

FACTBOOK

7467/TSE Prime Market, NSE Premier Market
HAGIWARA ELECTRIC HOLDINGS CO., LTD.

For the six months of the fiscal year
ending on March 31, 2023



Contents

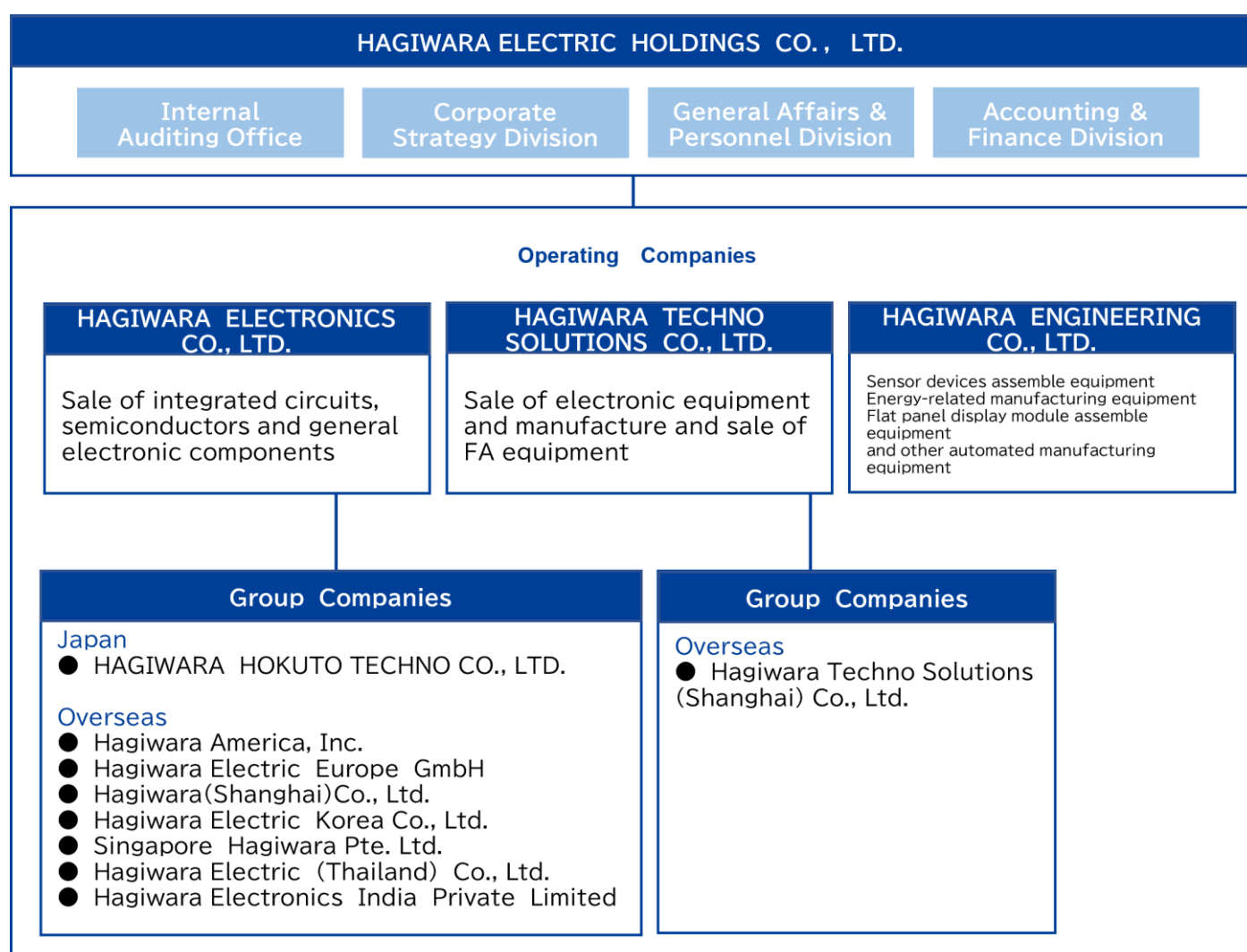
Corporate Profile	1-2
Consolidated Balance Sheet	3
Consolidated Statement of Income/ Information by Segment	4
Consolidated Statement of Cash Flows	5
Consolidated Profitability / Efficiency / Stability Indicators	6
Stock Information	7
Corporate Vision	8
Our Business	9-11
Corporate Profile (Operating companies in Japan)	12

Corporate Outline (as of September 30, 2021)

Name of Company	HAGIWARA ELECTRIC HOLDINGS CO., LTD.
Head Office	2-2-1 Higashisakura, Higashi-ku, Nagoya City, Aichi Pref. 461-8520 Japan
Representatives	Mitsuo Iwai, Chairman and Representative Director Moritaka Kimura, President and Representative Director
Established	March 31, 1948
Share Capital	4,361,243,696 yen
Number of Employees	Consolidated: 684 *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. HAGIWARA ENGINEERING CO., LTD.

Organizational structure of the Group

As of September 30, 2022



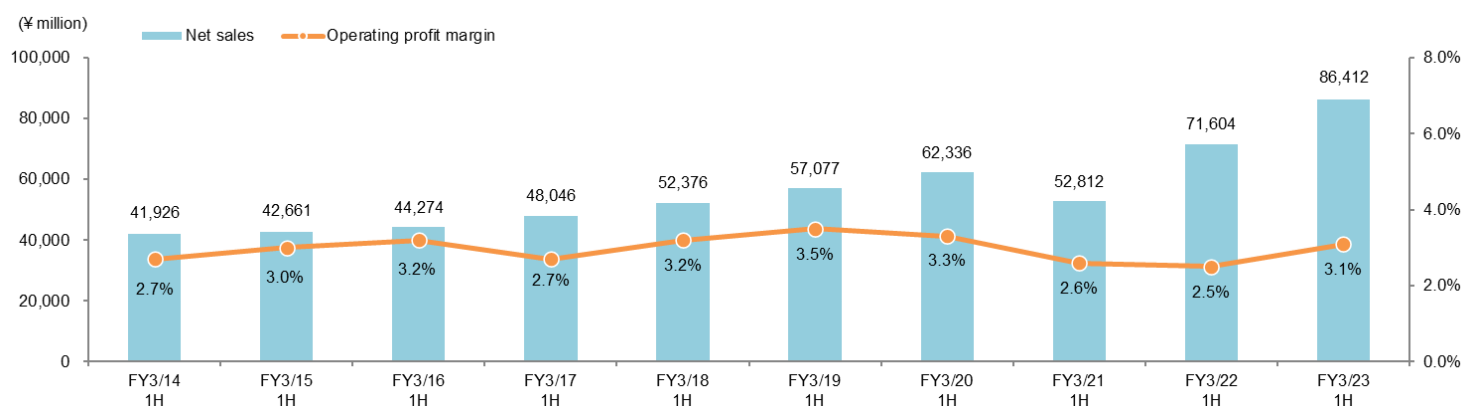
Corporate History Timeline

1948	Hagiwara Denki Kogyo was founded.		
1958	Hagiwara Denki Kogyo Co., Ltd. was founded.		
1966	The Tokyo Branch Office was established.		
1993	The Kyushu Office was established.		
1996	The Singapore local subsidiary was established.		
2006	The US local subsidiary was established. The China (Shanghai) local subsidiary was established.		
2012	The Germany local subsidiary was established. The Data Center was opened.		
2016	The Kansai Branch was established.		
2019	The India local subsidiary was established.		
1956	Partnership with NEC Corporation initiated and wholesale division selling electronic components established.		
1965	Company name changed to HAGIWARA ELECTRIC CO., LTD.		
1981	The Nisshin Office (production factory) was established.		
1995	Initial public offering of shares.		
1998	The Miyoshi Distribution Center was established.		
2011	The Korea local subsidiary was established. The China (Free Trade Zone, Shanghai) local subsidiary was established.		
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.		
2018	Company name changed to HAGIWARA ELECTRIC HOLDINGS CO., LTD., and status changed to holding company. HAGIWARA HOKUTO TECHNO CO., LTD. was established.		
2022	Listed to Tokyo Stock Exchange Prime Market. Listed to Nagoya Stock Exchange Premier Market. HAGIWARA ENGINEERING CO., LTD. becomes a subsidiary.		

Group Network



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.

Consolidated Balance Sheet

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
資産の部	Assets					
資産合計	Total assets	59,316	62,210	64,631	73,813	95,352
流動資産	Current assets	54,194	57,126	59,326	68,291	87,866
現金及び預金	Cash and deposits	7,013	8,389	10,713	9,345	10,332
受取手形及び売掛金	Notes and accounts receivable - trade	29,750	31,636	28,372	—	—
受取手形、売掛金及び契約資産	Notes and accounts receivable - trade, and contract assets	—	—	—	20,914	29,925
電子記録債権	Electronically recorded monetary claims - operating	1,980	1,512	1,673	13,199	4,410
商品及び製品	Merchandise and finished goods	14,154	14,250	17,401	21,703	38,135
仕掛品	Work in process	460	420	468	535	1,203
原材料及び貯蔵品	Raw materials and supplies	274	286	281	389	1,105
その他	Other	564	633	420	2,262	2,772
貸倒引当金	Allowance for doubtful accounts	△ 2	△ 3	△ 2	△ 59	△ 18
固定資産	Non-current assets	5,122	5,084	5,304	5,521	7,486
有形固定資産	Property, plant and equipment	2,664	2,677	2,717	2,747	4,410
無形固定資産	Intangible assets	121	202	191	168	220
投資その他の資産	Investments and other assets	2,336	2,204	2,395	2,605	2,855
その他	Other	2,336	—	—	2,605	2,896
貸倒引当金	Allowance for doubtful accounts	△ 0	—	—	△ 0	△ 41

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
負債の部	Liabilities					
負債合計	Total liabilities	28,695	27,986	29,035	35,968	53,219
流動負債	Current liabilities	24,576	22,418	22,344	30,349	44,827
支払手形及び買掛金	Notes and accounts payable - trade	11,482	11,591	10,782	14,773	17,631
電子記録債務	Electronically recorded obligations - operating	2,769	2,161	1,983	3,204	3,269
短期借入金	Short-term borrowings	6,835	5,770	5,225	6,483	16,427
1年内返済予定の長期借入金	Current portion of long-term borrowings	850	225	1,800	2,275	2,352
未払法人税等	Income taxes payable	783	724	537	580	1,024
製品保証引当金	Provision for product warranties	—	—	—	—	24
受注損失引当金	Provision for loss on order received	—	—	—	—	2
その他	Other	1,856	1,945	2,014	3,032	4,094
固定負債	Non-current liabilities	4,118	5,568	6,690	5,619	8,392
長期借入金	Long-term borrowings	3,800	5,175	6,225	5,250	8,033
退職給付に係る負債	Retirement benefit liability	79	181	233	—	—
その他	Other	239	212	232	369	359
純資産の部	Net assets					
純資産合計	Total net assets	30,620	34,223	35,596	37,845	42,133
株主資本	Shareholders' equity	30,126	31,992	33,365	35,230	38,911
資本金	Share capital	4,361	4,361	4,361	4,361	4,361
資本剰余金	Capital surplus	4,861	4,867	4,868	4,872	4,874
利益剰余金	Retained earnings	21,246	23,096	24,454	26,302	29,966
自己株式	Treasury shares	△ 343	△ 332	△ 319	△ 305	△ 290
その他の包括利益累計額	Accumulated other comprehensive income	475	176	153	518	1,112
その他有価証券評価差額金	Valuation difference on available-for-sale securities	361	268	313	371	298
為替換算調整勘定	Foreign currency translation adjustment	206	107	103	247	915
退職給付に係る調整累計額	Remeasurements of defined benefit plans	△ 92	△ 199	△ 263	△ 100	△ 100
非支配株主持分	Non-controlling interests	18	2,054	2,078	2,096	2,110
負債純資産合計	Total liabilities and net assets	59,316	62,210	64,631	73,813	95,352

Consolidated Statement of Income/ Information by Segment



Consolidated Statement of Income

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
売上高	Net sales	57,077	62,336	52,812	71,604	86,412
売上原価	Cost of sales	51,283	56,179	47,518	65,027	78,325
売上総利益	Gross profit	5,794	6,157	5,293	6,576	8,087
販売費及び一般管理費	Selling, general and administrative expenses	3,820	4,114	3,913	4,822	5,416
営業利益	Operating profit	1,974	2,043	1,380	1,754	2,671
営業外収益	Non-operating income	53	60	92	46	306
受取利息	Interest income	1	2	6	10	8
受取配当金	Dividend income	10	9	10	11	11
為替差益	Foreign exchange gains	17	—	—	—	194
投資有価証券評価益	Gain on valuation of investment securities	—	—	52	—	—
受取保険金	Insurance claim income	—	25	0	—	—
保険解約返戻金	Surrender value of insurance policies	0	—	—	—	—
その他	Other	23	22	22	25	92
営業外費用	Non-operating expenses	51	101	98	78	68
支払利息	Interest expenses	20	24	16	18	41
為替差損	Foreign exchange losses	—	38	58	41	—
投資有価証券評価損	Loss on valuation of investment securities	—	28	—	—	—
売上債権売却損	Loss on sales of trade receivables	17	7	12	—	18
その他	Other	13	2	10	18	8
経常利益	Ordinary profit	1,975	2,001	1,373	1,723	2,909
特別利益	Extraordinary income	—	—	—	77	897
投資有価証券売却益	Gain on sale of investment securities	—	—	—	77	14
負ののれん発生益	Gain on bargain purchase	—	—	—	—	882
特別損失	Extraordinary losses	1	3	0	5	0
固定資産処分損	Loss on disposal of non-current assets	1	0	0	5	0
会員権評価損	Loss on valuation of membership	—	2	—	—	—
投資有価証券評価損	Loss on valuation of investment securities	0	1	—	—	—
税金等調整前四半期純利益	Profit before income taxes	1,974	1,998	1,373	1,795	3,806
法人税等	Income taxes	634	663	469	622	967
四半期純利益	Profit	1,340	1,335	904	1,172	2,839
非支配株主に帰属する四半期純利益	Profit attributable to non-controlling interests	3	28	27	27	21
親会社株主に帰属する四半期純利益	Profit attributable to owners of parent	1,336	1,307	876	1,145	2,817

Information by Segment

セグメント別業績 - Net Sales Breakdown by Business Segment

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
売上高	Net sales	57,077	62,336	52,812	71,604	86,412
デバイス事業	Electronic Devices Business	46,687	50,824	43,292	61,138	74,651
ソリューション事業	Technology Solutions Business	10,390	11,512	9,519	10,466	11,760
セグメント利益	Segment profit	1,974	2,043	1,380	1,754	2,671
デバイス事業	Electronic Devices Business	1,420	1,406	916	1,188	1,728
ソリューション事業	Technology Solutions Business	553	636	463	566	942

主要ユーザー別売上高 - Net Sales Breakdown by Major Client

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
売上高	Net sales	57,077	62,336	52,812	71,604	86,412
株式会社デンソー	DENSO CORPORATION	32,773	35,333	30,684	37,759	41,087
株式会社東海理化電機製作所	TOKAI RIKI CO., LTD.	2,150	2,262	1,743	1,973	2,525
トヨタ自動車株式会社	Toyota Motor Corporation	4,262	4,425	1,892	1,436	1,044
その他	Others	17,892	20,315	18,492	30,434	41,754

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

Consolidated Statement of Cash Flows

(百万円)	(¥ million)	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
営業活動によるキャッシュ・フロー		Cash flows from operating activities				
営業活動によるキャッシュ・フロー合計	Net cash provided by (used in) operating activities	324	908	1,245	△ 1,107	△ 6,180
税金等調整前四半期純利益	Profit before income taxes	1,974	1,998	1,373	1,795	3,806
減価償却費	Depreciation	86	96	119	137	136
負ののれん発生益	Gain on bargain purchase	—	—	—	—	△ 882
固定資産売却却損益（△は益）	Loss (gain) on sale and retirement of non-current assets	1	0	0	5	—
貸倒引当金の増減額（△は減少）	Increase (decrease) in allowance for doubtful accounts	0	△ 0	0	56	△ 1
退職給付に係る負債の増減額（△は減少）	Increase (decrease) in retirement benefit liability	△ 30	△ 21	△ 17	—	—
退職給付に係る資産の増減額（△は増加）	Decrease (increase) in retirement benefit asset	—	—	—	△ 46	△ 50
受注損失引当金の増減額（△は減少）	Increase (decrease) in provision for loss on order received	△ 11	—	—	—	—
受取利息及び受取配当金	Interest and dividend income	△ 12	△ 11	△ 16	△ 21	△ 19
支払利息	Interest expenses	20	24	16	18	41
投資有価証券売却損益（△は益）	Loss (gain) on sale of investment securities	—	—	—	△ 77	△ 14
売上債権の増減額（△は増加）	Decrease (increase) in trade receivables	365	1,455	4,368	6,149	2,179
棚卸資産の増減額（△は増加）	Decrease (increase) in inventories	△ 1,409	△ 3	△ 686	△ 5,589	△ 10,883
仕入債務の増減額（△は減少）	Increase (decrease) in trade payables	△ 248	△ 1,133	△ 3,224	△ 1,980	68
その他	Other, net	76	△ 481	△ 221	△ 1,000	511
小計	Subtotal	813	1,922	1,712	△ 554	△ 5,109
利息及び配当金の受取額	Interest and dividends received	12	12	16	22	20
利息の支払額	Interest paid	△ 20	△ 24	△ 15	△ 20	△ 41
法人税等の支払額	Income taxes paid	△ 480	△ 1,001	△ 468	△ 555	△ 1,049
投資活動によるキャッシュ・フロー		Cash flows from investing activities				
投資活動によるキャッシュ・フロー合計	Net cash provided by (used in) investing activities	△ 292	△ 133	△ 43	28	△ 1,280
定期預金の払戻による収入	Proceeds from withdrawal of time deposits	70	—	—	—	—
定期預金の預入による支出	Payments into time deposits	△ 200	—	—	—	—
投資有価証券の取得による支出	Purchase of investment securities	△ 15	△ 5	△ 5	△ 3	△ 1
投資有価証券の売却による収入	Proceeds from sale of investment securities	—	—	64	118	20
有形固定資産の取得による支出	Purchase of property, plant and equipment	△ 111	△ 80	△ 79	△ 70	△ 45
無形固定資産の取得による支出	Purchase of intangible assets	△ 39	△ 29	△ 43	△ 21	△ 43
子会社株式の取得による支出	Purchase of shares of subsidiaries resulting in change in scope of consolidation	—	—	—	—	△ 1,209
その他	Other, net	4	△ 17	21	5	△ 1
財務活動によるキャッシュ・フロー		Cash flows from financing activities				
財務活動によるキャッシュ・フロー合計	Net cash provided by (used in) financing activities	474	179	1,777	567	8,807
短期借入金の純増減額（△は減少）	Net increase (decrease) in short-term borrowings	252	233	77	1,134	6,298
長期借入れによる収入	Proceeds from long-term borrowings	700	1,250	2,400	1,300	4,060
長期借入金の返済による支出	Repayments of long-term borrowings	△ 893	△ 800	△ 150	△ 1,350	△ 950
自己株式の取得による支出	Purchase of treasury shares	—	—	△ 0	△ 0	△ 0
株式の発行による収入	Proceeds from issuance of shares	879	—	—	—	—
配当金の支払額	Dividends paid	△ 467	△ 485	△ 482	△ 442	△ 529
非支配株主からの払込みによる収入	Proceeds from share issuance to non-controlling shareholders	15	—	—	—	—
非支配株主への配当金の支払額	Dividends paid to non-controlling interests	—	△ 5	△ 34	△ 34	△ 34
その他	Other, net	△ 11	△ 13	△ 32	△ 39	△ 37
現金及び現金同等物に係る換算差額	Effect of exchange rate change on cash and cash equivalents	△ 32	△ 73	△ 20	143	479
現金及び現金同等物の増減額（△は減少）	Net increase (decrease) in cash and cash equivalents	473	881	2,959	△ 368	1,825
現金及び現金同等物の期首残高	Cash and cash equivalents at beginning of period	6,540	7,508	7,753	9,713	8,506
現金及び現金同等物の四半期末残高	Cash and cash equivalents at end of period	7,013	8,389	10,713	9,345	10,332

Consolidated Profitability/ Efficiency / Stability Indicators



Profitability Indicators

(%)		FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
売上高総利益率(A)	Gross profit on Net sales	10.2	9.9	10.0	9.2	9.4
売上高営業利益率(B)	Operating profit margin	3.5	3.3	2.6	2.5	3.1
売上高経常利益率(C)	Ordinary profit margin	3.5	3.2	2.6	2.4	3.4
売上高四半期純利益率(D)	Net profit margin	2.3	2.1	1.7	1.6	3.3

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

Efficiency Indicators

		FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
インタレスト・カバレッジ・レシオ(倍)(A)	Interest coverage ratio	97.7	84.1	83.1	97.4	64.8
期末従業員数(人)(B)	Number of employees at end of period	547	581	598	607	684
期末臨時従業員数(人)(C)	Number of temporary employees at end of period	49	56	64	81	97
1人当たり売上高(万円)(D)	Net sales per employee	9,577	9,786	7,978	10,408	11,064
1人当たり経常利益(万円)(E)	Ordinary profit per employee	332	314	208	250	373
1人当たり四半期純利益(万円)(F)	Net profit per employee	224	205	132	166	361

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)

Stability Indicators Indicators

(%)		FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
自己資本比率(A)	Equity ratio	51.6	51.7	51.9	48.4	42.0
有利子負債依存度(B)	Interest-bearing debt ratio	19.4	18.0	20.5	19.0	28.1
当座比率(C)	Acid-test ratio	157.6	185.3	182.4	143.2	99.6
流動比率(D)	Current ratio	220.5	254.8	265.5	225.0	196.0
固定比率(E)	Non-current ratio	16.7	15.8	15.8	15.4	18.7
固定長期適合率(F)	Non-current assets to Non-current liability ratio	14.8	13.5	13.2	13.3	15.5

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)

Per Share Indicators

(円) - ¥	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
期末株価 - Share price at end of period (A)	3,390	2,680	2,282	2,211	2,102
株価レンジ (直近12ヶ月の引値ベース) - Closing stock price range for the last 12 months (B)	2,892-3,990	2,557-3,385	1,860-2,932	2,155-2,830	1,851-2,365
1株当たり四半期純利益 - Earnings per share (C)	153.25	147.98	99.20	129.48	318.27
1株当たり配当金 - Dividend per share (D)	50.00	50.00	30.00	40.00	60.00

Other Indicators

	FY3/19 上半期/1H	FY3/20 上半期/1H	FY3/21 上半期/1H	FY3/22 上半期/1H	FY3/23 上半期/1H
配当金総額 (百万円) - Total amount of dividends (¥million) (E)	441	441	265	354	531
配当性向 (%) - Dividend payout ratio (%) (F)	32.6	33.8	30.2	30.9	18.9
株価収益率 (倍) - Price earnings ratio (times) (G)	11.06	9.06	11.50	8.54	3.30
期中平均株式数 (千株) - Term-average number of shares outstanding (thousand shares) (H)	8,722	8,833	8,839	8,846	8,854
株主数 (人) - Number of shareholders (persons) (I)	2,794	2,825	3,056	2,963	3,092

Notes: 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

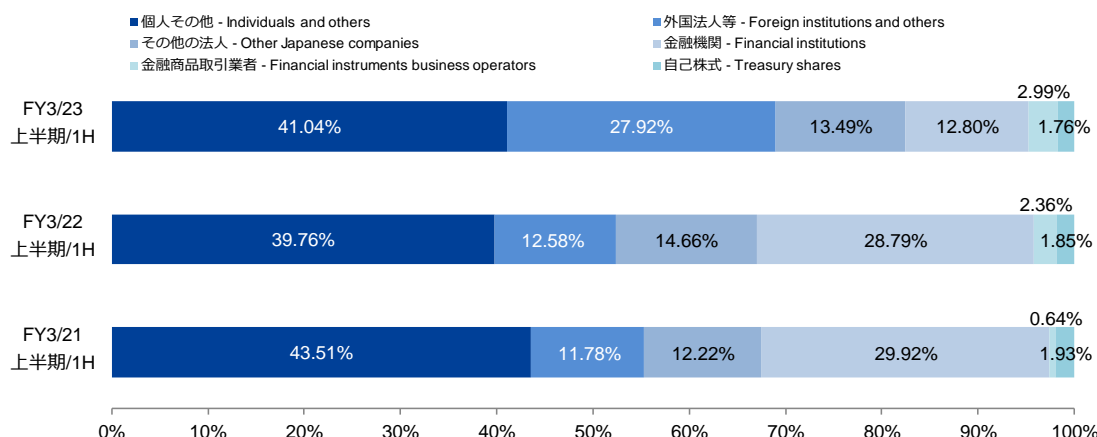
Status of Major Shareholders

as of September 30, 2022

上位10名 - Top 10 Shareholders	所有株式数 (株) Number of shares	所有株式数の割合 (%) Shareholding ratio (%)
日本マスタートラスト信託銀行株式会社 (信託口) - The Master Trust Bank of Japan, Ltd. (trust account)	1,002,700	11.32
株式会社日本カストディ銀行 (信託口) - Custody Bank of Japan, Ltd.(trust account)	700,200	7.90
有限会社スタニイ - STANY Co., Ltd.	495,250	5.59
萩原智昭 - Tomoaki Hagiwara	340,030	3.84
株式会社三菱UFJ銀行 - MUFG Bank, Ltd.	232,500	2.62
名古屋中小企業投資育成株式会社 - Nagoya Small and Medium Business Investment & Consultation Co., Ltd.	230,000	2.60
公益財団法人萩原学術振興財団 - HAGIWARA FOUNDATION OF JAPAN	230,000	2.60
BBH FOR FIDELITY LOW - PRICED STOCK FUND (PRINCIPAL ALL SECTOR SUBPORTFOLIO)	222,861	2.52
萩原電気従業員持株会 - Employees' Stockholding	193,988	2.19
三井住友信託銀行株式会社 - Sumitomo Mitsui Trust Bank, Limited	178,000	2.01

Note: Shareholding ratio is calculated excluding treasury shares (158,474 shares).

Breakdown of Type of Shareholders



A solution design company that is creating the future through advanced electronics

We aim to be a corporate group that contributes to a sustainable society by designing new value for the future of our mobility society and manufacturing through digital transformation.

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 a More Prosperous Lifestyle Through Advanced Technology

We evolve together with our customers through advanced electronics technology and logistics services

The digital revolution has finally begun to change the nature of the automobile. We help to solve our customers' problems by providing new services based on our many years of experience in the automotive industry.

Overseas Business Expansion

Supporting Your Global Expansion

Delivering value globally ~Contributing to our customers' overseas expansion and the development of local businesses~

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 Digital Society of the Future

Toward a digital society transformed by data and technology: expanding the possibilities of the future through digital transformation

We provide solutions for achieving a connected society by integrating and developing the measurement and digitalization technologies that we have cultivated in the manufacturing field, and for achieving the digital transformations that will lead to the digital society of the future.

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.

Electronic Devices Business

We evolve together with our customers through advanced electronics technology and logistics services

The digital revolution has finally begun to change the nature of the automobile. We help to solve our customers' problems by providing new services based on our many years of experience in the automotive industry.

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

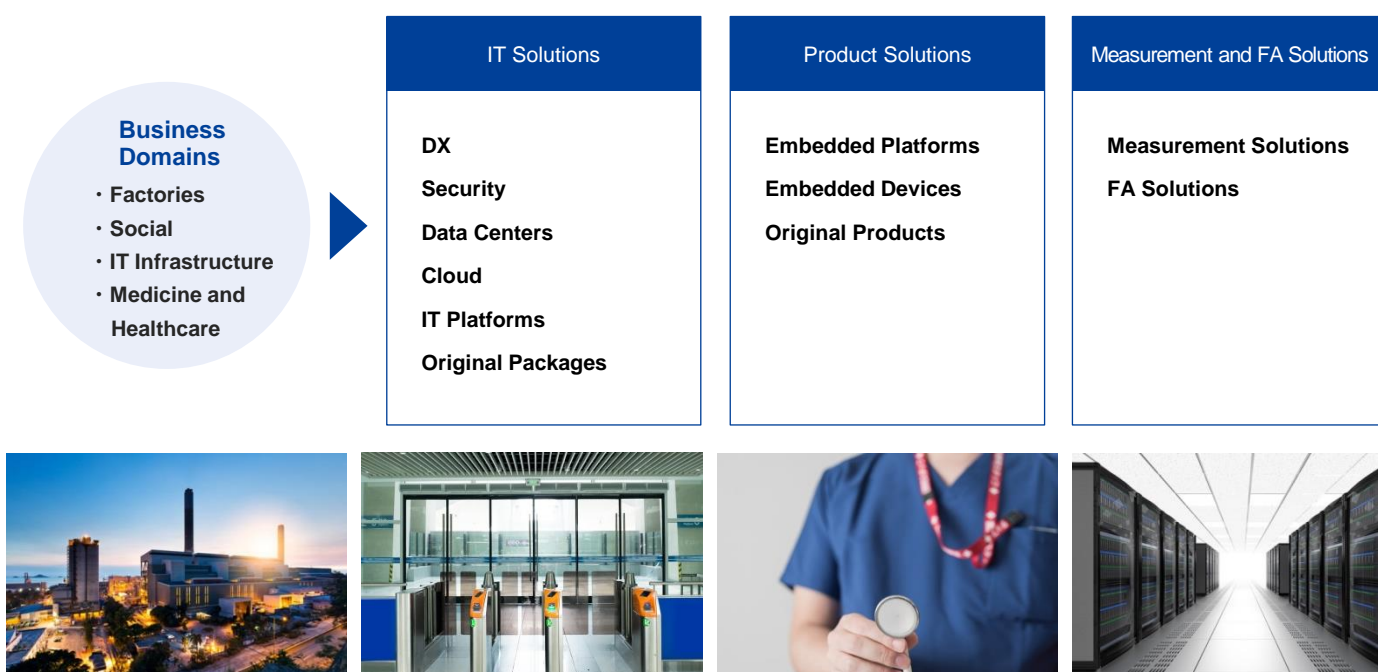
Device solutions from the Hagiwara Electric Group are utilized in factories to accelerate factory automation (FA). Additionally, our solutions are used in both the housing equipment field and the nursing care field. Our cutting-edge inventory of electronic components and ability to propose solutions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

Technology Solutions Business

Toward a digital society transformed by data and technology: expanding the possibilities of the future through digital transformation

We provide solutions for achieving a connected society
by integrating and developing the measurement and digitalization technologies
that we have cultivated in the manufacturing field,
and for achieving the digital transformations that will lead to the digital society of the future.

Solutions for Every Area



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 model-based 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. Promoting Digital Transformation and Creating New Value

Delivering new value in the data-driven digital integration and factory integration services market

We are able to utilize our experience in IT, embedded devices, measurement, and other aspects of factory automation (FA) in order to import data from various machines and objects. We create new value by processing the data we collect into meaningful information and promoting digital transformation.

Overseas Business Expansion

Delivering value globally ~Contributing to our customers' overseas expansion and the development of local businesses~

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.

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



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



Support for Failure Analysis

- Cooperation in failure classification, reproduction testing and analysis
- Follow up on failure analysis in collaboration with manufacturing partners

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



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 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
- Implementation of new algorithms in embedded systems

Corporate Profile

(Operating companies in Japan)



HAGIWARA ELECTRONICS CO., LTD.

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.

Name of Company	HAGIWARA TECHNO SOLUTIONS CO., LTD.
Location	Takaoka KANAME Building, 2-28-23 Izumi, Higashi-ku, Nagoya-shi, Aichi
Representative	Chihiro Kashima, 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 ENGINEERING CO., LTD.

Name of Company	HAGIWARA ENGINEERING CO., LTD.
Location	326, Sayamagahara, Iruma-shi, Saitama
Representative	Ken Yamauchi, President and Representative Director
Established	April 26, 1990
Share Capital	484 million yen
Major Business	Sensor devices assemble equipment, energy-related manufacturing equipment, flat panel display module assemble equipment and other automated manufacturing equipment

HAGIWARA HOKUTO TECHNO CO., LTD.

Name of Company	HAGIWARA HOKUTO TECHNO CO., LTD.
Location	Takaoka Park Building, 2-2-1 Higashi Sakura, Higashi-ku, Nagoya-shi, Aichi
Representative	Atsunori Shigenobu, President and Representative Director
Established	April 2, 2018
Share Capital	45 million yen
Equity ownership ratio	HAGIWARA ELECTRONICS CO., LTD.: 66.56% Hokuto System Co., Ltd.: 33.44%
Major Business	Consignment and services related to in-vehicle software verification and development



Contact

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