

Ferrotec Holdings Corporation

Results for the Fiscal Year Ended March 31, 2024

Fri., May 31, 2024

- 1. This fiscal year results cover period from January to December 31, 2024 of consolidated subsidiaries.
- 2. This presentation was prepared for the purpose of providing information regarding the company's results of operations for the fiscal year ended March 31, 2024 and is not a solicitation to purchase securities issued by the company. Please ensure that the decision on whether to make an investment in our company is made at your own risk.
- 3. These materials were prepared based on information available as of date of the disclosure. All opinions, forecasts and other forward-looking statements are based on management's iudgments in accordance with materials available at that time and may be changed without prior notice.

Consolidated Financial Summary



(Million yen)	FY3/23	FY3/24	Yc	γY	Net sales: Up 5.5% YoY
	Amount	Amount	Amount	Pct. change (%)	Gross profit: Down 3.1% YoY •The sales of power semiconductor substrates and sensors
Net sales	210,810	222,430	11,620	5.5	increased, but the sales of materials, such as ceramics and Si parts, decreased.
Cost of sales	138,728	152,573	13,844	10.0	•Gross profit declined, due to the augmentation of costs, including depreciation, in the wake of the construction of new
Gross profit	72,081	69,856	-2,224	-3.1	factories and the capital investment.
SG&A expenses	37,038	44,984	7,945	21.5	SG&A expenses: Up 21.5% YoY. Augmentation of labor
Operating income	35,042	24,872	-10,170	-29.0	costs and test research expenses in addition to the increase of a new company in Malaysia, new businesses, etc.
Non-operating income	9,872	8,002	-1,870	-18.9	Non-operating income: Down 1.87 billion yen YoY (exchange gain: down 4.11 billion yen, income from subsidies: up 860 million yen)
Non-operating expenses	2,466	6,337	3,870	156.9	Non-operating expenses: Up 3.87 billion yen YoY (loss on equity method affiliates regarding wafers, SiC wafers, etc.: up
Ordinary income	42,448	26,537	-15,911	-37.5	3.13 billion yen)
Extraordinary income	856	754	-101	-11.9	
Extraordinary loss	1,263	1,145	-117	-9.3	Extraordinary income of 750 million yen: Gain from changes
Net income attributable to non-controlling shareholders	4,585	5,481	895	19.5	in equity of 710 million yen (in-kind contribution to SiC wafers) Extraordinary loss of 1.15 billion yen: Loss on valuation of investment securities of 520 million yen and impairment loss
Net income attributable to owners of parent	29,702	15,154	-14,548	-49.0	of 420 million yen Non-controlling interests: 5.48 billion yen
Capital investment*	62,660	78,599	15,938	-	 Silicon parts and quartz crucibles business: 2.16 billion yen Power semiconductor business: 2.99 billion yen Cleaning business: 890 million yen
Depreciation	12,618	16,398	3,779	30.0	Vafer business: -530 million yen
Exchange rate (average during the period)	US\$: 132.08 yen RMB: 19.50 yen	US\$: 141.20 yen RMB: 19.87 yen	-	-	

*Investment amount = Total amount of tangible fixed assets, intangible fixed assets and securities to be acquired, etc.

Sales and Operating Income by Segment



Net sales	FY3/23		FY3/24		Yc	γ
(¥ in millions)	Amount	Pct. of sales (%)	Amount	Pct. of sales (%)	Difference	Pct. change (%)
Semiconductor and other equipment-related	132,194	62.7	130,072	58.5	-2,122	-1.6
Electronic device	53,024	25.2	67,600	30.4	14,575	27.5
Others	25,590	12.1	24,757	11.1	-832	-3.3
Total	210,810	100.0	222,430	100.0	11,620	5.5
					YoY	
Operating income	FY3/23		FY3/24		Yc	Y
Operating income (¥ in millions)	FY3/23 Amount	Profit margin (%)	FY3/24 Amount	Profit margin (%)	Yc Difference	Pct. change (%)
		Profit				
(¥ in millions) Semiconductor and other	Amount	Profit margin (%) 18.2	Amount	margin (%)	Difference	Pct. change (%)
(¥ in millions) Semiconductor and other equipment-related	Amount 24,090	Profit margin (%) 18.2	Amount 16,260	margin (%) 12.5	Difference -7,830	Pct. change (%) -32.5
(¥ in millions) Semiconductor and other equipment-related Electronic device	Amount 24,090 11,178	Profit margin (%) 18.2 21.1	Amount 16,260 10,890	margin (%) 12.5	Difference -7,830 -288	Pct. change (%) -32.5

Segment Information: Semiconductor and Other Equipment-related For o Tec

Transition of sales

Silicon parts

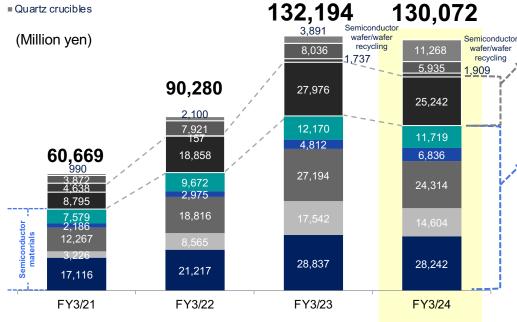
Vacuum feedthroughs and metal processing

CVD-SiC

EB-Gun

Quartz

- Ceramics
- Equipment parts cleaning
- Wafer processing and recycling
- Quartz crucibles



Overview of this segment

The sales of ceramics, silicon parts, vacuum feedthroughs, metal processing, etc. decreased YoY, while the sales of guartz crucibles and CVD-SiC increased, but the sales of this segment declined by 2.1 billion ven.

Vacuum feedthroughs and metal processing, Wafer processing and recycling

The sales of vacuum feedthroughs and metal processing decreased by 1.2 billion yen YoY due to the slowdown of manufacturing of semiconductor equipment, but a recovery trend was observed in the second half of the fiscal year (sales increased 22% between the first and second halves.)

Semiconductor materials. Cleaning business

[Semiconductor materials (quartz, silicon parts, ceramics, and CVD-SiC)]

 Quartz: The sales of machined products for existing semiconductor equipment makers were sluggish. Despite the efforts to strengthen products processed with fire, sales declined by 600 million yen from the previous fiscal year, and profit margin, too, decreased.

 Silicon parts: Sales decreased by 2.9 billion ven as demand shrank due to the downturn of production of semiconductors and semiconductor equipment.

. Ceramics: Sales decreased by 2.9 billion yen as demand shrank due to the downturn of production of semiconductors and semiconductor equipment.

. CVD-SiC: Demand and supply were stable. Sales increased by 2.0 billion yen due to the increase in production output of Okayama Factory.

[Cleaning Business]

 Due to the downturn in production of semiconductors, sales declined by 500 million ven in the fiscal year, but increased 16% between the first and second halves.

[Quartz crucibles]

· Sales of large-sized quartz crucibles for photovoltaic power generation increased by 7.4 billion yen. The performance slowed down in Q4 due to rapid fluctuations in demand.



Transition of sales

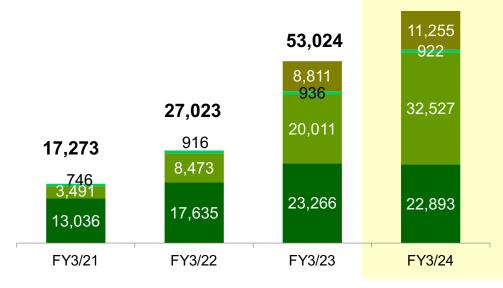
- Thermo-electric module
- Ferrofluid, others

Sensor

Power semiconductor substrates

67,600

(Million yen)



Overview of this segment

• In the segment of electronic devices, the sales expansion of power semiconductor substrates increased, and the inclusion of Ohizumi Mfg., which specializes in sensors, produced some effects, so sales increased by 14.6 billion yen YoY.

[Thermo-electric modules]

• The sales of thermo-electric modules for medical examination equipment reached a peak, and the sales of products for telecommunication devices subsided. Accordingly, the sales of thermo-electric modules dropped by 200 million yen.

[Power semiconductor substrates]

• As the demand for DCB and AMB substrates was healthy and the production capacity of Dongtai Factory, etc. increased, sales grew 12.3 billion yen. However, in Q4, sales declined due to the adjustment of order placement, etc.

[Sensors]

• Increased by 2.4 billion yen; Sales increased due to the consolidation of Ohizumi Mfg. (Q2 FY3/23).

Consolidated Balance Sheet -Assets-



(Million yen)	FY3/23 Year-end	FY3/24 Year-end	Difference	[M
Current assets	215,341	248,408	33,066	the
Cash & deposits	103,115	117,254	14,139	ye ∙⊤
Note & accounts receivable	53,276	61,940	8,663	sa
Inventories	49,177	56,909	7,731	
Fixed assets	195,306	261,618	66,312	[M
Tangible fixed assets	139,610	201,339	61,729	
Buildings and structures	38,080	66,583	28,503	•T ex
Equipment and machinery	44,171	59,533	15,361	(M
Tools, furniture, and fixture	5,984	7,468	1,484	4.5 Sid
Land	4,451	4,660	209	Yiı FT
Leased assets (net)	11,009	12,018	1,009	
Construction in progress	35,913	51,075	15,161	ГМ
Intangible fixed assets	6,949	6,611	-338	
Goodwill	2,304	2,010	-294	∙In inc
Investments & other assets	48,745	53,666	4,921	
Total assets	410,648	510,026	99,378	

[Major factors for increase in current assets]

•Cash and deposits: Up 14.1 billion yen (up 12.4 billion yen due to the new sensor manufacturing company in Lishui, up 10.4 billion yen due to the new company in Malaysia, etc.) •Trade receivables and inventories increased due to an increase in sales.

[Major factors for increase in tangible fixed assets and Intangible assets]

•Tangible fixed assets increased by 61.7 billion yen due to capital expenditures in Malaysia.

(Malaysia FTMM: up 16.6 billion yen, Changshan silicon parts: up 4.5 billion yen, Changshan ceramics, etc.: up 6.1 billion yen, Sichuan power semiconductor substrates: up 7.8 billion yen, Yinchuan FTNC quartz crucibles, etc.: up 7.1 billion yen, Japan FTMT/FTHD: 5.9 billion yen, etc.)

[Major factors for increase in investments and other assets]

Investment securities, differed tax assets and other assets nereased by 4.9 billion yen.

Consolidated Balance Sheet -Liabilities and Net Assets-

(Million yen)	FY3/23 Year-end	FY3/24 Year-end	Difference
Current assets	111,294	122,148	10,854
Notes and accounts payable	40,524	38,334	-2,189
Short-term debt	20,378	26,454	6,076
Current portion of long-term borrowings + bonds	15,825	21,022	5,197
Fixed assets	49,697	109,712	60,014
Bonds	4,083	320	-3,763
Convertible bond-type bonds with share acquisition rights	-	25,000	25,000
Long-term debt	26,432	62,364	35,931
Total liabilities	160,991	231,860	70,869
Net assets	249,656	278,166	28,509
Shareholder's equity	166,955	177,638	10,682
Total accumulated other comprehensive income	16,773	26,771	9,997
Non-controlling interests	65,887	73,756	7,869
Total liabilities & net assets	410,648	510,026	99,378
Equity ratio	44.7%	40.1%	-4.6pt
Exchange rate (year-end rate)	US\$: 132.70 yen RMB: 19.01 yen	US\$: 141.83 yen RMB: 19.93 yen	-

[Major factors for changes in current and fixed liabilities] Figures in parentheses compare with the end of FY3/23.

Short-term debt + Current portion of long-term borrowings + bonds: 47.5 billion yen (+11.3 billion yen)

Long-term debt + Bonds and convertible bond-type bonds with share acquisition rights: 87.7 billion yen (+57.2 billion yen)

Total interest-bearing debt: 135.2 billion yen (+68.4 billion yen)

[Major factors for changes in net assets]

- Shareholder's equity: Up 10.7 billion yen (retained earnings: up 10.2 billion yen)
- Total accumulated other comprehensive income: Up 10 billion yen (Foreign currency translation adjustment: up 8.8 billion yen)

Non-controlling interests: Up 6.0 billion yen

(Power semiconductor substrates: up 4.1 billion yen, silicon parts and quartz crucibles: up 2.9 billion yen, cleaning: up 1.4 billion yen)

[Equity ratio]

Equity ratio: 40.1%

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Consolidated Cash Flow



(Million yen)	FY3/23	FY3/24	
Cash flow from operating activities	43,024	28,720	[Operating cash flow]
Income before income tax	42,041	26,146	
Depreciation	12,618	16,398	Depreciation : 16.4 billion yen YoY: Up 3.8 billion yen
Foreign exchange loss (-: gain)	-1,402	-798	
Changes in notes & accounts receivable (-: increase)	-3,139	-4,919	Changes in notes and accounts receivable, inventories, and accounts payable-trade: -14.6 billion yen
Changes in inventories (-: increase)	-14,354	-5,177	and accounts payable-trade 14.0 billion yen
Changes in notes and accounts payable-trade (-: decrease)	6,516	-4,472	
Loss on (-: gain) changes in equity	-651	-710	
Others	1,395	2,252	[Investing cash flow]
Cash flow from investing activities	-68,760	-92,400	
Payments for purchase of tangible fixed assets	-56,001	-74,489	
Proceeds from sales of tangible fixed assets	236	259	Purchase of tangible fixed assets: -74.5 billion yen
Payments for purchase of intangible fixed assets	-976	-737	
Payments for purchase of investment securities	-4,607	-2,098	Others: -15.3 billion yen
Others	-7,412	-15,335	Increase/decrease in time deposits: -14.1 billion yen
Cash flow from financing activities	68,718	60,419	
Changes in short-term debt	11,687	5,314	[Financial cash flow]
Proceeds from long-term borrowings	24,256	57,734	
Payments of long-term borrowings	-8,311	-16,860	Proceeds from share issuance to non-controlling shareholders: 5.2 billion
Proceeds from issuance of convertible bond-type bonds with share acquisition rights	-	24,898	yen Sensor company in Lishui: 5.0 billion yen
Proceeds from share issuance to non-controlling shareholders	47,607	5,183	Others: -15.9 billion yen
Others	-6,521	-15,850	Redemption of corporate bonds: -4.7 billion yen
Changes in cash and cash equivalents	43,326	901	Payment of dividends: -4.9 billion yen
Cash and cash equivalents, beginning of year	52,579	95,905	Acquisition of shares of a subsidiary (Ohizumi Mfg. Co., Ltd.): -5.9 billion yen
Cash and cash equivalents, end of year	95,905	96,806	Copyright © Ferrotec Holdings Corporation. All Rights Reserved.



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FY3/25 Full-year Business Forecasts

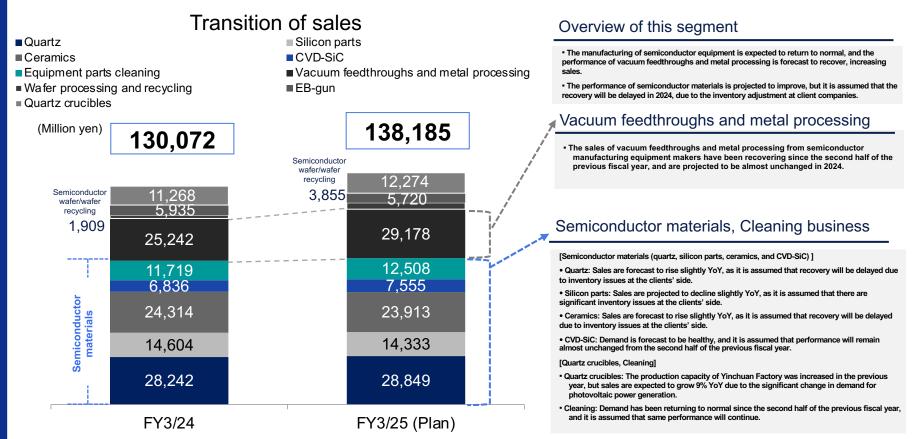




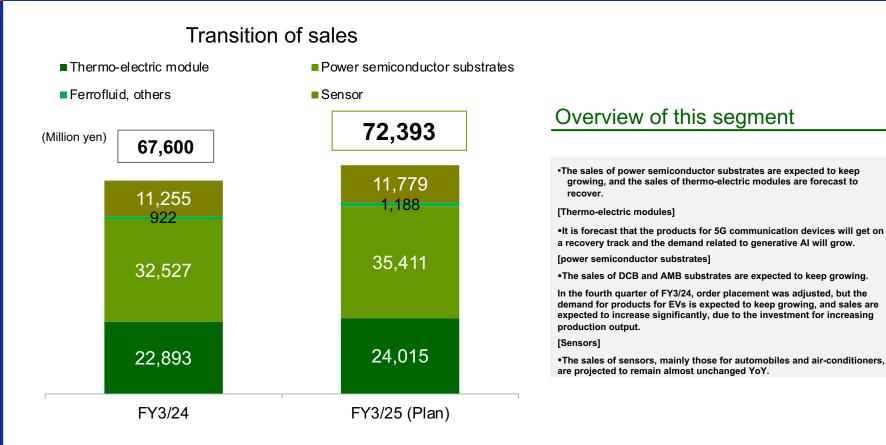
(Million yen)	FY3/24	FY3/25 (Plan)	YoY (%)	Details and assumptions of the plan
Net sales	222,430	235,000	5.7	The sales from manufacturing of semiconductor equipment, vacuum feedthroughs, and metal processing are expected to recover.
Operating income	24,872	26,000	4.5	 As for materials, recovery is projected to be delayed due to inventory issues. Depreciation is forecast to augment due to the construction of new factories, etc.
Ordinary income	26,537	26,000	-2.0	 There will be no longer exchange gain, which was 1.4 billion yen in the previous fiscal year.
Net income attributable to owners of parent	15,154	16,000	5.6	 It is forecast that there will be no extraordinary income or loss.
Depreciation and amortization	16,398	20,000	22.0	 Increase in depreciation due to the enlargement of factories
EBITDA	41,270	46,000	11.5	-
Investment amount*	78,599	63,000	-19.8	Investment in semiconductor materials and metal processing (Malaysia, Ishikawa, etc.), power semiconductor substrates (Sichuan and Malaysia), and sensors in Lishui
Assumed exchange rate (average for the period)	US\$: 141.20 yen RMB: 19.87 yen	US\$: 150 yen RMB: 21 yen	-	The yen appreciation is expected in the second half, but these exchange rates are used, because the account closing month of some business companies is December.

Note: Investment amount = Total amount of tangible fixed assets, intangible fixed assets and securities to be acquired, etc.

Segment Information: Semiconductor and Other Equipment-related ForoToc



Segment Information: Electronic Device



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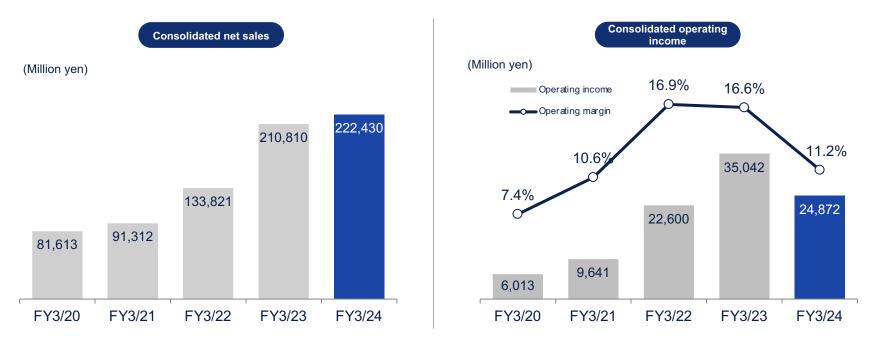
Medium-term Management Plan (FY3/25 to FY3/27)



Review of FY3/24



- Amid the downturn in the semiconductor market, we enhanced the production of power semiconductor substrates, etc., so sales grew.
- We actively invested in Malaysia, etc. and preparations for manufacturing progressed steadily, but we are still at the start-up stage, so operating income declined.



Review of KPIs in the Medium-term Management Plan



	Result at the time of formulation	Planned valu	ie for FY3/24	Result
(Million yen)	FY3/21 (actual)	Initial value	Revised value	FY3/24 (actual)
Net sales	91,312	150,000	220,000	222,430
Operating income	9,640	25,000	32,500	24,872
Operating margin	10.6%	16.7%	14.8%	11.2%
Net income	8,280	15,000	18,000	15,154
ROE	14.3%	15%	15%	7.7%
ROIC [*]	7.2%	8%	8%	4.4%
Equity ratio	37.9%	Over 40%	Over 40%	40%
Investment amount	14,297	26,000	96,900	78,599
Annual dividend per share	30.0 yen	Increase thanks to profit growth	100.0 yen	100.0 yen

*ROIC = Net income attributable to owners of parent/(Interest-bearing debt + Net asset). Net asset does not include share acquisition rights or non-controlling interests' equity.

The investment amount is the total amount of tangible fixed assets, intangible fixed assets and securities to be acquired, etc.

Business growth	AA	From FY3/21 to FY3/24, net sales grew 2.43 times from 91.3 billion yen to 221.8 billion yen and operating income rose 2.60 times from 9.6 billion yen to 25.0 billion yen. In FY3/24, the worsening of the semiconductor market affected our business, but our position in the industry for major products improved, and our growth trend continued.
Strengthening of our global manufacturing	۶	In addition to the enhancement of production capacities of factories in China (Changshan, Sichuan, etc.), we upgraded the production sites in Kulim and Johor in Malaysia, and Ishikawa (No. 2 and No. 3) and Kumamoto in Japan.
system	≻	While increasing production capacities, we enhanced measures for dealing with customer needs arising out of the friction between the U.S. and China, etc.
Strengthening of management	۶	The tightening of quality control and digitalization and automation of manufacturing progressed significantly (adoption of automating equipment, AI-based inspection equipment, automated warehouses, etc.), and the R&D system for each business improved.
foundation	>	The training of personnel for technology, marketing, management, machine operation, etc. progressed, and the Chinese headquarters was established.
Finance/Shareholder	۶	In FY3/24, profit declined, because newly established bases, etc. were still to be operated and the semiconductor market worsened.
return	۶	Since FY3/23, we have been enhancing shareholder return under the policy of "making decisions while aiming to achieve a payout ratio of 20%."

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Basic Policy, KPIs, and Financial Affairs of the Medium-term Management Plan



Basic Policies of the Medium-term Management Plan

		To pursue the growth of businesses related to semiconductors and automobiles, and expand the businesses with significant market shares
Business growth		To strengthen our system in which the factories in Malaysia and Japan will meet the demand for products manufactured outside China, and Chinese factories will satisfy the demand for products manufactured in China
Strengthening of production efficiency		To proceed with digitalization, automation, etc. in order to increase our manufacturing capacity and improve the production efficiency and competitiveness of our factories
and competitiveness		To continue thoroughgoing quality control under the principle of "Quality is the most important," strengthen our R&D system, and develop new products and technologies
	~	To promit skilled a presented, equiph our training systems, and edget stock based according to the
Strengthening of personnel and		To recruit skilled personnel, enrich our training system, and adopt stock-based compensation systems (RSU and PSU), while positioning the emphasis on personnel as an important management strategy
corporate culture		A company's culture is the foundation for the company. The guidelines for our activities are "to respect clients, employees, diligence, and trust, take action steadily, and pursue innovation," and we will diffuse these guidelines.
Finance/Shareholder		We will strive to increase revenues by starting the operation of enlarged factories early and make them contribute to performance.
return		We will put importance on the increase of shareholder return and achieve a payout ratio of 20 to 30% (enrichment of shareholder return).
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KPIs of the Medium-term Management Plan



(Million yen)	FY3/24 (actual)	FY3/25 (forecast)	FY3/26 (plan)	FY3/27 (plan)
Net sales	222,430	235,000	300,000	380,000
Operating income	22,872	26,000	40,000	60,000
Operating margin	11.2%	11.1%	13.3%	15.8%
Net income	15,154	16,000	22,000	30,000
ROE	7.7%			→ 15%
ROIC [*]	4.4%			→ 8%
Equity ratio	40%		40%	
Capital investment	75,227	60,000	40,000	40,000
Annual dividend per share	100.0 yen	100.0 yen	While considering financ opportunities, we will dividends to <u>achieve a p</u>	

*ROIC = Net income attributable to owners of parent/(Interest-bearing debt + Net asset). Net asset does not include share acquisition rights or non-controlling interests' equity.

Investment Plan and the Outlook for Cash Flows



- We plan to spend a total of 140 billion yen in capital investment in 3 years, and the assumed cost for M&A is 10.0 billion yen, although it depends on investment opportunities.
- A portion of payment for equipment in Malaysia was delayed until FY3/25, causing some effects. The investment
 amount during the period from FY3/21 to FY3/24 was 182.5 billion yen*, down 12.5 billion yen from the forecasted
 amount of 195.0 billion yen. *Including the cost for acquiring the shares of a subsidiary in FY3/24 (posted in the financial cash flow).

Total capital investment amount in the period from FY3/25 to FY3/27: **140 billion yen**

- To meet the request from semiconductor-related clients for the enhancement of capacity from 2025
- > To strengthen our production system outside China
- To keep investing in the automotive segment, including power semiconductor substrates
- Free cash flow is expected to improve, thanks to the increase in operating cash flow.



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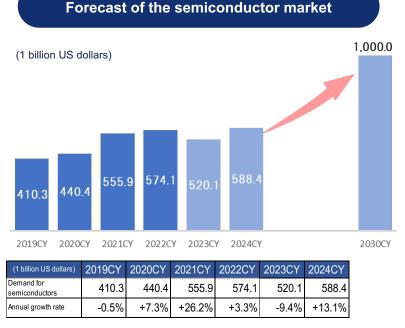
Market Environment and Long-term Performance Trend



The semiconductor market started recovering in 2024 and will grow at an accelerated pace in 2025.

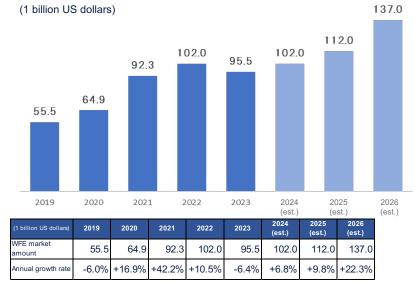
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- The scale of the semiconductor market is expected to exceed 1 trillion US dollars by 2030, and the demand for semiconductor manufacturing equipment will show an upward trend in 2024.
- Despite the impact of the semiconductor-related friction between the U.S. and China, the Chinese economy, which occupies the largest market share, is projected to grow.



*Prepared by our company based on the data published by WSTS

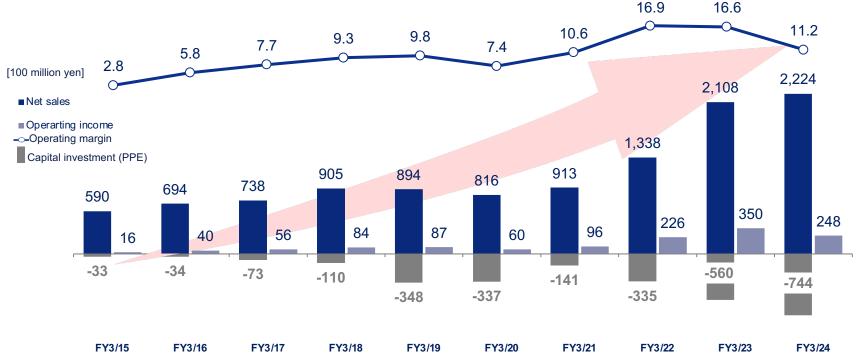




*Prepared by our company based on reference materials published by a certain securities firm

Long-term Performance Trend

- <mark>ନ୍ଦଳ</mark>ୁ ଚ୍<mark>ୟ</mark>ୁ
- Our sales and profit grew significantly during the period from FY3/21 to FY3/23, due to the active investment (in the enlargement of Changshan, Dongtai, and Tongling factories, etc.) and the enhancement of production capacity during the period from FY3/19 to FY3/21. ⇒ In about 3 years after investment, our efforts contributed to revenues.





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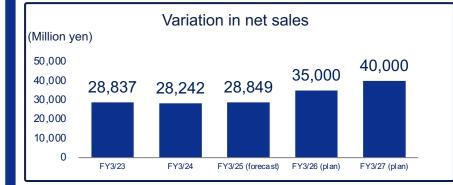
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Strategy for Each Priority Product



Strategy for Each Product: Quartz







Second factory in Changshan (quartz)



Quartz products (produced by processing workpieces with fire)

Manu	facturing so	chedule	
	FY2024	FY2025	FY2026
Malaysia Factory	Start of operation	Operation	Full-scale operation
Kumamoto Factory	-	Start of operation	Operation

To increase the total production capacity in Malaysia and Kumamoto by over 20.0 billion yen

[Summary of 2023]

• The semiconductor market slowed down, but we strove to catch up by taking advantage of the growth of the Chinese market, so sales were flat.

• We established a new factory in Malaysia, and increased engineers for processing workpieces with fire.

[Outlook for medium-term performance]

• Considering the effect of consumption of inventory by users, we expect that fullscale recovery will start in 2025 or later.

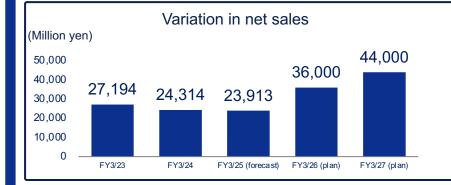
• Our factory in Malaysia will meet the needs of European and U.S. clients for products manufactured outside China.

[Investment in capacity]

• To increase production capacity to cope with the demand growth from 2025, and raise the capacity of processing workpieces with fire to cope with the growth of demand for machine processing. In 2024, we will incur the cost for investment in Malaysia.

Strategy for Each Product: Ceramics







Third factory in Changshan (ceramics)



Fine ceramics

Maria	ufacturing so	FY2025	FY2026
Changshan Factory	Start of operation	Operation	Full-scale operation
Malaysia Factory	Start of operation	Operation	Full-scale operation
Ishikawa Factory (No. 3)	-	Start of operation	Operation

[Summary of 2023]

• Sales declined 11%, due to the slowdown of the semiconductor market, despite the expansion of the Chinese market.

• Active investment in the establishment of new factories in Changshan, Ishikawa, and Malaysia, and the increase of production capacity

[Outlook for medium-term performance]

• Considering the effect of consumption of inventory by users, we expect that fullscale recovery will start in 2025 or later.

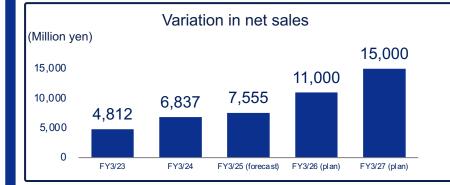
• Our factories in Malaysia and Japan will meet the needs of European and U.S. clients for products manufactured outside China.

[Investment in capacity]

• In 2024, we will incur the cost for investment in Malaysia, and increase production capacity by starting the operation of new factories.

Strategy for Each Product: CVD-SiC







Third factory in Changshan (CVD-SiC)



CVD-SiC

Manufacturing schedule								
FY2024 FY2025 FY2026								
Changshan Factory	Start of operation	Operation	Full-scale operation					

To increase the total production capacity in Changshan and Okayama by about 10.0 billion yen

[Summary of 2023]

• Healthy demand despite the slowdown of the semiconductor market. An increase in production capacity of Okayama Factory led to 42% increase in sales.

•Start of operation of Changshan Factory in addition to the increase in production capacity of Okayama Factory

[Outlook for medium-term performance]

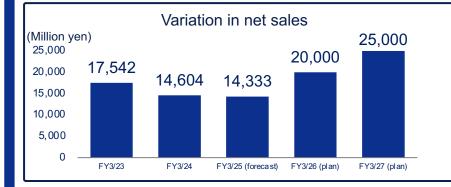
- Demand for CVD-SiC from semiconductor-related clients is expected to keep growing.
- •We will strive to increase sales by enhancing our production capacity.

[Investment in capacity]

• We will boost the production capacities of Changshan Factory and Okayama Factory.

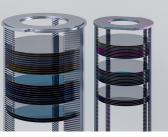
Strategy for Each Product: Silicon Parts







Third factory in Changshan (Si parts)



Silicon parts

Manufacturing schedule						
	FY2024	FY2025	FY2026			
Changshan Factory	Start of operation	Operation	Full-scale operation			

To increase the total production capacity in Changshan and Yinchuan by about 10.0 billion yen

[Summary of 2023]

- Drop in sales due to the downturn of the semiconductor market
- Considering the expected medium/long-term demand growth, we enlarged Changshan Factory to increase production capacity.

[Outlook for medium-term performance]

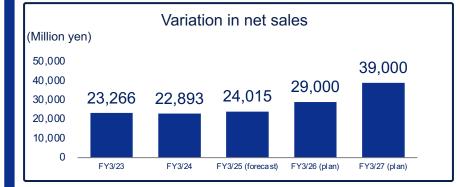
- In 2024, it is assumed that sales will not increase due to inventory issues.
- From 2025, it is forecast that sales will increase thanks to the growth of demand and the rise in production capacity.

[Investment in capacity]

• We plan to newly establish a factory in Changshan, upgrade Yinchuan Factory, and other measures, to increase production capacity.

Strategy for Each Product: Thermo-electric Modules

ForoTor



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Standard module



Micromodule for optical communication

Automation and streamlining



Automation, labor-saving, and streamlining •Installation of automated assembly equipment •Use of AI in inspection, and automation of inspection •Adoption of automatic guided vehicles (AGVs) •Adoption of automated warehouses

[Summary of 2023]

• Peaking out of sales of products for bio devices for PCR, etc. and the correction phase of products for 5G communication devices

Increase in sales of products for optical transceivers related to generative AI

[Outlook for medium-term performance]

- Recovery and upward trends of products for 5G communication devices, and continuous growth of sales of products related to generative AI
- In China, the investment in and demand for 5G-A (5.5G) are expected to grow. We aim to enrich the lineup of chillers and promote sales.

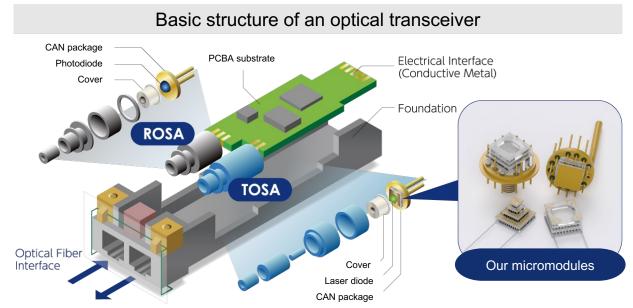
[Investment in capacity]

- Improvement in production efficiency through the automation of production lines
- Planning to manufacture products outside China



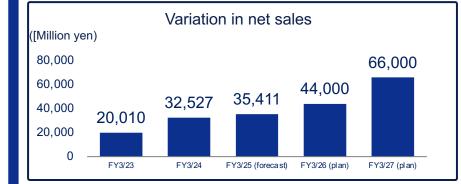
•Growth of the needs for heavy-data transmission due to the increase of data traffic between servers ⇒Expansion of demand for large-capacity optical transceivers for 5G communication devices ⇒Favorable effects on thermo-electric modules (For large-capacity types [from 800 GB], we supply products to large clients.)

•The growth of demand for graphics processing units (GPUs) produced favorable effects on our business related to semiconductor manufacturing equipment.



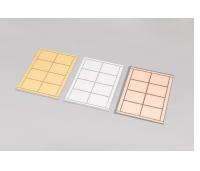
Strategy for Each Product: Power Semiconductors







New factory in Sichuan (Neijiang)



Power semiconductor insulating substrate

	FY2024	FY2025	FY2026	
Sichuan Factory	Operation	Full-scale operation	⇒	
Malaysia Factory	Start of operation	Operation	Full-scale operation	

[Summary of 2023]

•Despite the correction phase in the second half of the year, a trend in demand expansion and the enhanced capacity of Dongtai Factory led to a 62% increase in sales, and our position improved to a globally top ranking company.

•Establishment of new factories in Sichuan and Malaysia, and active investment in the enhancement of production capacity

[Outlook for medium-term performance]

•The demand for power semiconductor substrates is expected to keep growing. •Enrichment of the lineup of DCB, AMB, and DPC substrates

[Investment in capacity]

•Operation of new factories in Sichuan and Malaysia

•Automation progressed and production efficiency improved.

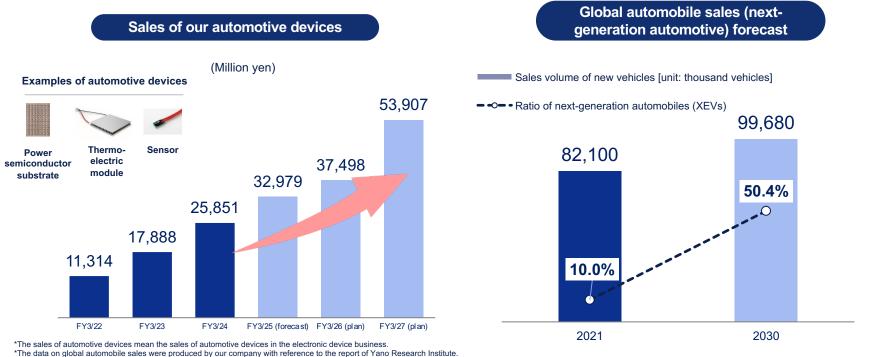


• Start of operation in January 2024. We are obtaining product certifications from major clients, and preparing for mass production to be started in the second half of the year.





• We aim to strategically expand the sales of automotive devices, such as power semiconductor substrates and thermo-electric modules, in order to take advantage of the medium/long-term growth of the next-generation automobile market.



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Various systems, including ERP and MES, have been installed in production bases in China, thereby visualizing and streamlining production processes, and improving quality (utilization of AI and adoption of robots).
 ⇒To enhance the competitiveness and advantages of factories through automation, labor-saving, and streamlining To enhance the investment in automation also in the new bases in Japan and Malaysia and proceed with cross-sectoral promotion



Automatic conveyance system



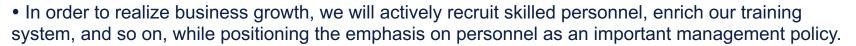
Automatic warehouse system



Automatic inspection equipment

To promote the DX of manufacturing processes to improve productivity and quality

Strengthening of Personnel and Corporate Culture



• We will enliven communication beyond business and regional boundaries, share our corporate culture, and expand the network for cooperation.





We are actively recruiting skilled personnel in China, too, and will engage in the development of products in the Chinese headquarters in Shanghai and research institutes for respective businesses.

FerroTec



We are expanding production capacity by gradually building new factories and adding floor space toward growth from 2024 onward. The following are our main plans at present.

Business	Location	2023	2024	2025	2026	2027	2028	Assumed production capacity (100 million yen)
Power semiconductor substrates	Dongtai and Neijiang, China	Start of operation	Small-lot production	>	Full-scale	operation		680
Power semiconductor substrates	Malaysia				Small-lot roduction	Full-scale op	peration	150
Ceramics	lshikawa, Japan	Start	of operation	Small-lot production	F u	ull-scale operation	on	140
Ceramics Silicon parts	Changshan, China		Start of operation	Small-lot production	F ι	ıll-scale operatic	on	150
Quartz crucibles	Yinchuan, China		Start of operation	Small-lot production	Fu	Ill-scale operatic	on	340
Metal processing, quartz, ceramics	Malaysia		Start o operatio			Full-scale ope	eration	250
Material, parts cleaning	Kumamoto, Japan			Start of operation	Small-lot production	Full-scale	operation	70

Situation of Application for Listing of Chinese Subsidiaries

• The businesses for manufacturing quartz crucibles, silicon parts, and silicon wafers are under review for listing.

ForoToc

r Wafer Co., Ltd.	
%	
Dhanahai	
Shanghai	
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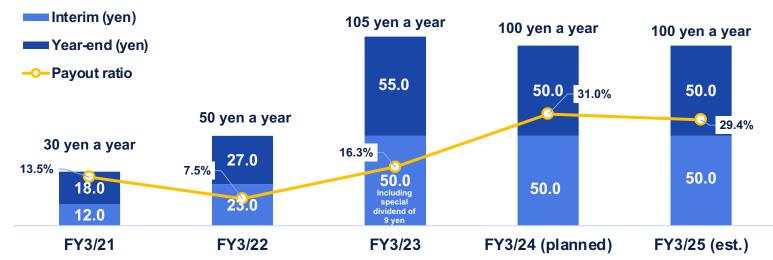
*Investment ratio of FTSVA is based on figures after listing.

**Except for FTSVA, values are calculated based on the share price at the time of the third-party allotment since 2021. 1 yuan = 20.83 yen (TTM as of Mar. 29, 2024) Copyright © Ferrotec Holdings Corporation. All Rights Reserved.

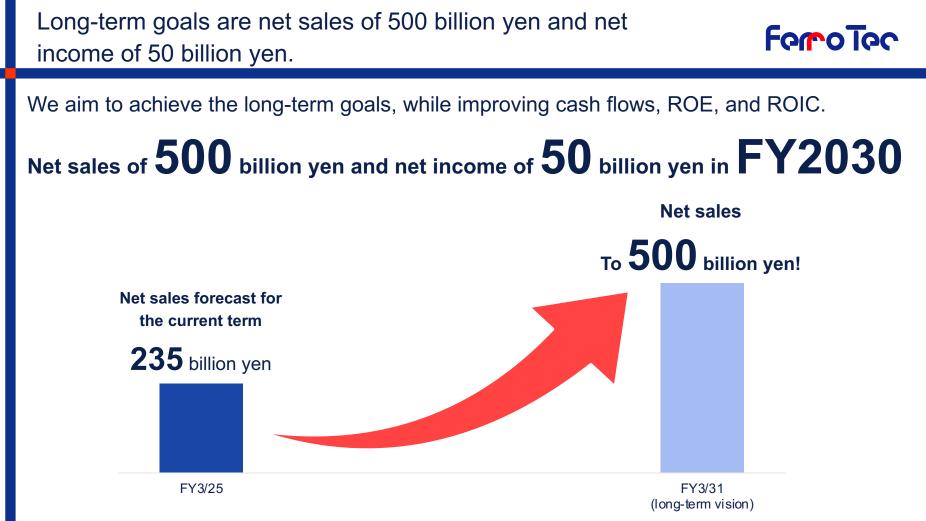


[New dividend policy]

We will determine the dividend amount while emphasizing the increase of shareholder return and taking into account financial affairs and investment opportunities, but will strive to enrich shareholder return with the aim of achieving a payout ratio of <u>20 to 30%</u>.



Variation of dividend per share



ForoTor

Our IR news is posted on the web portal "IRSTREET" in Japanese and English, and delivered by e-mail. Please check the link below.



Sign up in Japanese

https://ircms.irstreet.com/member_registration/ne w_u.php?site=1&language=1&brand_selection=0&r egist_brand_select[]=85

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https://ircms.irstreet.com/member_registration/ne w_u.php?site=2&language=2&brand_selection=0&r egist_brand_select[]=85



FeroTec

Ferrotec Holdings Corporation

Appendix



Our Lineup of Semiconductor and Other Equipment-related Products





Our strengths: Not only capital investment-linked products (vacuum feedthroughs), but also a lineup of repeat consumables (materials) and services (cleaning and wafer recycling) linked to the production and operation of semiconductor device manufacturers



Line-up of Our Electronic Device-related Products

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Thermo-electric modules



*As temperature adjustment devices, thermoelectric modules are increasingly used in the fields of automobiles, semiconductor manufacturing equipment, communications, medical biotechnology, consumer products, etc. (Market share: 36% (largest))

Insulating substrates for power semiconductors



*In response to the global trend of power consumption reduction, the demand from clients needing power semiconductors is growing. (DIRECT COPPER BONDING technology for bonding a cooper circuit to an alumina ceramics substrate)



Chiller A chiller (constant-temperature water circulation equipment) is equipment for circulating liquid, such as water, while cooling or heating it to keep a predetermined temperature. It is used for keeping the temperature of objects, such as heat sources of facilities and equipment, constant.

Application of power semiconductors Prover transmission Prover transmission Reduction of power loss Discrete registration Solar cell

Energy saving

Compact AC adapter incorporated in PC Reduction of power loss

Improved efficiency of Power conditioner

Ferrofluid



*Used in a wider range of fields, including automobile speakers, high quality sound TV speakers, and smartphone vibration (Market share: 80% (largest))

Temperature sensors (thermistors) *Ohizumi Mfg.



*Thermistors are semiconductor ceramics that change resistance significantly according to temperature changes. They are broadly used as temperature sensors for automotive devices, home appliances, optical communications, etc. The demand for them is growing thanks to the electrification of vehicles and digitalization.

Sales by Product for FY3/24 (First and Second Half)



(Million yen)	FY3	/23 Results		FY3/24 Results					
(Willion yell)	Full-year	1 st half	2 nd half	Full-year	ΥοΥ	1 st half	YoY	2 nd half	ΥοΥ
Semiconductor and other equipment- related	132,194	63,791	68,403	130,072	-1.6%	60,257	-5.5%	69,815	2.1%
Vacuum feedthroughs	27,976	12,833	15,142	25,242	-9.8%	11,730	-8.6%	13,512	-10.8%
Quartz	28,837	13,983	14,854	28,242	-2.1%	11,584	-17.2%	16,658	12.1%
Silicon parts	17,542	9,325	8,217	14,604	-16.7%	7,712	-17.3%	6,892	-16.1%
Ceramics	27,194	13,030	14,164	24,314	-10.6%	11,657	-10.5%	12,657	-10.6%
CVD-SiC	4,812	1,962	2,850	6,836	42.1%	2,999	52.9%	3,837	34.6%
EB-Gun, LED	8,036	3,907	4,129	5,935	-26.1%	3,011	-22.9%	2,924	-29.2%
Wafer processing (out of scope of consolidation)	236	85	151	129	-45.3%	43	-49.4%	86	-43.0%
Wafer recycling	1,501	652	849	1,780	18.6%	753	15.5%	1,027	21.0%
Equipment parts cleaning	12,170	5,939	6,231	11,719	-3.7%	5,424	-8.7%	6,295	1.0%
Quartz crucibles	3,891	2,075	1,816	11,268	189.6%	5,341	157.4%	5,927	226.4%
Electronic device	53,024	23,073	29,952	67,600	27.5%	32,840	42.3%	34,760	16.1%
Thermo-electric modules	23,266	11,546	11,721	22,893	-1.6%	10,640	-7.8%	12,253	4.5%
Power semiconductor substrates	20,011	7,919	12,092	32,527	62.5%	16,103	103.3%	16,424	35.8%
Ferrofluid, others	936	485	451	922	-1.5%	398	-17.9%	524	16.1%
Sensor	8,811	3,123	5,688	11,255	27.7%	5,697	82.4%	5,558	-2.3%
Others	25,590	10,640	14,950	24,757	-3.3%	12,396	16.5%	12,361	-17.3%
Total	210,810	97,505	113,305	222,430	5.5%	105,494	8.2%	116,936	3.2%

*Figures are partially rounded.

Business Forecasts of Each Segment/Product for FY3/25 (First and Second Half)



(Million yon)	FY3/24 Results			FY3/25 Forecast						
(Million yen) –	Full-year	1 st half	2 nd half	Full-year	YoY	1 st half	YoY	2 nd half	YoY	
Semiconductor and other equipment- related	130,072	60,257	69,815	138,185	6.2%	64,671	7.3%	73,514	5.3%	
Vacuum feedthroughs	25,242	11,730	13,512	29,178	15.6%	13,656	16.4%	15,522	14.9%	
Quartz	28,242	11,584	16,658	28,849	2.1%	13,501	16.5%	15,348	-7.9%	
Silicon parts	14,604	7,712	6,892	14,333	-1.9%	6,708	-13.0%	7,625	10.6%	
Ceramics	24,314	11,657	12,657	23,913	-1.6%	11,191	-4.0%	12,722	0.5%	
CVD-SiC	6,836	2,999	3,837	7,555	10.5%	3,536	17.9%	4,019	4.8%	
EB-Gun, LED	5,935	3,011	2,924	5,720	-3.6%	2,677	-11.1%	3,043	4.1%	
Wafer processing (out of scope of consolidation)	129	43	86	99	-23.3%	46	7.0%	53	-38.4%	
Wafer recycling	1,780	753	1,027	3,756	111.0%	1,758	133.5%	1,998	94.5%	
Equipment parts cleaning	11,719	5,424	6,295	12,508	6.7%	5,854	7.9%	6,654	5.7%	
Quartz crucibles	11,268	5,341	5,927	12,274	8.9%	5,744	7.5%	6,530	10.2%	
Electronic device	67,600	32,840	34,760	72,393	7.1%	33,880	3.2%	38,513	10.8%	
Thermo-electric modules	22,893	10,640	12,253	24,015	4.9%	11,239	5.6%	12,776	4.3%	
power semiconductor substrates	32,527	16,103	16,424	35,411	8.9%	16,573	2.9%	18,838	14.7%	
Ferrofluid, others	922	398.4	523.6	1,188	28.9%	556	39.6%	632	20.7%	
Sensor	11,255	5,697	5,558	11,779	4.7%	5,512	-3.3%	6,267	12.8%	
Others	24,757	12,396	12,361	24,422	-1.4%	11,449	-7.6%	12,973	5.0%	
Total	222,430	105,494	116,936	235,000	5.7%	110,000	4.3%	125,000	6.9%	

*Figures are partially rounded. Copyright © Ferrotec Holdings Corporation. All Rights Reserved.

Notes on Forward-looking Statements and Disclaimer

- The forward-looking statements in this document are based on information available as of the date of publication of this document and assumptions concerning uncertain factors affecting future results.
- Actual results may differ materially from these forecasts due to various factors. Such factors include, but are not limited to, international conditions, economic conditions, product supply and demand trends, raw material prices, market conditions, and exchange rates.
- Quantitative targets and capital investments in these materials represent medium-to long-term strategies and visions, and are not performance forecasts. We undertake no obligation to update any information with respect to these matters.
- For official forecasts, please refer to the disclosure of financial results based on the Tokyo Stock Exchange Regulations.

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