

FACTBOOK

7467/TSE 1st Section, NSE 1st Section HAGIWARA ELECTRIC HOLDINGS CO., LTD. For the six months of the fiscal year

ending on March 31, 2021



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Corporate Profile

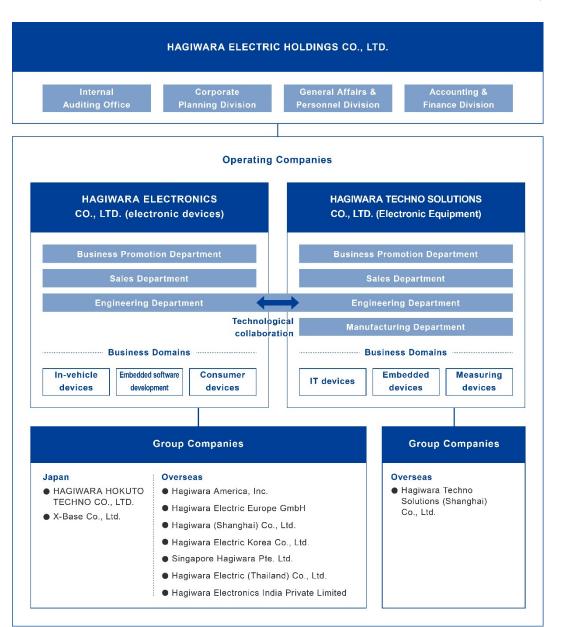


Corporate Outline (as of September 30, 2020)

Name of Company	HAGIWARA ELECTRIC HOLDINGS CO., LTD.
Head Office	2-2-1 Higashisakura, Higashi-ku, Nagoya City, Aichi Pref. 461-8520 Japan
Representative	Mitsuo Iwai, President and Representative Director
Established	March 31, 1948
Share Capital	4,361,243,696 yen
Number of Employees	Consolidated: 598 *Excluding temporary employees
Major Business	Formulation and management of business strategies for group companies selling electronic devices and electronic equipment and manufacturing and selling FA equipment
Subsidiaries	HAGIWARA ELECTRONICS CO., LTD. HAGIWARA TECHNO SOLUTIONS CO., LTD.

Organizational structure of the Group

As of September 30, 2020



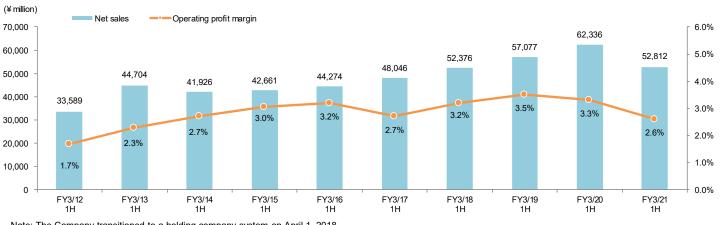
Corporate Profile



Corporate History Timeline

1948 1958	Hagiwara Denki Kogyo was founded. Hagiwara Denki Kogyo Co., Ltd. was founded.	1956	Partnership with NEC Corporation initiated and wholesale division selling electronic components established.
1966	The Tokyo Branch Office was established.	1965 1981	Company name changed to HAGIWARA ELECTRIC CO., LTD. The Nisshin Office (production factory) was established.
1993 1996	The Kyushu Office was established.	1995	Initial public offering of shares
2006	The US local subsidiary was established.	1998	The Miyoshi Distribution Center was established.
2012	The China (Shanghai) local subsidiary was established.	2011	The Korea local subsidiary was established. The China (Free Trade Zone, Shanghai) local subsidiary was established.
2016	The Data Center was opened.	2014	Listed to the 1st Section of Tokyo Stock Exchange Listed to the 1st Section of Nagoya Stock Exchange The Thailand local subsidiary was established.
2019	The India local subsidiary was established.	2018	HOLDINGS CO., LTD., and status changed to holding company. HAGIWARA HOKUTO TECHNO CO., LTD. was established.
Gro	oup Network		X-Base Co., Ltd. was established.
ł	Hagiwara Electric Europe GmbH Hagiwara Electric (Thailand) Co., Ltd.		





Trend of Business Performance

Note: The Company transitioned to a holding company system on April 1, 2018. The business performance up to FY3/18 in this FACTBOOK refers to the figures of the former HAGIWARA ELECTRIC CO., LTD. before the transition.

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Consolidated Balance Sheet



(¥ million)	FY3/17 1H End	FY3/18 1H End	FY3/19 1H End	FY3/20 1H End	FY3/21 1H End
Assets					
Total assets	47,511	53,981	59,316	62,210	64,631
Current assets	43,170	49,286	54,194	57,126	59,326
Cash and deposits	5,535	5,424	7,013	8,389	10,713
Notes and accounts receivable - trade	24,879	26,224	29,750	31,636	28,372
Electronically recorded monetary claims - operating	1,597	2,159	1,980	1,512	1,673
Merchandise and finished goods	10,047	13,861	14,154	14,250	17,401
Work in process	312	422	460	420	468
Raw materials and supplies	153	228	274	286	281
Other	646	968	564	633	420
Allowance for doubtful accounts	(1)	(3)	(2)	(3)	(2)
Non-current assets	4,340	4,695	5,122	5,084	5,304
Property, plant and equipment	2,629	2,608	2,664	2,677	2,717
Intangible assets	117	105	121	202	191
Investments and other assets	1,593	1,980	2,336	2,204	2,395
Other	1,614	1,981	2,336	_	_
Allowance for doubtful accounts	(21)	(0)	(0)	_	_

(¥ million)	FY3/17 1H End	FY3/18 1H End	FY3/19 1H End	FY3/20 1H End	FY3/21 1H End
Liabilities					
Total liabilities	23,168	27,420	28,695	27,986	29,035
Current liabilities	18,815	24,086	24,576	22,418	22,344
Notes and accounts payable - trade	9,834	11,286	11,482	11,591	10,782
Electronically recorded obligations - operating	1,804	2,413	2,769	2,161	1,983
Short-term borrowings	4,322	6,590	6,835	5,770	5,225
Current portion of long-term borrowings	1,080	1,756	850	225	1,800
Income taxes payable	439	488	783	724	537
Provision for loss on order received	-	56	_	_	-
Other	1,334	1,494	1,856	1,945	2,014
Non-current liabilities	4,353	3,333	4,118	5,568	6,690
Long-term borrowings	3,631	2,875	3,800	5,175	6,225
Retirement benefit liability	249	156	79	181	233
Other	472	301	239	212	232
Net assets					
Total net assets	24,342	26,561	30,620	34,223	35,596
Shareholders' equity	24,227	26,044	30,126	31,992	33,365
Share capital	3,301	3,301	4,361	4,361	4,361
Capital surplus	3,792	3,792	4,861	4,867	4,868
Retained earnings	17,487	19,305	21,246	23,096	24,454
Treasury shares	(354)	(354)	(343)	(332)	(319)
Accumulated other comprehensive income	115	516	475	176	153
Valuation difference on available-for-sale securities	180	396	361	268	313
Foreign currency translation adjustment	58	225	206	107	103
Remeasurements of defined benefit plans	(124)	(105)	(92)	(199)	(263)
Non-controlling interests	-	-	18	2,054	2,078
Total liabilities and net assets	47,511	53,981	59,316	62,210	64,631

Consolidated Statement of Income/ Information by Segment



Consolidated Statement of Income

(¥ million)	FY3/17	FY3/18	FY3/19	FY3/20	FY3/21
, ,	1H	1H	1H	1H	1H
Net sales	48,046	52,376	57,077	62,336	52,812
Cost of sales	43,620	47,326	51,283	56,179	47,518
Gross profit	4,426	5,050	5,794	6,157	5,293
Selling, general and administrative expenses	3,143	3,398	3,820	4,114	3,913
Operating profit	1,283	1,651	1,974	2,043	1,380
Non-operating income	45	72	53	60	92
Interest income	4	3	1	2	6
Dividend income	7	8	10	9	10
Foreign exchange gains	-	11	17	_	_
Gain on valuation of investment securities	-	_	_	_	52
Insurance claim income	-	_	_	25	0
Surrender value of insurance policies	-	30	0	_	_
Refunded import duty	15	_	_	_	_
Other	18	18	23	22	22
Non-operating expenses	112	43	51	101	98
Interest expenses	21	18	20	24	16
Foreign exchange losses	58	_	_	38	58
Loss on valuation of investment securities	_	_	_	28	_
Loss on sales of trade receivables	_	23	17	7	12
Other	32	1	13	2	10
Ordinary profit	1,216	1,680	1,975	2,001	1,373
Extraordinary income	124	_	_	_	_
Gain on sales of non-current assets	120	_	_	_	_
Gain on reversal of asset retirement obligations	4	_	_	_	_
Extraordinary losses	9	1	1	3	0
Loss on disposal of non-current assets	0	1	1	0	0
Loss on valuation of membership	_	_	_	2	_
Impairment loss	9	_	_	_	_
Loss on valuation of investment securities	_	_	0	1	_
Profit before income taxes	1,331	1,678	1,974	1,998	1,373
Income taxes	457	535	634	663	469
Profit	874	1,142	1,340	1,335	904
Profit attributable to non-controlling interests	_	· _	3	28	27
Profit attributable to owners of parent	874	1,142	1,336	1,307	876
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Information by Segment

Net Sales Breakdown by Business Segment

(¥million)	FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Net sales	48,046	52,376	57,077	62,336	52,812
Electronic Devices Business	40,490	43,910	46,687	50,824	43,292
Technology Solutions Business	7,555	8,466	10,390	11,512	9,519
Segment profit	1,283	1,651	1,974	2,043	1,380
Electronic Devices Business	1,628	2,008	1,420	1,406	916
Technology Solutions Business	335	412	553	636	463
Reconciling items	(681)	(769)	_	—	_

Note: The Company changed the calculation method of segment profit from the first half of FY3/19.

Along with this, corporate expenses and income related to the Company (the holding company) are allocated to each segment.

Net Sales Breakdown by Major Client

(¥million)	FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Net sales	48,046	52,376	57,077	62,336	52,812
DENSO CORPORATION	27,960	30,422	32,773	35,333	30,684
Toyota Motor Corporation	3,752	3,581	4,262	4,425	1,892
TOKAI RIKA CO., LTD.	2,452	2,603	2,150	2,262	1,743
Others	13,881	15,770	17,892	20,315	18,492

Note: Net sales to overseas subsidiaries of DENSO CORPORATION, etc. are included in "Others."

Consolidated Statement of Cash Flows



(¥ million)	FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Cash flows from operating activities					
Net cash provided by (used in) operating activities	604	(1,768)	324	908	1,245
Profit before income taxes	1,331	1,678	1,974	1,998	1,373
Depreciation	94	84	86	96	119
Impairment loss	9	_	_	_	-
Loss (gain) on sales and retirement of non-current assets	(120)	1	1	0	0
Increase (decrease) in allowance for doubtful accounts	3	(1)	0	(0)	0
Increase (decrease) in retirement benefit liability	(36)	(28)	(30)	(21)	(17)
Increase (decrease) in provision for loss on order received	_	55	(11)	_	-
Interest and dividend income	(11)	(11)	(12)	(11)	(16)
Interest expenses	21	18	20	24	16
Surrender value of insurance policies	_	(30)	_	_	_
Gain on reversal of asset retirement obligations	(4)	_	_	_	-
Decrease (increase) in trade receivables	28	1,545	365	1,455	4,368
Decrease (increase) in inventories	701	(3,010)	(1,409)	(3)	(686)
Increase (decrease) in trade payables	(872)	(916)	(248)	(1,133)	(3,224)
Other, net	(15)	(567)	76	(481)	(221)
Subtotal	1,128	(1,181)	813	1,922	1,712
Interest and dividends received	12	11	12	12	16
Interest paid	(20)	(17)	(20)	(24)	(15)
Income taxes paid	(515)	(580)	(480)	(1,001)	(468)
Cash flows from investing activities					
Net cash provided by (used in) investing activities	506	(6)	(292)	(133)	(43)
Proceeds from withdrawal of time deposits	300	_	70	_	-
Payments into time deposits	_	_	(200)	_	_
Purchase of investment securities	(36)	(21)	(15)	(5)	(5)
Proceeds from sales of investment securities	_	_	_	_	64
Proceeds from redemption of investment securities	100	_	_	_	-
Proceeds from sales of property, plant and equipment	234	_	_	_	-
Purchase of property, plant and equipment	(96)	(43)	(111)	(80)	(79)
Purchase of intangible assets	(13)	(24)	(39)	(29)	(43)
Proceeds from cancellation of insurance funds	_	86	_	_	-
Other, net	17	(2)	4	(17)	21
Cash flows from financing activities					
Net cash provided by (used in) financing activities	(940)	1,770	474	179	1,777
Net increase (decrease) in short-term borrowings	(196)	2,081	252	233	77
Proceeds from long-term borrowings	1,450	500	700	1,250	2,400
Repayments of long-term borrowings	(1,547)	(432)	(893)	(800)	(150)
Purchase of treasury shares	(341)	(0)	_	_	(0)
Proceeds from issuance of shares	_	_	879	_	_
Dividends paid	(290)	(366)	(467)	(485)	(482)
Proceeds from share issuance to non-controlling shareholders	-	_	15	—	-
Dividends paid to non-controlling interests	_	_	_	(5)	(34)
Other, net	(15)	(12)	(11)	(13)	(32)
Effect of exchange rate change on cash and cash equivalents	(248)	(16)	(32)	(73)	(20)
Net increase (decrease) in cash and cash equivalents	(78)	(20)	473	881	2,959
Cash and cash equivalents at beginning of period	5,543	5,375	6,540	7,508	7,753
Cash and cash equivalents at end of period	5,465	5,354	7,013	8,389	10,713

Consolidated Profitability Indicators



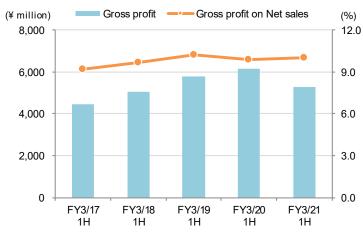
(%)	FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Gross profit on Net sales	9.2	9.6	10.2	9.9	10.0
Operating profit margin	2.7	3.2	3.5	3.3	2.6
Ordinary profit margin	2.5	3.2	3.5	3.2	2.6
Net profit margin	1.8	2.2	2.3	2.1	1.7

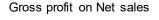
Gross profit on Net sales=Gross profit/Net sales

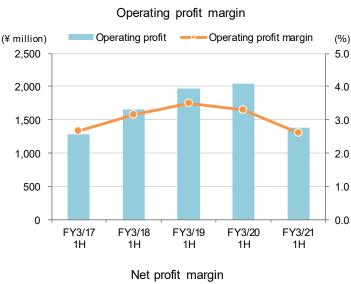
Operating profit margin=Operating profit/Net sales

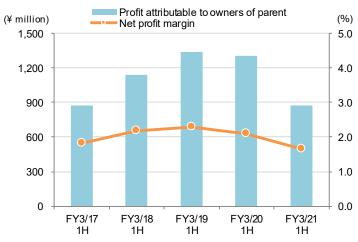
Ordinary profit margin=Ordinary profit/Net sales

Net profit margin=Profit attributable to owners of parent/Net sales

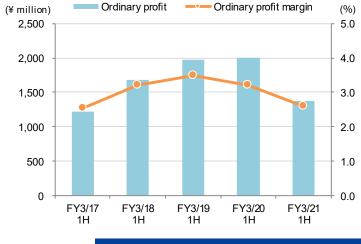








Ordinary profit margin



Consolidated Profitability/Efficiency Indicators



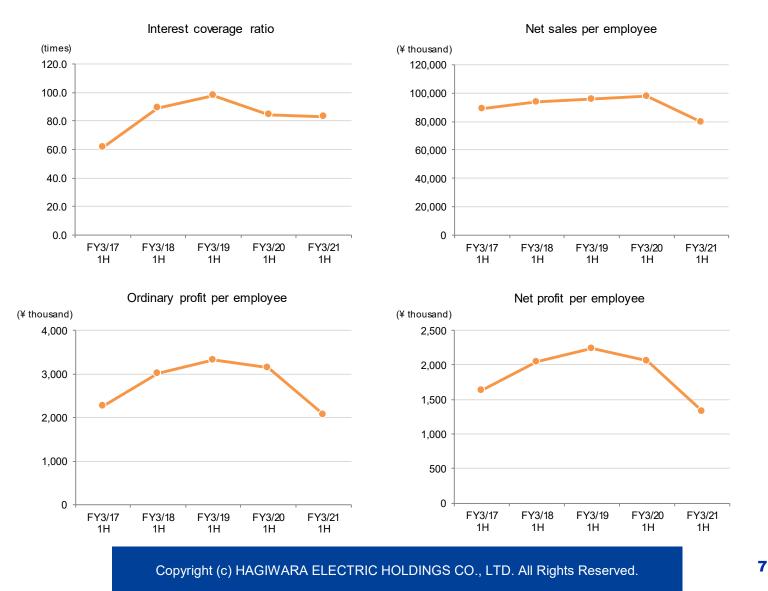
		FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Interest coverage ratio	(times)	61.6	89.3	97.7	84.1	83.1
Number of employees at end of period	(persons)	496	517	547	581	598
Number of temporary employees at end of period	(persons)	42	42	49	56	64
Net sales per employee	(¥ thousand)	89,306	93,697	95,767	97,860	79,777
Ordinary profit per employee	(¥ thousand)	2,261	3,007	3,315	3,143	2,075
Net profit per employee	(¥ thousand)	1,625	2,045	2,243	2,052	1,325

Interest coverage ratio=(Operating profit+Interest income+Dividend income)/Interest expenses

Net sales per employee=Net sales/(No. of employees at end of period+No. of temp. employees at end of period)

Ordinary profit per employee=Ordinary profit/(No. of employees at end of period+No. of temp. employees at end of period)

Net profit per employee=Profit attributable to owners of parent/(No. of employees at end of period+No. of temp. employees at end of period)



Consolidated Efficiency/Stability Indicators

(%)	FY3/17	FY3/18	FY3/19	FY3/20	FY3/21
(70)	1H	1H	1H	1H	1H
Equity ratio	51.2	49.2	51.6	51.7	51.9
Interest-bearing debt ratio	19.0	20.8	19.4	18.0	20.5
Acid-test ratio	170.1	140.4	157.6	185.3	182.4
Current ratio	229.4	204.6	220.5	254.8	265.5
Non-current ratio	17.8	17.7	16.7	15.8	15.8
Non-current assets to Non-current liability ratio	15.1	15.7	14.8	13.5	13.2

Equity ratio=Equity/Total assets

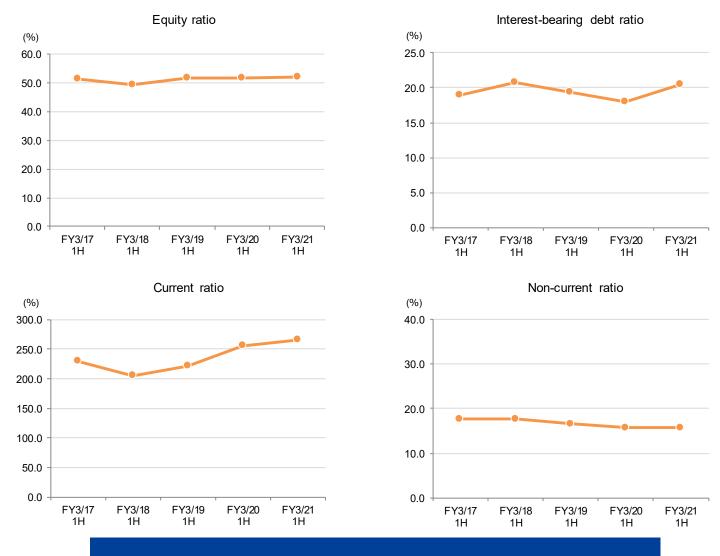
Interest-bearing debt ratio=Interest-bearing debt/Total assets

Acid-test ratio=Liquid assets/Current liabilities

Current ratio=Current assets/Current liabilities

Non-current ratio=Non-current assets/Equity

Non-current assets to Non-current liability ratio=Non-current assets/(Equity+Non-current liabilities)



Stock Information



Per Share Indicators

(¥)	FY3/17 1H	FY3/18 1H	FY3/19 1H	FY3/20 1H	FY3/21 1H
Share price at end of period	1,839	3,275	3,390	2,680	2,282
Closing stock price range for the last 12 months	1,667-2,337	1,843-3,275	2,892-3,990	2,557-3,385	1,860-2,932
Earnings per share (EPS)	106.43	140.66	153.25	147.98	99.20
Dividend per share (DPS)	35.00	40.00	50.00	50.00	30.00

Other Indicators

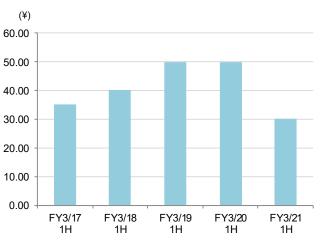
		FY3/17	FY3/18	FY3/19	FY3/20	FY3/21
		1H	1H	1H	1H	1H
Total amount of dividends	(¥ million)	284	325	441	441	265
Dividend payout ratio	(%)	32.9	28.4	32.6	33.8	30.2
Price earnings ratio (PER)	(times)	8.64	11.64	11.06	9.06	11.50
Term-average number of shares outstanding	(thousand shares)	8,212	8,125	8,722	8,833	8,839
Number of shareholders	(persons)	3,359	2,840	2,794	2,825	3,056

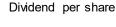
Notes: The Company conducted acquisition of treasury shares through market purchases during the first half of FY3/17.

: The Company issued the share acquisition rights during the second half of FY3/18.

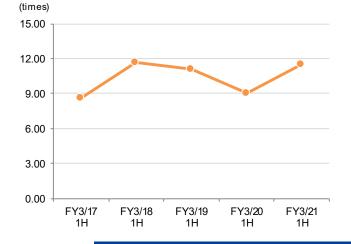
Dividend payout ratio=DPS/EPS

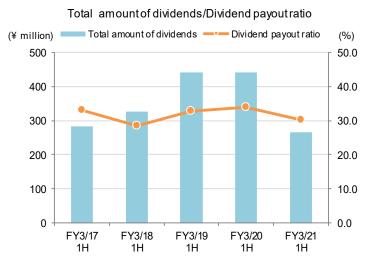
PER=Share price at end of period/EPS*2

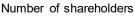


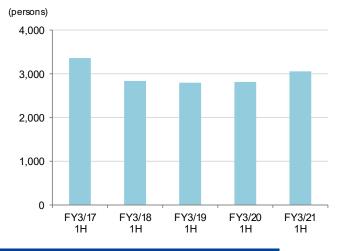












Stock Information



	as of September 30, 2020
Number of shares	Shareholding ratio (%)
684,700	7.74
643,200	7.27
495,250	5.60
350,000	3.96
337,658	3.82
248,175	2.81
232,500	2.63
230,000	2.60
229,195	2.59
178,000	2.01
	684,700 643,200 495,250 350,000 337,658 248,175 232,500 230,000 229,195

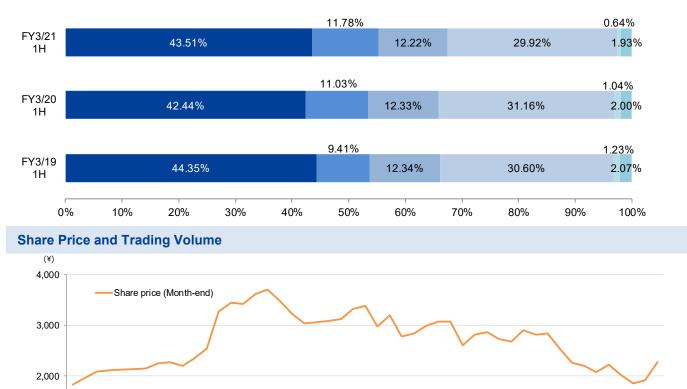
Note: Shareholding ratio is calculated excluding treasury shares (174,378 shares).

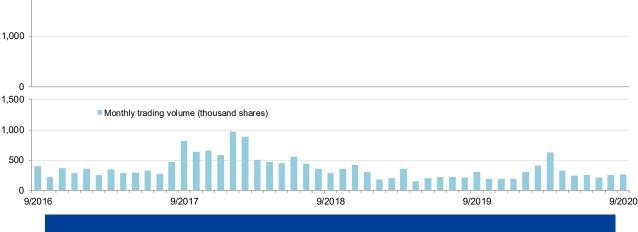
Breakdown of Type of Shareholders

- Individuals and others
- Other Japanese companies
- Financial instruments business operators

Foreign institutions and others
Financial institutions

Treasury shares









Our vision is to be a global supplier of one-stop solutions providing our customers with the best practices from devices to systems.

The foundation of our corporate activities is to prioritize our customers' perspective. We not only meet our customers' needs, but we exceed their expectations by using our knowledge as a trading company to make proposals and leverage our proven technologies to deliver the best solution.

The Hagiwara Electric Group works as one to fulfill its role and

mission as a technology-related trading company. We contribute to the achievement of a prosperous society by creating technological bases to support our electronic devices business, technology solutions business, and overseas business expansion, through which we create solutions that add new value and create greater opportunities for success in all fields.



Electronic Devices Business

Supporting the Automotive Society of Tomorrow

Crafting the automobile of tomorrow as a universal device specialist

The automotive industry has entered a period of rapid change. As the speed of development has accelerated, there have been revolutionary innovations in automotive technologies, from electric vehicles (EV) to advanced driver-assistance systems (ADAS). Hagiwara Electric Holdings strives to further these advancements, by providing state-of-the-art device solutions to the automotive society of tomorrow, which transcend conventional concepts.

Overseas Business Expansion Supporting Your Global Expansion

One-stop solutions to connect manufacturing across the globe

The Hagiwara Electric Group supports the globalization of manufacturing by actively promoting overseas expansion. We currently have a worldwide network originating in Japan and covering North America, Asia and Europe. By utilizing the group know-how and resources of our local bases, we are able to provide the same level of support for customers engaged in overseas manufacturing operations as for customers operating in Japan.

Technology Solutions Business

Supporting the IoT Society for Tomorrow

Expanding tomorrow's potential with IoT to realize a society where data and information are connected

We provide one-stop IoT solutions to realize a "connected society" by fusing and growing factory automation (FA) and other technologies for measurement and IT cultivated on the factory floor.

Technological Base Supporting Hagiwara Electric Technologies

Creating new value in society with the power of technology

From development of original component technologies to applied technology and cutting-edge technology, we actively pursue new potential and functional diversity in addition to seeking new technologies. We create new value in society by being responsive to the expanding markets of many different industries, while at the same time, using our strengths to support the business of Hagiwara Electric Group.

Our Business



Electronic Devices Business

Crafting the automobile of tomorrow as a universal device specialist

The automotive industry has entered a period of rapid change. As the speed of development has accelerated, there have been revolutionary innovations in automotive technologies, from electric vehicles (EV) to advanced driver-assistance systems (ADAS). Hagiwara Electric Holdings strives to further these advancements, by providing state-of-the-art device solutions to the automotive society of tomorrow, which transcend conventional concepts.

Business Domains

Contributing to the automotive society of tomorrow, transitioning beyond conventional concepts, by providing the cutting edge solutions



Supporting the Latest Innovations

Internal vehicle devices

The safety and comfort of one's car is paramount to a relaxed and enjoyable driving experience. We handle a diverse selection of electronic devices that support these developments. What's more, our team is equipped to provide a personalized experience with advanced device solutions. Our specialists are experienced in developing new cutting edge products that are customized and tailored to suit your company's needs.

Embedded software development

With the increasing usage of electronics in vehicles, the demand for microcontrollers has increased.

To meet this ever increasing demand, we are developing improved software to advance the quality and performance of automotive microcontrollers.



Supporting the Evolution of Industry

Devices for industry and social infrastructure

As automation and motorization expand, so too does the technology used in our daily lives. The electronic devices we supply support these developments and allow us to respond quickly to our customers' needs in a variety of fields even as the global demand outgrows production.

Features of Electronic Devices Business

1. The Hagiwara of Cars

A wealth of achievements in the automotive industry especially in the Chubu region

The Hagiwara Electric Group is based in Nagoya, where the world's top automobile and auto parts manufacturers are located. When the Hagiwara Electric Group was founded, we put down roots in the Chubu region, where we have been able to create and foster close relationships with our customers. These relationships have been cultivated over many years and at their cores are built on trust. This has allowed us to gather the latest knowledge about industry trends as well as accumulate the latest and most advanced technology available with which the cars of the future will be fashioned.

2. The Hagiwara of Solutions

Established partnerships with global leaders and drivers of growth

The partnerships we promote are those that will benefit our customers and provide us the tools to resolve any issues they might face. With a focus on long-established global brands, we are always in pursuit of manufacturers who will be the leaders of the next generation. This commitment to coordinating and selecting only the best assists us in providing our customers with most innovative solutions available.

3. The Hagiwara of Technological Strengths

Our efforts in the field of hardware development and EMS/ODM

In recent years, semiconductors such as LSIs with integrated functionality have become mainstream. The Hagiwara Electric Group utilizes its technological strengths to support the functional development of semiconductors as well as the incorporation of "plus alpha" functions into general purpose products. Due to our advancements in software creation and design, we are able to provide electronics manufacturing services (EMS) and original design manufacturing (ODM).

4. The Hagiwara That Is Everywhere in Society

A presence in multiple fields including industry, robots, housing equipment, and nursing care

Device solutions from the Hagiwara Electric Group are utilized in factories to accelerate factory automation (FA). Additionally, our solutions are used in both the housing equipment field and the nursing care field. Our cutting-edge inventory of electronic components and ability to propose solutions support automation and motorization, bringing more convenience to our lives.



Technology Solutions Business

Expanding tomorrow's potential with IoT to realize a society where data and information are connected

We provide one-stop IoT solutions to realize a "connected society" by fusing and growing factory automation (FA) and other technologies for measurement and IT cultivated on the factory floor.



Features of Technology Solutions Business

1. Trading Company with Manufacturing Functions

Partnerships with a variety of manufacturers and our own manufacturing function

In addition to the major manufacturers we have been working with for many years, we also actively collaborate with leading manufacturers across the globe. We assist our customers in finding state-of-the-art technologies and products that suit them. We also have a manufacturing arm where we develop and manufacture our own original products. We resolve the issues faced by our customers through our commitment to quality and meticulous support.

2. Achievements in Industry

A wealth of achievements at auto factories and other production sites especially in the Chubu region

The Chubu region is where many world-class automobile manufacturers and automobile parts manufacturers have their production bases. The region is also playing host to an increasing number of companies engaged in manufacturing equipment for production facilities such as machine tools. Headquartered in Nagoya —the heart of the Chubu—the Hagiwara Electric Group has a proven track record in production site-related business. We are also leveraging these achievements to develop a wide range of solutions in various other fields such as IT and security.

3. Looking Ahead and Being a Pioneer

Using our technological strengths stay new and on trend

From selling computers and servers to building networks and IT platforms, we have always used state-of-the-art and trending technologies such as measurement solutions that support modelbased development. We will continue to use our proven, extensive technological resources to seek new technologies that will form the foundation of the next generation.

4. Widely Connected IoT

Achieving a connected IoT where data is gathered from machines and objects and then analyzed

We can capture data from various machines and objects by utilizing our achievements in IT, embedded devices, measurement and other areas of factory automation (FA). The Internet of Things (IoT) will transform accumulated data into meaningful information that will create new value. With data collection and analysis based IoT, we can provide a one-stop solution encompassing the entire process from beginning to end. This is our strength.

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Our Business



Overseas Business Expansion

One-stop solutions to connect manufacturing across the globe

The Hagiwara Electric Group supports the globalization of manufacturing by actively promoting overseas expansion. We currently have a worldwide network originating in Japan and covering North America, Asia and Europe. By utilizing the group know-how and resources of our local bases, we are able to provide the same level of support for customers engaged in overseas manufacturing operations as for customers operating in Japan. Our goal is to strengthen the development support system of local subsidiaries by implementing measures such as stationing engineers at each location.

This allows us to contribute to the creation and expansion of global markets with our customers while at the same time developing new products and new businesses.

Approach to Overseas Business

- Meeting the global needs of Japanese companies
- Proposing Solutions That Correspond with Local Needs
- Expanding Our Overseas Network

- Business localization
- Enhancing development and design
- Creating new markets

Technological Base

Creating new value in society with the power of technology

From development of original component technologies to applied technology and cutting-edge technology, we actively pursue new potential and functional diversity in addition to seeking new technologies. We create new value in society by being responsive to the expanding markets of many different industries. while at the same time, using our strengths to support the business of Hagiwara Electric Group.

Ă **Our Technologies** Support Technologies **Development Technologies** Component Technologies and Experience HAGIWARA

Hagiwara Electric's Strengths

The Hagiwara Electric Group's strength lies in the ability to use our technological advantages to provide solutions for issues and challenges faced by our customers. Our technologies are largely divided into support technology and development technology, and at the heart of both of these is our component technology and experience. Electronic products are becoming increasingly sophisticated and complex. What is needed now is not only product lineup, but also the ability to support all the technical aspects of a customer's project by utilizing expertise in each field of the customer's business. Utilizing our proven track record and the experience we have accrued, we serve the role of a bridge between suppliers and customers. Our competencies translate into an ability to support our customers' product development and to help their business succeed. At the heart of our ability to provide solutions is the technological strength of the Hagiwara Electric Group and we will further enhance it as a horizontally interconnected foundation that supports the entire Group.

Our Technologies

Examples of Support Technologies

Support for Component Selection

- Introduction of new products from manufacturing partners
- Provision of the latest product information and technical trends
- Assistance in new product evaluation and comparative evaluation of parts

Examples of Development Technologies

Contracted Development of Embedded Systems

- Embedded software development and evaluation
- Development of embedded system hardware
- Circuit design and evaluation of system LSIs and ICs

Development Support for Customers

- Support for advance development of embedded systems
- Support for development of embedded software and hardware mass production
- Support for constructing IT and other systems (system integrator)
- Introduction of partner companies that can perform development and evaluation

Contracted Development Related to IT Solutions

- IoT-related system development
- System development for production
- management systems, etc. Construction of various FA and measurement systems

Establishment of Evaluation

testing and analysis

manufacturing partners

Environments and Contracted Development of Component Technologies for Automated Driving and Other Systems

- Acquisition of car driving video and data tagging
- Image processing that can be applied to electronic mirrors and peripheral monitoring

Support for Failure Analysis

Cooperation in failure classification, reproduction

Follow up on failure analysis in collaboration with

Implementation of new algorithms in embedded systems



HAGIWARA ELECTRONICS CO., LTD.



Hagiwara Electronics' mission is to continually pursue new areas of business while supporting this period of innovation in the automotive society.

Name of Company	HAGIWARA ELECTRONICS CO., LTD.
Location	Takaoka Park Building, 2-2-1 Higashi Sakura, Higashi-ku, Nagoya-shi, Aichi
Representative	Takeshi Soejima, President and Representative Director
Established	May 1, 2017 (Business operation commenced on April 1, 2018)
Share Capital	1,310 million yen
Major Business	Sale of integrated circuits, semiconductors and electron devices

HAGIWARA TECHNO SOLUTIONS CO., LTD.



Hagiwara Techno Solutions' mission is to contribute to factories that enable more efficient manufacturing by realizing traceability using factory IoT.

Name of Company	HAGIWARA TECHNO SOLUTIONS CO., LTD.
Location	Takaoka KANAME Building, 2-28-23 Izumi, Higashi-ku, Nagoya-shi, Aichi
Representative	Kazunari Shiraki, President and Representative Director
Established	May 1, 2017 (Business operation commenced on April 1, 2018)
Share Capital	310 million yen
Major Business	Sale of electronic equipment and manufacture and sale of FA equipment

HAGIWARA HOKUTO TECHNO CO., LTD.

X-Base Co	. , Ltd.
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Name of Company	DMPANY HAGIWARA HOKUTO TECHNO CO., LTD. Name of Company		X-Base Co., Ltd.	
Location	Takaoka Park Building, 2-2-1 Higashi Sakura, Higashi-ku, Nagoya-shi, Aichi	Location	Takaoka Park Building, 2-2-1 Higashi Sakura, Higashi-ku, Nagoya-shi, Aichi	
Representative	Koji Fujita, President and Representative Director	Representative	Yozo Terano, President and Representative Director	
Established	April 2, 2018	Established	August 1, 2018	
Share Capital	45 million yen	Share Capital	70 million yen	
Equity ownership ratio	HAGIWARA ELECTRONICS CO., LTD.: 66.56% Hokuto System Co., Ltd.: 33.44%	Major Business	Planning, development and operation of applied service of cutting-edge technology	
Major Business Consignment and services related to			centering on block chains	



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