Hirata



Medium-Term Management Plan (FY2022–2024)

May 13, 2022 Hirata Corporation



Looking Back on Medium-Term Management Plan (FY2018–2020)

2 Medium-Term Management Plan (FY2022–2024)





Looking Back on Medium-Term Management Plan (FY2018–2020)

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Outline of Previous Medium-Term Management Plan (FY2018–2020)

Group Slogan	Hirata is striving to become the Top Integrator of Production Systems for Our Global Customers			
Targets for final fiscal year (2020)	 Consistently achieving consolidated net sales above 100 billion yen Targeting operating income margin of 10% or more 	Net sales (Billions of yen) 100 Operating profit ratio 10%		
Aims of FY2018–2020 Medium-Term Management Plan	 Expansion of scale (net sales and profit) to ensure growth potential Improvement of profit structure to ensure management stability 	50 0 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020		

Item		Content of plan		
Basic strategies	Strengthening order-receiving/production/ development systems	 Amount of capital investment 15 billion yen R&D expenses 5 billion yen Construction of new plant in response to an increase in orders and production in growing markets Itilizing M8A and strategic alliances as means for our growth strategy 		
	Deepening and expanding existing business	 Acquisition of new regions and customers in the EV and semiconductor fiel 		
	Venturing into growth markets			
	Establishing mass production business and commercialization	Mass production: Move to mass production by modularizing individual des products Commercialization: Development and sales promotion of single item goods		
Corporate governance-related initiatives		 Newly establishing a department specializing in Group compliance Improving reporting routes for cases of misconduct and emergencies Improving IT infrastructure and understanding and strengthening information security 		

Review of Management Indicators, Basic Strategies, etc. of FY2018–2020 Medium-Term Management Plan

Review of Management Indicators			Torrect	FY2018–2020 Medium-Term Management Plan				Three-year	Reference:
			larget	FY2018	FY2019	FY202	D	total	FY2021
		Net sales	100 billion yen	77.3 billion yen	65.6 billion yen	65.3 billior	n yen	_	67.0 billion yen
		Operating profit ratio	10% or more	8.1%	4.2%		7.7%	_	5.7%
		Capital investment	Cumulative total 15 billion yen	4.13 billion yen	2.58 billion yen	3.16 billio	n yen	9.87 billion yen	1.47 billion yen
		R&D expenses	Cumulative total 5 billion yen	1.16 billion yen	1.0 billion yen	0.86 billior	n yen	3.03 billion yen	1.02 billion yen
Review of FY2018–2020 Plan's strategies, etc.		Results (FY2	2018–2020)	Tasks	s/Challenge	es	N	Recogniti Ianagemen	on of It Issues
Basic strategies	Strengthening order- receiving/production/ development systems	-Promotion of commercialization of key components -New business-related investment -Development of organizational management system and internal rules to promote investment development		-Supplementing o business strategie -Enhancing the pe investment/R&D p	f existing resources es erformance of the olan promotion syste	sting resources to promote mance of the promotion system		ening of our vantages and re issues	
	Deepening and expanding existing business/Venturing into growth markets	-Expansion of business scale in semiconductor transfer field -Accumulated achievements as a top-tier manufacturer for both major and start-up companies in EV field -Expansion of compatible processes by development of elemental technologies in growth fields (EVs/semiconductors)		-Thorough manag -Technological de customer needs -Strengthening of Group companies	 Thorough management of project profitability Technological developments that meet customer needs Strengthening of collaborative system between Group companies 		of profitability -Investment in key technologies to increase profitability and efficiency in growth markets (EV/semiconductor fields), strengthening of human resources, and active collaboration with outside companies that does not limit us		
	Establishing mass production business and commercialization	-Expanded and upgraded electric series products (to for which a Hirata-develop efficiency DC brushless m -Standardized registration series products by top-tier manufacturers	lineup of ECO a total of 61 types) ed, compact, high- otor was adopted of ECO electric automobile	-Further expansio ECO electric serie MOTOR* as their -Expansion of bus sales channels for * HIRATA BLUE M of our company.	n and upgrade of line es products with HIR, core technology siness scale by devel r ECO electric series IOTOR is a registere	eup of ATA BLUE oping new products d trademark	to in-house resources -Sharing of values, organizational strengthening, and strengthening of cooperation to enhance Plan's feasibili For strengthening of management bases that underpin long-term sustainable profitability		nizational ngthening of Plan's feasibility management nderpin le profitability
Corporate governance- related initiatives		-Clarification of issues by e effectiveness of Board of I -Introduction of delegation officer system -New Compliance and Inte Department	evaluating Directors' meetings -type corporate ernal Control	-Enhancement of discussions regar management stra -Strengthening of risk management Group companies	Board of Directors' n ding medium- to long tegies, etc. internal control syste systems, including th	neeting g-term ems and nose of	-Form expar contr -Prom and p pace	nulation of Hirata G nsion of specific ini ibutions to a sustai notion of digitalizati olants in response to of digitalization	roup policy and tiatives relating to nable society ion in operations o accelerating



1 Looking Back on Medium-Term Management Plan (FY2018–2020)

2 Medium-Term Management Plan (FY2022–2024)



Mission Statement: "We courageously pursue technological innovation while contributing to the betterment of mankind, development of individuals and enhancement of our company's capabilities."

Basic Policies



Transformation to competitive management structure

As a group, establish management bases and work to expand business in growth markets while securing profit from existing businesses

Basic Policies and Measures

Strengthen profitability

(1) Business expansion in growth markets	(2) Strengthening competitiveness as a global company
Recognition of EV and semiconductor markets as growth markets -Review of business portfolio -Concentrate resources, promote growth in EV field of the automotive-related equipment business and the semiconductor-related equipment business -Efforts to create new businesses and expand business areas	 Global support Optimization of development and production systems within the Group Strengthening of cooperation within the group Business initiatives Thorough profitability management that utilizes DX Strengthening of product competitiveness

Strengthening of management bases

(3) Strengthening of ESG management initiatives	(4) Realization of management in line with new normal era
Improving corporate value through ESG management -Formulation of basic sustainability policy -Building of a promotion system -Identify materiality (important issues), visualize goal-setting and initiatives -Appropriate information disclosure and enhanced dialogue with stakeholders	Initiatives for DX -Virtual commissioning utilizing an emulator -Utilization of new technologies (XR, AI, etc.)* -Remote meetings/maintenance

(1) Business expansion in growth markets

(2) Strengthening competitiveness as a global company

(3) Strengthening of ESG management initiatives

(4) Realization of management in line with new normal era



Positioning of Medium-Term Management Period for Each Business

Thorough selection and concentration of existing businesses, positioning new biological genetic resource business as one that will present new challenges



Growth Plan by Business Segment

Expand profitability and sales growth rate of automotive- and semiconductor-related business segments to drive Group profits



Hirata The size of the bubble indicates the scale of sales. This business growth plan is based on the product categories of the new disclosure segments, which have changed from FY2022.

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Background to Positioning as Growth Markets

To concentrate resources on EV- and semiconductor-related equipment businesses, business areas in which market growth potential is high and Hirata's strengths can be leveraged



EV-related equipment business

Strengthening of the battery field

- (1) Selection of specialized process
- (2) Development and improvement of key devices
- (3) Strengthening of product appeal through standardization
- (4) Clarification of target customers
- (5) Active collaboration with outside companies that does not limit us to in-house resources
- (6) Review of human resource allocations

Semiconductor-related equipment business

- **Realization of optimal production system**
- (1) Clarification of target areas
- (2) Introduction of new production control system
- (3) Increased production capacity Increased number of manufacturing staff Expansion of production area
- (4) Efforts to adopt EFEM standardization

Strategies and Measures in Battery Field of EV-related Equipment Business (1)

Market potential EV global unit sales forecast Note: ZEVs (BEVs and FCVs), PHEVs CAGR 24ºlo million units 5.6 3.1 million million units units 2020 2021 2025 2030 In 2030, EV vehicles expected to account for approximately 30% of new vehicle sales on a global basis

Source: BloombergNEF

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Lithium-ion battery manufacturing capacity forecast



Strengths EV-related equipment-compatible category ✓ Covers major areas, such as batteries, **Global base** gearboxes and rotors Abundant delivery record of EV-related equipment to major European and U.S. automobile manufacturers One-stop solutions, from concept proposal to design, production start-up, and maintenance services Gear Box North America Europe China/Taiwan **Battery Pack** IGBT Inverter **Battery Module** Southeast Asia LIB Charge Gear Box **EDU** Discharge Note: The national flags mark Equipment area underpinned by wealth Equipment area specialization, such as the locations of our bases standardization efforts of achievements/standardization

Specific initiatives

Strengthening of the battery field

(1) Selection of specialized process

Charging/discharging systems (cell manufacturing processes), module manufacturing processes, battery pack manufacturing processes

(2) Development/improvement of key devices

Development of solution products by engaging in customer development projects Promotion of addressing by establishment of internal rules for development projects

(3) Strengthening of product appeal through standardization

Assembly system for module manufacturing processes and battery pack manufacturing processes

- (4) Clarification of target customers
- (5) Active collaboration with outside companies that does not limit us to in-house resources
- (6) Review of human resource allocations

Strategies and Measures in Battery Field of EV-related Equipment Business (2)

Aiming to expand business by developing and improving key devices in various battery manufacturing processes, incorporating them into the production systems of each process, and adding them as standard products.



Strategies/Measures for Semiconductor-related Equipment Business



Unit: US\$10 billion, Source: Based on various data, including JEITA, Ministry of Economy, Trade and Industry (The composition ratio of semiconductors, manufacturing equipment, and material parts is assumed to be the same until 2030, based on the Ministry of Economy, Trade and Industry's Strategy for Semiconductors and the Digital Industry [Outline], dated June 2021.)

Miniaturization requirements:

The low-cost miniaturization needs of the semiconductor industry, which aims to reduce the size and improve efficiency of chips, are driving the growth of the industry. Advanced mounting (3D packaging) is progressing even in post-processes.

Carbon neutrality requirements:

As a supplier selection criterion, TSMC requires semiconductor device manufacturers to save 20% by 2030 (20% reduction in the amount of chemical materials, such as electricity, water, and gas, used per semiconductor chip)

Capital investment trends:

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-Response to US-China trade dispute

TSMC's Chinese customer HiSilicon (a subsidiary of Huawei) has been subject to tightened U.S. export restrictions, and while sales to China have declined, a new 5nm process semiconductor production plant has been newly established in Arizona, USA. Announced the establishment of a new semiconductor production plant with Sony Semiconductor Manufacturing Corporation in Kumamoto -Semiconductor manufacturer trends TSMC, Intel, Samsung, SMIC and other companies are

ISMC, Intel, Samsung, SMIC and other companies are planning record-high capital investment in response to increased demand, and production capacity is expected to expand further.



- EFEM: Located in front of process equipment that processes wafers and panels, transfers wafers and panels between containers and process equipment in a clean environment.
- Vacuum robot: Vacuum-compatible wafer transfer robot
- Atmospheric robot: Atmospheric wafer transfer robot
- Load port: A device that delivers wafers into various processing devices.
- Electric gate valve: An electric device that maintains a vacuum state
- Aligner: Wafer positioning device
- **PLP process**: A process in which a large number of chips are placed on a square substrate that is larger than a wafer. PLP stands for Panel Level Packaging.

Specific initiatives

Realization of optimal production system

(1) Clarification of target areas

Review of organizational structure of related departments in line with clarification

- (2) Introduction of new production control system
- (3) Increased production capacity

Approximately 25% increase in manufacturing personnel in semiconductor-related business Expansion of production area, approximately double in size

(4) Efforts toward adoption of EFEM standard products

Aiming to create new businesses and expand existing businesses



Efforts toward commercialization related to biological genetic resource research



Accelerate entry into new areas in existing businesses by utilizing open innovation



Conducting thorough analysis of synergistic effects and full-scale examination of M&A with an awareness of the integration process to maximize post-acquisition integration effects

Continue to work on R&D utilizing biological genetic resources (mainly plant genetic resources)



Completion of world's most advanced laboratory in biological genetic resource research with a view to business developments that utilize algae and plants



Strengthening R&D system

Around 2023, R&D laboratory will commence full-scale operations

- Construction of biogenetic resource R&D labs at headquarters/ Kumamoto plant
 Complete with R&D area of approx. 1,500 m²
- ✓ Accelerate R&D by strengthening R&D system within the Company
- ✓ Build a promotion system for commercialization



Conceptual image of biogenetic resource research lab

(1) Business expansion in growth markets

(2) Strengthening competitiveness as a global company

(3) Strengthening of ESG management initiatives

(4) Realization of management in line with new normal era



Implementing Group management, such as strengthening cooperation within the Group, to create synergistic effects for each business. In each business, we will work on profitability management by utilizing DX and thereby enhance our competitiveness.

Optimization of development/production systems within the Group

- -Consideration of local procurement in China, North America and Europe
- -Optimization of development/production systems (development in Japan, local production for local consumption system by local procurement and production)
- -Examination of global procurement

Strengthening of cooperation within the Group

- -Optimization of cooperation by clarifying the cooperation system between each business division and each affiliated company
- -Building a system for sharing sales information, etc. as a group
- -Redefining the positioning and functions of affiliated companies
- -Efforts to develop global human resources

Thorough DX-based profitability management system

- -Promotion of front-loading activities
 - Cooperation between departments at inquiry/sales stages and implementation of resource management Implementation of 3D design, implementation of pre-verification by emulator

Strengthening of product competitiveness

- -Development to ascertain needs
 - Implementation of solution sales and product development by participating in customer development projects Utilization of external resources through collaboration
- -Standardization to earn income
 - Strengthening of product appeal by product standardization

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Business Initiatives

(1) Business expansion in growth markets

(2) Strengthening competitiveness as a global company

(3) Strengthening of ESG management initiatives

(4) Realization of management in line with new normal era



Relationship between Hirata Group Philosophy and Corporate Value

Implementing initiatives to achieve both business growth and the resolution of social issues, putting ESG management into practice while bringing about improvements in corporate value Emphasis on three value areas to improve corporate value Increased economic Improvement of Improvement of environmental value social value value Contributing to the spread of Aiming to remain a global company with diversity of human resources and sustainable social infrastructure the ability to respond to change through Hirata's businesses Include our shareholders, investors, employees, customers, **Stakeholders** business partners and local communities **Sustainability Basic Policy** The Hirata Group aims to make everyone involved in our company content and to contribute to the building **Medium-Term Management** Based on materiality (important issues), of a sustainable society. specific management plans, business plans Plan/Business Activities To that end, based on the founding spirit encapsulated in our Mission Statement-and through the spirit of respect for people and the provision of Based on our basic policy, our 10 areas of Materiality (important issues) products and services that show our consideration for materiality (important issues) the global environment-we will ensure management transparency and soundness while working to Based on our Corporate Philosophy. achieve both business growth and the resolution of basic thoughts with regard to **Sustainability Basic Policy** improvements in corporate value and social issues. sustainability initiatives Mission Management Purpose and aims of the Philosophy Hirata Group Statement

Hirata Group Materiality (Important Issues)

Concerning the Hirata Group's materiality, we will implement specific action plans during this Medium-Term Management Plan and contribute to solving social issues.

Category	Theme	10 areas of materiality (important issues)		
Е	I. Response to climate change	 Reduction of environmental impact by our company and in the supply chain 		
		 Contribution to carbon neutrality through products and services 		
S	II. Building of a sustainable society	3. Creation of new customer needs in accordance with social changes		
		4. Response to progress of digitalization		
	III. Making the best use of people	5. Securing and training human resources		
		6. Creating diverse, safe and secure workplaces		
	IV. Strengthening of our management foundation	7. Improvement of product safety and quality		
		8. Supply chain management		
		9. Enhancement of corporate governance		
		10. Risk management		



Hirata's all-electric transfer system brings about contributions to carbon neutrality by reducing the environmental impact of customer plants

Features of all-electric transfer system

Focus on high power consumption of air compressors in customer plants

By introducing the all-electric transfer system equipped with our in-house developed DC brushless motor, pneumatic equipment is no longer required and leads to significant reductions in electricity usage, CO_2 emissions, and running costs





Green Market

Green Product

(1) Business expansion in growth markets

(2) Strengthening competitiveness as a global company

(3) Strengthening of ESG management initiatives

(4) Realization of management in line with new normal era



Leveraging digital technologies to transform entire business

Business DX

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- -Virtual commissioning using an emulator
- -Utilization of new technologies (XR/AI)
- -Remote meeting/remote maintenance
- -Digitization of forms/use of cloud computing
- -Visualization of plant operational status

Examples of initiatives in business activities



Effects of initiatives



Management Targets



In final year, aiming for net sales of 100 billion yen and operating income of 10 billion yen, neither of which was achieved in previous Medium-Term Management Plan

	FY2021 Results	Final year of Medium-Term Management Plan (FY2024)			
Net sales	67.0 billion yen	100 billion yen			
Operating profit	3.8 billion yen	10.0 billion yen			
Operating profit ratio	5.7%	10.0%			
ROE*	5.1%	11.0%			
Secured ROIC that exceeded the cost of capital (WACC) and improved capital efficiency					

* ROE assumed as (Increase in retained earnings for each fiscal year) = (Profit attributable to owners of parent) - (Dividend payment [Note] dividend payout ratio 20%)

Management Targets (2)

Aiming for the numerical values given in the table below, centered on automotive EV-related equipment and semiconductor-related equipment businesses, which are regarded as growth markets.

(Numerical Plan by Segment)

FY2024 plan	Automotive-related	Semiconductor-related	Other automatic labor-saving equipment/Other	Total
Net sales	40 billion yen	40 billion yen	20 billion yen	100 billion yen
Operating profit	2 billion yen	6 billion yen	2 billion yen	10 billion yen
Operating profit ratio	5%	15%	10%	10%

(Capital Investment Plan)

Investment plan	Investment to strengthen production/development capacity	Capital investment in biogenetic resource R&D	IT system-related investment	Total
Total over three years of Medium-Term Management Plan	6 billion yen	4 billion yen	1 billion yen	11 billion yen



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