

FREUND CORPORATION

Selected by the Japanese Ministry of Economy, Trade and Industry as a Global Niche Top 100 Company



(Securities code: 6312)

Results of Operations for the Fiscal Year Ended February 28, 2018 (FY2/18)

April 13, 2018

2017 Award for Excellence in Corporate Disclosure -Emerging Markets-





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Consolidated Financial Summary for FY2/18



Consolidated Financial Summary

- Pharmaceutical industry capital expenditures were down sharply in Japan due to the significant negative impact of April 2016 national insurance drug price revisions.
- Freund-Vector: Big drop in earnings caused by large low-margin orders
- Freund-Turbo: Products used for making lithium-ion batteries performed well
- Chemicals Business: Sales down and earnings up as planned due to a decline in dietary supplement products sales at companies that use Freund ingredients
 (unit: ¥ million)

	FY2/17	FY2/18		YoY ch	ange
	Actual	Actual	Initial forecast	Amount	%
Net sales	21,164	19,801	21,000	(1,363)	(6.4)%
Operating profit	2,041	1,971	2,100	(70)	(3.4)%
Ordinary profit	2,097	1,994	2,100	(103)	(4.9)%
Profit	1,064	1,477	1,400	+413	+38.8%
Earnings per share (yen)	61.72	85.69	81.19	+23.97	+38.8%
Orders received	18,286	12,129	-	(6,157)	(33.7)%
Order backlog	8,790	5,906	-	(2,884)	(32.8)%
Capital investment	564	524	-	(40)	(7.1)%
Depreciation	338	344	-	+6	+1.9%
R&D expenses	640	862	-	+222	+34.8%
ROA	5.6%	7.7%	-	-	-
ROE	9.0%	11.6%	-	-	_



Machinery Business: Overview

Sales By Product Field

□ Pharmaceutical products: Sales as planned because of the order backlog at the end of FY2/17

End of FY2/18 order backlog was down because of a sharp decline in the

demand for pharmaceutical equipment in Japan

□ Industrial products: Large volume of capital expenditures involving GMP in the dietary

supplements sector; started shipping products for lithium-ion batteries

Segment Profit

☐ Freund-Vector: Big drop in earnings caused by large low-margin orders

	FY2/17		FY2	2/18
	Amount	YoY change(%)	Amount	YoY change(%)
Net sales	14,914	+14.4	14,403	(3.4)
Pharmaceutical Products	12,441	+8.7	12,250	(1.5)
Industrial Products	2,473	+55.2	2,152	(13.0)
Operating profit	1,750	+47.1	1,631	(6.8)
Orders received	16,358	+24.8	11,513	(29.6)
Pharmaceutical Products	14,092	+25.5	9,556	(32.2)
Industrial Products	2,266	+20.5	1,956	(13.7)
Order backlog	8,561	+20.8	5,822	(32.0)
Pharmaceutical Products	7,741	+24.5	5,025	(35.1)
Industrial Products	819	(5.5)	796	(2.8)
Yen/dollar rate (+ is yen depreciation)	109.5	-11.6 yen/dollar	111.5	+2.0 yen/dollar



Machinery Business: Group Company Performance

Freund Corporation: Difficulty capturing new orders because of the big impact of drug

price revisions

Freund-Vector: Sales were much lower because of large low-margin orders

Freund-Turbo: Strong orders, sales and earnings in part due to lithium-ion battery

machinery

	FY2/17		FY2	/18
	Amount	YoY change(%)	Amount	YoY change(%)
Net sales	14,914	+14.4	14,403	(3.4)
FREUND CORPORATION	9,446	+21.4	8,883	(6.0)
FREUND-VECTOR	4,727	+0.9	4,354	(7.9)
FREUND-TURBO	1,641	+36.2	1,722	+4.9
Operating profit	1,750	+47.1	1,631	(6.8)
FREUND CORPORATION	1,281	+59.9	1,430	+11.6
FREUND-VECTOR	388	+32.4	86	(77.7)
FREUND-TURBO	79	(15.5)	114	+43.4
Orders received	16,358	+24.8	11,513	(29.6)
FREUND CORPORATION	10,350	+26.1	6,201	(40.1)
FREUND-VECTOR	4,797	+18.1	3,814	(20.5)
FREUND-TURBO	1,210	+44.2	1,497	+23.7
Order backlog	8,561	+20.8	5,822	(32.0)
FREUND CORPORATION	6,543	+19.3	3,999	(38.9)
FREUND-VECTOR	1,508	+17.9	1,218	(19.3)
FREUND-TURBO	508	+58.8	605	+19.0



Machinery Business: Sales by Region

Japan: Capital expenditures down sharply due to drug price revisions

North America: Sales down due to a large, one-time order near the end of FY2/17,

which was a transitional 14-month fiscal period at Freund-Vector

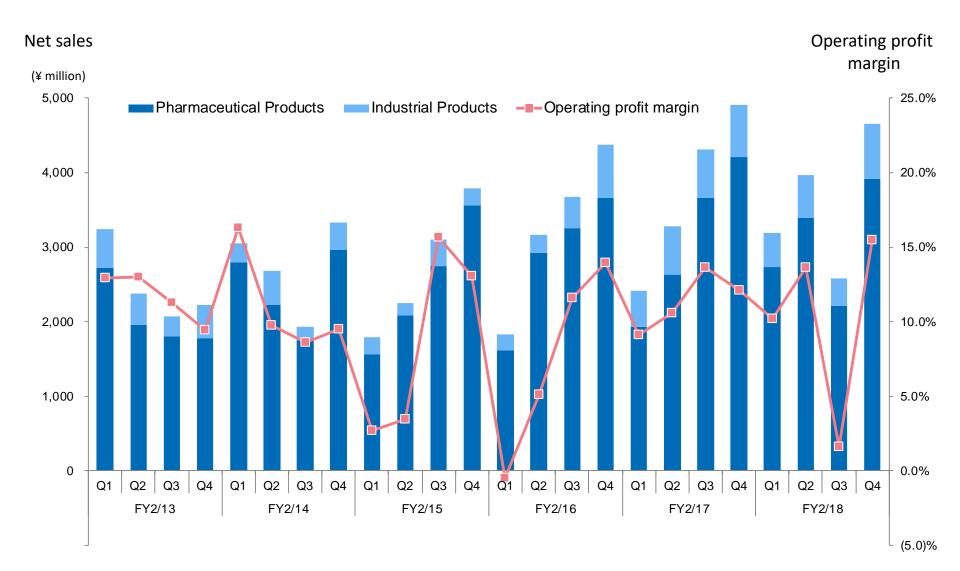
South America: Captured orders for machinery primarily in Brazil

Europe: Large orders were received in EU countries

	FY2/17		FY	2/18
	Amount	YoY change(%)	Amount	YoY change(%)
Net sales	14,914	+14.4%	14,403	(3.4)%
Japan	9,459	+23.4%	8,493	(10.2)%
Overseas	5,454	+1.6%	5,909	+8.3%
North and South Americas	3,884	+11.2%	2,979	(23.3)%
Europe and Africa	867	(11.6)%	1,782	+105.4%
Middle East, Asia and Pacific	702	(21.5)%	1,147	+63.3%

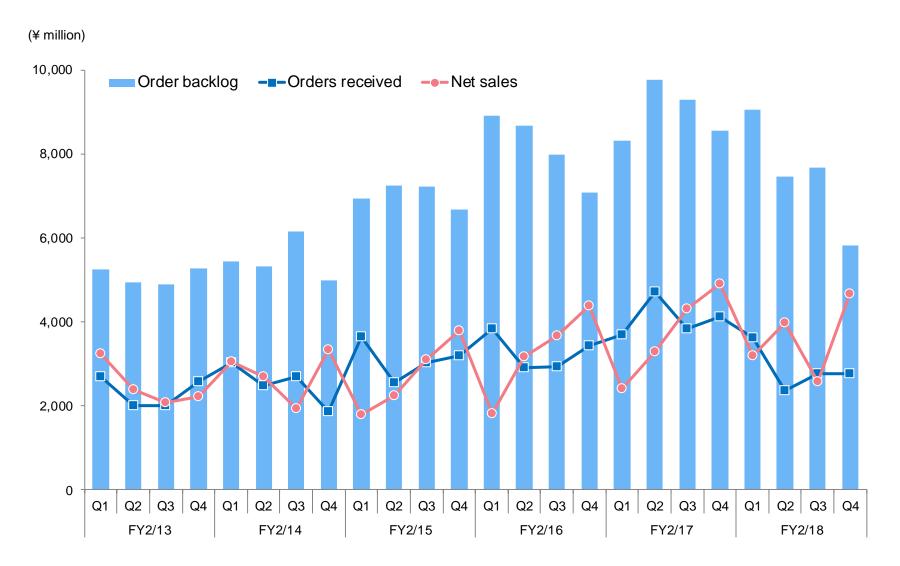


Machinery Business: Quarterly Results (by Product Field)





Machinery Business: Quarterly Results (Net sales/Orders received/Order backlog)





Chemicals Business: Overview

Net Sales

Pharmaceutical excipients: Higher sales and earnings despite inventory reductions,

mainly at generic drug manufacturers

■ Food preservatives: Sales and earnings as planned

New food products: Big decline in sales as planned

■ Export: Expanded sales channels in India by enlarging the

manufacturing infrastructure

Segment Profit: Higher because of an improvement in the sales mix

(unit: ¥ million)

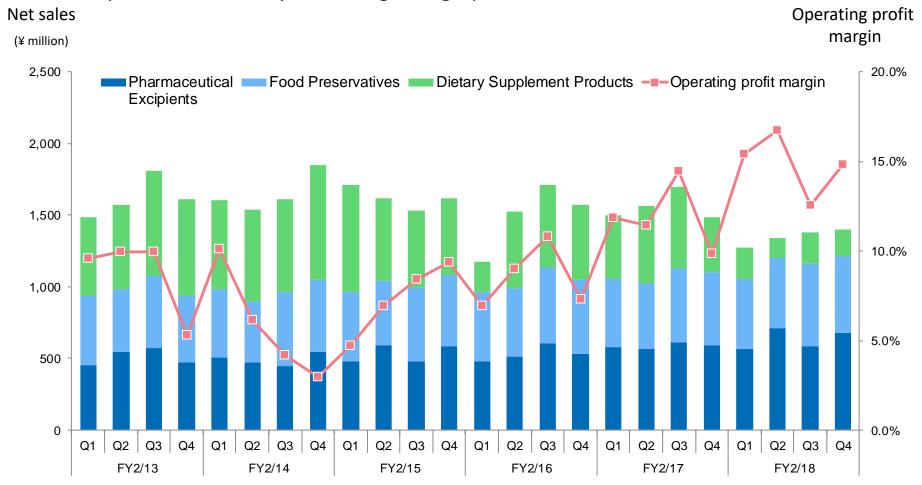
	FY2	2/17	FY2/18		
	Amount	YoY change(%)	Amount	YoY change(%)	
Net sales	6,249	+4.3	5,398	(13.6)	
Pharmaceutical Excipients	2,357	+10.6	2,546	+8.0	
Food Preservatives	1951	(2.7)	2091	+7.2	
Dietary Supplement Products	1941	+4.7	760	(60.8)	
(Export sales)*1	108	+37.3	215	+98.7	
Operating profit	748	+44.0	801	+7.1	

Note: Sales to India, South Korea and Taiwan



Chemicals Business: Quarterly Results (by Product Field)

- Operating profit increased due to an improvement in the product mix
- Negative effect on pharmaceutical excipients of inventory reductions, mainly at generic drug companies, was offset by sales of high-margin products





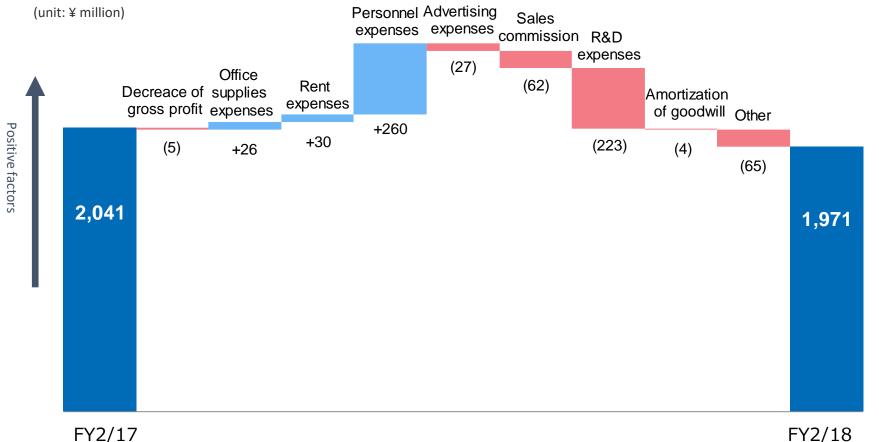
Summary of Consolidated Statement of Income

(unit: ¥ million) FY2/17 FY2/18 YoY change **Amount** Amount **A**mount Net sales 21,164 100.0% 19,801 (1,363)(6.4)% 100.0% Cost of sales 14,343 67.8% 12,985 65.6% (1,358)(9.5)%Gross profit 6,821 32.2% 6,816 34.4% (4) (0.1)%SG&A expenses 4,779 4,845 24.5% +65+1.4% 22.6% Non-operating income and expenses Operation profit 2,041 9.6% 1,971 10.0% (70)(3.4)%Non-operating income and •Non-operating income \rightarrow (30) expenses (59.4)% •Non-operating expenses → 3 56 0.3% 22 0.1% (33)Ordinary profit 2,097 9.9% 1,994 (103)(4.9)%10.1% Extraordinary income and Extraordinary income losses (313)99 0.5% +412and losses Profit before income taxes 8.4% 2,093 +3091,783 10.6% +17.3% Gain on redemption of investment securities \rightarrow 101 Profit 1,064 5.0% 1,477 7.5% +413+38.8% Loss on sales of non-current assets \rightarrow (2)



Change in Consolidated Operating Profit

- Operating profit increased because of growth in sales, sales of high-margin machinery in Europe and higher gross margin
- An improvement in the sales mix of chemicals caused lower sales and higher earnings



Summary of Consolidated Balance Sheet

			(unit: ¥ million)
	FY2/17-End	FY2/18-End	YoY change Amount
Current assets	14,938	14,784	(154)
Cash and depodits	6,982	6,568	(414)
Accounts receivable*1	4,403	4,451	+48
Inventories	2,765	3,185	+420
Non-current assets	4,162	4,341	+178
Property, plant and equipment	3,234	3,370	+135
Intangible assets	55	102	+46
Investments and other assets	872	868	(3)
Total assets	19,101	19,125	+24
Current liabilities	6,592	5,564	(1,027)
Accounts payable*1	3,058	2,823	(234)
Advances received	1,831	1,498	(333)
Non-current liabilities	323	318	(5)
Net defined benefit liability	201	200	(1)
Total liabilities	6,916	5,883	(1,032)
Total net assets	12,185	13,242	+1,056

^{*1:} Includes electronically recorded monetary claims-operating and obligations-operating

Inventories	+¥420 million
•Merchandise an	d finished goods (141)

(unit: V million)

•Work in process +334 •Raw materials and supplies +227

Property, plant and equipment

Buildings and structures +27
 Construction in progress +100
 Other +8

\	Intangible assets	
1	•Goodwill	+92
	•Software	(46)



^{*}In FY2/17, consolidated subsidiaries Freund-Vector Corporation and Freund-Turbo Corporation changed the end of their fiscal years from December 31 to the end of February. Consequently, results for FY2/17 include the 14-month period from January 1, 2016 to February 28, 2017 for these two companies.

Summary of Consolidated Statement of Cash Flows

	(drite: 1 fritin		
	FY2/17	FY2/18	
Cash flows from operating activities	3,605	594	
Profit before income taxes	1,783	2,093	
Depreciation	338	344	
Decrease (increase) in notes and accounts receivable - trade	1,243	(66)	
Decrease (increase) in inventories	(382)	(415)	
Increase (decrease) in advances received	571	(315)	
Increase (decrease) in notes and accounts payable - trade	409	(152)	
Income taxes paid	(245)	(694)	
Cash flows from investing activities	(351)	(493)	
Purchase of property, plant and equipment	(474)	(592)	
Cash flows from financing activities	(277)	(499)	
Reoaymens of lease obligations	(61)	(48)	
Cash dividends paid	(215)	(343)	
Net increase (decrease) in cash and cash equivalents	2,940	(431)	
Cash and cash equivalents at end of period	6,982	6,568	
Free cash flow	3,253	100	



Consolidated Earnings and Dividend Forecasts for FY2/19



Summary of Consolidated Forecasts

- Gross profit: Goal is raising the gross margin at least 1 pct. point
- SG&A expenses: Reexamining comprehensive cost at group companies
- Using all group resources to aim for higher earnings, including measures to raise sales outside the pharmaceutical sector (in the food and lithium-ion battery sectors)

	FY2/18	FY2/19	YoY cha	YoY change	
	(Actual)	(Forecast)	Amount	%	
Net sales	19,801	20,000	+198	+1.0	
Operating profit	1,971	1,900	(71)	(3.6)	
Ordinary profit	1,994	1,900	(94)	(4.7)	
Profit	1,477	1,350	(127)	(8.6)	
Earnings per share (yen)	85.69	78.29	(7.40)	(8.6)	
Capital investment	524	500	-	-	
Depreciation	344	300	-	-	
R&D expenses	862	750	-		



Summary of Segment Forecasts

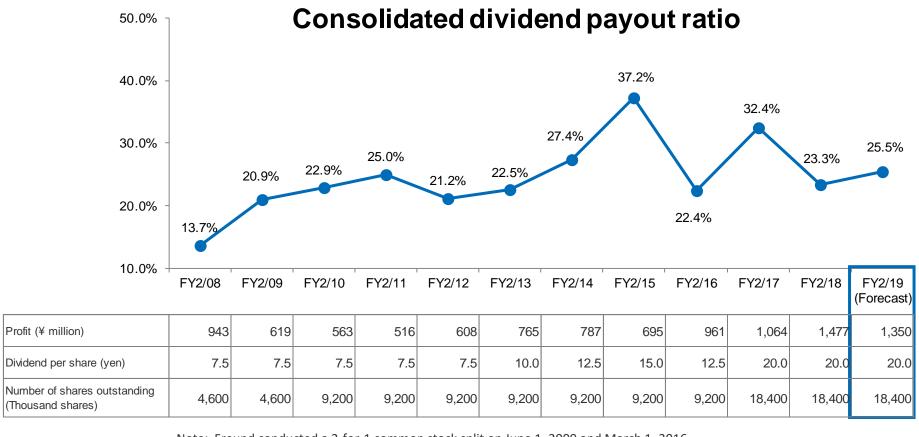
- Machinery: Growth of the lithium-ion business, sales activities for the TABREX tablet printer, and growth of maintenance business
- Chemicals: Goal is higher sales of pharmaceutical excipients in Japan and higher exports (to India)

	FY2/18		FY2/19 (Forecast)		YoY change	
	Amount	Composition ratio (%)	Amount	Composition ratio (%)	Amount	%
Consolidated net sales	19,801	100.0	20,000	100.0	+198	+1.0
Machinery Business Segment	14,403	72.7	14,000	70.0	(403)	(2.8)
Chemicals Business Segment	5,398	27.3	6,000	30.0	+601	+11.1
Segment income	1,971	100.0	1,900	100.0	(71)	(3.6)
Machinery Business Segment	1,631	82.8	-	-	-	-
Chemicals Business Segment	801	40.6	-	-	-	-
Adjustments	(461)	(23.4)	-	-	-	-
Yen/dollar rate (+ is yen depreciation)	111.46	-	110.00	-	-	-



Summary of Dividend Forecasts

- Consolidated dividend payout ratio target is 30%
- Plan to pay a dividend of 20 yen per share (ordinary dividend)





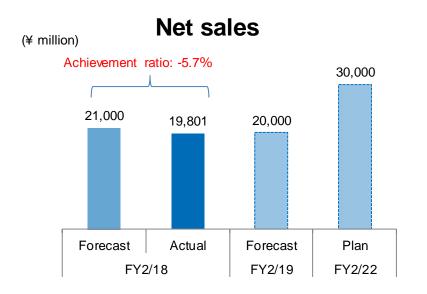


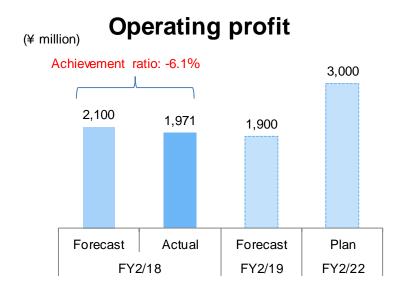
Goals of the 7th Medium-term Management Plan and Results for FY2/18



Goals of the 7th Medium-term Management Plan vs. Performance and Forecasts

- FY2/18 performance was below the initial forecast because of drug price revisions
- FY2/19 forecast is about the same as FY2/18 performance due to the smaller order backlog at the end of Feb. 2018 compared with one year earlier
- Goal is non-pharmaceutical business (nutritional supplements and lithium-ion battery sectors) growth to offset sluggish capital expenditures in the pharmaceutical industry







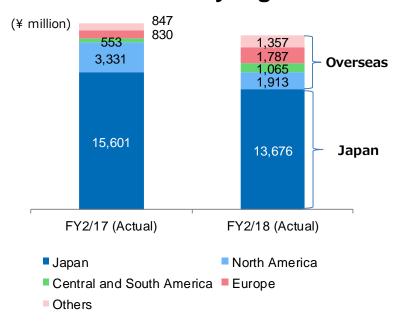
Business Segment and Regional Sales

- FY2/18 Machinery/Chemicals sales ratio was 7-to-3, the same as in FY2/17
- In regional sales, sales growth in Asia and Europe offset lower sales in Japan caused by drug price revisions

Net sales by business segment

(¥ million) 1.941 760 1,951 2,091 Chemicals 2,357 2,546 2,473 2,152 **Machinery** 12.441 12,250 FY2/17 (Actual) FY2/18 (Actual) Pharmaceutical Products Industrial Products Pharmaceutical Excipients Food Preservatives Dietary Supplement Products

Net sales by region





7th Medium-term Management Plan – First Year Accomplishments and Outlook

- First year sales to pharmaceutical companies in Japan fell sharply due to drug price revisions
 - Signs of a recovery in capital expenditures at some Japanese pharmaceutical companies emerged during FY2/18
- Delays in sales of new products (tablet printer) mainly because of user requests for revisions and additions
 - Finished responding to these requests and resuming sales activities
- Growth of the maintenance business
 - Created a new organization for this business in FY2/19
- Increase sales of products used by lithium-ion battery manufacturers
 *See supplementary materials for more information
- Increase overseas sales of pharmaceutical excipients
 - Expand the supply infrastructure to increase sales in other countries

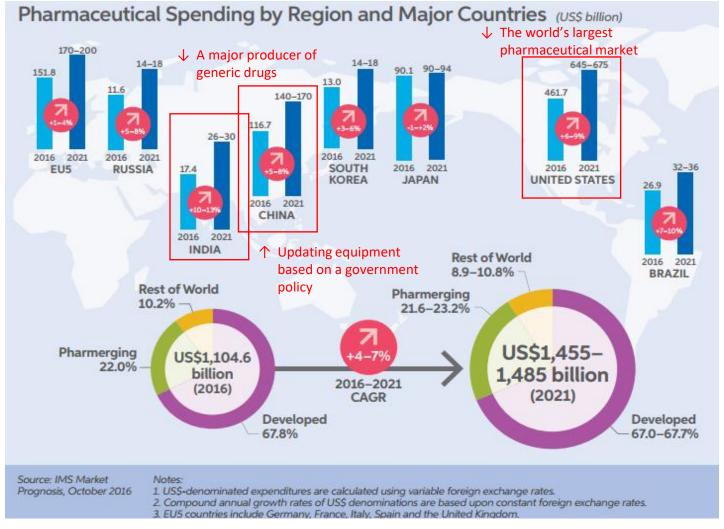


FY2/19 Initiatives for Progress toward the Goals of the 7th Medium-term Management Plan



Operating Environment: Global Pharmaceutical Market

The pharmaceutical market is growing in emerging countries, especially India.





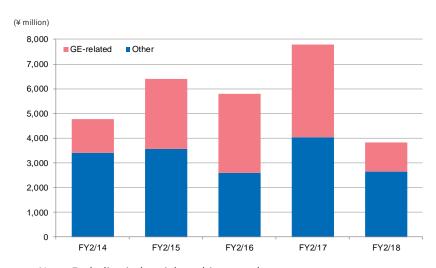
Operating Environment: Japanese Pharmaceutical Market

- In FY2/18, demand for machinery in Japan's pharmaceutical industry (where the government policy of raising the generic drug share to 80% is temporarily creating extra demand), the Freund Group's core business sector, slowed down faster than expected.
- In the generic drug category, demand associated with capital expenditures is recovering at some companies.
- Capital expenditures are rising in the non-pharmaceutical sector (supplements).

Machinery Orders Received

(¥ million)	FY2/17	FY2/18
Orders received	16,358	11,513
Pharmaceutical Products	14,092	9,556
Industrial Products	2,266	1,956
Order backlog	8,561	5,822
Pharmaceutical Products	7,741	5,025
Industrial Products	819	796

Pharmaceutical Industry Orders Received in Japan



Note: Excluding industrial machinery and parts



7th Medium-term Management Plan: First-year Performance as Generally Planned

Corporate Philosophy

Develop the Future through Creativity

Management Vision Freund Group will contribute to better medical care and health for people worldwide and creating and utilizing technologies for fulfilling lives and food safety

7th Medium-term Management Plan (FY2/18-FY2/22)

Values which the FREUND Group holds precious





Create special forms of value

Aim to be the leader in all of the group's business sectors



Always use the customer's perspective

Be a company like no other for customers and society



Networking

Solidify the group to create a unified organization

	FY2/18 Accomplishments
Business expansion	
Expand new business domains	Extended core competences (pulverizing, granulation, coating particles) to non-pharmaceutical product field
Faster global growth	Considering establishment of laboratories in growing markets (India, China)
 Open innovation (business alliances) 	Preparing to start supplying spray dryers and other equipment for higher molecular weight drugs
Developing a win-win business model with customers and suppliers	Entrusted with a maintenance work for realizing effective operation of a customer's plant
• Establish a base for a service business	Finished preparations to start a contract organization (CDO) business
New technologies	
. More group solidarity	Integrate Japan and U.S. group technology and product development capabilities
Joint development	Develop additional functions for continuous production equipment
Tie-ups with the academic sector	Cooperate with academic institutions for R&D and testing for next-generation technologies
Business operations	
Reform business processes	Improve efficiency by centralizing the data management for product components
Make all businesses more profitable	Identify and monitor cost items required to oversee profitability
Employee training and development	Give people skills to succeed globally, such as by using international assignments and rotations of people within the group



7th Medium-term Management Plan: Major Goals for FY2/19

Machinery

- Increase sales of the new product (tablet printer)
- Improve the profitability of Freund-Vector
- Target opportunities outside the pharmaceuticals market (nutritional supplements and other high-potential markets)
- Strengthen maintenance services
- Capture repeat orders for production machinery used by lithium-ion battery companies
- Start operations at the Nishinomiya Testing Center (for equipment involving lithium-ion batteries)

Chemicals

- Increase sales of excipients outside Japan
- Develop ink for tablet printers used overseas
- Prepare to start a CDO business
- Increase the efficiency of food preservative production



7th Medium-term Management Plan: Core Goals

Assumption regarding market conditions

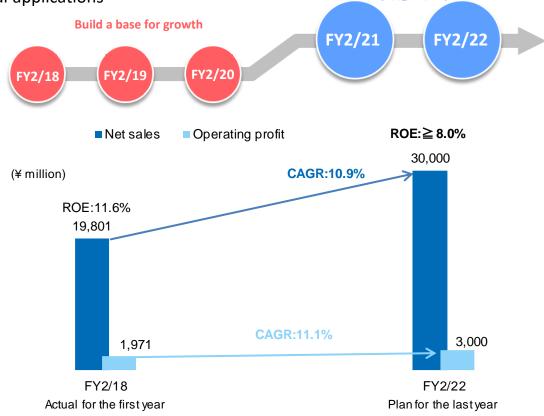
- For pharmaceutical industry capital expenditures in Japan, the benefits of government measures to raise the generic drug share to 80% will start declining in 2020.
- Pharmaceutical industry capital expenditures in other countries are expected to continue growing until at least 2022 and probably afterward as well.

Many opportunities exist for using Freund's technologies and products (pulverizing, granulation, coating particles) in non-pharmaceutical applications

Rapid growth phase

Overview of initiatives and outlook for performance

- Expect new products, industrial machinery and overseas growth to offset weakness in Japan's pharmaceutical market
- Aiming for sales of ¥30 billion and operating profit of ¥3 billion in FY2/22, but expect no significant growth in the plan's first three years because this is a period for structural reforms





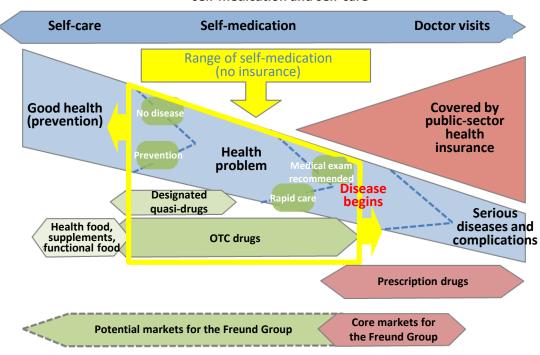
Examples of Key Initiatives for Consistent Earnings Growth



Machinery: Upgrade Activities in Industries Peripheral to Pharmaceuticals in Japan

- Market growth driven by self-medication and self-care (Granulating and coating equipment)
 - Growth of markets for over-the-counter drugs, health food and supplements, and functional food products
 - The same trends are likely to emerge in other Asian countries

Growth of potential markets for the Freund Group in Japan due to increasing self-medication and self-care



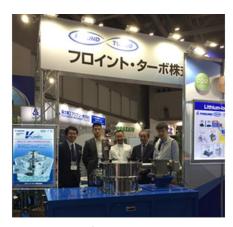
Source: Freund based on documents at the Grand Design press conference of the Japan Self-Medication Industry



Machinery: Faster Global Growth of Industrial Machinery Operations

- A lineup of equipment for producing lithium-ion battery electrode materials
 - A lineup that covers all processes; able to offer prospective customers several models
 - Machines have been sold to companies in China and South Korea, the world's major lithium-ion battery producers; receiving more orders as these companies start commercial production and raise output
 - Products added by a 2018 acquisition have already been sold and are in use



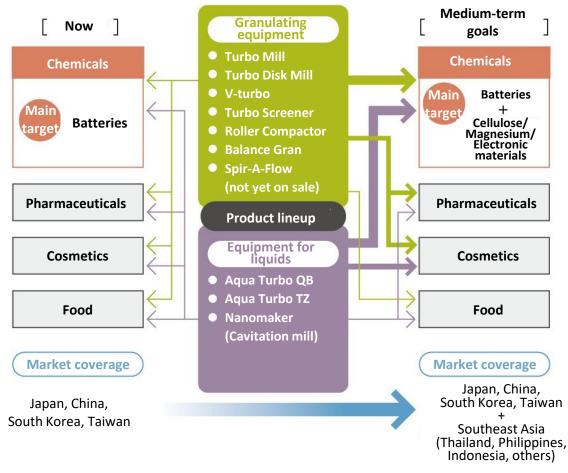


Sales partners from China and South Korea were also at the Freund-Turbo booth at the Battery Japan 2018 exhibition.



Machinery: More Coverage of Industries and Markets Associated with Industrial Machinery

- Focusing on the chemicals, pharmaceuticals and cosmetics industries
- Start selling products in Thailand, Philippines, Indonesia and other ASEAN countries





(Supplementary Materials)

- Company Overview
- Segment Information

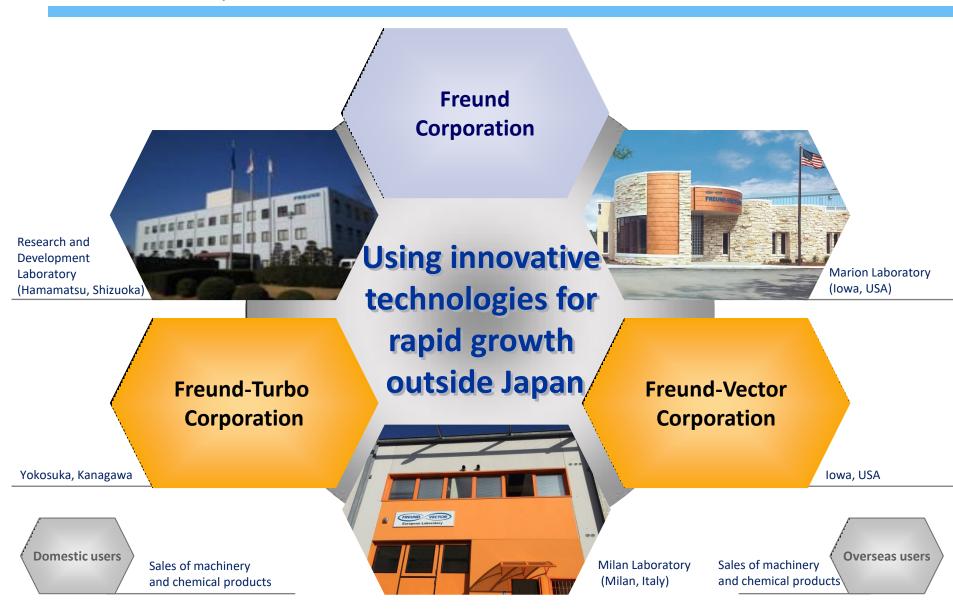


Company Overview

Company name	: Freund Corporation
Established	: April 1964
Representative	: Iwao Fusejima, President & CEO
Location	: 6-25-13 Nishi-shinjuku, Shinjuku-ku, Tokyo, Japan
Paid-in capital	: 1,035,600,000 yen (As of February 28, 2018)
• Sales	: 19,800 million yen (Fiscal year ended February 2018, consolidated)
Number of employees	: 407 (As of February 28, 2018, consolidated)
Business	: Machinery business- Manufacturing and sales of granulation and coating equipment and others Chemicals business- Manufacturing and sales of pharmaceutical excipients, food preservatives, and others
Group companies	: Freund-Vector Corporation, Freund-Turbo Corporation



The Freund Group and R&D Facilities





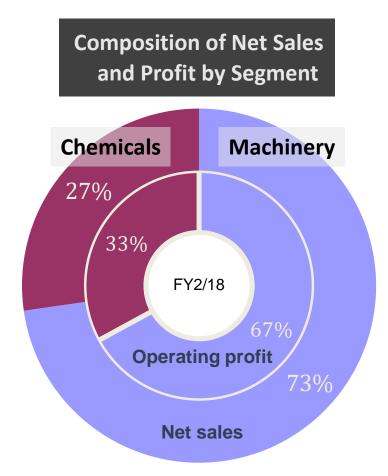
Our "Pen" (Machinery) and "Ink" (Chemicals) Business Model

1. Machinery Business Segment (Pen)

- Manufacturing and sales of granulation and coating equipment for the pharmaceutical, food, and fine chemical industries.
- For coating equipment, Freund ranks first in Japan and sales growth is accelerating in Asian market and in Freund-Vector's U.S. and European operations. No other company in the world has expertise in both drug formulation technologies and the associated machinery.
- Aiming to increase sales of machinery for industrial applications too by combining granulating and coating technologies with milling and sieving technologies.

2. Chemicals Business Segment (Ink)

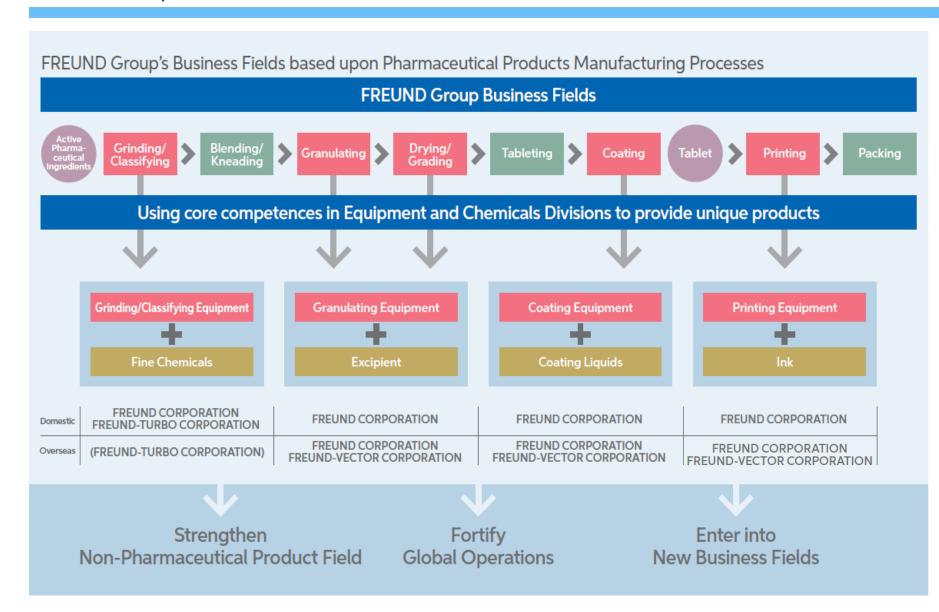
- Manufacturing and sales of pharmaceutical excipients, food preservatives, nutritional supplements, and others.
- Freund uses Good Manufacturing Practice (GMP) compliant equipment to produce pharmaceutical excipients.
- Food preservatives made by Freund help ensure the safety of food by maintaining the quality of many types of products.
- By using its granulating and coating technologies, Freund has worked with customers to develop and commercialize nutritional supplements and seamless mini-capsules.



Consolidated sales: ¥19.80 billion Consolidated operating profit: ¥1.97 billion



Freund Group's Business Fields





Machinery Business: Main Products are Granulating and Coating Equipment for Pharmaceutical Companies

- In the machinery business, pharmaceutical machinery is 83% of sales and industrial machinery is 17%
- Granulating and coating equipment for pharmaceutical companies are the core products Start of accepting orders for tablet printers
- Industrial machinery sales are increasing





Continuous granulating device (Granuformer®)



Automated tablet coating device (HICOATER FZ)







Machinery Business: Effective Use of Group Resources

Production

Development and Sales

F: Freund Corporation F-V: Freund-Vector F.T: Freund-Turbo

A HICOATER machine for customers outside Japan (HICOATER ORIGINAL)

Manufacture



Receipt of orders and sales

(Sales to India and other Asian countries)

Freund-Vector

Freund Corporation

	Development	Sales
HICOATER FZ	F	F / F-V
GRANUREX®	F	F / F-V
SPHEREX®	F	F / F-V
Compu 4 (control system)	F-V	F / F-V
FLOW COATER 12 Bar	F-V	F / F-V
Turbo Screener	F.T	F.T / F-V

The FREUND Group Business Portfolio

- *1 In business fields, Δ indicates fields where the group companies supplies some products.
- *2 In internal processes, Δ indicates processes where some steps are outsourced.

Business	Company	Business fields*1		Internal processes*2		
		Pharmaceutical products	Non-pharmaceutical products	Development/ design	Manufacturing	Test
Machinery	Freund Corporation	0	0	0	_	0
	Freund-Vector	0	Δ	0	0	0
	Freund-Turbo	Δ	0	0	0	0
Chemicals	Freund Corporation	O (Pharmaceutical excipients)		0	Δ	0
			O (Functional food materials)	0	0	0
			O (Food preservatives)	0	Δ	0

Chemicals Business: A Growing Product Lineup for the Healthcare Sector

- Product lineup includes pharmaceutical excipients, food preservatives, nutritional supplements and other products
- Sales of pharmaceutical excipients for generic drugs continue to increase

1. Pharmaceutical excipients

- Direct compression excipients
- Adsorbent/solidified agents/fluidized agents
- White coloring agents
- Lubricant agents
- Luster agents

2. Food preservatives

- Food excipients
- Food quality preserving agents

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3. Nutritional supplements/others

- Seamless mini capsule
- •AQ shelax® (aqueous liquid)
- Supplements







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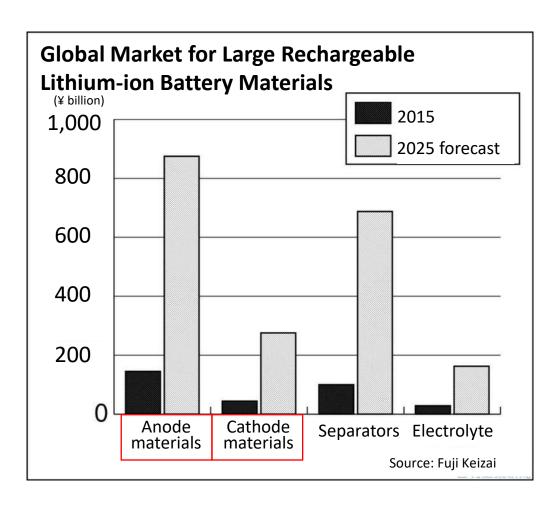
IR website: http://www.freund.co.jp

This presentation contains forward-looking statements involving plans, outlooks, strategies and policies. These statements reflect the judgments of management and assumptions based on information available at the time of this presentation. Actual results of operations may differ from these statements for a number of reasons. Consequently, forecasts and other forward-looking statements are not guarantees about future performance. Although Freund has checked this presentation carefully, there is still a possibility of errors in this information.



Overview of the Rechargeable Battery Manufacturing Equipment Business

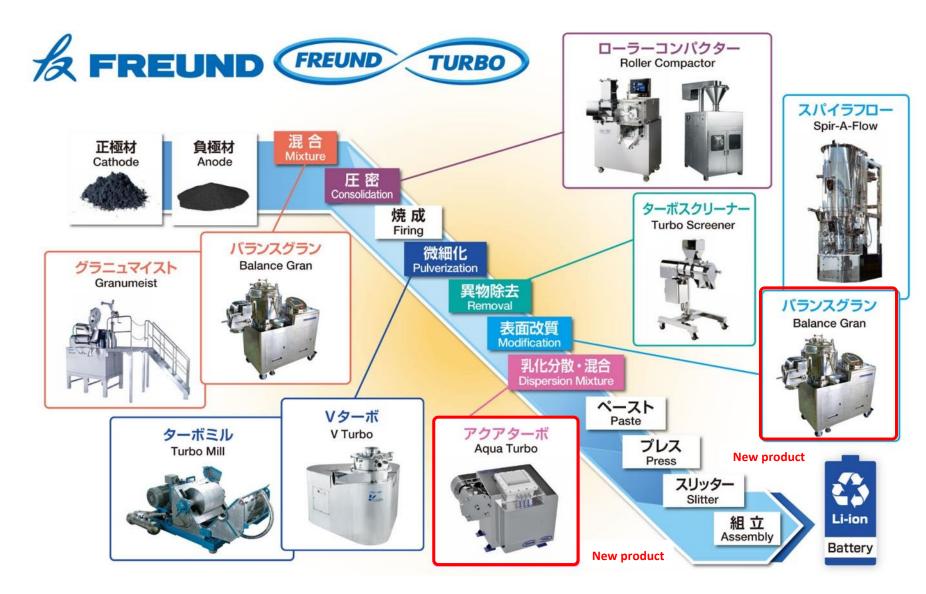




The Freund Group manufactures machinery for the production of anode and cathode materials, which are critical to the operation of lithium-ion batteries.



Lithium-ion Battery



- Freund Group activities in FY2/18
- Participation in rechargeable battery exhibition
- Completed delivery by the end of 2017 of machinery to large battery electrode manufacturers in China and South Korea
- This machinery is now operating as part of the mass production of rechargeable batteries for automobiles
- Participation in the next rechargeable battery exhibition
- <u>Delivered Balance Gran, a new product added</u> through an M&A, and <u>received a follow-up order</u>



The Balance Gran BG-600L Active Material Electrode Additive Mixing Unit

- Granule capacity: 600 liters x 2 units
- Powder contact: WC spray
- Model for cathodes
- Model for mixing three types of materials



* Mixing units for pharmaceuticals are generally no larger than 400 liters, but mixing units used by automotive rechargeable battery manufacturers are much larger.



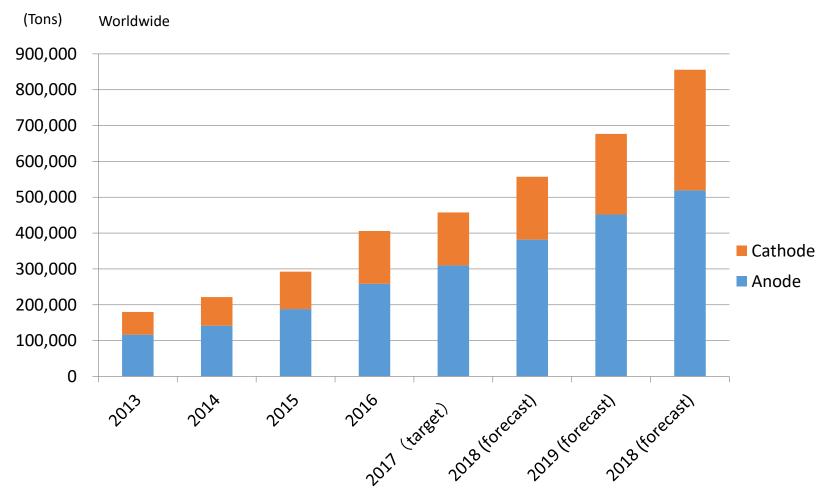
- Many repeat orders from lithium ion battery companies already using Freund machines – Anticipate more repeat orders during FY2/19
- Adding new models
- Upgraded the VT-300C to the <u>VT-400C</u>, a large electrode material pulverizing <u>machine</u> for manufacturers that are further raising production capacity
- Started selling the <u>A-Turbo, a fine pulverizing machine</u>, for nanolevel granulation required for next-generation batteries
- Freund will have a booth at the China International Battery Fair,
 which will take place in Shenzhen from May 22 to 24, 2018
 - One step to speed up sales in China



Supplementary Materials



Annual Production Volume of Anode and Cathode Materials

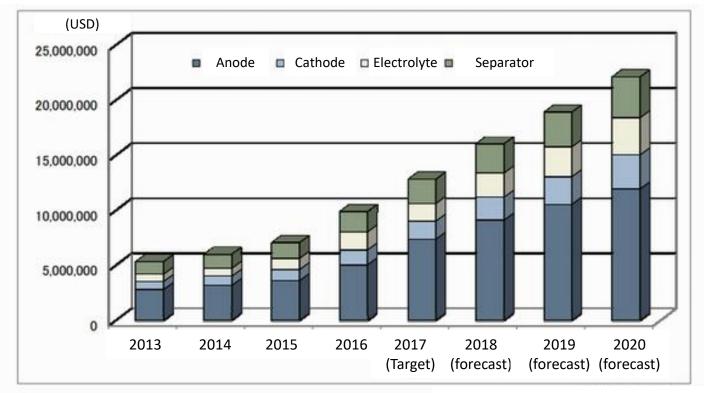


Source: Yano Research Institute

Production capacity is increasing faster than monetary sales as manufacturers continue to make substantial capital expenditures.



Market Overview: Monetary Sales of the Four Main Lithium-ion Battery Components



Estimated by Yano Research Institute

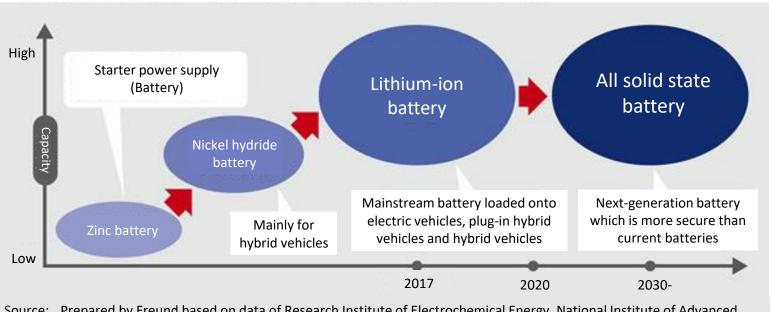
Notes:

- 1. Based on shipment values to manufacturers.
- 2. Estimations for 2017; forecasts for 2018 and afterward.
- 3. Figures are translated based on the following exchange rates: for 2013, 1 US dollar= 97.8 yen, 1,116.97 Korean won, 6.16 Chinese yuan, and 0.75 Euro; for 2014, 1 US dollar= 105.9 yen, 1,152.93 Korean won, 6.14 Chinese yuan, and 0.75 Euro; for 2015, 1 US dollar= 121.0 yen, 1,129.94Korean won, 6.23 Chinese yuan, and 0.90 Euro; and from 2016 onwards, 1 US dollar=108.8 yen, 1,207.70 Korean won, 6.64 Chinese yuan, and 0.94 Euro.
- 4. Due to rounding off, some of ratios in the charts are different.



Rechargeable Battery Progress and Upcoming Advances

The Evolution of Batteries – Currently lithium-ion batteries are the main axis of electric vehicles



Source: Prepared by Freund based on data of Research Institute of Electrochemical Energy, National Institute of Advanced Industrial Science and Technology

