



7637

Hakudo

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Executive summary

Business overview

Hakudo Co., Ltd. (TSE Prime: 7637) is a specialist trading company that purchases non-ferrous materials such as aluminum, copper, and stainless steel, and on-sells these materials after processing them according to customer needs. Performance fluctuates in line with changing market prices on the main materials the company handles (aluminum, copper, and stainless steel) and volatility in demand from the customers who purchase these materials (such as manufacturer of semiconductor production equipment).

In the decade to FY03/24, revenue ranged from a low of JPY29.9bn (FY03/15) to a high of JPY61.6bn (FY03/23). Operating profit ranged between JPY1.7bn (FY03/16) and JPY4.3bn (FY03/22). Over this same period, OPM ranged from 4.0% (FY03/20) to 7.7% (FY03/22). In recent years, performance declined in FY03/20 because of falling semiconductor demand stemming from US–China trade friction and deterioration in non-ferrous metal prices. From 2H FY03/23 to FY03/24, performance remained affected by the external environment, characterized by a shortage of supply for semiconductor production equipment.

Revenue is based on market prices, with unit prices factoring in additional services (such as processing, delivery, and customer payment terms). In FY03/24, revenue was JPY57.3bn (-7.1% YoY). Aluminum accounted for 59.8% of this figure, copper for 14.7%, stainless steel for 20.7%, and other materials for 4.8%. For a trading company, the margin on the purchase and sale of goods is the basic source of profits. In addition, the company receives compensation for the convenience it offers (processing services and the speed of delivery) and profits from fluctuations in the purchase and selling prices of materials.

Hakudo was founded in 1932. As early as in 1968, the company introduced a computer system to manage information on customer demand, sales, and inventories. Around that time, customers began asking Hakudo to handle inventory control on their behalf, so the company began adjusting sales to provide each customer with just the amount of materials they required. Since the 1970s, the company has enhanced its factory and inventory management functions. To do so, Hakudo has expanded its facilities outside city centers and increased its product lineup. As of end-FY03/24, the company's print and online catalogs listed some 84,900 products for sale. Of this figure, around 5,400 were standard stock items (the company buys materials, which it machines and cuts into customer-required sizes and shapes) and another 79,500 or so were items stocked by other companies. To meet customers' requests for processing, the company has installed several hundred metalworking machines at its five factories throughout Japan and created a rapid-delivery system.

In addition to phone, fax, and email, the company provides estimates and accepts orders 24/7 via its online site, Hakudo Network Service. The company's customer accounts numbered around 13,000 as of FY03/21, and more than 10,000 of these were for companies registered to use the online service. Hakudo estimates that the majority of major companies handling semiconductor production equipment already have registered for this service. Hakudo handles around 20,000 inquiries and invoice requests each day and around half of these result in orders (excluding special-order items). In Japan, turnaround time (from ordering to processing and shipment) is fast. Products listed in the company catalog can often be delivered same-day or on the following day. Manufacturers of industrial machinery are key customers, as non-ferrous components are essential for their production. These manufacturers produce semiconductor fabrication equipment (Tokyo Electron Ltd. [TSE Prime: 8035], ULVAC, Inc. [TSE Prime: 6728], and their affiliates), OA equipment (Canon Inc. [TSE Prime: 7751], Ricoh Company, Ltd. [TSE Prime: 7752], and their affiliates), and precision instruments.

The company uses a proprietary computer system to determine selling prices for each customer. Prices are based on such factors as the quality of materials, market prices at the time of transaction, product quantity, processing details, customer order history, payment method, and the customer's creditworthiness. For products in the company's standard inventory, selling prices of aluminum products are affected significantly by the market price of aluminum at the time of sale. Similarly, the market price of electrolytic copper affects the selling price of copper products in standard inventory. Accordingly, the company faces the risk of valuation losses when it sells products as market prices are falling. The cost of manufacturing consists of the price of purchased parts and materials and the cost of processing them according to customer requirements. Major components of SG&A spending are the expenses of human resources in sales and administrative departments (390 employees as of end-FY03/24, of whom around 120 were in sales) and transportation expenses. The company reports segment information by geographic location. In FY03/24, Japan accounted for 87.2% of revenue, North America for 8.0%, China for 2.4%, and other locations for 2.5%. Similarly, Japan accounted for 104.1% of segment profit, North America for -8.1%, China for -1.5%, and other locations for 5.6%.

The company's business is based on carrying inventory and leveraging the customer information it amasses to achieve short delivery times, but inventory turnover is relatively low: 4.6x in FY03/24 (around 2.6 months in inventory), which is far lower

than the wholesale industry average of about 16.0x (Ministry of Economy, Trade and Industry). To increase profitability, the company adds value to its products through various types of processing. The company seeks to distinguish itself by handling a large number of items (84,900 including standard stock items, items produced to order, and special-order items) and achieving short delivery times while maintaining a processing function. Hakudo says this business model is rare for a trading company specializing in non-ferrous metals. One similar company, in terms of the standard stock item business, is UEX, Ltd. (TSE Standard: 9888). Alconix Corporation (TSE Prime: 3036) is similar to Hakudo in terms of special-order items.

As part of its efforts to address ESG/SDGs, the company has established an ESG/SDG management committee led by senior management. The company explains that by expanding the use of non-ferrous and environmentally friendly materials such as aluminum and cadmium-free brass, and by promoting their alternative use, it aims to help realize a low-carbon society and reduce industrial waste through recycling.

Earnings trends

In FY03/24, revenue was JPY57.3bn (-7.1% YoY), operating profit was JPY2.5bn (-33.2% YoY), recurring profit was JPY2.8bn (-28.6% YoY), and net income attributable to parent company shareholders was JPY1.9bn (-30.0% YoY). The decrease in revenue was due to a continued slowdown in the semiconductor production equipment industry, which led to reduced sales volumes. The company expanded the product range of Hakudo Net Service from 50,900 items at end-March 2023 to 84,900 items by end-March 2024 for more convenience. Operating profit decreased due to a decline in sales volumes caused by the downturn in the semiconductor production equipment industry and rising costs, including freight and electricity charges.

The company's full-year FY03/25 forecast calls for revenue of JPY64.1bn (+12.0% YoY), operating profit of JPY3.1bn (+21.3% YoY), recurring profit of JPY3.2bn (+12.4% YoY), and net income of JPY2.1bn (+11.7% YoY). At the time of the Q1 results announcement, the company revised its 1H forecast upward but left the full-year forecast unchanged. The company expects the semiconductor production equipment industry, which significantly impacts the group's performance, to recover, although it does not expect a full-scale recovery until 2H FY03/25. In the machine tool industry, demand remains sluggish, particularly for exports, while in the aerospace industry, the company expects recovery in demand for commercial aircraft and steady progress in defense-related orders. Furthermore, due to the difficulty in projecting raw material market conditions, the company included the impact on inventory assets up to Q1.

Hakudo released its first medium-term management plan on May 26, 2022 (FY03/22–FY03/25) with a subtitle of "Moving forward, exceeding expectations." The company's long-term goal is to be a platform operator working to support the manufacturing industry, with sales of JPY100.0bn, recurring profit of JPY10.0bn, and an overseas sales ratio of 20% by FY03/32. The medium-term management plan comprises guidelines for the company to achieve this, with management targets for the final year of the plan calling for revenue of JPY71.8bn (average growth rate of 9.0% over the plan period) and recurring profit of JPY5.4bn (7.3%), and key financial plan indexes being ROIC of 15%, operating cash flow of JPY4.7bn, and a dividend payout ratio of 40.0%. The company plans to cultivate its existing business in Japan, develop new businesses, and expand its overseas network.

Strengths and weaknesses

Strengths:

- 1) In addition to its inventory function (as a trading company), the company has a processing function, which helps lower customers' manufacturing costs.
- 2) The Hakudo Network Service is a highly convenient service that enables immediate order placement and delivery, using such data as market prices, processing costs, and customer information.
- 3) Accumulated customer data allows the company to manage inventories and control processing costs.

Weaknesses:

- 1) Impact from conditions in raw material markets is liable to grow because the company frequently serves specific customer groups.
- 2) A focus on small order quantities and rapid deliveries makes it difficult to achieve economies of scale in logistics and control logistics costs.
- 3) The company has limited ability to meet the needs of Japanese customers that are expanding overseas.

Key financial data

Income statement (JPYmn)	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24	FY03/25
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Est.
Revenue	29,923	32,461	34,627	43,709	45,228	41,798	39,219	55,441	61,602	57,253	64,100
YoY	17.0%	8.5%	6.7%	26.2%	3.5%	-7.6%	-6.2%	41.4%	11.1%	-7.1%	-7.1%
Gross profit	5,487	5,345	6,014	7,527	7,201	6,489	6,670	10,310	10,153	9,268	
YoY	17.2%	-2.6%	12.5%	25.1%	-4.3%	-9.9%	2.8%	54.6%	-1.5%	-8.7%	
Gross profit margin	18.3%	16.5%	17.4%	17.2%	15.9%	15.5%	17.0%	18.6%	16.5%	16.2%	
Operating profit	2,038	1,707	1,986	2,785	2,250	1,659	1,982	4,256	3,777	2,523	3,060
YoY	22.4%	-16.3%	16.3%	40.3%	-19.2%	-26.3%	19.5%	114.7%	-11.2%	-33.2%	21.3%
Operating profit margin	6.8%	5.3%	5.7%	6.4%	5.0%	4.0%	5.1%	7.7%	6.1%	4.4%	4.8%
Recurring profit	2,073	1,750	2,043	2,846	2,334	1,697	2,083	4,374	3,989	2,848	3,200
YoY	21.7%	-15.5%	16.7%	39.3%	-18.0%	-27.3%	22.8%	109.9%	-8.8%	-28.6%	12.4%
Recurring profit margin	6.9%	5.4%	5.9%	6.5%	5.2%	4.1%	5.3%	7.9%	6.5%	5.0%	5.0%
Net income	1,351	1,195	1,405	2,028	1,565	1,149	1,282	2,964	2,738	1,917	2,140
YoY	27.4%	-11.6%	17.6%	44.3%	-22.8%	-26.6%	11.6%	131.2%	-7.6%	-30.0%	11.7%
Net margin	4.5%	3.7%	4.1%	4.6%	3.5%	2.7%	3.3%	5.3%	4.4%	3.3%	3.3%
Per-share data (split-adjusted; JPY)											
No. of shares outstanding(000 shares)	12,840	11,343	11,343	11,343	11,343	11,343	11,343	11,343	11,343	11,343	
EPS (JPY)	105.4	105.3	123.9	178.8	138.0	101.3	113.0	261.3	241.4	169.0	188.7
EPS (fully diluted; JPY)	-	-	-	-	-	-	-	-	-	-	
Dividend per share (JPY)	48.0	45.0	58.5	75.0	77.0	58.0	58.0	115.0	109.0	80.0	85.0
Book value per share (JPY)	1,193	1,235	1,305	1,434	1,493	1,506	1,576	1,748	1,870	1,982	
Balance sheet(JPYmn)											
Cash and cash equivalents	4,301	4,256	4,820	5,902	6,088	4,969	5,924	8,675	6,038	5,701	
Total current assets	19,119	19,060	21,758	26,740	25,343	23,695	24,851	33,616	33,830	32,128	
Tangible fixed assets	5,236	5,317	5,977	6,487	6,835	6,608	6,370	6,098	6,250	6,653	
Investments and other assets	597	575	650	982	1,031	1,355	1,492	1,558	1,656	1,812	
Intangible assets	239	217	219	261	407	412	402	509	1,414	1,423	
Total assets	25,191	25,169	28,604	34,191	33,616	32,071	33,115	41,781	43,150	42,016	
Short-term debt	-	-	-	-	357	-	-	-	351	-	
Total current liabilities	11,636	11,133	13,772	17,900	16,630	14,946	15,190	21,903	21,768	19,420	
Long-term debt	-	-	-	-	-	-	-	-	-	-	
Total fixed liabilities	29	31	31	30	58	44	56	48	152	114	
Total liabilities	11,665	11,163	13,804	17,930	16,688	14,990	15,246	21,952	21,920	19,535	
Shareholders' equity	13,526	14,006	14,801	16,261	16,928	17,081	17,870	19,829	21,229	22,481	
Total net assets	13,526	14,006	14,801	16,261	16,928	17,081	17,870	19,829	21,229	22,481	
Total liabilities and net assets	25,191	25,169	28,604	34,191	33,616	32,071	33,115	41,781	43,150	42,016	
Total interest-bearing debt	-	-	-	-	357	-	-	-	351	-	
Cash flow statement(JPYmn)											
Cash flows from operating activities	1,255	1,269	2,414	3,103	2,074	1,503	2,128	4,556	321	2,528	
Cash flows from investing activities	-337	86	-1,301	-1,379	-1,028	-1,367	-553	-677	-1,553	-1,612	
Cash flows from financing activities	-1,990	-544	-511	-664	-850	-1,230	-657	-1,202	-1,417	-1,329	
Financial ratios											
ROA (RP-based)	8.6%	7.0%	7.6%	9.1%	6.9%	5.2%	6.4%	11.7%	9.4%	6.7%	
ROE	9.8%	8.7%	9.8%	13.1%	9.4%	6.8%	7.3%	15.7%	13.3%	8.8%	
Equity ratio	53.7%	55.6%	51.7%	47.6%	50.4%	53.3%	54.0%	47.5%	49.2%	53.5%	
Total asset turnover	123.6%	128.9%	128.8%	139.2%	133.4%	127.3%	120.3%	148.0%	145.1%	134.5%	
Net margin	4.5%	3.7%	4.1%	4.6%	3.5%	2.7%	3.3%	5.3%	4.4%	3.3%	

Source: Shared Research based on company data

Notes: Figures may differ from company materials due to differences in rounding methods.

Recent updates

Revisions to 1H earnings and dividend forecasts

2024-08-09

On August 9, 2024, Hakudo Co., Ltd. announced that it has revised its 1H earnings and dividend forecasts, previously announced on May 10, 2024, in light of recent performance trends.

Details of the revision

Consolidated earnings forecast for 1H

- Revenue: JPY31.8bn (+JPY1.0bn from the previous forecast of JPY30.8bn)
- Operating profit: JPY1.6bn (+JPY160mn from the previous forecast of JPY1.4bn)
- Recurring profit: JPY1.8bn (+JPY280mn from the previous forecast of JPY1.5bn)
- Net income attributable to owners of the parent: JPY1.2bn (+JPY220mn from the previous forecast of JPY1.0bn)
- Interim dividend: JPY49.00 per share (+JPY9.00 from the previous forecast of JPY40.00)

Reason for revision and full-year forecast

Demand in the semiconductor production equipment industry, which significantly impacts the group's performance, partially recovered during Q1, driven by the growing demand for semiconductors used in generative AI and increased investment demand in semiconductor equipment in China. Additionally, rising metal prices drove the company's decision to revise its non-consolidated earnings forecast upward from the figures announced on May 10, 2024.

Based on the revised 1H earnings forecast, the company has also adjusted the interim dividend per share from the previous forecast of JPY40.00 to JPY49.00, in line with its dividend policy. However, the company left its full-year dividend forecast unchanged at JPY85.00 per share.

The company maintained its full-year forecast, considering recent interest rate increases in Japan, sharp fluctuations in exchange rates, significant stock price volatility, and ongoing uncertainty in raw material markets. For more details, please refer to the company's official release.

Trends and outlook

Quarterly trends and results

Earnings (cumulative)	FY03/23				FY03/24				FY03/25	FY03/25			
(JPYmn)	Q1	Q1-Q2	Q1-Q3	Q1-Q4	Q1	Q1-Q2	Q1-Q3	Q1-Q4	Q1	% of forecast	1H Est.	% of forecast	FY Est.
Revenue	16,063	31,775	47,379	61,602	14,718	28,709	42,931	57,253	15,746	49.5%	31,800	24.6%	64,100
YoY	27.1%	23.1%	17.1%	11.1%	-8.4%	-9.6%	-9.4%	-7.1%	7.0%		10.8%		12.0%
Gross profit	2,801	5,403	7,874	10,153	2,211	4,561	6,922	9,268	2,678				
YoY	18.1%	11.5%	4.0%	-1.5%	-21.1%	-15.6%	-12.1%	-8.7%	21.1%				
Gross profit margin	17.4%	17.0%	16.6%	16.5%	15.0%	15.9%	16.1%	16.2%	17.0%				
SG&A expenses	1,589	3,181	4,707	6,375	1,660	3,341	5,036	6,744	1,809				
YoY	14.9%	9.4%	6.0%	5.3%	4.5%	5.0%	7.0%	5.8%	9.0%				
SG&A ratio	9.9%	10.0%	9.9%	10.3%	11.3%	11.6%	11.7%	11.8%	11.5%				
Operating profit	1,213	2,222	3,167	3,777	551	1,220	1,886	2,523	869	55.7%	1,560	28.4%	3,060
YoY	22.5%	14.5%	1.1%	-11.2%	-54.6%	-45.1%	-40.4%	-33.2%	57.7%		27.8%		21.3%
Operating profit margin	7.5%	7.0%	6.7%	6.1%	3.7%	4.3%	4.4%	4.4%	5.5%				4.8%
Recurring profit	1,273	2,360	3,370	3,989	687	1,420	2,201	2,848	996	56.0%	1,780	31.1%	3,200
YoY	23.5%	18.4%	4.8%	-8.8%	-46.0%	-39.8%	-34.7%	-28.6%	44.9%		25.4%		12.4%
Recurring profit margin	7.9%	7.4%	7.1%	6.5%	4.7%	4.9%	5.1%	5.0%	6.3%		5.6%		5.0%
Net income	888	1,643	2,289	2,738	474	985	1,512	1,917	688	56.4%	1,220	32.2%	2,140
YoY	23.8%	21.2%	4.6%	-7.6%	-46.7%	-40.1%	-33.9%	-30.0%	45.3%		23.8%		11.7%
Net margin	5.5%	5.2%	4.8%	4.4%	3.2%	3.4%	3.5%	3.3%	4.4%		3.8%		3.3%
Quarterly performance	FY03/23				FY03/24				FY03/25				
(JPYmn)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1				
Revenue	16,063	15,713	15,604	14,223	14,718	13,992	14,221	14,322	15,746				
YoY	27.1%	19.2%	6.5%	-5.0%	-8.4%	-11.0%	-8.9%	0.7%	7.0%				
Gross profit	2,801	2,602	2,471	2,278	2,211	2,350	2,361	2,346	2,678				
YoY	18.1%	5.1%	-9.3%	-16.8%	-21.1%	-9.7%	-4.5%	3.0%	21.1%				
Gross profit margin	17.4%	16.6%	15.8%	16.0%	15.0%	16.8%	16.6%	16.4%	17.0%				
SG&A expenses	1,589	1,593	1,526	1,668	1,660	1,680	1,695	1,708	1,809				
YoY	14.9%	4.5%	-0.4%	3.3%	4.5%	5.5%	11.1%	2.4%	9.0%				
SG&A ratio	9.9%	10.1%	9.8%	11.7%	11.3%	12.0%	11.9%	11.9%	11.5%				
Operating profit	1,213	1,009	945	611	551	669	665	637	869				
YoY	22.5%	6.1%	-20.6%	-45.7%	-54.6%	-33.6%	-29.6%	4.4%	57.7%				
Operating profit margin	7.5%	6.4%	6.1%	4.3%	3.7%	4.8%	4.7%	4.5%	5.5%				
Recurring profit	1,273	1,087	1,010	619	687	732	782	646	996				
YoY	23.5%	12.9%	-17.4%	-46.5%	-46.0%	-32.6%	-22.6%	4.3%	44.9%				
Recurring profit margin	7.9%	6.9%	6.5%	4.4%	4.7%	5.2%	5.5%	4.5%	6.3%				
Net income	888	755	646	449	474	511	527	404	688				
YoY	23.8%	18.4%	-22.4%	-42.2%	-46.7%	-32.3%	-18.3%	-9.8%	45.3%				
Net margin	5.5%	4.8%	4.1%	3.2%	3.2%	3.7%	3.7%	2.8%	4.4%				

Source: Shared Research based on company data

Notes: Figures may differ from company materials due to differences in rounding methods.

Results by segment

By segment (cumulative)	FY03/23				FY03/24				FY03/25
(JPYmn)	Q1	Q1-Q2	Q1-Q3	Q1-Q4	Q1	Q1-Q2	Q1-Q3	Q1-Q4	Q1
Revenue	16,063	31,775	47,379	61,602	14,718	28,709	42,931	57,253	15,746
YoY	27.1%	23.1%	17.1%	11.1%	-8.4%	-9.6%	-9.4%	-7.1%	7.0%
Japan	15,414	30,305	45,268	58,804	12,937	25,115	37,482	49,901	13,490
YoY	28.3%	23.3%	17.5%	11.3%	-16.1%	-17.1%	-17.2%	-15.1%	4.3%
% of revenue	96.0%	95.4%	95.5%	95.5%	87.9%	87.5%	87.3%	87.2%	85.7%
North America	-	-	-	-	1,154	2,321	3,470	4,586	1,296
YoY	-	-	-	-	-	-	-	-	12.3%
% of revenue	-	-	-	0.0%	7.8%	8.1%	8.1%	8.0%	8.2%
China	357	876	1,214	1,582	296	614	965	1,361	559
YoY	-14.8%	6.7%	-5.5%	-8.0%	-17.1%	-29.9%	-20.5%	-14.0%	88.9%
% of revenue	2.2%	2.8%	2.6%	2.6%	2.0%	2.1%	2.2%	2.4%	3.6%
Other	290	593	896	1,217	328	658	1,012	1,406	399
YoY	47.2%	41.5%	36.0%	37.9%	13.1%	11.0%	12.9%	15.5%	21.6%
% of revenue	1.8%	1.9%	1.9%	2.0%	2.2%	2.3%	2.4%	2.5%	2.5%
Operating profit	1,213	2,222	3,167	3,777	551	1,220	1,886	2,523	869
YoY	22.5%	14.5%	1.1%	-11.2%	-54.6%	-45.1%	-40.4%	-33.2%	57.7%
Japan	1,184	2,145	3,071	3,810	548	1,211	1,917	2,627	855
YoY	26.0%	16.1%	2.6%	-7.2%	-53.7%	-43.5%	-37.6%	-31.0%	56.0%
Operating profit margin	7.7%	7.1%	6.8%	6.5%	4.2%	4.8%	5.1%	5.3%	6.3%
% of operating profit	97.7%	96.6%	97.0%	100.9%	99.5%	99.3%	101.6%	104.1%	98.4%
North America	-	-	-	-126	-35	-54	-108	-205	-31
YoY	-	-	-	-	-	-	-	-	-
Operating profit margin	-	-	-	-	-	-	-	-	-
% of operating profit	-	-	-	-	-	-	-	-	-
China	-11	10	7	-	-6	-17	-32	-39	-5
YoY	-	-73.7%	-88.3%	-	-	-	-	-	-
Operating profit margin	-	1.1%	0.6%	-	-	-	-	-	-
% of operating profit	-	0.5%	0.2%	-	-	-	-	-	-
Other	39	65	88	93	44	80	110	141	50
YoY	18.2%	25.0%	14.3%	14.8%	12.8%	23.1%	25.0%	51.6%	13.6%
Operating profit margin	13.4%	11.0%	9.8%	7.6%	13.4%	12.2%	10.9%	10.0%	12.5%
% of operating profit	3.2%	2.9%	2.8%	2.5%	8.0%	6.6%	5.8%	5.6%	5.8%
By segment (quarterly)	FY03/23				FY03/24				FY03/25
(JPYmn)	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Revenue	16,063	15,713	15,604	14,223	14,718	13,992	14,221	14,322	15,746
YoY	27.1%	19.2%	6.5%	-5.0%	-8.4%	-11.0%	-8.9%	0.7%	7.0%
Japan	15,414	14,891	14,963	13,536	12,937	12,178	12,367	12,419	13,490
YoY	28.3%	18.6%	7.2%	-5.4%	-16.1%	-18.2%	-17.3%	-8.3%	4.3%

% of revenue	96.0%	94.8%	95.9%	95.2%	87.9%	87.0%	87.0%	86.7%	85.7%
North America				-	1,154	1,167	1,149	1,116	1,296
YoY				-	-	-	-	-	12.3%
% of revenue				0.0%	7.8%	8.3%	8.1%	7.8%	8.2%
China	357	519	338	368	296	318	351	396	559
YoY	-14.8%	29.1%	-27.2%	-15.4%	-17.1%	-38.7%	3.8%	7.6%	88.9%
% of revenue	2.2%	3.3%	2.2%	2.6%	2.0%	2.3%	2.5%	2.8%	3.6%
Other	290	303	303	321	328	330	354	394	399
YoY	47.2%	36.5%	26.3%	43.6%	13.1%	8.9%	16.8%	22.7%	21.6%
% of revenue	1.8%	1.9%	1.9%	2.3%	2.2%	2.4%	2.5%	2.7%	2.5%
Operating profit	1,213	1,009	945	611	551	669	665	637	869
YoY	22.5%	6.1%	-20.6%	-45.7%	-54.6%	-33.6%	-29.6%	4.4%	57.7%
Japan	1,184	961	926	739	548	663	706	710	855
YoY	26.0%	5.8%	-19.1%	-33.5%	-53.7%	-31.0%	-23.8%	-3.9%	56.0%
Operating profit margin	7.7%	6.5%	6.2%	5.5%	4.2%	5.4%	5.7%	5.7%	6.3%
% of operating profit	97.7%	95.3%	97.9%	121.0%	99.5%	99.1%	105.8%	111.5%	98.4%
North America				-126	-35	-19	-54	-97	-31
YoY				-	-	-	-	-	-
Operating profit margin				-	-	-	-	-	-
% of operating profit				-	-	-	-	-	-
China	-11	21	-3	-7	-6	-11	-15	-7	-5
YoY	-	-8.7%	-	-	-	-	-	-	-
Operating profit margin	-	4.0%	-	-	-	-	-	-	-
% of operating profit	-	2.1%	-	-	-	-	-	-	-
Other	39	26	23	5	44	36	30	31	50
YoY	18.2%	36.8%	-8.0%	25.0%	12.8%	38.5%	30.4%	520.0%	13.6%
Operating profit margin	13.4%	8.6%	7.6%	1.6%	13.4%	10.9%	8.5%	7.9%	12.5%
% of operating profit	3.2%	2.6%	2.4%	0.8%	8.0%	5.4%	4.5%	4.9%	5.8%

Source: Shared Research based on company data

Note: Figures may differ from company materials due to differences in rounding methods.

Q1 FY03/25 results

Summary

- Revenue: JPY15.7bn (+7.0% YoY)
- Operating profit: JPY869mn (+57.7% YoY)
- Recurring profit: JPY996mn (+44.9% YoY)
- Net income attributable to owners of the parent: JPY688mn (+45.3% YoY)

Changes in market conditions and demand

In the semiconductor production equipment industry, which significantly impacts the company's group performance, there were signs of a partial recovery driven by increased capital investment demand for generative AI and semiconductor equipment in China. Additionally, there were indications that the inventory and production adjustments by semiconductor manufacturers, prompted by the slowdown in demand for smartphones and PCs, were bottoming out. In the aerospace industry, demand for commercial aircraft recovered, and government demand, especially in defense, remained strong. However, in the machine tool industry, demand recovery was delayed due to concerns about global inflation and high interest rates.

The company focused on improving order rates through efforts to enhance quality and service. It also worked on developing new customers and reactivating dormant ones, particularly in the aerospace and automotive industries, which it considers growth areas. Additionally, the group prioritized introducing and expanding new products, such as draw-processed items and environmentally friendly Eco-Series products.

The company has been focused on expanding its 24/7 online quoting and ordering platform, Hakudo Net Service. It increased the number of available products on the website from 84,900 items at end-March 2024 to 102,800 items as of end-June 2024, to further enhance customer convenience.

Overview of revenue and operating profit

Revenue rose by 7.0% YoY, driven by higher product prices, including standard stock items, as well as increased sales volumes in the semiconductor production equipment industry, supported by growing demand for generative AI-related products and in the Chinese market.

As of end-June 2024, market prices for key raw materials had risen to JPY1,570,000/t for electrolytic copper (+JPY200,000/t from end-March 2024) and to JPY477,000/t for aluminum ingots (+JPY77,000/t), based on monthly averages reported by Nikkei. Market prices for stainless steel sheets remained flat at JPY600,000/t, according to monthly average from Tekko Shimbun.

Gross profit increased by 21.1% YoY to JPY2.7bn, with the gross profit margin improving by 2.0pp to 17.0%. This was mainly due to higher sales of high-margin standard stock items, increased gross profit per unit, and a larger inventory valuation gain resulting from fluctuations in the market prices of raw materials. SG&A expenses rose by 9.0% YoY to JPY1.8bn, driven by higher transportation and personnel expenses. As a result, operating profit grew by 57.7% YoY, with the operating profit margin improving by 1.8pp to 5.5%. In Q1, the inventory valuation gain was JPY43mn, compared to a loss of JPY2mn in the same period of the previous year.

Performance by segment

- Japan: Segment revenue of JPY13.5bn (+4.3% YoY), operating profit of JPY855mn (+56.0% YoY)
- North America: Segment revenue of JPY1.3bn (+12.3% YoY), operating loss of JPY31mn (loss of JPY35mn in Q1 FY03/24)
- China: Segment revenue of JPY559mn (+88.9% YoY), operating loss of JPY5mn (loss of JPY6mn in Q1 FY03/24)
- Others: Segment revenue of JPY399mn (+21.6% YoY), operating profit of JPY50mn (+13.6% YoY)

Hakudo's reporting segments indicate where its earnings were generated.

The Japan segment results mainly consist of the performance of the parent company and AQR Co., Ltd. In Q1, there was a significant improvement in profitability. Alongside the recovery in the parent company's performance, AQR saw increased sales volume in the semiconductor production equipment industry, contributing to YoY revenue growth. Segment profit rose by 56.0% YoY, with the profit margin improving by 2.1pp to 6.3%, driven by a higher sales mix of high-margin standard stock items.

The North America segment results (disclosed from FY03/23) consist of the performance of Hakudo USA Inc. and its subsidiary, West Coast Aluminum & Stainless, LLC (WCAS). In Q1, WCAS, which primarily handles stainless steel products, saw an increase in revenue and a reduction in operating loss.

The China segment results reflect the performance of Shanghai Hakudo Precision Materials Co., Ltd. (Shanghai Hakudo). In Q1, while Shanghai Hakudo's revenue increased due to currency fluctuations and higher market prices, the improvement in losses remained limited.

The Other segment comprises the performance of Hakudo (Thailand) Co., Ltd. (Hakudo Thailand). In Q1, Hakudo Thailand performed steadily, particularly in the automotive industry, with revenue increasing by 21.6% YoY. Segment profit rose by 13.6% YoY, though the profit margin declined by 0.9pp YoY to 12.5% due to changes in the composition of special-order items.

Full-year company forecasts

(JPYmn)	FY03/23			FY03/24			FY03/25		
	1H Act.	2H Act.	FY Act.	1H Act.	2H Act.	FY Act.	1H Est.	2H Est.	FY Est.
Revenue	31,775	29,827	61,602	28,709	28,544	57,253	31,800	32,300	64,100
YoY	23.1%	0.7%	11.1%	-9.6%	-4.3%	-7.1%	10.8%	13.2%	12.0%
Cost of revenue	26,372	25,077	51,450	24,148	23,837	47,985			
Gross profit	5,403	4,750	10,153	4,561	4,707	9,268			
YoY	11.5%	-13.0%	-1.5%	-15.6%	-0.9%	-8.7%			
Gross profit margin	17.0%	15.9%	16.5%	15.9%	16.5%	16.2%			
SG&A expenses	3,181	3,194	6,375	3,341	3,404	6,744			
YoY	9.4%	1.5%	5.3%	5.0%	6.6%	5.8%			
SG&A ratio	10.0%	10.7%	10.3%	11.6%	11.9%	11.8%			
Operating profit	2,222	1,556	3,777	1,220	1,303	2,523	1,560	1,500	3,060
YoY	14.5%	-32.8%	-11.2%	-45.1%	-16.3%	-33.2%	27.8%	15.1%	21.3%
Operating profit margin	7.0%	5.2%	6.1%	4.3%	4.6%	4.4%	4.9%	4.6%	4.8%
Recurring profit	2,360	1,629	3,989	1,420	1,428	2,848	1,780	1,420	3,200
YoY	18.4%	-31.6%	-8.8%	-39.8%	-12.3%	-28.6%	25.4%	-0.5%	12.4%
Recurring profit margin	7.4%	5.5%	6.5%	4.9%	5.0%	5.0%	5.6%	4.4%	5.0%
Net income	1,643	1,094	2,738	985	932	1,917	1,220	920	2,140
YoY	21.2%	-32.0%	-7.6%	-40.1%	-14.9%	-30.0%	23.8%	-1.2%	11.7%
Net margin	5.2%	3.7%	4.4%	3.4%	3.3%	3.3%	3.8%	2.8%	3.3%

The company announced its full-year FY03/25 earnings forecast on May 10, 2024.

In Q1, the company announced an upward revision to its 1H earnings forecast, driven by a partial recovery in the semiconductor production equipment industry and rising metal prices due to surging raw material costs and yen depreciation.

The company left the full-year earnings forecast unchanged, considering the recent rise in interest rates in Japan, sharp fluctuations in exchange rates and stock prices, and uncertainties in raw material markets. Shared Research surmises that the

upward revision of 1H forecast has led to a more conservative outlook for 2H compared to 1H. The details of the full-year forecast are as follows.

- Revenue: JPY64.1bn (+12.0% YoY)
- Operating profit: JPY3.1bn (+21.3% YoY)
- Recurring profit: JPY3.2bn (+12.4% YoY)
- Net income attributable to owners of the parent: JPY2.1bn (+11.7% YoY)
- Net income per share: JPY188.68 (Previous period result: JPY168.99)

Due to soaring resource and energy prices, the depreciation of the yen leading to inflation, and delays in the relaxation of stringent financial policies primarily in Western countries, the business environment faces increased uncertainty and heightened risk aversion.

An adjustment phase is continuing in the semiconductor production equipment industry, although semiconductor demand expansion is forecast in the longer term due to the growth of IoT, DX, generative AI, and EV markets. The company assumes recovery will start in the semiconductor production equipment-related business in 2H FY03/25. Demand (mainly for export) also remains subdued in the machine tool business, but in the aircraft business, the company expects demand for commercial aircraft and public-sector demand (mainly defense-related) to pick up. The company plans to continue collaborating with Oristar Corporation in Vietnam.

On the profit front, the company plans to enhance profitability by strengthening cost management per unit of weight. The company also plans to make efforts to optimize delivery costs by switching to in-house delivery services and adjusting shipping schedules. The company has not disclosed forecasts by segment.

The company has not factored the impact of inventory assets for Q2 and beyond in the above earnings forecast. Additionally, in February 2024, the company revised its dividend policy. Under the new policy, the company will pay dividends based on a payout ratio of 45% or an annual minimum dividend of JPY80 per share, whichever is higher (see "Dividend policy" section for details).

Historical differences between initial company forecasts and results

Results vs. Initial Est. (JPYmn)	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Revenue (Initial Est.)	27,000	31,800	33,200	36,900	46,000	45,400	39,000	48,000	62,100	63,200
Revenue (Results)	29,923	32,461	34,627	43,709	45,228	41,798	39,219	55,441	61,602	57,253
Results vs. Initial Est.	10.8%	2.1%	4.3%	18.5%	-1.7%	-7.9%	0.6%	15.5%	-0.8%	-9.4%
Operating profit (Initial Est.)	1,720	2,100	2,050	2,240	2,990	2,330	1,500	2,920	3,970	2,970
Operating profit (Results)	2,038	1,707	1,986	2,785	2,250	1,659	1,982	4,256	3,777	2,523
Results vs. Initial Est.	18.5%	-18.7%	-3.1%	24.3%	-24.8%	-28.8%	32.1%	45.8%	-4.9%	-15.0%
Recurring profit (Initial Est.)	1,770	2,160	2,100	2,310	3,050	2,410	1,560	3,000	4,080	3,180
Recurring profit (Results)	2,073	1,750	2,043	2,846	2,334	1,697	2,083	4,374	3,989	2,848
Results vs. Initial Est.	17.1%	-19.0%	-2.7%	23.2%	-23.5%	-29.6%	33.6%	45.8%	-2.2%	-10.5%
Net income (Initial Est.)	1,100	1,440	1,410	1,570	2,070	1,630	1,070	2,070	2,860	2,150
Net income (Results)	1,351	1,195	1,405	2,028	1,565	1,149	1,282	2,964	2,738	1,917
Results vs. Initial Est.	22.8%	-17.0%	-0.3%	29.2%	-24.4%	-29.5%	19.8%	43.2%	-4.3%	-10.9%

Source: Shared Research based on company data

Substantial differences between forecasts and results occurred in FY03/13 and from FY03/18 to FY03/22.

In FY03/13, as in the previous year, Japanese manufacturing capex was sluggish due to a global economic slowdown caused by yen appreciation and the European financial crisis.

In FY03/18, brisk sales to customers in the semiconductor production equipment industry (a key customer segment) led to higher-than-expected revenue. Profit outstripped company expectations, due to higher revenue and favorable raw materials prices. Performance declined in FY03/19, rebounding negatively from strong performance in semiconductors the year before. Semiconductor memory prices fell, the supply/demand gap loosened, and capex in the semiconductor industry entered an adjustment phase. The LCD manufacturing equipment industry also decelerated rapidly. In FY03/20, semiconductor demand was sluggish as a result of US—China trade friction, causing lackluster results in the semiconductor production equipment sector. These factors, plus a deterioration in raw materials prices, lowered company profits.

In FY03/21, the company expected performance to be affected significantly by the COVID-19 pandemic. However, in 2H, demand for semiconductors began to pick up due to an increase in ICT applications, such as IoT, AI, and 5G. This situation

caused the market for semiconductor production equipment to expand, and raw materials prices rose, pushing performance beyond initial expectations.

Two upward revisions were made during FY03/22. In August 2021, the revision was mainly due to a lower cost of sales ratio on the back of higher revenue, as well as the impact of raw materials prices. In December 2021, demand exceeded initial forecasts for the semiconductor production equipment industry, which is the company's main area of business. With the soaring prices of raw materials and increased demand for semiconductor production equipment, both sales and recurring profit reached record highs.

Full-year revenue hit a record high in FY03/23, mainly due to a rise in unit selling prices due to the impact of higher raw material costs. However, operating profit fell YoY owing to sluggish commissions associated with volume declines, a temporary increase in expenses due to the acquisitions of an overseas company, and a sharp decline in sales to customers in the semiconductor production equipment industry (a key customer segment) in Q4.

In FY03/24, the company's financial results fell below expectations due to a delayed recovery in demand for semiconductor-related equipment, which it had initially expected to begin in 2H.

Medium-term management plan: Moving forward, exceeding expectations (FY03/23– FY03/25)

Hakudo released its medium-term management plan on May 26, 2022 (FY03/23 - FY03/25) with a subtitle of "Moving forward, exceeding expectations." This is the first time the company announced a comprehensive company-wide business strategy with specific targets.

Progress toward medium-term plan targets through second year (FY03/24)

FY03/24 marked the second year of Hakudo's medium-term management plan. Although revenue hit a record high due to the increase in unit selling price, both revenue and each level of profit fell short of the targets set in the plan in FY03/23 and marked YoY declines in FY03/24. This was primarily due to the prolonged adjustment phase in the semiconductor industry, which led to a rapid stagnation in demand for the mainstay semiconductor production equipment from 2H FY03/23 with no signs of recovery in FY03/24. FY03/23 results also reflected the booking of one-time expenses related to the establishment of a U.S. subsidiary and its acquisition of a stake in West Coast Aluminum & Stainless as part of the company's measures to strengthen its business the US. The acquisition had a positive impact on revenue, but West Coast Aluminum & Stainless continues to post a loss, which is contracting.

Of the initiatives for meeting the management targets (revenue and recurring profit growth) and key financial indicators set forth in the medium-term management plan, the following measures were implemented by April 2024.

Enhance core businesses

- Strengthen Hakudo Network: Implemented standardization of domestic aluminum products and revised the roll margin, launched a cashback campaign for using Hakudo Network Service (October 2022); started using e-commerce sales system at Hakudo's subsidiary in Thailand, Hakudo (Thailand) Co., Ltd. (January 2023), made it an open e-commerce website (April 2023), and strengthened functions of Hakudo Network Service (September, October, and November 2023)
- Strengthen processing functions and supply capabilities: introduced an automatic inspection and packing system at the Shiga Factory (June 2022), established new business base (Iga Warehouse) in Iga, Mie Prefecture (April 2023)

Expand business domain

- Expand business into growth fields: Reorganized the sales department, consolidating customers from growth fields (semiconductor, automotive, aerospace) into specific departments (April 2022); obtained a company-wide certification for JIS Q9100, an internationally recognized quality management standard for the aerospace industry (July 2022), established new sales promotion section within Sales Department of Standard Products to improve overall order rate by strengthening inside sales activities (October 2023).
- Expand overseas business: Established a new overseas sales department within the Sales Department of Special Order Products (April 2022); Established Hakudo USA Inc., a wholly-owned subsidiary of Hakudo, in California, US (December 2022); Hakudo USA acquired a stake in West Coast Aluminum & Stainless, LLC. (March 2023).

Strengthen management foundation

- Strengthen digital platforms: started using e-commerce sales system at Hakudo (Thailand) Co., Ltd. (January 2023)
- Enhance manpower: Created individual annual training plans and held explanatory meetings for all employees (December 2022), began operation of start-of-fiscal-year employee training program (February 2024), revised personnel performance appraisal system (March 2024)
- Strengthen PDCA management to realize strategies: Publicly announced Medium-Term Management Plan (FY2022–2024) for the first time (May 2022). Strengthen governance: Risk Management Committee and IT System Department of Corporate Administration Division received certification for JIS Q27001, a standard for information security management systems (December 2022); integrated and restructured Administration Division and Corporate Planning Division to establish a new Corporate Administration Division (April 2023)

Below is the content of the Medium-Term Management Plan (FY03/22–FY03/25) announced on May 26, 2022, presenting the company's vision for the future and describing management targets for the three-year period of the medium-term management plan and specific measures for achieving them.

Company Vision

Hakudo's vision is to be a platform operator working to support the manufacturing industry. To differentiate itself from competitors, "exceptional quality, speed and service at a satisfying price" is at the core of its business strategy. The company envisions itself supporting global manufacturers by expanding the business model it has developed in Japan to overseas markets.

The main regions it will target are Asia and North America. In addition to Hakudo's own and other companies' inventories, parts and molded items which it currently handles, it plans to handle subsidiary materials and tools, as well as commercialize processing with 3D printers. In FY03/32, 10 years on from initiating its plan, the company has set targets for revenue of JPY100.0bn, recurring profit of JPY10.0bn, and an overseas sales ratio of 20%. The company considers this most recent medium-term management plan as a step towards actualizing its Vision.

Management targets

The management targets set for the final year of the medium-term management plan are revenue of JPY71.8bn (average growth rate of 9.0% over the plan period), recurring profit of JPY5.4bn (growth rate 7.3%), and key financial plan indexes being ROIC of 15%, operating cash flow of JPY4.7bn, and dividend payout ratio of 40.0%. Plans include enhancing existing businesses in Japan, developing new businesses, and expanding the company's network overseas.

Medium- Term Management Plan Targets

(JPYmn/%)		FY03/22	FY03/23	FY03/24	FY03/25
		Act.	Est.	Plan	Plan
Management target	Revenue	55,441	62,100	66,800	71,800
	YoY	41.4%	12.0%	7.6%	7.5%
	Recurring profit	4,374	4,080	4,500	5,400
	YoY	109.9%	-6.7%	10.3%	20.0%
	Recurring profit margin	7.9%	6.6%	6.7%	7.5%
Key financial plan indicator	ROIC	15.0%	-	-	15.0%
	Operating cashflow	4,500	-	-	4,700
Shareholder return	Payout ratio	44.0%	-	-	40.0%

Source: Shared Research based on company data

Note: Current as of the time the medium-term plan was announced

Policies

Enhancing core businesses

Manufacturers of semiconductor production equipment currently account for a large percentage of sales (45% of domestic revenue in FY03/22). The company believes it needs to diversify its business by cultivating new customers. The company plans to step up business in the aircraft and automotive fields, as these sectors take advantage of aluminum's light weight and recyclability. The company also believes aluminum will be important to achieving SDGs, as the metal has characteristics that contribute to reducing environmental impact.

Strengthening the Hakudo Network

First, the company will work to augment its product lineup. The company has already expanded its own inventory. It will expand its top line of standard stock items by increasing the stock it handles from other companies, along with introducing environmentally friendly products (ECO series) and high value-added products. In addition, Hakudo will collaborate with other companies to expand its product lineup to include not only non-ferrous metal materials, but also tools and other materials that support manufacturing sector needs.

Next, though currently only the company has access to its Hakudo Network Service, it plans to expand the network's coverage to include distributors. Hakudo will promote its online estimate and ordering system by having distributors use the service directly, as well as promote its combined use with enterprise resource planning.

The company will also work to improve the profit margin of the service. Specifically, it plans to increase the degree of milling of the components it sells, boost sales of high-margin products, and improve the rate of small and medium orders.

Enhancing processing performance and supply capacity

To start, the company will boost the processing capacity of its factories, expanding its ability to provide services. In addition, for component processing services, the company will enhance its virtual supply capacity by building alliances with other processing companies and expanding its network of partner factories. In addition, it plans to differentiate its parts processing service by improving customer convenience through efforts like using CAD data to automate part quotations.

Reform supply chain management to enhance procurement and supply capabilities

Hakudo plans to introduce a purchase management system to improve ordering efficiency and inventory management while reducing management expenses. It will also introduce a system to standardize operations among factories and reduce labor, thereby cutting costs and making delivery more efficient. Depending on market trends, Hakudo may consider the merger of existing companies and expansion of supply capacity by adding new factories.

Expanding into growth business fields: semiconductors, aerospace, automotive

The company intends to enter these growing fields, forming a sales organization for each one and utilizing an inventory management system for special-order items to help attract and retain customers. The company will develop products tailored to demand trends specific to each field. This includes the development of new environmentally friendly materials for its ECO material series for the semiconductor field, the expansion of its line of aviation industry materials for the aerospace field, and the development of new technologies in collaborations with industry and academia for the automotive field.

Regarding the development of its processing system, the company has begun contract manufacturing of metal products using 3D printers for the automotive field, and has launched efforts to become a convenient source of aerospace-standard materials. The company's Kanagawa and Shiga factories have acquired JIS Q9100 certification, meeting specific aerospace industry requirements. In January 2020, the company introduced a water jet used for cutting any material into any shape desired, and the company expects it will be of value in the aerospace and aviation fields.

Expanding overseas business and entering new markets

The company already conducts business through its regional subsidiaries in Thailand and Shanghai, China. In Vietnam, it works with Oristar Corporation (unlisted), a major local non-ferrous metals trading company, with business focusing on Oristar's inventory. In the regions where Hakudo is already established, it is developing strategies based on the extent of its presence. Hakudo Network Service has already been introduced in China, and the company plans to expand its product lineup of subsidiary materials and tools, as well as its processing capacity. In Thailand, it has plans to strengthen its logistics network, and in Vietnam, it will expand the products it handles to include other companies' stock items, subsidiary materials, and tools. It plans to introduce the Hakudo Network Service in both countries.

New regions the company plans to enter through alliances with local companies include South Korea, Taiwan, and the US. It also intends to introduce the Hakudo Network Service in all of these regions, with a product lineup that will include its own and other companies' stock items, as well as subsidiary materials and tools. In the US, the company plans to expand its processed items on offer as well as processing capabilities.

Strengthening of management base

Enhancing digital platforms

Hakudo will reform its operating processes by introducing new digital technologies. This includes utilizing AI to improve the efficiency of customer service operations; it will also leverage its DX Promotion Project to make operations more efficient by going paperless and boost efficiency through the use of RPA and IoT for in-house back office operations and manufacturing site operations.

To strengthen intellectual property strategies, it will take specific measures to develop the Hakudo Network Service in Japan and overseas. To start, it will strengthen structures and register rights required to provide and use the Hakudo Network Service and related intellectual property overseas.

Bolstering human resources (expand procurement, further train existing staff, improve engagement)

To implement these measures, the company understands the need to procure more talent and boost the skill level of its current staff. Starting with the strategic procurement of talent needed to execute Hakudo's strategies, the company will clarify requirements by introducing human resource skill maps, raise their skill levels by expanding the training system, and enhance their development through establishing an HR department. In addition, it will improve employee satisfaction by implementing work style reforms.

Strengthen PDCA management for strategy effectiveness

Hakudo will enhance progress management to make its medium-term management plan feasible. It plans to utilize measures like target management charts to help maximize recurring profit. It will also introduce multifaceted corporate management using indicators like ROIC and cash flow in addition to income statements.

Strengthen governance

Hakudo will do this to enhance corporate value over the medium to long term. Specific measures include further strengthening the following: management and supervisory functions of directors; executive structure and functions (management committee members); sustainability management to increase corporate value over the medium to long term; and the company's information security system, including through the acquisition of ISMS certification (ISO27001).

Sustainable management

Basic policy

The company has formulated a new Basic Sustainability Policy that balances the enhancement of corporate value with working towards a sustainable society. Its content is as follows.

1. Deepening Hakudo's understanding of sustainable management as concerns ESG and SDGs, and contribute to the environment and society through its business.
2. Striving to give due consideration to nature and the global environment, helping prevent global warming, and creating a recycling-oriented society.
3. Promoting the health of employees while recruiting a diversity of human resources and recognizing a variety of training and working styles.
4. Work to improve the health, efficiency, and transparency of the Group and reduce various risks.
5. Endeavor to strengthen relationships with stakeholders involved in the Group's business.
6. Undertake initiatives toward the realization of a society in which everyone can live with peace of mind.

Initiatives

In line with the Basic Sustainability Policy outlined above, the company will address the following material issues with a goal of contributing to society and sustainably increasing corporate value. The company has established an ESG/SDGs Management Committee consisting of six subcommittees, which will play a central role in promoting these initiatives.

Sustainable management issues and initiatives

Major material issues		Specific Initiatives	Related SDGs Goals
1 Reducing environmental impact and responding to climate change	In addition to reducing the business's environmental impact, Hakudo will contribute to society through providing environmentally friendly products	<ul style="list-style-type: none"> Reducing CO2 emissions Reducing waste and conservation of resources 	379,111,213
2 Building an environmentally responsible supply chain	Hakudo takes environmental responsibility seriously through its efforts to build a sustainable supply chain	<ul style="list-style-type: none"> Offering more environmentally friendly products Promoting green procurement Strengthening relationships with suppliers Respecting human rights 	81,213
3 Social initiatives	Hakudo creates new value through its partnerships and contributes to local communities	<ul style="list-style-type: none"> Contributing to local communities Collaborating with industry and academia 	4,911
4 Investing in people	Hakudo strives to be organization that's easy to work for and with, where a diversity of talent gains satisfaction from their work	<ul style="list-style-type: none"> Increasing employee satisfaction Promoting diversity Creating a healthy and pleasant work environment Improving employee education 	345,810
5 Corporate governance	Through thorough compliance and risk management, Hakudo seeks to run its business operations smoothly	<ul style="list-style-type: none"> Bolstering compliance Improving information security Thorough risk and crisis management 	3,111,216

Source: Shared Research based on company data

Investment plan

The key strategy policies above can be broadly categorized into three fields: strengthening supply capacity and enhancing processing capabilities, strengthening M&A and alliances, and strengthening digital transformation and the Hakudo Network Service. Investment during the planning period for these three fields is as follows.

Investment plan per item

Investment items	Investment amount (JPYmn)
Enhancement of supply capability and machining functions	4,500
Strengthening of M&A activities and alliances	2,500
Further digital transformation and enhancement of Hakudo Network Service	1,000
Total	8,000

The key strategic policies regarding strengthening supply capacity and enhancing processing capabilities are to develop a network of processing companies, to enhance procurement and supply capabilities through SCM reform, and to expand fields of growth while boosting sales and marketing. Expansion of overseas business is a key policy regarding strengthening M&A and alliances. For strengthening digital transformation and the Hakudo Network Service, the key policies are to fortify and expand the customer base and improve profitability by further developing the Hakudo Network Service while improving the digital platform to boost corporate value.

Business model

Overview

The company's business centers on vendor-managed inventory (VMI). The company buys non-ferrous materials (such as aluminum and copper) cuts them into standard sizes and shapes, and supplies them to customers in accordance with their specifications. The company carries approximately two months of inventory worth of standard stock items. One difference from other providers of VMI services lies in the company's extensive processing capabilities, allowing it to machine items to customer specifications. VMI arrangements typically work by suppliers and purchasers sharing inventory information. In Hakudo's case, purchaser's inventory information is based on customer order histories.

The company believes the factors that differentiate it from competitors include better product quality, and more attractive delivery times. The company's brand promise is "exceptional quality, speed and service at a satisfying price." The company places great importance on the quality of its materials and processing services, as well as on meeting the deadlines specified in its product catalogs. The company adds value with its inventory and processing functions.

Performance fluctuations in tandem with market prices for key materials and changing customer demand

In the decade to FY03/24, revenue ranged from a low of JPY29.9bn (FY03/15) to a high of JPY61.6bn (FY03/23). Operating profit ranged between JPY1.7bn (FY03/16) and JPY4.3bn (FY03/22). Over this same period, OPM ranged from 4.0% (FY03/20) to 7.7% (FY03/22).

Performance fluctuates in line with changing market prices on the main materials the company handles (aluminum and copper) and volatility in demand from the customers who purchase these materials (such as manufacturers of semiconductor production equipment). In recent years, the company's performance declined in FY03/20 due to a downturn in economic activity resulting from the COVID-19 pandemic. From FY03/22, the market environment improved quickly due to a rebound in non-ferrous metal prices and shortage of supply for semiconductor production equipment. In 2H FY03/23, though, Hakudo began feeling the effects of the semiconductor market entering the adjustment phase and demand remained weak through FY03/24.

Business overview

Customers

The company's main customers are manufacturers of semiconductor production equipment, OA equipment, and other industrial machines. The company does not disclose sales by customer. Semiconductor production equipment uses large quantities of aluminum, whose corrosion resistance, machining accuracy, and low gas generation suit it to this application. While demand for semiconductor production equipment is affected in the near term by semiconductor prices, Shared Research expects prices to increase over the longer term owing to global consolidation of production facilities. In FY03/24, aluminum accounted for about 60% of the company's revenue.

Among Hakudo's customers are manufacturers of semiconductor production equipment (that use aluminum components in their vacuum chambers), precision instruments such as OA equipment, and various industrial machines.

Hakudo says it has approximately 13,000 customer accounts, although Shared Research assumes the actual number of active accounts is lower. The company has more than 10,000 customers registered to use its online Hakudo Network Service. Shared Research estimates that the company does business with around 10,000 customers per day, also including those that place orders by phone and fax (which the company explains tend to be special-order items). In FY03/24, revenue totaled JPY57.3bn. Assuming 250 business days a year, the average order size calculates to around JPY23,000. The company provides delivery services tailored to each customer's needs, regardless of order size, so orders are small compared with companies that handle steel products in bulk. Hakudo notes that a large-volume customer will make purchases of around JPY2.0bn per year.

Adding value through processing and maintaining standard stock items

Rather than selling purchased materials as is, the company cuts them into specific sizes and shapes (standard stock items) before selling them. Once placed in inventory, these items are valued at market prices. Transaction prices are based on market prices at the time of sale, so the company can face valuation losses if market prices change while products are in inventory. Among its main materials, aluminum prices are updated every three months, while copper prices change daily. The company adjusts purchasing decisions based on market prices, inventory levels, and customer demand trends.

Method for determining unit transaction prices

To determine transaction prices, the company starts with the market price of the target material. To this, it adds a trading company margin, processing fees, the customer's portion of shipping costs, and a margin based on customer payment conditions. If multiple pieces of aluminum materials are ordered, the price is calculated as follows. The unit price is primarily based on the market price per unit weight of aluminum at the time of order, which was JPY400,000 per ton as of the end of March 2024.

First, the unit price is determined, based on the market price per weight of aluminum (JPY400,000/ton as of end-March 2024). Next, a customer-specific transaction price is calculated by taking into account various fees (including inventory costs), processing fees for parts and materials, the customer's purchase/payment history, and credit information. The unit price is then multiplied by the number of items. For similar companies that do not offer processing services, the transaction price is simply the market price of the raw material plus a trading company commission.

Flow of business

Hakudo purchases non-ferrous materials from external suppliers and holds them in inventory (standard stock items). The company maintains around 5,400 standard stock items. Customers can also backorder items that the company does not keep in stock. Backorder items are those the company does not typically handle and whose volumes are too small to keep in inventory.

Hakudo purchases non-ferrous materials from external suppliers and holds them in inventory (standard stock items). The company maintains around 5,300 standard stock items. Customers can also backorder items that the company does not keep in stock. Backorder items are those the company does not typically handle and whose volumes are too small to keep in inventory.

Purchasing

The company buys non-ferrous materials from specific suppliers in Japan. The material Hakudo buys the most of is aluminum, which it purchases from large companies such as UACJ Corporation (TSE Prime: 5741) and Nippon Light Metal Holdings Co., Ltd. (TSE Prime: 5703). Hakudo purchases copper from a range of Japanese and overseas manufacturers, such as Mitsubishi Materials Corporation (TSE Prime: 5711) in Japan. To diversify supply risk, the company does not limit its suppliers to specific companies, except in the case of specialized parts.

According to the Japan Aluminum Association, high electricity prices mean that Japanese production of primary aluminum ingots has not been cost-competitive since the two oil shocks the country faced in the 1970s. As a result, the country is entirely dependent on imports for new aluminum ingots. Japanese production centers on secondary (recycled) aluminum ingots, which are imported from overseas and processed in Japan into plates, extrusions, and foils. Processed aluminum materials are then supplied to manufacturers of final products such as transport equipment and construction-related equipment.

"Copper" products may include products made solely from copper or alloys containing zinc, tin, or nickel before being melted, cast, rolled, drawn, or forged into plates, tubes, bars, wires, or other shapes. The Japan Copper and Brass Association estimates FY2024 demand for products made from copper and copper alloys at 676,700 tons (+5.9% YoY).

Because it must maintain a certain amount of standard stock items in inventory, the company is unlikely to be at an advantage when negotiating with suppliers. The company explains that for this reason, it has established a stable supply system by continuing to purchase products from multiple sources.

Inventory (processing of standard stock items)

The company classifies procured metal materials as “standard stock items.” The company handles around 5,400 standard aluminum products, which are divided into shapes such as plates, bars, and tubes, and each has its own standard dimensions and thickness.

For aluminum products, the company purchases sheets, strips (coiled), rods, and tubes of aluminum alloy from manufacturers of these materials, and keeps them in inventory. Aluminum alloy plates in inventory (base material) tend to be around three sqm in size. Processing and inventory management take place at five factories in Japan (in Fukushima, Saitama, Kanagawa, Shiga, and Kyushu; outlined below).

Order receipt, sales

In general, the flow from order to shipment follows the steps below.

The company receives an estimate request or order via telephone, fax, e-mail, or online service. Order data is entered into the company’s “comprehensive information system (proprietary computer system)” at the East Japan Customer Center, West Japan Customer Center, or each of its sales offices. Data is then sent to individual factories as shipment order forms. Bar codes are printed onto shipment order forms to ensure traceability.

Printing a shipment order form (factory)

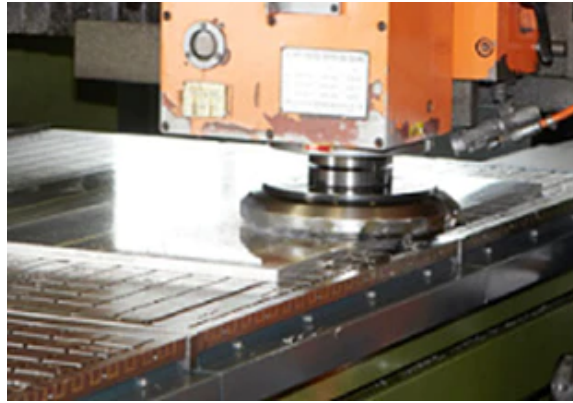
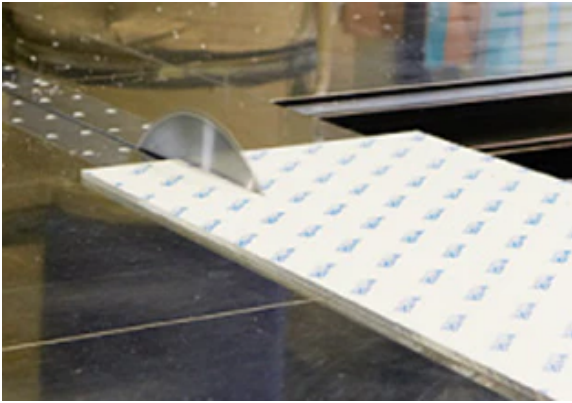


Source: Company website

Depending on the order, cutting may be performed at the factory instructed to handle the shipment. Cutting takes place at five factories in Japan. The company has a variety of cutting machines including circular saws, band saws, shears, and contour machines. The same five factories also handle milling (machining of complex shapes and drilling), using general-purpose and specialized machines. As of end-FY03/23, the company had about 500 machines installed. The company uses rotating blades (milling machines) to perform processing into complex shapes as well as drilling, according to the customer’s needs. In addition to cutting and milling, the types of processing include irregular shape/machining, polishing, and chamfering.

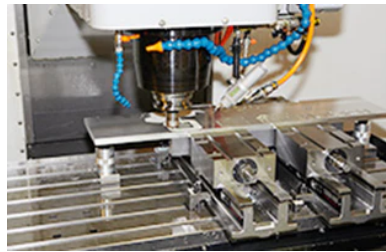
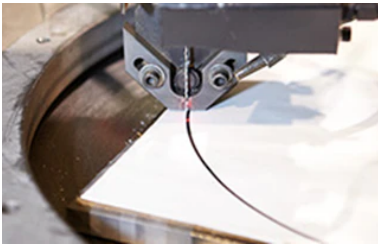
Other processes include deform/machining, polishing, and chamfering.

Machining processes (cutting, milling)

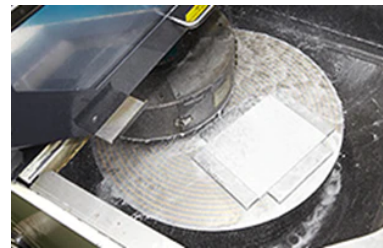


Source: Company website

Contour machine processing machining



rotary polishing



Source: Company website

After machining is complete, the product is inspected. Dimensions may be measured using 3D measuring instruments or manually, according to the customer's request. After inspection, the product is packaged for delivery. Packaging specifications vary depending on the variety, shape, and processing service. The company aims to provide the best packaging it can to maintain product quality. The company uses a barcode system to perform final checks on unloads and delivery addresses, and then delivers the goods quickly using its own trucks, route-based services, and in some cases, couriers.

Shipment and delivery



Source: Company website

Hakudo Network Service

The Hakudo Network Service is a proprietary online estimate and ordering service, handling about 80% of the company's estimates. Customers can login (or register as new users) via the Hakudo Network Service portal on the company's website.

The system offers three types of entry mode as illustrated below: standard, simplified, and multiple detail. New customers and those unfamiliar with online ordering tend to choose the simplified mode, which is limited to standard products. The multiple detail entry mode allows customers to place orders involving detailed machining requests and attach Excel or CSV data, ordering up to 15 items at a time.

Hakudo Network Service screens for orders and estimates

Standard mode



Simplified mode



Multiple detail entry mode



Source: Company website

Sales structure

Hakudo divides Japan into eight regions and has a sales office for each: the Sendai Sales Office (located in Sendai, Miyagi Prefecture, and responsible for the Hokkaido and Tohoku regions), the Takasaki Sales Office (located in Takasaki, Gunma Prefecture, and responsible for the Joetsu and Northern Kanto regions), the Tokyo Sales Office (located within headquarters and responsible for the Tokyo metro area), the Atsugi Sales Office (Atsugi, Kanagawa Prefecture), the Nagoya Sales Office (located in Nagoya, Aichi Prefecture, and responsible for the Tokai and Hokuriku regions), the Osaka Sales Office (located in Osaka and responsible for Wakayama Prefecture and the Kyoto/Osaka/Kobe region), the Hiroshima Sales Office (located in Hiroshima and responsible for the Chugoku and Shikoku regions, except for Yamaguchi Prefecture), and the Kyushu Sales Office (located in Tosu, Saga Prefecture, and responsible for the Kyushu region, including Yamaguchi Prefecture). Located within headquarters is the Sales Department of Special Order Products, which serves large manufacturing customers nationwide. The Sales Department of Standard Stock Products maintains two call centers, the East Japan Customer Center (Kawasaki) and the West Japan Customer Center (Osaka), as well as the Shizuoka Branch Office.

Sales offices in Japan

Office	Location	Area covered
Sendai Sales Office	Sendai, Miyagi Prefecture	Hokkaido and Tohoku
Tokyo Sales Office	Chiyoda-ku, Tokyo	Tokyo metro
Takasaki Sales Office	Takasaki, Gunma Prefecture	Joetsu and Northern Kanto
Atsugi Sales Office	Atsugi, Kanagawa Prefecture	Southern Kanto and Chubu
Nagoya Sales Office	Nagoya, Aichi Prefecture	Tokai and Hokuriku
Osaka Sales Office	Osaka	Wakayama Prefecture, Kyoto/Osaka/Kobe
Hiroshima Sales Office	Hiroshima	Chugoku and Shikoku (excl. Yamaguchi Prefecture)
Kyushu Sales Office	Tosu, Saga Prefecture	Kyushu (incl. Yamaguchi Prefecture)

Source: Shared Research based on company data

Factories in Japan

The company has five factories in Japan. In April 2023, the company established a new base (Iga Warehouse) in Iga, Mie Prefecture, where it began operation of water-jet cutting and machining equipment, and wire-cutting machines.

- ▶ Fukushima Factory (Koriyama, Fukushima Prefecture): Has grinding/polishing and machining equipment and conducts these processing for the company.
- ▶ Saitama Factory (Kazo, Saitama Prefecture): Mainly handles cut-to-length stock, extruded aluminum, copper pipe, and shaped copper and stainless steel (rectangular bars and small-diameter rods).
- ▶ Kanagawa Factory (Atsugi, Kanagawa Prefecture): This center has the largest product lineup in the Hakudo group, as well as the largest inventory and shipping volumes. This center functions as a core factory for the group, working to increase the quality of products the group handles and augment the group’s technologies.

- ▶ **Shiga Factory (Gamo-gun, Shiga Prefecture):** This factory handles a diverse lineup of products. The factory maintains inventories of aluminum plates ranging in thickness from 1mm to 350mm and cuts/machines this stock to customer requirements. The facility has water-jet cutting and machining equipment.
- ▶ **Kyushu Factory (Tosu, Saga Prefecture):** At this location, the company focuses on maintaining close ties with local businesses, working alongside salespeople to reflect customer feedback in its product quality, technologies, and services.

Factories (“process centers”) in Japan

Factory	Location	Characteristics
Fukushima Processing Center	Koriyama, Fukushima Prefecture	Polishing and machining equipment
Saitama Processing Center	Kazo, Saitama Prefecture	Cut-to-length board, extruded aluminum, copper pipe, copper, stainless steel
Kanagawa Processing Center	Atsugi, Kanagawa Prefecture	Group's largest product lineup and inventory/shipping volumes
Shiga Processing Center	Gamo-gun, Shiga Prefecture	Large stock of aluminum plates, water-jet cutting and machining equipment
Kyushu Processing Center	Tosu, Saga Prefecture	Close ties to the local businesses

Source: Shared Research based on company data

Overseas locations

In China, the company has its own inventory and processing centers with sales offices in Guangzhou and Tianjin, as well as a consolidated subsidiary in Shanghai (Shanghai Hakudo Precision Materials Co., Ltd.). In Thailand, Hakudo has a subsidiary, Hakudo (Thailand) Co., Ltd, as well as a local partner, Fujimaki Steel (Thailand) Co., Ltd. In other ASEAN countries, the company is collaborating with local partners in Vietnam (Oristar Corporation), Malaysia (PHH Special Steel SDN BHD), and Indonesia. It also has established a representative office in Vietnam. The table below indicates the company's overseas locations.

In FY03/23, the company established Hakudo USA Inc. with the aim of strengthening its business in the American market. Subsequently, this subsidiary invested in a local company, West Coast Aluminum & Stainless, LLC. In FY03/23, the company added North America as a new reportable segment.

Overseas locations

Country		
China	Subsidiary	Shanghai Hakudo Precision Materials Co., Ltd.
	Location	Shanghai, China
Thailand	Subsidiary	Hakudo (Thailand) CO., LTD.
	Location	Bangkok, Thailand
	Local partner	Fujimaki Steel (Thailand) Co., Ltd.
Vietnam	Rep office	The Representative Office of Hakudo Co., Ltd. in Ho Chi Minh City
	Local partner	ORISTAR CORPORATION
Malaysia	Local partner	PHH SPECIAL STEEL SDN BHD
America	Subsidiary	Hakudo USA Inc.
	Sub-subsidiary	West Coast Aluminium & Stainless, LLC
Indonesia	Local partner	PT. Fujimaki Steel Indonesia
	Local partner	PT. PHH Special Steel

Source: Shared Research based on company data

Process for determining transaction prices

The company refers to market prices at the time of transaction to calculate transaction prices. A problem can arise due to a gap between the market price of the product at the time of sale and the price at which the original material was purchased. In particular, the company may face a loss if the market price of the material declines (the risk of holding items in inventory). When market prices are rising, transaction prices are based on the most recent market price, so marginal gains may occur. When market prices are falling the mechanism for determining transaction prices results in a net loss.

The company does not adjust purchases based on market trends, unless it is certain that transaction prices will rise or fall. However, the company minimizes marginal losses through efficient processing (minimizing the amount of scrap generated when processing standard products) and by offering selling prices that take credit information (based on customers' payment histories) into account. The company uses an integrated information system (which it calls the “proprietary computer system”) to manage information centrally. The company uses this system to direct operations related to inventory, adjusting stock levels to meet assumed demand and minimize differential losses.

Product lines

As of end-FY03/24, the company catalog listed 84,900 items for sale, including standard stock items and backorder items. The main items are described below.

Standard stock items

These are items the company keeps in stock at its factories around Japan. Currently, the company maintains 5,300 standard stock items. Cover images of the product catalogs (standard stock items) on the company website are shown below. The English version was published in 2018; the Japanese version is from 2023.

Catalogs of standard stock items (English on the left, Japanese on the right)



Source: Company website

Hakudo explains that its standard stock items benefit customers in six ways. First, the lineup is extensive. The company specializes in non-ferrous metals such as aluminum and copper, as well as stainless steel, titanium, specialty steels and plastic materials, and provides processed industrial materials. The company offers around 5,400 standard products.

The second advantage is the ability to fill small-lot orders. The company machines materials based on a single plate, piece, or gram to the customer's desired size and shape, and delivers products throughout Japan. The company's policy is to cut and process small materials down to 5 x 5mm to the exact dimensions specified by the customer, and deliver the required quantity as soon as the next business day.

The third advantage is quick response. From customer centers located in eastern and western Japan, the company responds quickly to quotations, orders, and inquiries via fax, phone, e-mail, and online. In sales, the company has a policy of not keeping the customer waiting. Professional staffers at customer centers using leading-edge IT systems provide prompt quotes on both standard stock items and special-order items.

The fourth advantage is quick delivery. The company maintains inventory and processing centers ("factories") at five locations across Japan, and can deliver products as soon as the day after it receives an order. The company has a system in place to ship orders to customers from each center by the most appropriate means, depending on delivery distance and inventory status.

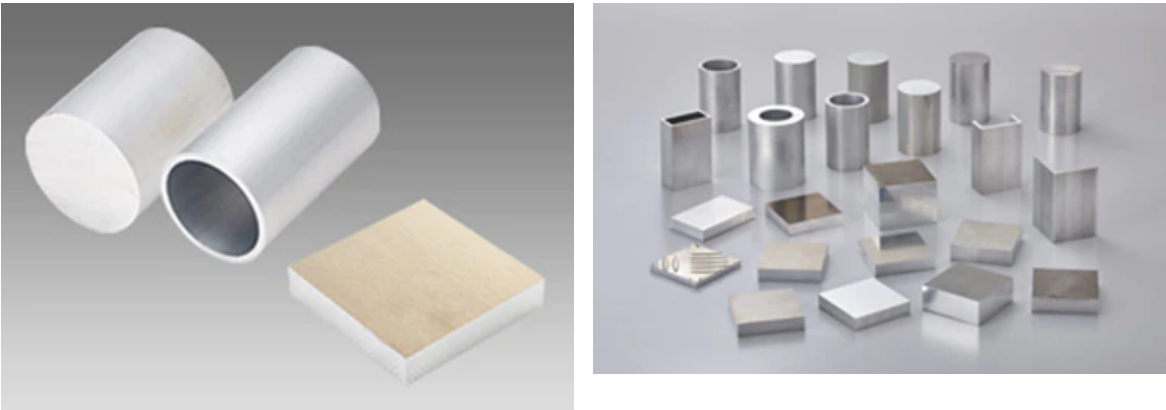
The fifth advantage is the wide variety of machining options. In addition to cutting products to customer-specified dimensions, the company offers milling and polishing services for all products in its inventory. The company provides 34 types of cutting and processing methods to offer products with the shape and accuracy desired by customers. The company is capable of cutting various shapes (squares, circles, and rings), milling and polishing to specified dimensions in increments of 0.1mm, and machining shaped parts using machining centers and water jet cutting machine.

The sixth advantage is high-precision machining. For its milling and polishing processes, the company guarantees accuracy in terms of thickness, width, length, squareness, angularity, and flatness. The company has installed the latest equipment, including specially designed high-precision milling machines and machining centers, to meet the demands of its customers. The company is also researching and seeking to improve its machining processes and inspection methods to further increase machining accuracy.

Items handled (standard stock items)

Aluminum

Aluminum products (standard stock items on the left and backorder items on the right)



Source: Company website

Standard aluminum stock items are classified broadly by shape (plates, bars, and tubes), and then classified further in terms of size and material.

The example below is a catalog entry for a standard stock item. “A1050” is a standard 1000 grade aluminum (pure aluminum), 99.5% pure aluminum sheet (1,000mm by 2,000mm), commonly referred to as “meter sheet*.” Catalog entries are listed by size.

Catalog listing of “A1050” aluminum plate item (English at left, Japanese at right)

Plate thickness 板厚 (mm)	Uncut material width × length 新材寸法 巾×長さ (mm)	Plate thickness tolerance 板厚公差 (mm)	Temper 調質	Manufacturing method 製造方法	Protective vinyl 保護 ビニール
0.5※	1000×2000	±0.06	H24	Cold rolling 冷間圧延	None なし
1	〃	±0.08	〃	〃	〃
1.2	〃	±0.10	〃	〃	〃
1.5	〃	〃	〃	〃	〃
2	〃	〃	〃	〃	〃
3	〃	±0.13	〃	〃	〃
4	〃	±0.20	〃	〃	〃
5	〃	±0.23	〃	〃	〃

板厚 (ミリ)	新材寸法 巾×長さ (ミリ)	板厚公差 JIS規格 (ミリ)	質別	製造方法	1枚重量 (kg)	保護 ビニール	加工区分・在庫工場
0.5	1000×2000	±0.06	H24	冷間圧延	2.72	なし	〇
1	〃	±0.08	〃	〃	5.44	〃	〇
1.2	〃	±0.10	〃	〃	6.53	〃	〇
1.5	〃	〃	〃	〃	8.16	〃	〇
2	〃	〃	〃	〃	10.88	〃	〇
3	〃	±0.13	〃	〃	16.32	〃	〇
4	〃	±0.20	〃	〃	21.76	〃	〇
5	〃	±0.23	〃	〃	27.20	〃	〇

Source: Company website

The Japanese version (but not the English version) indicates the weight per sheet (kg) and uses color to show which of the company’s five factories produces and stocks the product.

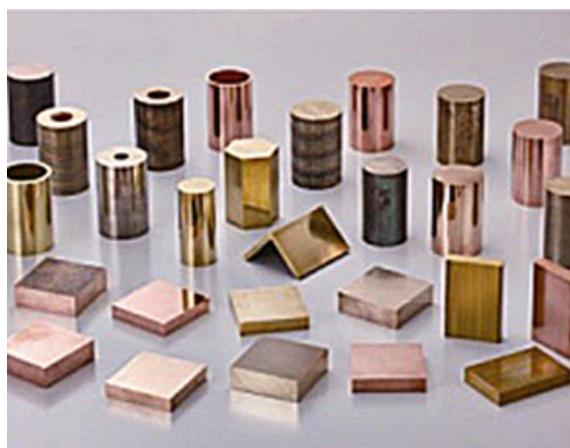
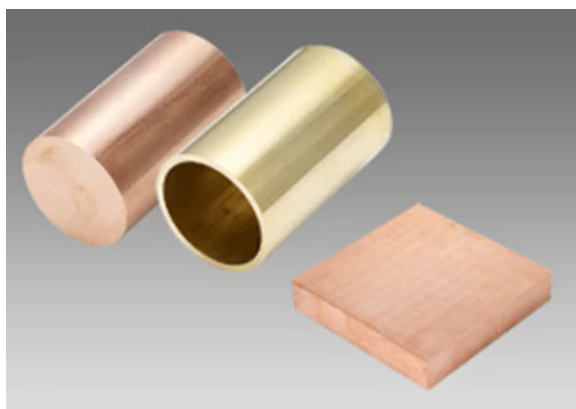
* “Meter sheet” refers to a type of cut-to-length stock measuring 1,000mm by 2,000mm.

The main types of steel plate and plate-metal materials used in precision plate metal and plate-metal processing are distributed in the market as cut-to-length stock of specific dimensions. Typical plate sheet sizes are 3 x 6 (914mm x 1,829mm), 3 x 8 (914mm x 2,438mm), and 5 x 8 (1,524mm x 2,438mm). These standard sizes are generally not used for stainless steel, aluminum, copper, and brass plate. Instead, these materials are typically found in “meter sheet” dimensions (1,000mm x 2,000mm), which are not used for steel sheet.

The 4 x 8 size (1,219mm x 2,438mm) is generally used for steel, stainless steel, aluminum, copper, and brass plate. This size of material is used to make large plate metal products, for which 3 x 6 and 1 x 2 sizes would be too small. The 5 x 10 size (1,524mm x 3,048mm) is also used for steel plate but generally not for copper or brass plate.

Copper products

Copper products (standard stock items at left, backorder items at right)



Source: Company website

The company lineup also includes copper plates, bars, and tubes. Due to its high electrical and thermal conductivity, durability, and color, copper is used in a wide range of applications. Copper is frequently used in air conditioning (copper pipes) and electronic components (semiconductor lead frames). Standard stock items are categorized broadly into plates, bars, and tubes, and further classified according to size and material quality.

The following example is a product called “chrome copper round bar,” which is an alloy of copper and chrome with extremely high electrical conductivity and hardness. It has excellent wear resistance at high temperatures and good toughness due to its uniform microstructure. This product is mainly used for welding electrode materials, electrode materials, cooling parts for connector equipment, die-casting molds, and various machine parts (parts requiring thermal conductivity and electric conductivity).

Catalog listing for “chrome copper round bar” (English at left, Japanese at right)

Diameter 直径 (mm)	Uncoiled material length 素材寸法 長さ(mm)	Diameter tolerance 直径公差 (mm)	Temper 調質	Manufacturing method 製造方法
6	1000	±0.06	HT	Cold drawing 冷間引抜
8	"	"	"	"
10	"	"	"	"
12	"	±0.08	"	"
13	"	"	"	"
16	"	"	"	"
20	"	"	"	"
22	"	"	"	"
25	2000	±0.10	"	"
30	"	"	"	"
32	"	"	"	"
35	"	"	"	"
40	1000	±0.20	"	Hot forged scalping 熱間鍛削面削
45	"	"	"	"
50	"	"	"	"
55	"	"	"	"

■在庫品目サイズ

直径(ミリ)	素材寸法 長さ(ミリ)	直径公差 当社規格(ミリ)	質別	製造方法	長さ1メートルあたり 重量(kg)	加工区分	在庫工場
6	1000	±0.06	HT	冷間引抜	0.26	○	○
8	"	"	"	"	0.45	○	○
10	"	"	"	"	0.70	●	●
12	"	±0.08	"	"	1.01	●	●
13	"	"	"	"	1.18	●	●
16	"	"	"	"	1.79	●	●
20	"	"	"	"	2.80	●	●
22	"	"	"	"	3.38	●	●
25	2000	±0.10	"	"	4.37	●	●
30	"	"	"	"	6.29	●	●
32	"	"	"	"	7.15	●	●
35	"	"	"	"	8.56	●	●
40	1000	±0.20	OT	鍛削面削	11.18	●	●
45	"	"	"	"	14.14	●	●
50	"	"	"	"	17.46	●	●
55	"	"	"	"	21.13	●	●
60	"	"	"	"	25.14	●	●
70	"	"	"	"	34.22	●	●
80	"	"	"	"	44.69	●	●
90	"	"	"	"	56.56	●	●
100	"	"	"	"	69.83	●	●

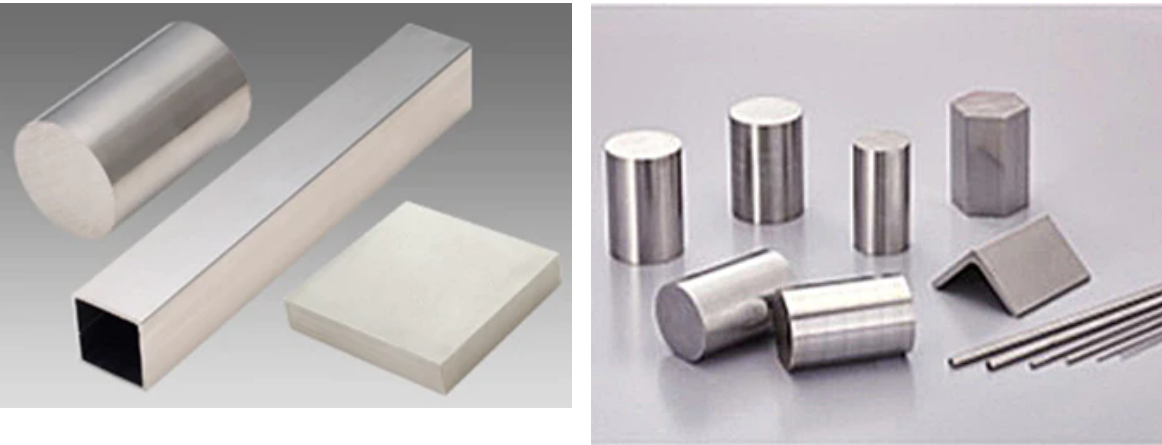
"S" refers to product sizes in which cutting to the desired dimensions is possible, but for which any remaining materials must also be purchased.
引は二希望のサイズ半端に加工致しますが、残材も購入いただくサイズです。
"T" for temper denotes an age hardening treatment.
調質のTは、時効硬化処理を表します。

Source: Company website

As with aluminum, the Japanese version of the catalog (but not the English version) indicates the weight per sheet (kg) and uses color to show which of the company’s five factories produces and stocks the product.

Stainless steel

Stainless steel products (standard stock items at left, backorder items at right)



Source: Company website

“Rust-resistant iron” is made by adding nickel, chrome, or other substances to iron. Due to its rust resistance, this material is often used in food machinery and kitchen equipment, as well as for decorative piping for railings and monuments. The material is finding growing use in machine parts, and the company believes demand will increase further as new applications for the material are developed.

The following example is a catalog entry for structural stainless steel extruded pipe. The material is called “304 seamless round pipe (TKA)” TKA refers to mechanical-structural stainless steel pipe. In machined items, this product is used as thick-walled pipe (such as pipe made from hollowing out round stock or sheet materials).

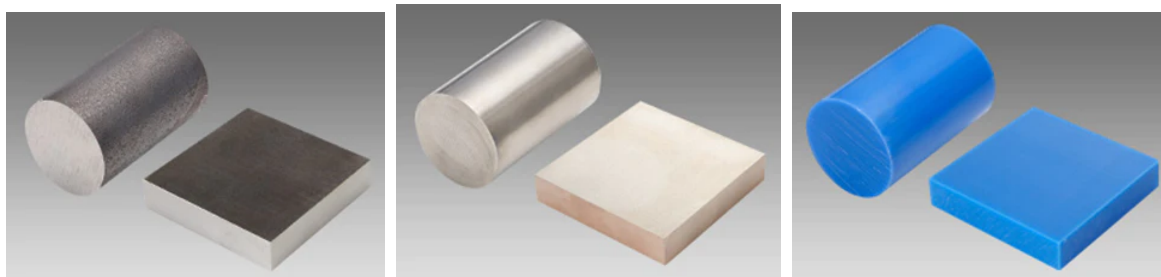
Catalog entry for seamless round stainless-steel pipe (English at left, Japanese at right)

■ Size of products in inventory 在庫品目サイズ						■ 在庫品目サイズ					
Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)	Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)	Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)	Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)	Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)	Outside diameter × Wall thickness 外径×肉厚 (mm)	Unit material length 単位寸法 長さ(mm)
46 × 10	2100	±0.80	-1.25 to +1.50	Hot extrusion 熱間押出		190 × 20	2100	±1.50	-2.50 to +3.00	Hot extrusion 熱間押出	
50.8 × 14.5	#	#	-1.81 to +2.18	#		200 × 15	#	#	-1.88 to +2.25	#	
56 × 13.8	#	#	-1.73 to +2.07	#		We offer two types of JIS compliant products, those that are JIS certified and those for which the manufacturer guarantees equivalent quality. If you are interested in JIS certified products, please contact us. 両規格を備えた2種類の製品を提供いたします。製品メーカーが同等の品質を保証した商品があります。JISの規格を製造した商品をご希望の場合は、お問い合わせください。					
67 × 14.5	#	#	-1.81 to +2.18	#							
71 × 18	#	#	-2.25 to +2.70	#							
82 × 15	#	#	-1.88 to +2.25	#							
92 × 16.8	#	#	-2.10 to +2.52	#							
100 × 10	#	#	-1.25 to +1.50	#							
101 × 18	#	#	-2.50 to +3.00	#							
112 × 19	#	#	-2.38 to +2.85	#							
123 × 13	#	#	-1.63 to +1.95	#							
131 × 26	#	#	-3.25 to +3.90	#							
140 × 30	#	#	-3.75 to +4.50	#							
150 × 12.5	#	#	-1.56 to +1.88	#							
160 × 20	#	#	-2.50 to +3.00	#							
170 × 26	#	#	-3.25 to +3.90	#							

外径×肉厚 (ミリ)	新材寸法 長さ(ミリ)	外径公差 JIS規格(ミリ)	肉厚公差 JIS規格(ミリ)	製造方法	長さ1メートル当り 重量(kg)	加工区分-在庫工場
46 × 10	2100	±0.80	-12.5%~+15%	熱間押出	8.97	●
50.8 × 14.5	#	#	#	#	13.11	●
56 × 13.8	#	#	#	#	14.51	●
67 × 14.5	#	±1.00	#	#	18.97	●
71 × 18	#	#	#	#	23.77	●
82 × 15	#	#	#	#	25.04	●
92 × 16.8	#	±1.20	#	#	31.47	●
100 × 10	#	#	#	#	22.42	●
101 × 18	#	#	#	#	39.86	●
112 × 19	#	#	#	#	37.22	●
123 × 13	#	#	#	#	44.02	●
131 × 26	#	#	#	#	35.63	●
140 × 30	#	#	#	#	68.01	●
150 × 12.5	#	±1.30*	#	#	82.21	●
160 × 20	#	#*	#	#	42.82	●
170 × 26	#	#*	#	#	69.76	●
190 × 20	#	#*	#	#	93.27	●
200 × 15	#	±1.50*	#	#	84.71	●
200 × 15	#	#*	#	#	69.14	●

Source: Company website

Other products (ordinary steel, specialty steel, titanium, plastic)



Source: Company website

Ordinary and specialty steels are made by adding carbon and other substances to iron to increase its hardness. The company offers a wide variety of products for different applications. Traditionally used for knives and tools, in recent years these materials have also been used for molds that require hardness (ultra-precision molds for IT-related products).

Titanium is lighter, stronger, and more corrosion-resistant than other metals. It has a wide range of applications, including in the aerospace industry.

The company handles a wide variety of plastic materials, from general-purpose plastics (PVC, acrylic) to engineering plastics. Engineering plastics, which have enhanced hardness and resistance to heat and chemicals, are used in a wide range of applications because they have the advantage of being lighter than metals.

In addition, the company handles thermal insulation and heat insulation materials and ceramics.

Backorder items and special-order items

Standard stock items are held in stock at company factories. Alongside these items, customers can place orders for backorder and special-order items, which Hakudo may then order from other companies. Hakudo's management costs on these items are lower, as it buys them from other suppliers rather than processing them in house. Also, they carry no inventory costs. For these reasons, Hakudo includes other companies' inventory in its own product catalogs.

The company handles 27,400 items, which are available for order via the Hakudo Network Service. Hakudo also encourages other companies in the industry to sell their products via this online site as partner suppliers. The company increased the number of items handled by 34,000 YoY, most of which Shared Research understands to be backorder and special-order items.

The company also handles special-order items, which are manufactured in collaboration with various material and parts manufacturers. In this category, the company offers aerospace-standard materials, custom mold bases, aluminum extrusion molds, custom-molded parts, castings, and forgings. The company also provides contract machining services.

The catalog also includes standard stock, backorder, and special-order items in various fields, in aerospace-standard, metal, and plastic materials.

Catalog of backorder and special-order items (Japanese only)



Source: Company website

Product shipping and delivery

The company has a regular truck delivery service that it uses for the domestic market. The company also uses other trucking or parcel delivery services when delivery timing does not coincide with its regularly scheduled routes. To develop its nationwide sales and logistics network, the company requires detailed knowledge of the locations of customers' factories and other facilities. Accordingly, the company commonly uses local transporters who are familiar with the local geography.

The company uses ship or air transport to send products overseas. According to the company, its arrangements can reduce overseas transport by as much as six days compared with other companies' export methods. (The company calculates this savings by cutting the time to provide a quotation from two–three days to one or on the same day, shortening packaging time from three–four days to one, and shipping on the same day rather than on the following day.)

Customers

Customer accounts

The company does not disclose the exact number of customer accounts or sales results by customer. However, the company's customer accounts numbered around 13,000 as of FY03/21, and more than 9,000 of these were for companies registered to use the Hakudo Network Service. Hakudo handles around 20,000 inquiries and invoice requests each day (total for phone, fax, email, and online). According to the company, online inquiries are increasing.

According to the company, about half of quotations lead to actual orders (the order rate). This factors in some degree of duplication with quotations. The transaction price is often cited as the reason for not placing an order. The company explains that it uses prevailing market prices as the starting point for setting transaction prices. It then works to convince the customer by presenting quotations in terms that match customer characteristics (necessary transportation method, payment method, and credit conditions).

Customers by industry

Aluminum is the material Hakudo handles most frequently, accounting for 59.8% of the total in FY03/24. The company's main customers are manufacturers of semiconductor production equipment and related companies. While the company's

products often are shipped directly to component manufacturers, its end customers are the semiconductor production equipment makers who process and assemble these parts and materials. These include Tokyo Electron Ltd. (TSE Prime: 8035), ULVAC, Inc. (TSE Prime: 6728), and SCREEN Holdings Co., Ltd. (TSE Prime: 7735).

Demand for aluminum plate is high in the semiconductor production equipment industry. Aluminum alloy components are often used in semiconductor production equipment, such as vacuum chambers themselves, various parts in the chambers, and internal transport systems.

Aluminum is lightweight and offers corrosion resistance, machining accuracy, and low gas generation. Because of these characteristics, the company's aluminum materials are in demand from large Japanese manufacturers of semiconductor and LCD manufacturing equipment, as well as from overseas manufacturers of semiconductor production equipment.

Demand for semiconductor production equipment is expected to remain strong due to the shortage of semiconductors and the need to manage associated manufacturing risks. As a result, the company believes these manufacturers will be an important customer category for the foreseeable future. Meanwhile, greater semiconductor mounting density is driving the need for higher-precision products and more stringent delivery conditions. In response, the company is developing its own high-spec series of products with improved flatness and precision.

Manufacturers of OA equipment and other industrial machinery are another important customer segment. Large manufacturers of OA equipment, such as Canon Inc. (TSE Prime: 7751) and Ricoh Company, Ltd. (TSE Prime: 7752) are major customers. The standard stock items the company carries track trends in machine tool orders.

Business overview by segment

By segment	FY03/14	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
(JPYmn)	Act.	Act.	Act.	Act.	Act.	Act.	Act.	Act.	Act.	Act.	Act.
Revenue	25,571	29,923	32,461	34,627	43,709	45,228	41,798	39,219	55,441	61,602	57,253
YoY	15.4%	17.0%	8.5%	6.7%	26.2%	3.5%	-7.6%	-6.2%	41.4%	11.1%	-7.1%
Japan	24,580	28,675	31,103	33,227	41,983	43,339	40,069	37,345	52,839	58,804	49,901
YoY	15.3%	16.7%	8.5%	6.8%	26.4%	3.2%	-7.5%	-6.8%	41.5%	11.3%	-15.1%
% of total	96.1%	95.8%	95.8%	96.0%	96.1%	95.8%	95.9%	95.2%	95.3%	95.5%	87.2%
North America	-	-	-	-	-	-	-	-	-	-	4,586
YoY	-	-	-	-	-	-	-	-	-	-	-
% of total	-	-	-	-	-	-	-	-	-	-	8.0%
China	991	1,242	1,168	1,130	1,349	1,306	1,132	1,364	1,719	1,582	1,361
YoY	20.3%	25.4%	-5.9%	-3.3%	19.4%	-3.2%	-13.3%	20.5%	26.1%	-8.0%	-14.0%
% of total	3.9%	4.2%	3.6%	3.3%	3.1%	2.9%	2.7%	3.5%	3.1%	2.6%	2.4%
Other	6	190	270	377	582	597	511	882	1,217	1,217	1,406
YoY	-	-	-	42.2%	39.6%	54.5%	2.5%	-14.4%	72.6%	37.9%	15.5%
% of total	0.0%	0.0%	0.6%	0.8%	0.9%	1.3%	1.4%	1.3%	1.6%	2.0%	2.5%
Segment profit	1,665	2,038	1,706	1,985	2,784	2,249	1,658	1,981	4,256	3,777	2,523
YoY	101.5%	22.4%	-16.3%	16.4%	40.3%	-19.2%	-26.3%	19.5%	114.8%	-11.3%	-33.2%
Operating profit margin	6.5%	6.8%	5.3%	5.7%	6.4%	5.0%	4.0%	5.1%	7.7%	6.1%	4.4%
Japan	1,570	1,922	1,630	1,933	2,734	2,236	1,677	1,941	4,104	3,810	2,627
YoY	88.5%	22.4%	-15.2%	18.6%	41.4%	-18.2%	-25.0%	15.7%	111.4%	-7.2%	-31.0%
Operating profit margin	6.4%	6.7%	5.2%	5.8%	6.5%	5.2%	4.2%	5.2%	7.8%	6.5%	5.3%
% of total	94.3%	94.3%	95.5%	97.4%	98.2%	99.4%	101.1%	98.0%	96.4%	100.9%	104.1%
North America	-	-	-	-	-	-	-	-	-	-126	-205
YoY	-	-	-	-	-	-	-	-	-	-	-
Operating profit margin	-	-	-	-	-	-	-	-	-	-	-
% of total	-	-	-	-	-	-	-	-	-	-	-
China	94	122	84	49	40	-22	-43	21	70	0	-39
YoY	-	29.8%	-31.1%	-41.7%	-18.4%	-	-	-	233.3%	-	-
Operating profit margin	9.5%	9.8%	7.2%	4.3%	3.0%	-	-	1.5%	4.1%	-	-
% of total	5.6%	6.0%	4.9%	2.5%	1.4%	-1.0%	-2.6%	1.1%	1.6%	0.0%	-
Other	-	-6	-8	2	9	35	25	19	81	93	141
YoY	-	-	-	-	350.0%	288.9%	-28.6%	-24.0%	326.3%	14.8%	51.6%
Operating profit margin	-	-	-	474.1%	2.4%	6.0%	4.2%	3.7%	9.2%	7.6%	10.0%
% of total	-	-0.3%	-0.5%	0.1%	0.3%	1.6%	1.5%	1.0%	1.9%	2.5%	5.6%

Source: Shared Research based on company data

The company reports segment information by geographic location. In FY03/23, Japan accounted for 95.5% of revenue. In addition, the company derives its revenue from China and other locations mainly from Japanese manufacturers doing business overseas; most of the company's customers are Japanese.

The North American segment was launched in FY03/23, but the company only recorded upfront expenses associated with investments in the local company and no revenue in the first year, with business operations starting in earnest in FY03/24.

Japan

For the past 10 years, the Japan segment has consistently accounted for approximately 90% of the company's sales. The company does not disclose data by customer. However, it supplies non-ferrous metal products to industrial equipment manufacturers and peripheral manufacturers. Of these, the company's main customers are manufacturers of precision instruments (semiconductor production and OA equipment).

In FY03/21, demand for semiconductor manufacturing equipment increased amid a global semiconductor supply shortage. According to the company, sales to the semiconductor and LCD manufacturing equipment industry previously accounted for around 20% of the total, but by FY03/22, this weighting had increased to roughly 45%. That growth trend continued into FY03/23, but demand slowed in 2H, due partly to the downturn in the semiconductor market. With demand remaining weak, revenue and profit declined in FY03/24. Most materials supplied to the semiconductor manufacturing equipment industry are aluminum sheets, which is one of the reasons for the increase in Hakudo's aluminum handling volume.

North America

The company established Hakudo USA, Inc. in FY03/23, marking the start of its business in the North American market. Hakudo USA subsequently acquired a 51% stake in West Coast Aluminum & Stainless, a local company, and made it into a subsidiary (sub-subsidiary of Hakudo). Although the North America segment recorded revenue in FY03/24, it continued to post an operating loss due to post-merger integration (PMI) and other factors. Before the merger, West Coast Aluminum & Stainless had sales of JPY5.2bn in FY12/21 (+27.4% YoY).

China

This segment accounts for around 2–3% of revenue, or about JPY1.4bn for FY03/24. Main clients in this segment are Japanese companies doing business in China. The company receives orders from Chinese production bases and transports products to these customers from Japan, by sea or air. It also sources some products locally.

Others

The segment mainly sells to Thailand and other ASEAN nations. As with China, sales are mainly to Japanese companies doing business locally.

Market and value chain

“Non-ferrous metal” is a catch-all term for metals other than iron. The reason for this classification is that iron is used in overwhelmingly greater quantities. There are many types of non-ferrous metals, each with different properties, but they can be broadly classified into three categories: base metals, precious metals, and rare metals. Non-ferrous metals are also added to steel to significantly change and improve its properties. Non-ferrous metals can be used on their own or as alloys with other non-ferrous metals.

Production of non-ferrous metals

Base metals are those that are produced in large quantities and for which large reserves exist. They are widely used in industrial materials and everyday items. Iron is also a base metal. Aluminum and copper are major non-ferrous base metals. Precious metals (such as gold, silver, and platinum) are used for jewelry, but they are also widely used as industrial materials. Rare metals (such as lithium, titanium, and nickel) are scarce, either because few reserves exist or because they are difficult to mine or extract.

The company mainly handles non-ferrous metals that are used in large quantities (mainly aluminum and copper). In FY03/24, aluminum accounted for 59.8% of handling volume, copper for 14.7%, stainless steel for 20.7%, and other materials including specialty steels for 4.8%.

Aluminum

High demand for aluminum stems from its numerous physical characteristics. For one, aluminum's specific gravity is 2.7, which is about one-third that of iron (7.8) and copper (8.9). Aluminum's strength doubles when other elements are added to form an alloy, hence increasing its specific strength. Even alloys of aluminum have approximately the same specific gravity as aluminum, as only small amounts of other elements are added. When exposed to air, aluminum forms a strong and stable oxide film, providing excellent corrosion resistance. Corrosion resistance can be improved further by anodizing, which artificially creates an oxide film. High ductility makes aluminum suitable for plastic working. It has a low melting point (660°C), which can be reduced further by eutectic alloying. This characteristic and its good flowability make aluminum suitable for casting.

Aluminum has high electrical and thermal conductivity. For the same mass, aluminum has twice the electrical conductivity of copper and three times the thermal conductivity of iron. Aluminum reflects more than 90% of radiant energy and has high light and heat reflectance. As its color resembles white, aluminum need not be painted. Being non-toxic, it can be used for packaging daily necessities, food, and medicine. Aluminum is non-magnetic and has excellent vacuum characteristics (low gas release rate even in vacuum). For this reason, aluminum is widely used in semiconductor production and LCD manufacturing equipment, which require some production processes to be conducted in a vacuum state. Aluminum is also highly recyclable; only 3% as much energy is needed to re-melt and recycle used products as is used in electrolytic refining.

Aluminum market prices are updated every three months.

Aluminum prices

(JPY'000/MT)	2018				2019				2020			
	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Aluminum ingots	219	246	227	216	208	190	188	193	173	169	184	209
(JPY'000/MT)	2021				2022				2023			
	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Aluminum ingots	238	269	312	306	415	343	319	325	307	308	323	316
(JPY'000/MT)	2024											
	End-Mar	End-Jun	End-Sep	End-Dec								
Aluminum ingots	400											

Source: Shared Research based on World Bank data

Copper

Copper is widely used in electrical and electronic products due to its excellent thermal conductivity, electrical conductivity, workability, and ductility. “Copper” products may include products made solely from copper or alloys containing zinc (brass), tin and phosphorous (phosphor bronze), or nickel and zinc (nickel silver) before being melted, cast, rolled, drawn, or forged into plates, tubes, bars, wires, or other shapes.

Market prices for copper are updated daily.

Electrolytic copper prices

(JPY'000/MT)	2017				2018				2019			
	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Electrolytic copper price	704	674	774	810	766	810	718	727	759	677	658	705
(JPY'000/MT)	2020				2021				2022			
	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Electrolytic copper price	606	659	750	848	1,022	1,111	1,079	1,128	1,264	1,270	1,159	1,185
(JPY'000/MT)	2023				2024							
	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec				
Electrolytic copper price	1,239	1,240	1,278	1,267	1,370							

Source: Shared Research based on data from the Japanese Electric Wire & Cable Makers' Association

Stainless steel

Stainless steel is a rust-resistant alloy consisting mainly of iron (more than 50%) and containing more than 10.5% chromium. In addition to being corrosion resistant, stainless steel offers heat resistance, workability, strength, and other characteristics, as well as being easy to maintain. It is also 100% recyclable.

When added to iron, the chromium combines with oxygen to form a thin protective film (passive film) on the surface of the steel. This passive film helps prevent rust. Although this film is thin (3 millionths of a millimeter), it is tough. If the film is broken, it regenerates automatically in the presence of oxygen.

Stainless steel is used in a wide range of applications, from general home applications to the nuclear power and space development sectors. Stainless steel can also be selected to match various performance requirements, such as corrosion resistance, heat resistance, strength, and formability.

Stainless steel prices are determined by negotiation between buyer and seller whenever manufacturers revise their prices.

Stainless steel prices

	2017				2018				2019			
(JPY'000/MT)	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Stainless steel sheet	330	330	330	330	350	360	360	360	355	350	350	360
	2020				2021				2022			
(JPY'000/MT)	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec
Stainless steel sheet	370	360	360	360	380	400	420	450	500	600	680	680
	2023				2024							
(JPY'000/MT)	End-Mar	End-Jun	End-Sep	End-Dec	End-Mar	End-Jun	End-Sep	End-Dec				
Stainless steel sheet	680	660	640	610	600							

Source: Shared Research based on data from the Japan Metal Daily

Key customer trends

The company's main customers are manufacturers of semiconductor production equipment, OA equipment, and other industrial equipment. A shortage of semiconductors and the uneven distribution of manufacturing locations have become a problem, and the global system of semiconductor production is being reconfigured as a result. Consequently, the company expects demand for semiconductor fabrication equipment to grow steadily for the foreseeable future. In relation to other equipment, orders for the company's standard stock items tend to track orders for machine tools. In the category of industrial machinery, demand for non-ferrous materials is growing in line with efforts to reduce environmental impact.

Demand for semiconductor production equipment

Japan-based equipment sales											Forecast			
(JPYbn)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E	2025E	CAGR
Semiconductor production equipment	1,127.8	1,292.1	1,308.9	1,564.2	2,043.6	2,247.9	2,073.0	2,383.5	3,443.0	3,922.2	3,177.0	4,034.8	4,438.3	
FPD production equipment	348.5	271.7	299.3	485.7	491.6	536.4	475.8	463.8	480.9	428.2	321.1	353.2	476.9	
Total	1,476.3	1,563.8	1,608.2	2,049.9	2,535.2	2,784.3	2,548.8	2,847.3	3,923.9	4,350.4	3,498.1	4,388.0	4,915.2	
YoY														
Semiconductor production equipment	9.7%	14.6%	1.3%	19.5%	30.6%	10.0%	-7.8%	15.0%	44.5%	13.9%	-19.0%	27.0%	10.0%	
FPD production equipment	66.8%	-22.0%	10.2%	62.3%	1.2%	9.1%	-11.3%	-2.5%	3.7%	-11.0%	-25.0%	10.0%	35.0%	
Total	19.3%	5.9%	2.8%	27.5%	23.7%	9.8%	-8.5%	11.7%	37.8%	10.9%	-19.6%	25.4%	12.0%	4.2%

Source: Shared Research based on data from Semiconductor Equipment Association of Japan

Machine tool demand

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total order value	1,509,397	1,480,592	1,250,003	1,645,554	1,815,771	1,229,900	901,835	1,541,419	1,759,601	1,486,519
YoY	135.1%	98.1%	84.4%	131.6%	110.3%	67.7%	73.3%	170.9%	114.2%	84.5%
Domestic demand	496,391	586,240	530,545	629,369	750,343	493,188	324,455	510,324	603,231	476,821
YoY	123.8%	118.1%	90.5%	118.6%	119.2%	65.7%	65.8%	157.3%	118.2%	79.0%
Overseas demand	1,013,006	894,352	719,458	1,016,185	1,065,428	736,712	577,380	1,031,095	1,156,370	1,009,698
YoY	141.4%	88.3%	80.4%	141.2%	104.8%	69.1%	78.4%	178.6%	112.1%	87.3%

Source: Shared Research based on data from the Japan Machine Tool Builders' Association

Main competitors

Hakudo is a trading company specializing in non-ferrous metals (aluminum, copper, and stainless steel) and handling plastics and other metals. One competitor category is sales companies affiliated with materials manufacturers that maintain trading company functions. Examples include Nippon Steel Trading Corporation (TSE Prime: 9810), which is affiliated with Nippon Steel Corporation (TSE Prime: 5401), and JFE Shoji Corporation (unlisted), which is a group company affiliated with JFE Holdings, Inc. (TSE Prime: 5411). Steel is also handled by general trading companies, due to the large quantities involved.

Such relationships also exist between manufacturers of non-ferrous materials (which are handled in smaller quantities) and sales subsidiaries. Manufacturer-affiliated trading companies include SDAT Co., Ltd. (unlisted), a group company of Showa Denko KK (TSE Prime: 4004). Some trading companies are affiliated with general trading companies, such as Itochu Metals Corporation (unlisted), which is affiliated with Itochu Corporation (TSE Prime: 8001), and Marubeni Metals Corp. (unlisted), a group company of Marubeni Corporation (TSE Prime: 8002). Hakudo is different, being unaffiliated with any manufacturer or general trading company. Rather, Hakudo exists independently, having expanded from its origins as a privately owned firm.

Rather than dealing only with specific materials, Hakudo handles a variety (including aluminum, copper, stainless steel, and plastic). Hakudo also differs in the way it positions itself. Hakudo sees itself as a convenience store for non-ferrous metals. In addition to cutting materials to standard shapes and sizes, it handles other companies' products, offering a wide range of items that can be ordered 24 hours a day.

We have compared Hakudo with listed companies that conduct similar activities. Alconix Corporation (TSE Prime: 3036) and UEX, Ltd. (TSE Standard: 9888) are similar to Hakudo in that they also have a processing function.

Comparison of listed companies in the same industry

(JPYmn)	Hakudo (7637)			Alconix (3036)			MonotaRo (3064)			Onoken (7414)		
	FY03/22	FY03/23	FY03/24	FY03/22	FY03/23	FY03/24	FY12/21	FY12/22	FY12/23	FY03/22	FY03/23	FY03/24
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Revenue	55,441	61,602	57,253	156,286	178,333	174,901	189,731	225,970	254,286	222,759	262,653	281,933
Gross profit	10,310	10,153	9,268	25,767	5,075	22,921	54,045	65,437	75,964	27,160	26,086	26,740
SG&A expenses	6,054	6,375	6,744	14,746	16,682	17,457	29,916	39,224	44,654	15,403	16,350	18,520
Operating profit	4,256	3,777	2,523	11,020	8,393	5,463	24,129	26,213	31,309	11,756	9,735	8,219
Recurring profit	4,374	3,989	2,848	11,009	8,176	5,447	24,302	26,398	31,538	11,977	9,950	8,342
Net income	2,964	2,738	1,917	7,507	5,488	1,598	17,552	18,658	21,813	8,145	7,022	5,761
ROE	15.7%	13.3%	8.8%	15.1%	9.2%	2.5%	33.1%	28.4%	27.5%	10.4%	8.2%	6.3%
ROA (RP-based)	11.7%	9.4%	6.7%	6.8%	4.4%	2.9%	27.5%	25.4%	26.3%	7.6%	5.5%	4.2%
Operating profit margin	7.7%	6.1%	4.4%	7.1%	4.7%	3.1%	12.7%	11.6%	12.3%	5.3%	3.7%	2.9%
Total assets	41,781	43,150	42,016	176,437	191,890	182,890	95,789	111,737	128,352	170,468	188,688	208,502
Net assets	19,829	21,229	22,481	57,331	63,047	66,350	60,283	72,621	86,982	83,275	90,321	95,550
Equity ratio	47.5%	49.2%	53.5%	32.2%	32.6%	35.9%	61.9%	64.5%	67.3%	48.5%	47.5%	45.4%
Cash flows from operating activities	4,556	321	2,528	-3,329	226	15,215	12,258	15,483	29,932	-5,139	-4,395	15,942
Cash flows from investing activities	-677	-1,553	-1,612	-3,257	-7,045	-2,622	-14,290	-12,535	-8,401	-5,036	309	-20,778
Cash flows from financing activities	-1,202	-1,417	-1,329	5,760	5,896	-19,281	-5,766	-5,514	-11,705	10,455	4,600	8,662
Cash and deposits	8,675	6,038	5,701	25,944	25,814	19,721	11,068	8,586	18,454	2,099	2,613	6,440
Interest-bearing debt	0	351	0	61,471	71,823	55,199	9,620	5,584	1,089	30,088	36,351	46,764

(JPYmn)	Shinsho Corporation (8075)			UEX (9888)			Misumi Group (9962)		
	FY03/22	FY03/23	FY03/24	FY03/22	FY03/23	FY03/24	FY03/22	FY03/23	FY03/24
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Revenue	494,351	584,856	591,431	45,524	53,829	52,113	366,160	373,151	367,649
Gross profit	33,533	38,518	39,144	9,224	11,949	9,949	166,863	171,078	167,377
SG&A expenses	23,478	25,058	25,847	7,102	7,676	7,865	114,652	124,463	129,011
Operating profit	10,054	13,459	13,296	2,122	4,273	2,084	52,210	46,615	38,365
Recurring profit	9,726	12,668	12,814	2,252	4,350	2,260	52,500	47,838	41,265
Net income	7,136	9,196	9,111	1,400	2,828	1,296	37,557	34,282	28,152
ROE	12.0%	13.6%	11.5%	10.7%	18.7%	7.7%	14.8%	11.7%	8.6%
ROA (RP-based)	3.0%	3.3%	3.2%	5.3%	9.0%	4.4%	16.5%	13.2%	10.4%
Operating profit margin	2.0%	2.3%	2.2%	4.7%	7.9%	4.0%	14.3%	12.5%	10.4%
Total assets	364,029	395,092	396,408	45,663	50,931	51,976	347,390	378,458	413,517
Net assets	63,753	73,896	87,480	14,437	17,135	18,134	279,959	314,224	347,679
Equity ratio	17.3%	18.3%	21.7%	30.3%	32.3%	33.4%	79.8%	82.3%	83.3%
Cash flows from operating activities	-9,279	7,664	9,090	1,932	1,288	1,019	55,391	31,447	54,567
Cash flows from investing activities	-806	-1,523	-2,789	-448	-501	-589	-22,761	-19,033	-18,995
Cash flows from financing activities	4,068	-9,188	-7,240	-1,137	-466	-46	-9,609	-11,169	-18,968
Cash and deposits	15,397	12,800	12,308	5,419	5,811	6,376	101,443	106,640	133,376
Interest-bearing debt	66,461	63,563	60,757	8,256	8,291	9,426	7,184	7,684	6,818

Source: Shared Research based on company data

Among the six companies, Hakudo and UEX have the smallest revenue. This reflects the fact that Onoken Co., Ltd. (TSE Prime: 7414) and Shinsho Corporation (TSE Prime: 8075) mainly handle steel and construction materials. Alconix handles a large volume of rare earth materials. Although specializing in stainless steel, UEX's business model is relatively close to Hakudo's. Another company that could be considered a competitor with a similar business model is Shinx Corporation (unlisted, FY03/23 revenue of JPY17.5bn, +7.4% YoY), which was established by former Hakudo employees and specializes in aluminum materials.

Misumi Group Inc. (TSE Prime: 9962) is comparable to Hakudo because it has established a trading company function to support manufacturing through its VONA (Variation & One-stop by New Alliance) strategy. This function is like Hakudo's backorder items business. Like the Misumi Group, MonotaRO Co., Ltd. (TSE Prime: 3064) has a business model of supplying materials to construction sites, and thus could be considered a competitor.

Hakudo's OPM is higher than all except Misumi Group and MonotaRO. Shared Research understands that Hakudo generates higher margins by offering a combination of products and services, adding value through quality and delivery times.

Hakudo is among the smallest in terms of assets; UEX is around the same size. UEX, however, specializes in stainless steel. Although Hakudo also handles stainless steel, it has diversified into other areas, focusing on aluminum and copper.

Strengths and weaknesses

Strengths

In addition to its inventory function (as a trading company), the company has a processing function, which helps lower customers' manufacturing costs.

Hakudo has a variety of processing capabilities that other specialized trading companies lack. Customers can take advantage of these capabilities to have Hakudo process materials for them, as well as to stock these materials. This arrangement can reduce manufacturing time and costs for customers. Customers typically place small orders (15kg to 20kg per order); maintaining their own processing equipment for batches of this size would be costly.

Hakudo does not limit itself to cutting materials, and has the ability to process materials to a high quality (e.g., milling and forming special shapes), including complexity, detail, and tolerance level accuracy (margin of error) to reduce customers' manufacturing costs. The company has a total of 30 types of metal processing equipment at its five processing plants with a network of business bases capable of providing processing services nationwide. These processing services are included as added value in the transaction price, which has enabled the company to maintain a high OPM compared with other metal trading companies like Alconix, UEX, and Shinsho Corporation.

The Hakudo Network Service is a highly convenient service that enables immediate order placement and delivery, using such data as market prices, processing costs, and customer information.

According to Hakudo, it is one of only two non-ferrous trading companies in Japan that have a 24-hour online system for ordering. (The other company is Shinx Corporation [unlisted], which was established by former Hakudo employees.) Hakudo handles a wide range of non-ferrous metals, such as aluminum and copper. Customers can get quotations and place orders for products regardless of office hours, which is convenient and reduces ordering costs.

The company's online service can present the optimal price estimate on the spot based on accumulated data such as inventory of standard items, items ordered from other companies, the current price of materials, processing cost, and the customer's order history and credit information. The number of registered users (companies) of Hakudo Network Service exceeds 10,000. Based on the METI 2016 Economic Census for Business Activity, there were 20,651 business sites of production equipment manufacturers in Japan, which means that on a simple calculation basis, around 48% of these companies are registered with Hakudo Network Service. Given the usefulness of the service, Hakudo is also working on an e-commerce platform for nonferrous metals by inviting competitors to sell products on the network.

Accumulated customer data allows the company to manage inventories and control processing costs.

Hakudo led its competitors in introducing a computerized system (in 1968) and developing a database. After repeated improvement and more than 50 years of using the system, Hakudo has accumulated information on 13,000 (mainly Japanese) customers. This information includes order histories, payment terms, and credit information. The company uses this database to calculate customer-specific transaction prices (including shipping fees). The system allows the company to adjust its sourcing volumes based on perceived customer trends, identify methods of processing from base materials (as sourced) into end materials (in inventory after processing), and optimize inventory management. This system is also used to manage processing costs by calculating how to shape source materials (at the point of sourcing) to minimize scrap.

The customer database is not only used to calculate transaction prices (price including delivery), but also for adjustment of purchases for the next order onward based on an estimate of customer trends, processing method of the purchased base material into the end material (inventory item or other), and inventory control optimization. The data can also be used to calculate the optimal pattern placement on the base material to minimize scrap (Hakudo's term: "pick and cut system"). Other metal trading companies mainly handling copper do not have these functions.

Weaknesses

The company is susceptible to volatility in raw material prices, as it handles non-ferrous materials for specific customer segments.

Hakudo handles various non-ferrous materials, centering on aluminum and copper. The company processes these materials into standard stock items that it sells based on market prices at the time transactions occur. Most customers are manufacturers of precision industrial and electrical equipment (such as semiconductor production and OA equipment), which use a large amount of components made of these materials. If raw material prices decline while products are in inventory, the company can incur inventory valuation losses. This situation is amplified during recessions following demand expansion, when market prices and sales decline at the same time. In FY03/20, the company incurred a loss of JPY170mn due to such a difference in market value, equivalent to around 10% of recurring profit for the year (of JPY1.7bn). The company is particularly sensitive to fluctuations in market prices on aluminum and copper, which are in high demand among its customers.

A focus on small order quantities and rapid deliveries makes it difficult to achieve economies of scale in logistics and control logistics costs.

The company provides detailed delivery services to its customers, but orders are small compared with companies that handle steel products in bulk. (Shared Research estimates that orders average JPY23,000 in FY03/23). This situation can cause transportation expenditure to rise. Transportation expenses account for a larger proportion of SG&A spending (on average, just over 30% over the past three years) than personnel expenses, which are typically high at trading companies. Looking at similar companies over the same three-year period, the figure was 15.1% for UEX. (Alconix does not disclose transportation as a key expense category.)

The company seeks to differentiate itself by the convenience its “exceptional speed” provides, but this can lead to substantial delivery costs because orders are often small (averaging 15–20kg), and the company handles around 10,000 orders per day. The company has its own regular truck service, but the number of items and delivery conditions vary from customer to customer, so the company also uses courier services as well as overseas sea and air transport services. As a result, transportation expenses tend to be higher than other companies.

The company has limited ability to meet the needs of Japanese customers that are expanding overseas.

While Japanese manufacturers are shifting their production bases overseas, Hakudo is applying the business model it has developed in Japan (sales activities and processing plants) to its Japanese customers that are developing business overseas. In other words, Hakudo is attempting to extend its domestic business by exporting from Japan. This situation makes it difficult for Hakudo to showcase the strengths that differentiate the company from competitors in Japan through services that meet the demands of local customers. As existing customers shift more production overseas, they will begin to require the same level of sophistication there as they do in Japan. To satisfy this need, they are likely to expand relationships with local companies. Hakudo currently has overseas sales companies in the US, China, Thailand, and Vietnam, but its partners in those countries have less extensive processing capabilities than those in Japan. In deploying its business model overseas, the company faces different operating environments and business customs from Japan. To leverage the business it has built in Japan, the company will need to re-establish sales, processing, and cost management systems tailored to local markets.

Historical performance and financial statements

Income statement

Income statement	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
(JPYmn)	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Revenue	29,923	32,461	34,627	43,709	45,228	41,798	39,219	55,441	61,602	57,253
YoY	17.0%	8.5%	6.7%	26.2%	3.5%	-7.6%	-6.2%	41.4%	11.1%	-7.1%
Cost of revenue	24,436	27,116	28,613	36,183	38,027	35,309	32,549	45,131	51,450	47,985
Gross profit	5,487	5,345	6,014	7,527	7,201	6,489	6,670	10,310	10,153	9,268
Gross profit margin	18.3%	16.5%	17.4%	17.2%	15.9%	15.5%	17.0%	18.6%	16.5%	16.2%
SG&A expenses	3,449	3,639	4,029	4,742	4,951	4,830	4,688	6,054	6,375	6,744
SG&A ratio	11.5%	11.2%	11.6%	10.8%	10.9%	11.6%	12.0%	10.9%	10.3%	11.8%
Operating profit	2,038	1,707	1,986	2,785	2,250	1,659	1,982	4,256	3,777	2,523
YoY	22.4%	-16.3%	16.3%	40.3%	-19.2%	-26.3%	19.5%	114.7%	-11.2%	-33.2%
Operating profit margin	6.8%	5.3%	5.7%	6.4%	5.0%	4.0%	5.1%	7.7%	6.1%	4.4%
Non-operating income	93	95	96	95	121	131	126	155	241	372
Interest income	8	10	7	7	6	8	7	7	10	13
Dividend received	8	9	10	6	7	10	8	30	102	109
Real estate rent	69	71	72	71	79	85	86	91	102	104
Other	7	6	7	11	29	28	15	6	8	47
Non-operating expenses	59	52	39	34	37	92	24	37	30	47
Expenses of real estate rent	20	23	14	13	24	36	16	25	20	25
Commission for purchase of treasury shares	20									
Commission expenses	1	1	1	0	0	1	0	0	0	0
Foreign exchange losses	7	18	13	8		28				
Loss on retirement of non-current assets	3	4	7	3	3	10	5	3	6	15
Cancellation penalty	1	-								
Litigation expenses				6						
Valuation losses on golf membership					5	7				
Other	6	6	4	4	5	11	3	8	4	2
Recurring profit	2,073	1,750	2,043	2,846	2,334	1,697	2,083	4,374	3,989	2,848
YoY	21.7%	-15.5%	16.7%	39.3%	-18.0%	-27.3%	22.8%	109.9%	-8.8%	-28.6%
Recurring profit margin	6.9%	5.4%	5.9%	6.5%	5.2%	4.1%	5.3%	7.9%	6.5%	5.0%
Extraordinary gains										
Gain on sales of investment securities										
Extraordinary losses	16						197			
Loss on valuation of investment securities										
Impairment losses	16									
Retirement benefit expenses							197			
Other										
Income taxes	705	556	637	818	769	549	693	1,410	1,251	957
Implied tax rate	34.3%	31.7%	31.2%	28.7%	32.9%	32.3%	36.7%	32.2%	31.4%	33.6%
Net income attributable to non-controlling interests	-0	-0	-0	0	0	0	0	0	0	-26
Net income attributable to owners of the parent	1,351	1,195	1,405	2,028	1,565	1,149	1,282	2,964	2,738	1,917
YoY	27.4%	-11.6%	17.6%	44.3%	-22.8%	-26.6%	11.6%	131.2%	-7.6%	-30.0%
Net margin	4.5%	3.7%	4.1%	4.6%	3.5%	2.7%	3.3%	5.3%	4.4%	3.3%

Source: Shared Research based on company data

Note: Figures may differ from company materials due to differences in rounding methods.

In the past decade, revenue trended upward consistently. Since then, revenue has declined in some years, but mainly due to external factors. In FY03/20 and FY03/21, revenue declined due to the global economic impact of the COVID-19 pandemic, and in 1H FY03/23 through FY03/24, demand from semiconductor production equipment manufacturers (core customers) tuned down amid a weak semiconductor market.

Operating profit has hovered between 5% and 6%; the trading company business makes it difficult to leverage operating profit by increasing sales. For wholesalers engaged mainly in trading, OPM tends to average between 1% and 2%. However, Hakudo also offers a processing service that machines products to customer specifications. This arrangement allows the company to maintain higher profit margins by setting its own prices, based on customer requirements and characteristics in addition to market prices.

SG&A spending run to around 11% of revenue. Transportation expenses account for more than 30% of this amount, which is even higher than personnel expenses (typically the largest expense item for most trading companies). Shared Research understands that the increase in transportation expenses is connected to the way the company's sale structure emphasizes delivery.

SG&A expenses

SG&A expenses (JPYmn)	FY03/13	FY03/14	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
SG&A expenses	2,845	3,015	3,449	3,639	4,029	4,742	4,951	4,830	4,688	6,054
Freightage expenses	741	904	1,082	1,147	1,298	1,540	1,596	1,578	1,531	1,864
Provision for employee bonuses	12	1	-3	-3	1	-0	3	-2	1	-4
Salaries and allowances	679	661	666	708	758	871	948	1,042	1,026	1,105
Employee bonuses	196	189	140	152	141	226	212	125	103	332
Provision for employee bonuses	-	-	171	141	188	231	170	151	209	334
Provision for directors' bonuses	21	17	43	50	73	98	56	37	48	214
Retirement benefit expenses	28	30	28	26	34	32	34	38	41	52
Outsourcing costs	224	298	369	391	419	447	492	461	490	684
Depreciation	90	69	68	70	68	97	105	131	144	156

Source: Shared Research based on company data

Balance sheet

Balance sheet(JPYmn)	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Assets										
Cash and deposits	4,301	4,256	4,820	5,902	6,088	4,969	5,924	8,675	6,038	5,701
Notes and accounts receivable	9,857	10,137	11,259	14,045	12,001	10,780	10,847	13,323	12,592	11,657
Electronically recorded monetary claims - operating			398	950	1,330	1,753	2,004	3,688	4,243	4,396
Inventories	4,750	4,446	4,953	5,450	5,866	6,077	5,961	7,803	10,632	10,222
Deferred tax assets	181	172	245	278						
Other	51	65	99	130	81	138	140	154	348	181
Allowance for doubtful accounts	-22	-15	-16	-15	-23	-21	-25	-26	-24	-28
Total current assets	19,119	19,060	21,758	26,740	25,343	23,695	24,851	33,616	33,830	32,128
Buildings and structures	1,697	1,553	1,420	1,918	1,866	1,832	1,717	1,637	1,529	7,863
Machinery, equipment and vehicles	1,560	1,785	2,505	2,518	2,894	2,748	2,590	2,495	2,578	9,193
Land	1,900	1,900	1,900	1,900	1,904	1,904	1,900	1,900	1,900	1,900
Other	79	79	153	151	172	124	163	66	243	949
Total tangible fixed assets	5,236	5,317	5,977	6,487	6,835	6,608	6,370	6,098	6,250	6,653
Total intangible assets	239	217	219	261	407	412	402	509	1,414	1,423
Investment securities	436	403	384	438	444	368	908	944	1,018	1,232
Deferred tax assets	7	11	26	300	291	338	399	429	436	348
Net defined benefit asset	76	77	69	65	59	53				
Other	80	83	171	178	237	597	185	185	203	
Investments and other assets	597	575	650	982	1,031	1,355	1,492	1,558	1,656	1,812
Total fixed assets	6,073	6,109	6,846	7,451	8,273	8,376	8,264	8,165	9,320	9,888
Total assets	25,191	25,169	28,604	34,191	33,616	32,071	33,115	41,781	43,150	42,016
Liabilities										
Notes and accounts payable	10,067	9,929	9,113	10,108	7,508	6,774	5,797	7,844	7,482	7,159
Electronically recorded obligations			2,907	5,662	6,921	6,736	7,335	10,809	11,539	9,988
Short-term debt					357				351	
Accrued expenses	509	544	651	769	693	702	749	987	860	788
Income taxes payable	523	155	486	541	372	210	469	1,146	580	324
Deferred tax assets										
Provision for directors' bonuses	43	50	73	98	57	37	48	214	123	74
Provision for bonuses	286	239	312	373	306	274	372	605	485	384
Other	207	216	231	350	461	212	419	299	349	635
Total current liabilities	11,636	11,133	13,772	17,900	16,630	14,946	15,190	21,903	21,768	19,420
Long-term debt										
Deferred tax assets					1	0	0	0		
Reserve for retirement benefits					27	13	15	11	10	12
Long-term guarantee deposited	12	14	15	14	14	15	16	15	15	15
Other	17	16	16	16	16	16	25	22	128	88
Total fixed liabilities	29	31	31	30	58	44	56	48	152	114
Total liabilities	11,665	11,163	13,804	17,930	16,688	14,990	15,246	21,952	21,920	19,535
Net assets										
Capital stock	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Capital surplus	621	621	621	621	621	621	621	621	621	621
Retained earnings	13,001	12,105	13,000	14,364	15,079	15,354	15,978	17,740	19,060	20,001
Treasury stock	-1,547	-1	-1	-1	-1	-2	-2	-2	-2	-2
Accumulated other comprehensive income	451	281	181	277	230	107	272	470	526	860
Total net assets	13,526	14,006	14,801	16,261	16,928	17,081	17,870	19,829	21,229	22,481
Working capital	4,540	4,655	7,099	9,387	10,359	10,083	11,010	13,281	15,743	14,719
Total interest-bearing debt					357				351	
Net debt	-4,301	-4,256	-4,820	-5,902	-5,730	-4,969	-5,924	-8,675	-5,688	-5,701

Source: Shared Research based on company data

Note: Figures may differ from company materials due to differences in rounding methods.

Over the past decade, assets have expanded nearly in lockstep with revenue, with trade receivables and payables both growing. Assets increased due to capex around FY03/18. Performance declined in FY03/20 and FY03/21 and assets remained almost unchanged, but performance began to recover in FY03/22 and remained favorable in FY03/23, against which backdrop assets increased for two consecutive years. Assets decreased YoY in FY03/24 due to a reduction in working capital and a decline in trade receivables and payables, driven by the contraction of business with semiconductor production equipment manufacturers amid the semiconductor market downturn.

Cash and deposits have been stable, so working capital is essentially self-financed. The company has focused on remaining debt-free. Over the past 10 years, the company has had virtually no interest-bearing debt, except for FY03/19 and FY03/23, when it had borrowings of about JPY300mn.

Cash flow statement

Cash flow statement (JPYmn)	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.	Cons.
Cash flows from operating activities (1)	1,255	1,269	2,414	3,103	2,074	1,503	2,128	4,556	321	2,528
Income before income taxes	2,056	1,750	2,043	2,846	2,334	1,697	1,887	4,374	3,989	2,848
Depreciation	503	578	657	768	801	892	836	840	845	1,048
Gains (losses) on sale of fixed assets	4	3	7	3	3	10	1	3	5	13
Change in working capital	-1,006	-185	30	-53	-4	-363	-535	-393	-1,983	-577
Cash flows from investing activities (2)	-337	86	-1,301	-1,379	-1,028	-1,367	-553	-677	-1,553	-1,612
Purchase of property, plant and equipment and intangible assets	-828	-715	-1,199	-1,362	-1,167	-925	-552	-664	-696	-1,338
Proceeds from sales of property, plant and equipment and intangible assets	13	12	3	3	2	13	9	0	3	6
Free cash flow (1+2)	917	1,354	1,113	1,724	1,046	136	1,575	3,879	-1,231	916
Cash flows from financing activities	-1,990	-544	-511	-664	-850	-1,230	-657	-1,202	-1,417	-1,329
Cash dividends paid	-424	-544	-510	-663	-850	-873	-657	-1,202	-1,417	-974
Change in cash and cash equivalents	-1,016	754	565	1,082	186	-1,119	956	2,751	-2,636	-338

Source: Shared Research based on company data

Notes: Figures may differ from company materials due to differences in rounding methods.

Cash flows from operating activities

Over the past 10 years, operating activities have been a net source of cash, mostly in line with sales growth. The company explains that it handles nearly 20,000 inquiries and estimates each day, and around half of these result in orders. Orders are based on market prices. The company adds fees for extra services it provides and specifies the transaction price as the sum of these figures. Due to this methodology, most of the company's orders generate profit equivalent to the company's added value. Accordingly, the company has posted stable pre-tax net income, although fluctuating in tandem with sales changes. In FY03/23, the company strategically increased inventories and increased corporate tax payments, resulting in a significant decrease in cash flows from operating activities, but this trend was reversed in FY03/24 on a decrease of inventories and trade payables.

Cash flows from investing activities

Over the past 10 years, investing activities have typically used cash. The company differentiates itself from competitors through the ability to provide standard products immediately (by having them fully stocked), and the ability to perform complex and highly precise machining functions as requested by customers. To maintain and strengthen these characteristics, the company has five factories in Japan that serve as both warehouses for inventory products and processing plants. In FY03/23, cash outlays increased with the purchase of metalworking machines with new functions, the establishment of a new company in preparation for doing business in North America, and the consolidation of new subsidiaries through investment. Cash flows from investing activities were little changed from the previous year in FY03/24 due to domestic capex and IT investment.

Cash flows from financing activities

Financing activities have been a net use of cash in each of the past 10 years. Cash flows from financing activities have essentially paralleled dividend payments. However, expenditures exceeded dividend payments in FY03/15 (due to the repurchase of treasury stock) and in FY03/20 (due to the repayment of long-term debt). In FY03/22, total dividends doubled. The company again doubled total dividends in FY03/23, resulting in a 45.2% YoY increase in dividend payout ratio. Cash flows from financing activities were little changed from the previous year in FY03/24, because the company repaid long-term borrowings associated with the subsidiary of a US subsidiary which was included in the scope of consolidation in FY03/23, as well as paying dividends.

Historical performance

Full-year FY03/24 results

Summary

- Revenue: JPY57.3bn (-7.1% YoY)
- Operating profit: JPY2.5bn (-33.2% YoY)
- Recurring profit: JPY2.8bn (-28.6% YoY)
- Net income attributable to owners of the parent: JPY1.9bn (-30.0% YoY)

Changes in market conditions and demand

The semiconductor production equipment industry, which significantly affects the company's group performance, is expected to see an increase in demand in the medium term for semiconductors driven by DX, AI, and EV. However, more and more semiconductor manufacturers moved to adjust their inventory and production to review their capital investment plans in response to slowing demand for mobile devices such as smartphones and PCs, servers, and other IT equipment. In the aerospace industry, demand for commercial aircraft recovered, and government demand, particularly in defense, was strong. Meanwhile, the recovery of demand in the machine-tool industry delayed due to concerns about global inflation and high interest rates.

The company established a new base (Iga Warehouse) in Iga, Mie Prefecture, to strengthen its processing services, and focused on developing new customers in the aerospace and automotive industries, which the company considers to be growth areas. In addition, the company focused on re-engaging dormant customers and introducing and expanding sales of new products such as draw-processed products and environmentally friendly Eco-Series products.

The company has been focused on expanding the functions of its 24/7 online quoting and ordering website, Hakudo Net Service, and users can now access the quoting service without the need for registration. Furthermore, the company has expanded the availability of the service to individual users as well as corporate customers, making progress in building a foundation for future earnings growth, as well as enabling immediate quoting and ordering of metal 3D printed products and draw-processing through the website. The company has also increased the number of products available on Hakudo Net Service from 50,900 items as of end-March 2023 to 84,900 items as of end-March 2024, to enhance the site's convenience.

The company also actively pursued overseas expansion and business development. In the US, the company established a local subsidiary, Hakudo USA Inc. in December 2022. Hakudo USA acquired a 51% stake in West Coast Aluminum & Stainless, LLC in March 2023 and prepared for market development and new business in the US.

In other regions, Shanghai Hakudo Precision Materials Co., Ltd. experienced a decline in domestic and export demand, and AQR Co., Ltd. was affected by ongoing downturn in the semiconductor production equipment industry, and revenues in both subsidiaries decreased in FY03/24. Hakudo (Thailand) Co., Ltd. saw an increase in revenue against the backdrop of recovery in the automotive industry in Thailand and acquisition of new customers.

Financial results: Decrease in sales and profit

Revenue declined 7.1% YoY, due largely to the continued downturn in the semiconductor production equipment industry. Sales of standard stock items (non-consolidated basis) decreased by JPY3.8bn YoY (unit price +JPY2.0bn and volume -JPY5.9bn). Sales of special-order items (non-consolidated basis) decreased by JPY5.0bn YoY (unit price -JPY268mn and volume -JPY4.7bn). Revenue of consolidated subsidiaries (including adjustments) increased by JPY4.5bn, driven by the full-year contribution of North American subsidiary and its subsidiary, which were included in the scope of consolidation in FY03/23, and brisk performance of the Thai subsidiary.

As of end-March 2024, market prices for key raw materials were up at JPY1,370,000/t for electrolytic copper (+JPY1,000/t from end-March 2023) and at JPY400,000/t for aluminum ingots (+JPY92,600/t). Market prices for stainless steel dropped to JPY600,000/t (JPY80,000/t).

Gross profit declined 8.7% YoY to JPY9.3bn and the gross profit margin fell 0.3pp to 16.2%. Lower sales volume of standard stock items and special-order items due to the slowdown in the semiconductor production equipment market and a decrease in inventory valuation gain due to raw material market conditions were the main factors behind the decline in profit. SG&A expenses increased 5.8% YoY to JPY6.7bn due to an increase in personnel and other expenses associated with adding its North American subsidiary and its subsidiary to the scope of consolidation. Accordingly, operating profit fell 33.2% YoY. Inventory valuation gain in FY03/24 was JPY105mn (a decrease of 399mn from FY03/23).

Performance by segment

- Japan: Segment revenue of JPY49.9bn (-15.1% YoY), operating profit of JPY2.6bn (-31.0% YoY)
- North America: Segment revenue of JPY4.6bn (-), operating loss of JPY205mn (loss of JPY126mn in previous year)
- China: Segment revenue of JPY1.4bn (-14.0% YoY), operating loss of JPY39mn (loss of JPY0mn the previous year)
- Others: Segment revenue of JPY1.4bn (+15.5% YoY), operating profit of JPY141mn (+51.6% YoY)

Hakudo's reporting segments indicate where its earnings were generated. Its Japan segment includes results stemming from the parent company and AQR Co., Ltd., while its China segment reflects the performance of Shanghai Hakudo Precision Materials Co., Ltd. Its North America segment reflects the performance of Hakudo USA Inc. and West Coast Aluminum & Stainless, LLC, and its Others segment indicates earnings from Hakudo (Thailand) Co., Ltd. Hakudo anticipates its

collaboration with Oristar Corporation in Vietnam to continue. In FY03/23, the company added North America as a reportable segment.

The Japan segment saw revenue and profit decline, with an OPM of 5.3% (-1.2pp YoY), partly due to a JPY399mn reduction in the impact of inventory assets. Subsidiary AQR Co., Ltd. also reported lower revenue, affected by the slowdown in the semiconductor production equipment business.

The operating loss increased in the North America segment. Although revenue of West Coast Aluminum & Stainless contributed to consolidated revenue in FY03/24, the segment posted an operating loss due to recording PMI-related expenses.

The China segment posted lower revenue and increased its operating loss. Consolidated subsidiary Shanghai Hakudo Precision Materials Co., Ltd. was impacted by a slowing Chinese economy and downturn in export demand.

The Other segment reported an increase in revenue and operating profit, and a 3.1pp rise in OPM to 5.6%. Hakudo (Thailand) Co., Ltd. performed strongly, mainly driven by the recovery of the automotive industry and acquisition of new customers in Thailand.

Cumulative Q3 FY03/24 results

Summary

- Revenue: JPY42.9bn (-9.4% YoY)
- Operating profit: JPY1.9bn (-40.4% YoY)
- Recurring profit: JPY2.2bn (-34.7% YoY)
- Net income attributable to owners of the parent: JPY1.5bn (-33.9% YoY)

Changes in market conditions and demand

The semiconductor production equipment industry, which significantly affects the company's group performance, is expected to see an increase in demand in the medium term for semiconductors driven by DX, AI, and EV. However, the industry was in a phase of ongoing inventory and production adjustment, as more and more semiconductor manufacturers moved to adjust their inventory and production to review their capital investment plans in response to slowing demand for mobile devices such as smartphones and PCs, servers, and other IT equipment. In the aerospace industry, demand for commercial aircraft recovered from the COVID-19 pandemic, and demand from the public sector, especially defense-related, was strong. However, the recovery of demand in the machine-tool industry delayed due to rising interest rates in various countries, a slowdown in the Chinese economy, and postponed capital investment, mainly in semiconductor production equipment-related and automobile-related industries in the domestic market.

The company established a new base (Iga Warehouse) in Iga, Mie Prefecture, to strengthen its processing services, and focused on developing new customers in the aerospace and automotive industries, which the company considers to be growth areas. In addition, the company made efforts to launch new items and expand sales of draw-processed products and environmentally friendly Eco-Series products.

The company has been focused on expanding the functions of its 24/7 online quoting and ordering website, Hakudo Net Service, and users can now access the quoting service without the need for registration. Furthermore, the company has expanded the availability of the service to individual users as well as corporate customers, enabling immediate quoting and ordering of metal 3D printed products and draw-processing through the website. The company has also increased the number of products available on Hakudo Net Service from 50,900 items as of end-March 2023 to 84,100 items as of end-December 2023, to make the site more convenient.

The company also actively pursued overseas expansion and business development. In the US, the company established a local subsidiary, Hakudo USA Inc. in December 2022. Hakudo USA acquired a 51% stake in West Coast Aluminum & Stainless, LLC in March 2023 and prepared for market development and new business in the US.

In other regions, Shanghai Hakudo Precision Materials Co., Ltd. experienced a decline in domestic and export demand, and AQR Co., Ltd. was affected by ongoing downturn in the semiconductor production equipment industry, and revenues in both subsidiaries decreased in cumulative Q3. Hakudo (Thailand) Co., Ltd. saw an increase in revenue against the backdrop of recovery in the automotive industry in Thailand.

Financial results: Decrease in sales and profit

Revenue declined 9.4% YoY in Q3 FY03/24.

On a non-consolidated (stand-alone) basis, revenue generated from standard stock items declined as sales volume fell by 17.2% YoY despite a 7.2% YoY decline in the unit selling price. By customer sector, the largest decrease was in sales to manufacturers of semiconductor FPD production equipment, which accounts for about 40% of revenue on a non-consolidated basis. These sales fell by about 17% YoY due to the ongoing slump in the semiconductor market. However, revenue from sales targeted at growth areas, such as the space-related and automotive (motorcycle) industries, increased.

In Q3 FY03/24, revenue by product type were as follows: aluminum JPY25.6bn (-17.3% YoY), copper alloy JPY6.3bn (+0.6% YoY), stainless steel JPY8.9bn (+13.7% YoY), and others JPY2.1bn (-8.0% YoY).

As of end-December 2023, market trends for key raw materials that affect the unit selling price were up at JPY1,280,000/t for electrolytic copper (+JPY50,000/t from end-March 2023) and JPY380,000/t for aluminum ingots (+JPY11,000/t). Meanwhile, market prices for stainless steel dropped to JPY610,000/t (Japan Metal Daily median; JPY70,000/t).

Gross profit was JPY6.9bn (-12.1% YoY), with a gross profit margin of 16.1% (-0.5pp YoY). The main reasons for the decrease in profit include a larger-than-expected reduction in sales volumes due to the slowdown in the semiconductor production equipment industry and a decrease in inventory valuation gain due to raw material market conditions. The inventory valuation gain in Q3 FY03/24 was JPY57mn (compared to a gain of JPY451mn in Q3 FY03/23). SG&A expenses increased to JPY5.0bn (+7.0% YoY) due to increased personnel expenses and goodwill amortization associated with the acquisition of West Coast Aluminum & Stainless, LLC ("WCAS") by consolidated subsidiary Hakudo USA Inc. As a result, operating profit decreased by 40.4%, and the operating profit margin was 4.4% (-2.3pp YoY). From FY03/24, the company included the financial results of WCAS in its results, which is an important consideration for YoY comparisons.

Performance by segment

- Japan: Segment revenue of JPY37.5bn (-17.2% YoY), operating profit of JPY1.9bn (-37.6% YoY)
- North America: Segment revenue of JPY3.5bn (—), operating loss of JPY108mn (—)
- China: Segment revenue of JPY965mn (-20.5% YoY), operating loss of JPY32mn (profit of JPY7mn in Q3 FY03/23)
- Others: Segment revenue of JPY1.0bn (+12.9% YoY), operating profit of JPY110mn (+25.0% YoY)

Hakudo's reporting segments indicate where its earnings were generated. Its Japan segment includes results stemming from the parent company and AQR Co., Ltd., while its China segment reflects the performance of Shanghai Hakudo Precision Materials Co., Ltd., and its Others segment indicates earnings from Hakudo (Thailand) Co., Ltd. Hakudo anticipates that its collaboration with Oristar Corporation in Vietnam will continue. In FY03/23, the company added North America as a segment.

In the Japan segment, revenue and profit declined. On a non-consolidated (stand-alone) basis, sales remained low due to the slowdown in the semiconductor production equipment industry, while revenue declined at AQR Co., Ltd. for the same reason. In the China segment, the company recorded a decrease in revenue and an operating loss. Shanghai Hakudo Precision Material Co., Ltd., a major consolidated subsidiary, saw revenue declines both in China and for exports, leading to an operating loss. Revenue and profit in the Other segment increased. Hakudo (Thailand) Co., Ltd., a key consolidated subsidiary, achieved growth in revenue and profit by capturing the recovery in demand within the automotive industry in Thailand. The company has expanded its business activities to include Japanese clients and local enterprises.

1H FY03/24 results

Summary

- Revenue: JPY28.7bn (-9.6% YoY)
- Operating profit: JPY1.2bn (-45.1% YoY)
- Recurring profit: JPY1.4bn (-39.8% YoY)
- Net income attributable to owners of the parent: JPY985mn (-40.1% YoY)

Changes in market conditions and demand

The semiconductor production equipment industry, which significantly affects the company's group performance, is expected to see an increase in demand in the medium term for semiconductors driven by DX, AI, and EV. However, the industry was in a phase of ongoing inventory adjustment, as more and more semiconductor manufacturers moved to adjust their inventory

and production to review their capital investment plans in response to slowing demand for mobile devices such as smartphones and PCs, servers, and other IT equipment. In the aerospace industry, demand for commercial aircraft recovered from the COVID-19 pandemic, and demand from the public sector, especially defense-related, was strong. However, demand from the machine-tool industry trended downward due to rising interest rates in various countries, a slowdown in the Chinese economy, and sluggish capital investment, mainly in semiconductor production equipment-related and automobile-related industries in the domestic market.

The company established a new base (Iga Warehouse) in Iga, Mie Prefecture, to strengthen its processing services, and focused on developing new customers in the aerospace and automotive industries, which the company considers to be growth areas. In addition, efforts were made to expand sales of draw-processed products and environmentally friendly Eco-Series products.

The company has been focused on expanding the functions of its 24/7 online quoting and ordering website, Hakudo Net Service, and users can now access the quoting service without the need for registration. Furthermore, the company has expanded the availability of the service to individual users as well as corporate customers, enabling immediate quoting and ordering of metal 3D printed products through the website. The company has also increased the number of products available on Hakudo Net Service from 50,900 items as of end-March 2023 to 64,700 items as of end-September 2023, to make the site more convenient.

The company also actively pursued overseas expansion and business development. In the US, the company established a local subsidiary, Hakudo USA Inc. in December 2022, and in March 2023, it acquired a 51% stake in West Coast Aluminum & Stainless, LLC, preparing for market development and new business in the US.

Financial results: Decrease in sales and profit

Revenue declined 9.6% YoY in 1H. On a non-consolidated (stand-alone) basis, unit selling prices increased for both standard stock and special-order items, but sales volume declined. Revenue from sales to the semiconductor/FPD production equipment industry fell 28% YoY due to the slowdown in the semiconductor market. In addition, demand related to various capital investments, particularly in the machine-tool industry, declined due to uncertainty over the economic outlook.

As of end-September 2023, market prices for key raw materials were up at JPY1,260,000/t for electrolytic copper (+JPY30,000/t from end-March 2022) and at JPY395,000/t for aluminum ingots (Nikkei monthly average; +JPY26,000/t). Market prices for stainless steel dropped to JPY640,000/t (Japan Metal Daily median; -JPY40,000/t).

Gross profit stood at JPY4.6bn (-15.6% YoY) with a gross profit margin of 15.9% (-1.1pp YoY). The decrease in gross profit and gross profit margin was due to lower sales volume resulting from the slowdown in the semiconductor production equipment market and the decrease in inventory valuation gain (JPY355mn YoY) due to raw material market conditions. SG&A expenses were JPY3.3bn (+5.0% YoY) due to increased expenses resulting from the consolidation of West Coast Aluminum & Stainless, LLC. As a result, operating profit declined 45.1% YoY, and the operating profit margin was 4.8% (-1.6pp YoY).

Results by segment

Hakudo's reporting segments indicate where its earnings were generated.

Japan segment

Segment revenue of JPY25.1bn (-17.1% YoY) and operating profit of JPY1.2bn (-43.5% YoY)

The Japan segment consists mainly of the parent company, AQR Co., Ltd., and collaboration with the major non-ferrous metal trading company Oristar Corporation in Vietnam (unlisted). In 1H, revenue and operating profit decreased at the parent company and AQR due to a slowdown in the semiconductor production equipment industry. Revenue by sales method was JPY16.8bn (-12.5% YoY) for standard stock items and JPY8.3bn (-25.1% YoY) for special-order items. Revenue by merchandise and finished goods was JPY15.8bn (-21.3% YoY) for aluminum, JPY3.8bn (+0.1% YoY) for copper, JPY4.3bn (-13.7% YoY) for stainless steel, and JPY1.1bn (-16.6% YoY) for others.

North America segment

Segment revenue of JPY2.3bn (N.A.) and an operating loss of JPY54mn

The company's local subsidiary, Hakudo USA Inc., established in December 2022, acquired a 51% stake in West Coast Aluminum & Stainless, LLC in March 2023. As a result, the North America segment became the company's reporting

segment from FY03/23. In 1H, revenue by sales method was JPY0bn (N.A.; same below) for standard stock items and JPY2.3bn for special-order items. Revenue by merchandise and finished goods was JPY488mn for aluminum, JPY0bn for copper, JPY693mn for stainless steel, and JPY25mn for others. In terms of profit, the company recorded an operating loss due to the inclusion of consolidation expenses.

China segment

Segment revenue of JPY614mn (-29.9% YoY) and an operating loss of JPY17mn (vs. a profit of JPY10mn in FY03/23)

The main subsidiary in the China segment is Shanghai Hakudo Precision Materials Co., Ltd. In 1H, a slowdown in domestic and export demand in China resulted in a decrease in revenue for Shanghai Hakudo Precision Materials. Revenue by sales method was JPY3.3bn (-27.1% YoY) for standard stock items and JPY2.9bn (-33.0% YoY) for special-order items. Revenue by merchandise and finished goods was JPY350mn (-40.4% YoY) for aluminum, JPY29mn (+14.2% YoY) for copper, JPY2mn (+2.6% YoY) for stainless steel, and JPY172mn (-15.3% YoY) for others. On the profit front, the company recorded an operating loss as it could not cover fixed costs due to the decline in revenue.

Others segment

Segment revenue of JPY658mn (+11.0% YoY) and operating profit of JPY80mn (+23.1% YoY)

The Others segment consists of earnings from Hakudo (Thailand) Co., Ltd. In 1H, Hakudo (Thailand) recorded increased revenue and profits due to the recovery of the automotive industry in Thailand. Revenue by sales method was JPY0bn (N.A.) for standard stock items and JPY0.7bn (+10.9% YoY) for special-order items. Revenue by merchandise and finished goods was JPY222mn (-0.6% YoY) for aluminum, JPY293mn (+16.2% YoY) for copper, JPY130mn (+18.5% YoY) for stainless steel, and JPY14mn (+59.5% YoY) for others. On the profit front, operating profit increased in line with the revenue growth.

Q1 FY03/24 results

Summary

- Revenue: JPY14.7bn (-8.4% YoY)
- Operating profit: JPY551mn (-54.6% YoY)
- Recurring profit: JPY687mn (-46.0% YoY)
- Net income attributable to owners of the parent: JPY474mn (-46.7% YoY)

Changes in market conditions and demand

The semiconductor production equipment industry, which significantly affects the company's group performance, is expected to see an increase in demand in the long term for semiconductors driven by IoT, DX, and AI. However, the industry was in a phase of ongoing inventory adjustment, as more and more semiconductor manufacturers moved to adjust their inventory and production to review their capital investment plans. In the machine-tool industry, while the investment in the aerospace industry is showing signs of recovery, demand for other industrial sectors, both domestic and overseas, has decreased.

The company established a new base (Iga Warehouse) in Iga, Mie Prefecture, to strengthen its processing services, and focused on developing new customers in the aerospace and automotive industries, which the company considers to be growth areas. In addition, efforts were made to expand sales of draw-processed products and environmentally friendly Eco-Series products.

Furthermore, the company promoted the use of its 24/7 quotation and ordering website (Hakudo Network Service) that it has been focusing on. The company also worked to increase the number of items listed on Hakudo Network Service (from 50,900 at end-March 2023 to 54,100 as of end-June 2023) and make the site more convenient.

The company also actively pursued overseas expansion and business development. In the US, the company established a local subsidiary, Hakudo USA Inc. in December 2022, and in March 2023, it acquired a 51% stake in West Coast Aluminum & Stainless, LLC, thus advancing market development in the US.

Financial results: Decrease in sales and profit

Revenue declined 8.4% YoY. Revenue from standard stock items totaled JPY8.7bn (-12.4% YoY), and from special-order items, JPY6.0bn (-1.8% YoY). On a parent basis, which accounts for the majority of sales, unit selling prices increased on both standard stock items and special-order items due to a rise in procurement costs, but sales volume declined.

The decline in revenue was mainly due to a 30% decrease in revenue from the semiconductor/FPD production equipment industry, driven by the slowdown in the semiconductor market. By product category, while copper and stainless steel revenue increased YoY, revenue from mainstay aluminum fell to JPY9.1bn (-15.3% YoY). However, the company's market share for aluminum products increased from 27.8% in the same period last year to 33.6% in Q1, while shipments of aluminum rolled products decreased 34% YoY (according to the Aluminum Association of Japan). The company stated that although it experienced a decline in revenue due to the impact of the overall market conditions, its business with customers remained stable.

As of end-June 2023, market prices for key raw materials were up at JPY1,260,000/t for electrolytic copper (+JPY30,000/t from end-March 2022) and at JPY381,000/t for aluminum ingots (Nikkei monthly average; +JPY12,000/t). Market prices for stainless steel dropped to JPY660,000/t (Japan Metal Daily median; -JPY20,000/t).

Gross profit stood at JPY2.2bn (-21.1% YoY), with a gross profit margin of 15.0% (-2.4pp YoY). The decrease in profit was due to factors such as a reduction in the scale of revenue, increased energy-related and other expenses, and a loss on inventory valuation due to the impact of raw material market conditions (a loss of JPY2mn in Q1 versus a gain of JPY171mn in Q1 FY03/23). SG&A expenses were up 4.5% YoY to JPY1.7bn due to the costs related to the newly consolidated subsidiary in the US, resulting in a 54.6% YoY decline in operating profit.

Performance by segment

- Japan: Segment revenue of JPY12.9bn (-16.1% YoY), operating profit of JPY548mn (-53.7% YoY)
- North America: Segment revenue of JPY1.2bn (—), operating loss of JPY35mn (—)
- China: Segment revenue of JPY296mn (-17.1% YoY), operating loss of JPY6mn (loss of JPY11mn in Q1 FY03/23)
- Others: Segment revenue of JPY328bn (+13.1% YoY), operating profit of JPY44mn (+12.8% YoY)

Hakudo's reporting segments indicate where its earnings were generated.

The Japan segment consists mainly of the parent company and AQR Co., Ltd. This segment also includes the collaboration with Oristar Corporation in Vietnam. The segment experienced a decrease in revenue and profit due to the decline in revenue from the semiconductor/FPD production equipment industry, an increase in energy-related expenses, and a loss in inventory valuation due to the impact of raw material market conditions.

The China segment consists of the Shanghai Hakudo Precision Materials Co., Ltd results. In this region, revenue decreased due to the same reason as in the Japan segment, as a large portion of revenue is generated from semiconductor/FPD production equipment. However, operating loss decreased.

The North America segment was added in FY03/23. In Q1, the company posted revenue from West Coast Aluminum & Stainless, LLC for January–March 2023. However, due to one-time expenses related to the acquisition, it incurred a segment loss.

The Others segment includes Hakudo (Thailand) Co. In this region, revenue and profit increased due to the recovery in demand from the automotive industry.

News and topics

Revisions to earnings targets, a change of dividend policy, and a revision to the year-end dividend forecast (increased)

2024-02-09

Hakudo Co., Ltd. announced revisions to its full-year FY03/24 earnings targets, a change of dividend policy, and a revision to the year-end dividend forecast (increased).

Revisions to full-year FY03/24 earnings targets

- Revenue: (Previous) JPY63.2bn (+2.6% YoY) → (Revised) JPY56.4bn (-8.4% YoY)
- Operating profit: JPY3.0bn (-21.4% YoY) → JPY2.3bn (-38.6% YoY)
- Recurring profit: JPY3.2bn (-20.3% YoY) → JPY2.6bn (-34.3% YoY)
- Net income attributable to owners of the parent: JPY2.2bn (-21.5% YoY) → JPY2.0bn (-35.7% YoY)
- Net income per share: JPY189.56 → JPY155.18 (FY03/23 result: JPY241.37)

Reasons for the revisions

The company stated two main reasons for the revisions. First, the recovery of demand in the semiconductor production equipment industry, which significantly affects its group performance, has been slower than it anticipated. Second, the company expects revenue and profit to be lower than it had projected at its consolidated subsidiaries, Shanghai Hakudo Precision Materials Co., Ltd. and West Coast Aluminum & Stainless, LLC, due to delays in the recovery of demand in China and the US.

Changes to dividend policy and revisions to year-end dividend forecast (increased)

The company changed its dividend policy to enhance shareholder returns. Under the previous policy, the company targeted a payout ratio of 40% or higher. However, under the revised policy, the company intends to pay dividends based on either a full-year payout ratio of 45% or an annual dividend of JPY80 per share, whichever is higher. As a result of this policy change, the company will apply a minimum annual dividend of JPY80 per share to FY03/24. Therefore, the company increased the year-end dividend by JPY2 per share from the previous forecast to JPY45 per share.

Payment of dividend

2023-11-10

Hakudo Co., Ltd. announced its decision regarding the payment of an interim dividend for FY03/24.

The company will pay an interim dividend of JPY35.0 per share for FY03/24 (JPY58.0 per share in the previous interim period). The year-end dividend is JPY43.0 per share (year-end dividend of JPY51.0 per share in FY03/23).

Other information

History

Year	Month	
1932	Feb.	Hakudo Shoten was founded as private business Kyobashi-ku (now Hachobori, Chuo-ku), Tokyo.
1949	Nov.	Hakudo Shoten was reorganized as a joint-stock company selling non-ferrous metals.
1967	May	Trade name changed from Hakudo Shoten to Hakudo Co., Ltd.
1968	Feb.	A computer system was installed.
1974	Oct.	Launch of the Kanagawa Process Center in Kanagawa Prefecture.
1978	Jun.	Start of next-day delivery service.
	Sep.	Commencement of "cut-to-order" service.
1983	Jun.	Opening of Osaka office in Osaka Prefecture.
1990	Mar.	Start of operations at the Shiga Process Center.
1991	Oct.	Establishment of the former Kousei Co., Ltd. to hold real estate for the metals business.
		Note: The former Kousei Co., Ltd. was merged into Hakudo in January 1992 in order to change the par value of its shares.
1992	Apr.	The former Hakudo Co., Ltd. (now Kosei Co., Ltd.) took over selling operations related to the metals business and changed its name from Dohkin Co., Ltd. to Hakudo Co., Ltd.
2000	Mar.	Registered shares over the counter with the Japan Securities Dealers Association.
2003	May	Establishment of Shanghai Hakudo Precision Materials Co., Ltd.
2004	Oct.	Listed on the Second Section of the Tokyo Stock Exchange.
2005	Sep.	Listed on the First Section of the Tokyo Stock Exchange.
2006	Feb.	Start of operations at the Koriyama Plant (now, Fukushima Process Center).
2008	May	Start of operations at the Kyushu Process Center.
2014	Oct.	Establishment of Hakudo (Thailand) Co., Ltd.
2017	Nov.	Start of operations at the Saitama Process Center.
2019	Feb.	Conversion of AQR Co., Ltd. (formerly Takase Aluminum Co., Ltd.) to a consolidated subsidiary.
2022	Dec	Establishment of Hakudo USA, Inc. in the US
2023	Mar	Conversion of West Coast Aluminum & Stainless, LLC into subsidiary by Hakudo USA

Source: Shared Research based on company data

Corporate governance and top management

Corporate governance

Based on its corporate philosophy, the company aims to ensure management transparency, fairness, and disclosure in order to achieve management efficiency and sustainable growth.

The company's Board of Directors is chaired by the president and consists of nine directors (including five outside independent directors). In principle, the Board of Directors meets regularly on a monthly basis, holding extraordinary meetings as necessary. The board decides on important management matters in accordance with laws and ordinances, the Articles of Incorporation, and the Board of Directors regulations. The board also supervises the execution of duties by directors.

The Nomination and Remuneration Advisory Committee is an advisory body to the Board of Directors and consists of outside independent directors. This ensures transparency and objectivity in the appointment and remuneration of directors.

The company has an Audit and Supervisory Committee, with outside independent directors making up the majority of members. The aims of this committee are to further strengthen the supervisory function of the Board of Directors over management and corporate governance, and to enhance the soundness and efficiency of management.

The Audit and Supervisory Committee has four members (three outside independent directors), including its chair. In principle, the committee meets regularly on a monthly basis, holding extraordinary meetings as necessary. Members of the Audit and Supervisory Committee liaise with the Internal Audit Department and the accounting auditor, supervising the decision-making process of the Board of Directors and the status of business execution.

The head of the Internal Audit Department periodically audits the business activities of each division, including subsidiaries, for effectiveness, accuracy, and compliance, and reports to the president and the Audit and Supervisory Committee.

Business execution centers on management meetings attended by full-time directors and division heads, and department head meetings attended by full-time directors, division heads, and departmental managers. The company has also established the Risk Management Committee and other committees.

Form of organization and capital structure	
Form of organization	Company with Audit & Supervisory Committee
Controlling shareholder and parent company	None
Directors and Audit & Supervisory Committee members	
Number of directors under Articles of Incorporation	14
Number of directors	9
Directors' terms under Articles of Incorporation	1 year
Chairman of the Board of Directors	President
Number of outside directors	5
Number of independent outside directors	4
Number of members of Audit & Supervisory Committee	4
Number of outside members of Audit & Supervisory Committee	3
Number of independent outside members of Audit & Supervisory Committee	3
Other	
Providing convocation notice in English	Yes
Implementation of measures regarding director incentives	Performance-linked compensation
Disclosure of individual director's compensation	Some information disclosed
Policy on determining amount of compensation and calculation methodology	Yes
Corporate takeover defenses	None

Source: Shared Research based on company data

Top management

Koji Tsunoda, President & Representative Director (born August 15, 1962)

Apr. 1986	Joined Tokyo Tsuun Co., Ltd.
Jul. 1986	Joined Hakudo Co., Ltd. (Kosei Co., Ltd.)
May 2001	Head of central branch
Apr. 2002	Head of corporate planning division
Dec. 2002	Head of China office
	President of Shanghai Hakudo Precision Materials Co., Ltd.
Apr. 2004	Executive officer of Hakudo, head of overseas sales department
Jan. 2009	Chairman of Shanghai Hakudo Precision Materials Co., Ltd.
Apr. 2009	Executive officer of Hakudo, head of developmental sales division
Apr. 2010	Head of developmental sales division
Jun. 2010	Director, head of developmental sales division
Jul. 2010	Director, head of sales division
Jul. 2011	Executive director
Apr. 2012	President and representative director (current position)

Dividend policy

Hakudo's basic dividend policy calls for strengthening its financial condition and distribution of profit from business activities underpinned by earnings results. The company revised its dividend policy in February 2024 to strengthen shareholder returns. Under the revised policy, the company intends to pay dividends based on either a full-year payout ratio of 45% (previously 40%) or an annual dividend of JPY80 per share, whichever is higher. As a rule, the company will apply a minimum annual dividend of JPY80 per share.

(JPY)	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23	FY03/24
Dividend per share	48.0	45.0	58.5	75.0	77.0	58.0	58.0	115.0	109.0	80.0
Payout ratio	45.5%	42.7%	47.2%	41.9%	55.8%	57.3%	51.3%	44.0%	45.2%	47.3%

Source: Shared Research based on company data

Major shareholders

Top shareholders	Shares held(000 shares)	Shareholding ratio
K & P Asset Management LLC	1,371	12.08%
Kids Learning Network Company	1,140	10.05%
Soukou Co., Ltd.	1,132	9.98%
N&N Asset Management LLC	925	8.15%
Tomonori Yamada	676	5.96%
SY Management LLC	676	5.96%
EastGate Corporation	652	5.74%
The Master Trust Bank of Japan, Ltd.	647	5.70%
Mitsushige Yamada	290	2.55%
Hakudo Employees' Stock Ownership Plan	119	1.05%
Total	7,629	67.26%

Source: Shared Research based on company data, as of end- March 2024.

Employees

	FY03/14	FY03/15	FY03/16	FY03/17	FY03/18	FY03/19	FY03/20	FY03/21	FY03/22	FY03/23
Consolidated no. of employees	236	240	247	265	299	338	353	347	363	382
Japan										
Sales	92	84	90	94	102	103	102	100	99	105
Manufacturing	83	85	88	98	123	144	151	156	161	156
Administration	21	25	24	25	30	45	48	48	55	55
North America										
Sales	-	-	-	-	-	-	-	-	-	4
Manufacturing	-	-	-	-	-	-	-	-	-	6
Administration	-	-	-	-	-	-	-	-	-	3
China										
Sales	16	17	14	16	15	13	16	14	13	14
Manufacturing	20	20	18	18	19	17	18	17	17	17
Administration	4	4	6	6	5	6	5	5	5	5
Other										
Sales		3	4	5	1	5	7	6	7	10
Manufacturing		0	0	0	0	0	0	0	0	0
Administration		2	3	3	4	5	6	1	6	7
Parent (no. of employees)	196	194	202	217	255	280	287	294	305	306
Average age	41.8	43.2	43.5	43.1	40.3	41.9	41.6	41.4	41.8	41.9
Average years of service	18.0	18.3	18.7	17.8	16.6	15.9	15.7	15.8	16.0	16.0
Average annual salary (JPY'000)	6,836	6,963	8,120	8,179	8,385	7,481	7,146	6,789	8,365	8,993

Source: Shared Research based on company data

Profile

Company Name

Hakudo Corporation

Phone

03-6212-2811

Established

1949-11-01

Head Office

11F, Mitsubishi Building, 2-5-2, Marunouchi, Chiyoda-ku, Tokyo

Listed On

Tokyo Stock Exchange, Prime Market

Exchange Listing

2005-09-01

Fiscal Year-End

Mar

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