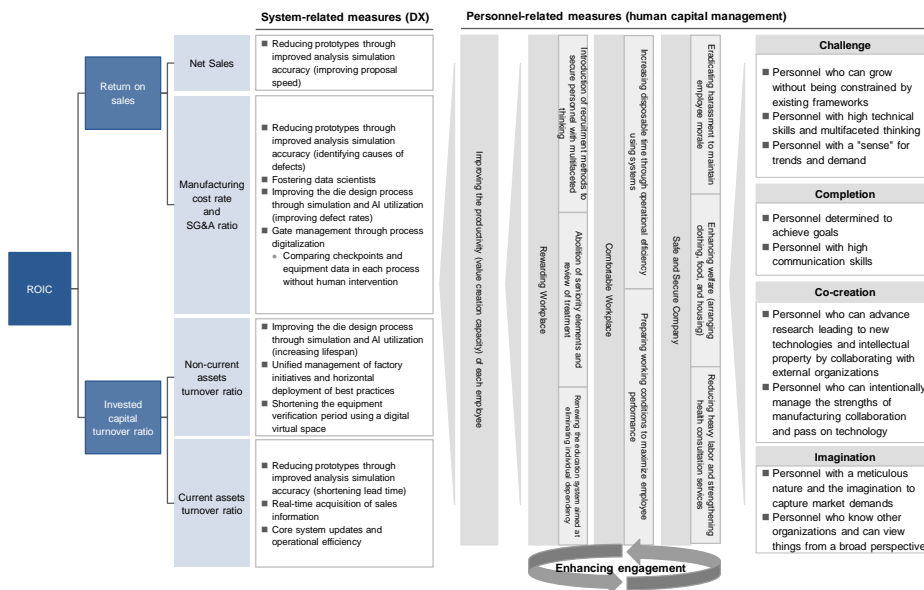
ROIC decomposition tree



• Using the tree, it is possible to drill down to the daily KPIs each employee follows and their improvement measures

• Additionally, clarifying how employees' daily activities contribute to company-wide KPIs

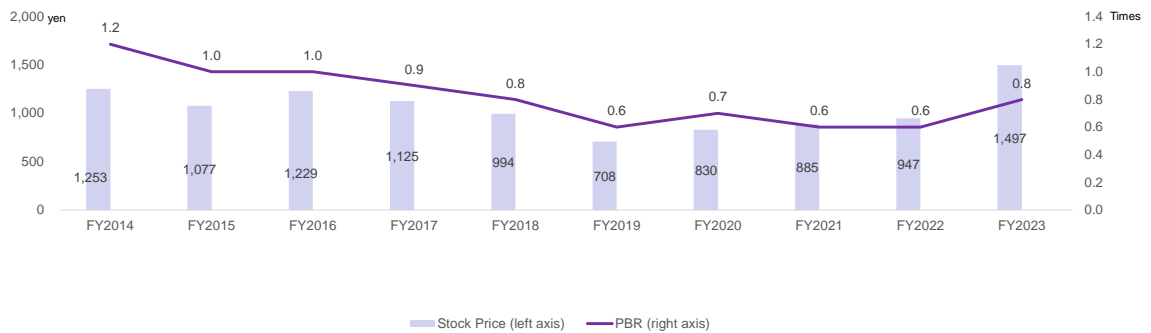
Relationship with system-related measures (DX) and personnel-related measures (human capital management)



Responses to achieve management conscious of capital costs and stock prices

Current analysis

- PBR has been around 0.6 times in recent years, but currently, it is around 1.0 times.
- Understanding that this is due to the evaluation of past business activities and shareholder return measures.
- **Analyzing that expectations from the capital market are rising for the enhancement of shareholder returns, growth strategies, and cash allocation disclosure in the FY2026 mid-term plan.**



Dialogue status with shareholders and investors

- Established a dedicated IR/SR department to strengthen dialogue with shareholders and investors
- Renewed the website and expanded disclosure information

Establishment of a dedicated department

- Established the Corporate Communications Department in April 2022 to strengthen dialogue with shareholders and investors and expand disclosure information.

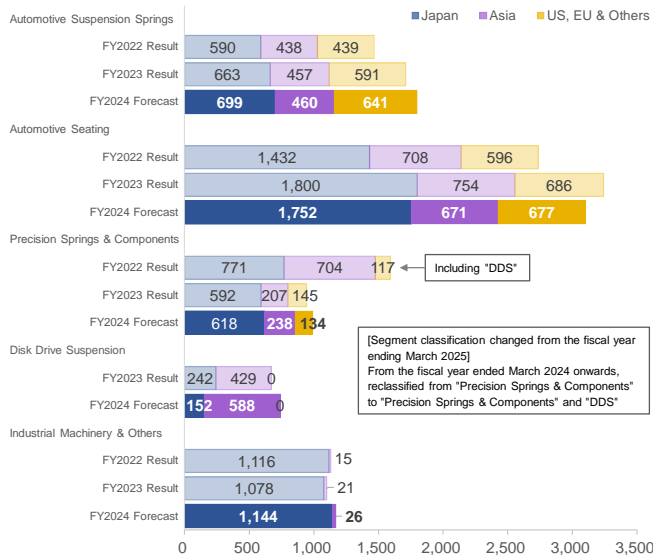
Strengthening dialogue with management

- Conducting financial results briefings, small meetings, and factory tours with the participation of the president

Main themes and points of interest in dialogues	Feedback implementation status
<ul style="list-style-type: none"> ● Company's advantages and sales expansion status in growth businesses ● Responses to the electrification of vehicles ● Financial strategy, cash allocation ● Efforts to strengthen corporate governance 	<ul style="list-style-type: none"> ● Summarizing the above opinions, questions, analyst reports, stock price trends, etc., feedback is provided to the executive meeting

Other

Details of Net Sales (full-year)



(100 million yen)

		Japan	Asia	US, EU & Others	Total
Automotive Suspension Springs	FY2022 Result	590	438	439	1,468
	FY2023 Result	663	457	591	1,711
	FY2024 Forecast	699	460	641	1,800
Automotive Seating	FY2022 Result	1,432	708	596	2,737
	FY2023 Result	1,800	754	686	3,241
	FY2024 Forecast	1,752	671	677	3,100
Precision Springs & Components	FY2022 Result	771	704	117	1,594
	FY2023 Result	592	207	145	945
	FY2024 Forecast	618	238	134	990
Disk Drive Suspension	FY2023 Result	242	429	-	671
	FY2024 Forecast	152	588	-	740
Industrial Machinery & Others	FY2022 Result	1,116	15	-	1,131
	FY2023 Result	1,078	21	-	1,099
	FY2024 Forecast	1,144	26	-	1,170
Total	FY2022 Result	3,910	1,867	1,153	6,932
	FY2023 Result	4,377	1,869	1,423	7,669
	FY2024 Forecast	4,365	1,983	1,452	7,800

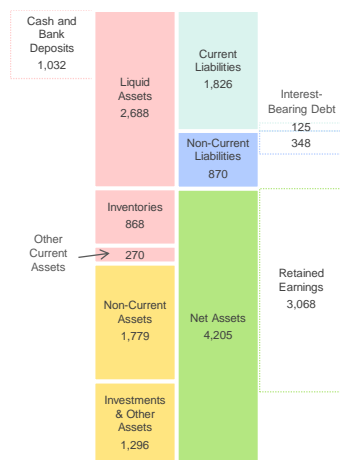
(100 million yen)

	FY2019 Results	FY2020 Results	FY2021 Results	FY2022 Results	FY2023 Results	Increase/ Decrease
Total Assets	5,326	5,607	5,880	6,060	6,902	842
Stockholder's Equity	2,709	2,839	3,226	3,492	4,050	558
Stockholder's Equity to Total Assets Ratio	50.9%	50.6%	54.9%	57.6%	58.7%	1.1%
Cash and Bank Deposits	745	793	921	729	1,032	303
Interest-Bearing Debt	581	697	505	500	474	-26
Net Cash	164	95	416	229	558	329

Balance Sheet Status

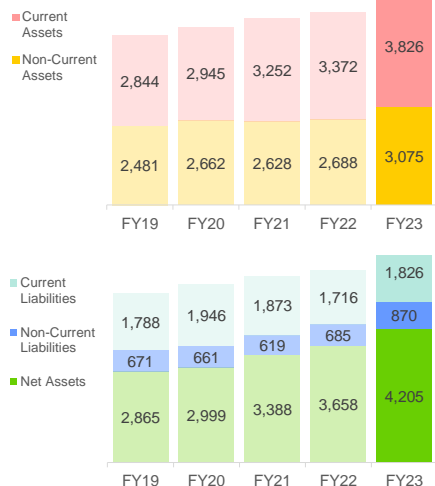
Balance Sheet as of 3/2024

(100 million yen)



Balance Sheet Trends

(100 million yen)



▼ Assets

In addition to the continued impact of the weak yen, cash and deposits increased due to the sale of investment securities and investment securities and retirement benefit assets increased due to an increase in fair value.

▼ Liabilities

Income taxes payable increased due to the sale of investment securities, and deferred tax liabilities increased due to a rise in the fair value of investment securities.

▼ Net Assets

The valuation difference on available-for-sale securities, foreign currency translation adjustment, and remeasurements of defined plans, net of tax, increased. In addition, retained earnings increased due to profit attributable to owners of the parent.

Capital Investment/Depreciation & Amortization by Business Segment

(100 million yen)

		FY2022 Results	FY2023 Results	FY2024 Forecast
Capital Investments	Automotive Suspension Springs	45	58	88
	Automotive Seating	46	49	61
	Precision Springs & Components	121	107	84
	Disk Drive Suspension		45	74
	Industrial Machinery & Others	58	82	163
	Company-wide sharing	9	27	42
	Total	280	370	512
	Vs. Previous year	20.7%	31.8%	38.4%
Depreciation & Amortization	Automotive Suspension Springs	66	63	66
	Automotive Seating	55	56	48
	Precision Springs & Components	113	47	53
	Disk Drive Suspension		63	68
	Industrial Machinery & Others	35	35	45
	Company-wide sharing	17	19	27
	Total	288	286	307
	Vs. Previous year	2.0%	-0.7%	7.1%

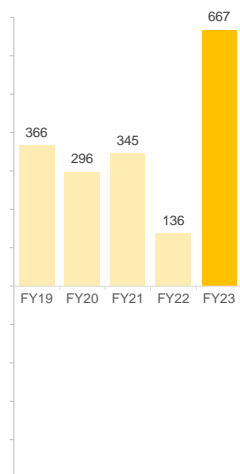
Capital Investment/Depreciation & Amortization by Region

(100 million yen)

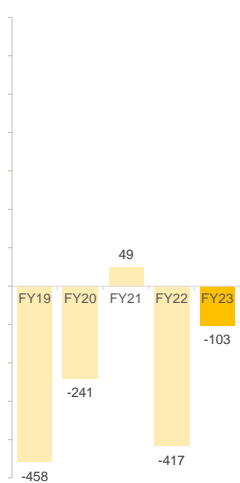
		FY2022 Results	FY2023 Results	FY2024 Forecast
Capital Investments	Japan	178	259	280
	Asia	61	75	172
	US, EU & Others	40	34	60
	Overseas total	102	110	232
	Total	280	370	512
Depreciation & Amortization	Japan	149	146	178
	Asia	86	92	88
	US, EU & Others	52	47	41
	Overseas total	139	139	129
	Total	288	286	307

Cash Flow Status

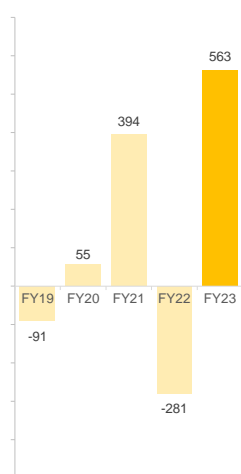
Operating CF



Investment CF

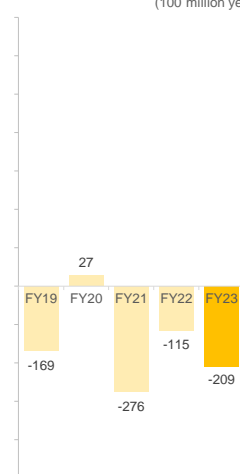


Free CF



Financial CF

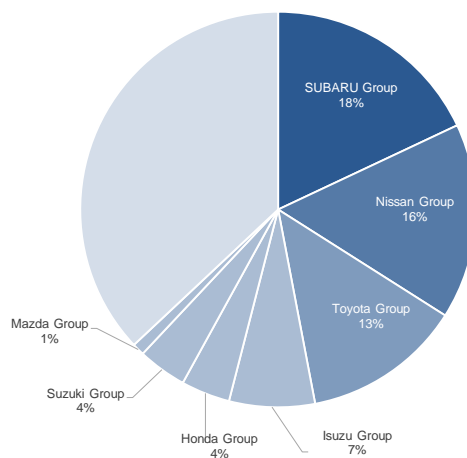
(100 million yen)



Sales Breakdown to Each of the Major Car Makers

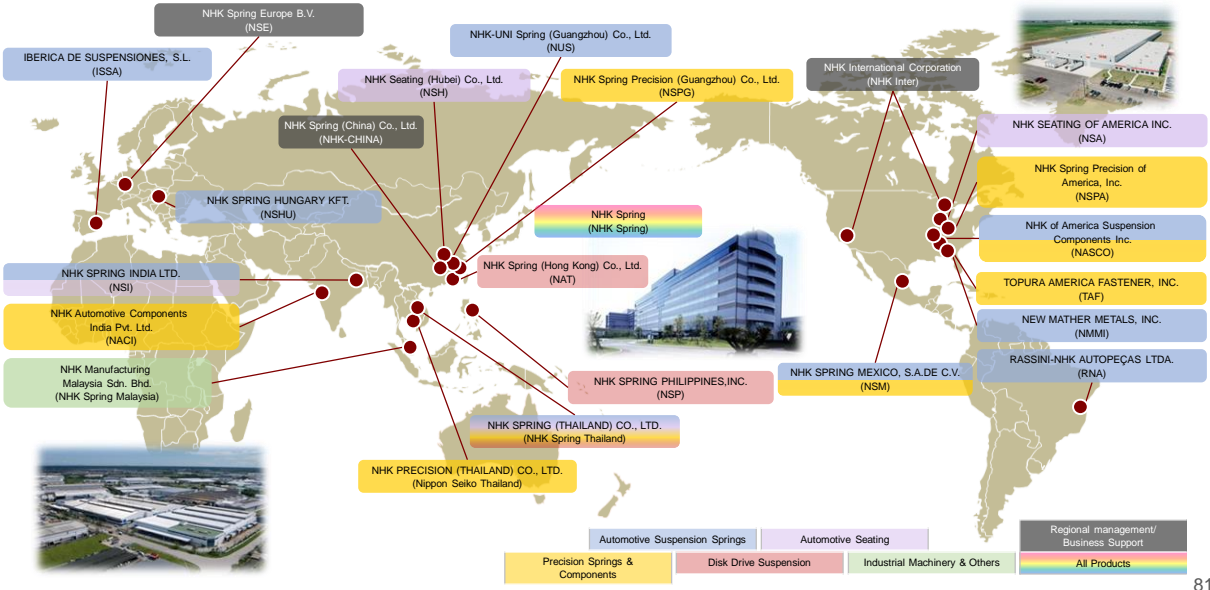
Major car makers	FY2022	FY2023
SUBARU Group	16%	18%
Nissan Group	15%	16%
Toyota Group	14%	13%
Isuzu Group	7%	7%
Honda Group	4%	4%
Suzuki Group	4%	4%
Mazda Group	1%	1%
Top 3 Companies	45%	

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

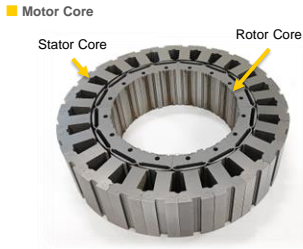


		FY2022					FY2023					FY2024
		1Q	2Q	3Q	4Q	Full-year	1Q	2Q	3Q	4Q	Full-year	Full-year
Precision Springs & Components	Motor Core	18	21	17	20	78	28	28	28	33	119	130
Industrial Machinery & Others	Semiconductor process components	60	70	64	38	235	31	40	39	41	154	171
	Integrated metal substrates	16	17	22	18	74	21	21	22	19	84	98
	Leisure Sector (Golf Shafts, Marine Products, etc.)	42	45	43	42	173	40	40	34	33	148	155

Major Overseas Operations



Motor Core



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 to 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 200 mm and height of around 150 mm, 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 essential for motor core production are designed, manufactured, and maintained entirely in-house, enabling the production of the same quality motor cores in our global operations in Mexico and China as well as our Atsugi Plant in Japan.

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.

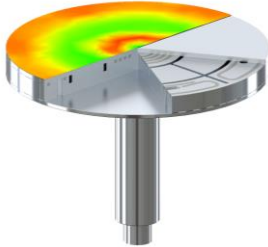
If you compare it to a human part, DSAs use up to the wrist, and CLAs use up to the fingertips; It has become an indispensable product for ultra-large capacity HDDs, by improving positioning accuracy and speed, with speedy & fine movements.

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"

■ 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. NHK's semiconductor process components are used in the key processes of "film formation" and "etching" in semiconductor manufacturing.

NHK's stage heaters are widely used in film formation processes such as CVD and ALD*. Mainly made of aluminum alloy and stainless steel, advanced joining techniques developed over many years allow for the realization of complex internal structures.

*CVD stands for Chemical Vapor Deposition

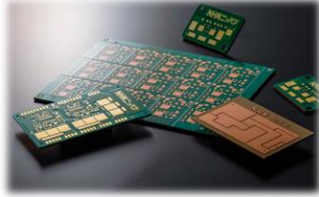
*ALD stands for Atomic Layer Deposition

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.

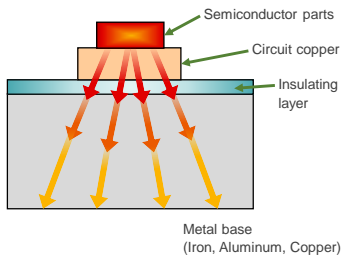
Regarding to etching equipment, we are manufacturing important stage parts called cooling plates, on which silicon wafers are loaded during process. Most of them are made from aluminum alloy; NHK have the strength of integrated production—from material procurement to precision processing and ceramic 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.

IMS (Integrated Metal Substrate)



■ Cross-sectional structure of IMS



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 characterized by our strength in integrated production, from the development of high heat-dissipating 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ニッパツ

- The predictions and plans by NHK Spring Co., Ltd. listed in this document are forecasts related to future results and performance, and contain risks and uncertainties. Please note that the actual results may differ from the forecasts due to fluctuations in important variables, such as economic conditions, market trends, foreign exchange trends, and so forth.
- The data listed in this document is included for the purpose of providing information, it is not designed to encourage investment.
- The copyright for this document belongs to NHK Spring Co., LTD.
- The unauthorized reproduction or reprinting of this document is prohibited.