

The overall construction machinery market was strong, though sales and profits temporarily decreased due to unique circumstances.

YAMASHIN-FILTER CORP.

Financial Results for the First Quarter of the Fiscal Year Ending March 2020

First Section of Tokyo Stock Exchange

6240

August 6, 2019



Business environment and our actions in Q1 FY2019

Business market environment

- In the Chinese market, which accounts for about 50% of the global construction machinery market, our main customers, major Japanese construction manufacturers, saw their market shares reduced. In addition, they temporarily undertook inventory adjustments due to circumstances unique to each customer.
- Despite a concern over trade disputes between the U.S. and China, the Chinese economy remained strong as infrastructure investment was expanded.
- The demand for construction machinery in North America, Europe, and Japan was also strong.
- →Using the opportunities created by the strong global demand and Chinese exhaust gas regulations, we will expand our business targeting Chinese local manufacturers.



Company actions

- Net Sales decreased year on year due to a decline in orders as a result of the temporary inventory adjustments at construction machinery manufacturers.
- We expanded our product lineup by utilizing new materials and loT technology with a focus on construction machinery filters.
- We accelerated our efforts to expand our business portfolio centering on the mass production technology of "YAMASHIN Nano Filter TM, or "synthetic polymer nanofibers" and to enter new business fields through M&As.
- We have launched "Project PAC 19," a company-wide cost reduction project designed to enhance our profit generation system, and strengthened the supply chain.

Results in Q1 FY2019

Net sales and operating income decreased year on year.

- Net sales **decreased 21.5% year on year to 2,740 million yen** due to temporary inventory adjustments associated with unique circumstances of each construction machinery manufacturer.
- Operating income decreased 77.5% year on year to 117 million yen in association with a decrease in net sales.

Orders recovered steadily during the quarter after the completion of each manufacturer's inventory adjustments (P.2), and our full-year earnings forecast remains unchanged.



Line parts

Service parts

Company A

Company A's production decreased in the Chinese and Asian markets. The factor in China was the shrinking market share, and the factor in Asia was a temporary one due to the suppression of public investment influenced by national elections. Recovery is expected from Q2 in FY2019.

Company B

Our sales declined, due to company B's temporary inventory adjustments as a result of them shifting their production system from China to Brazil/India through factory restructuring after they reconsidered their presence in the Chinese market. Recovery is expected from Q2 in FY2019 with completion of their new supply chain structure.

Company C

No change in Company C's production plans. Operations proceeded in accordance with the forecast.

Company D

Our sales fell slightly, due to a decrease in Company D's production plans for the Chinese market.

Company E

Our sales decreased, due to a decline in Company E's production plans associated with a decline in their market share for the U.S.

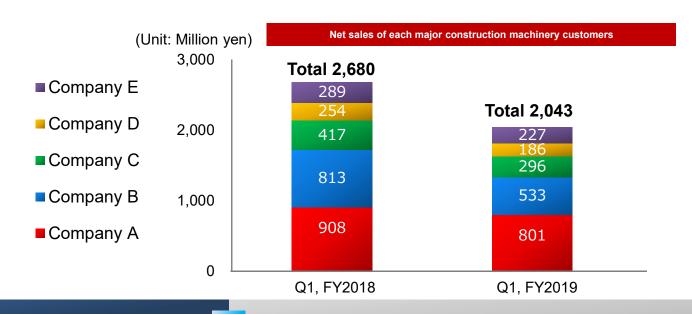
Our sales declined temporarily due to Company A's planned reduction of its stock level from Q3 of the previous fiscal year. After Q2 of the current year, their production cycle will return to normal and our sales will be at the same level as the previous year.

From January 2019, our sales declined significantly due to company B's planned reduction of its stock level following their supply chain restructuring. After Q2 of the current year, their production cycle will return to normal and our sales will be at the same level as the previous year.

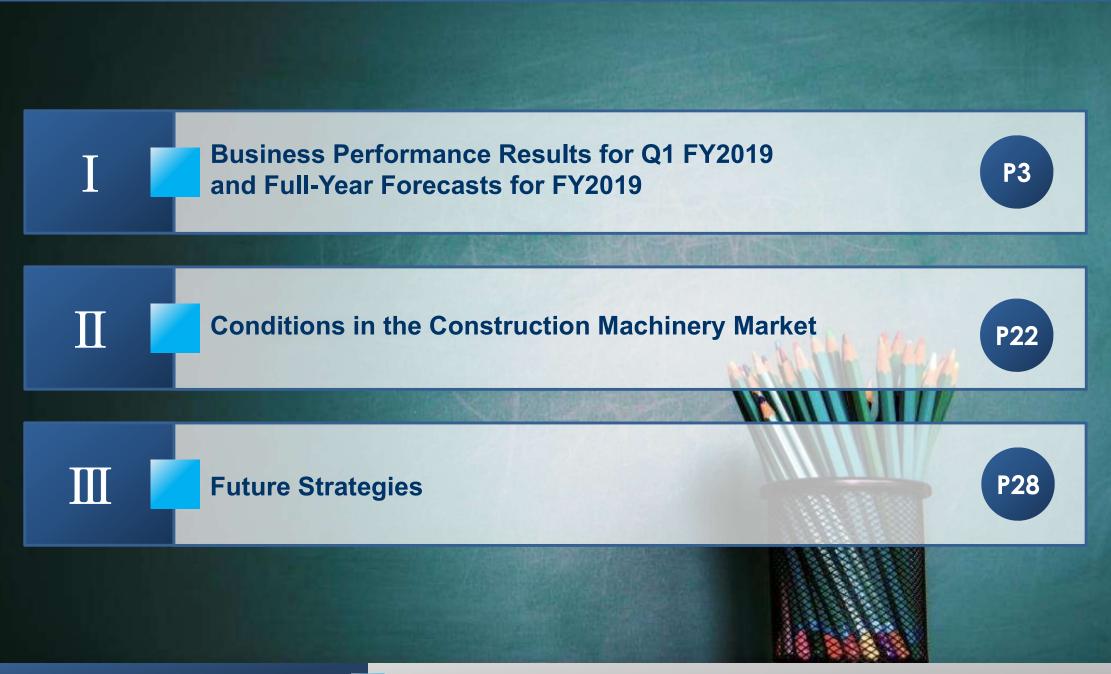
In Q1 of the previous year, our sales increased as Company C switched its filtration media from paper to glass fibers. From Q4 of the previous year to Q1 of the current year, they carried out inventory adjustments. Sales in Asia decreased due to temporary public investment restraint associated with the national elections. From Q2 of the current year, our sales will be at the same level as the previous year.

Our sales decreased due to Company D's excess inventory as a result of the initial supply arrangements for the Chinese market in the previous vear.

Our sales decreased due to a 15% reduction year on year in Company E's annual order forecast for the U.S.











Q1 FY2019 Business Performance (April – June 2019)



	Q1 FY2018 Actual	Q1 FY2019 Actual	YoY cl	nange
(Million yen)	Amount	Amount	Amount	%
Net sales	3,492	2,740	△751	△21.5%
Operating income	521	117	△403	△77.5%
Operating income margin	14.9%	4.3%	△10.6Pt	
Net income	421	61	△360	△85.5%
Net income margin	12.1%	2.2%	△9.8Pt	
Exchange rates AR* USD	109.1	109.9	0.8	0.7%
EUR	130.1	123.5	△6.6	△5.1%

^{*}Average rate for 3 months from April to June



	Q1 FY2018 Actual	Q1 FY2019 Actual	YoY cl	hange
(Million yen)	Amount	Amount	Amount	%
Construction machinery filters	3,155	2,388	△767	△24.3%
Line parts	1,512	1,102	△409	△27.1%
Service parts	1,643	1,286	△357	△21.8%
Industrial filters	130	132	1	1.4%
Process filters	206	219	13	6.6%
Total sales	3,492	2,740	△751	△21.5%



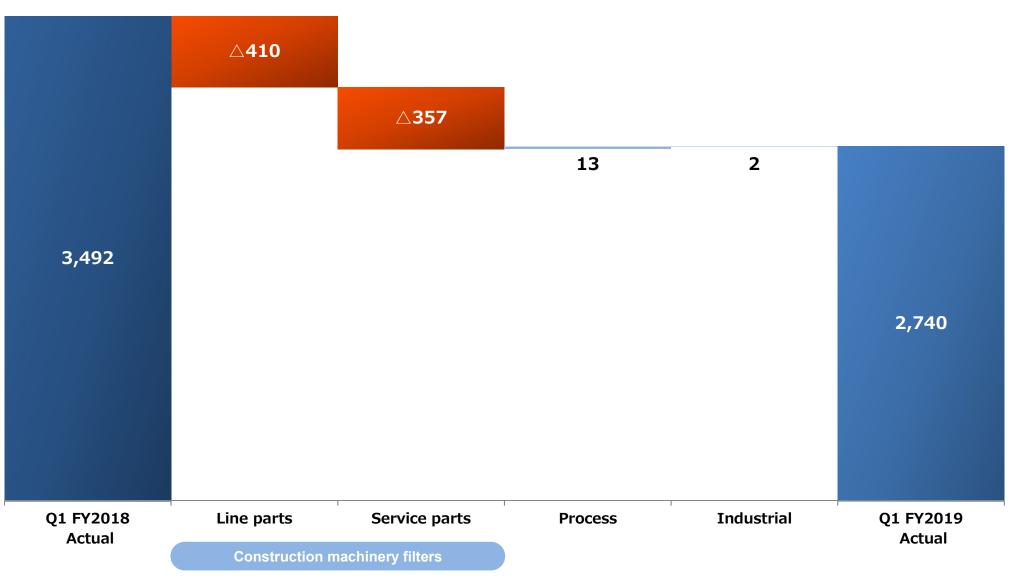
	Q1 FY2018 Actual			Q1 FY2019 Actual		Change	
(Million yen)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	
Japan	1,629	46.6%	1,357	49.6%	△ 272	△16.7%	
North America	521	14.9%	463	16.9%	△ 58	△11.2%	
China	565	16.2%	329	12.0%	△ 236	△41.8%	
Other Asian countries	484	13.9%	325	11.9%	△ 158	△32.7%	
Europe	292	8.4%	264	9.6%	△ 28	△9.8%	
Others (Middle East, etc.)	0	0.0%	0	0.0%	0		
Total sales	3,492	100.0%	2,740	100.0%	△ 751	△21.5%	

Note: The amounts of sales by region here are calculated based on the locations of corporations to which invoices are sent. So actual regional market trends may be different from the numbers shown.



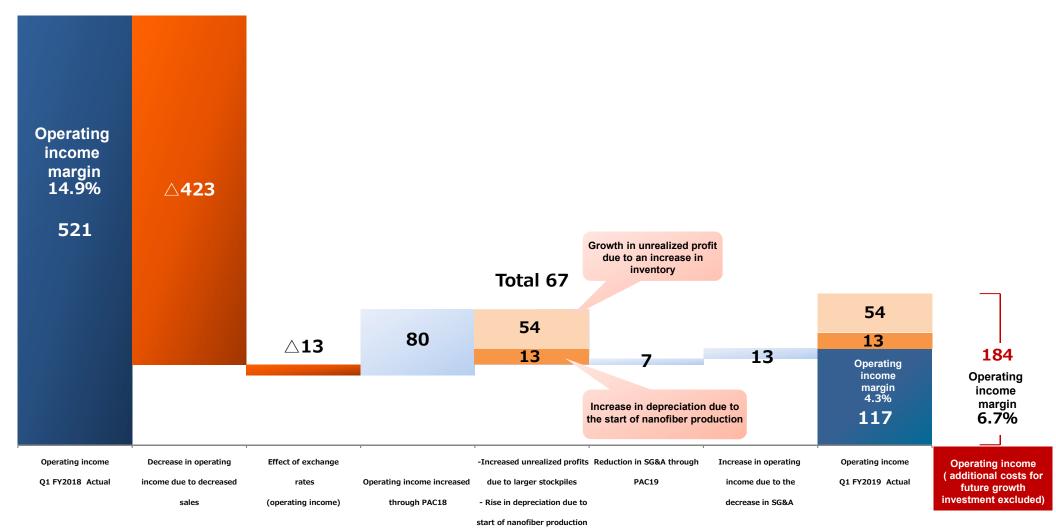










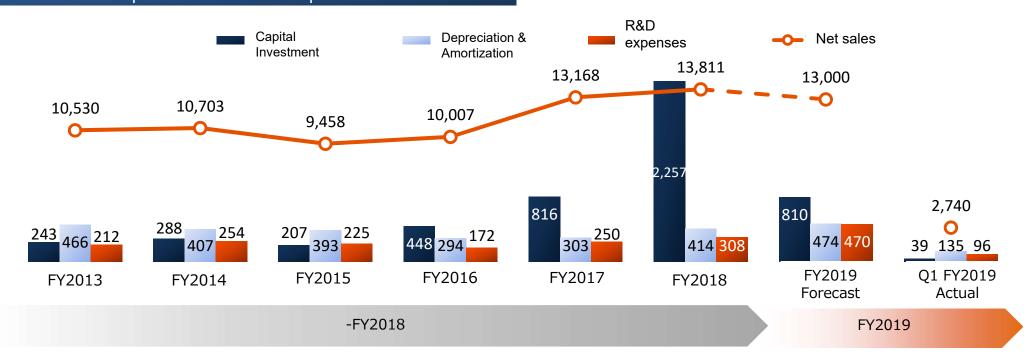


*PAC (Promptly Activated Cost reduction): Company-wide cost reduction project



(Million yen)	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2019 Q1
(Million yen)	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Actual
Net sales	10,530	10,703	9,458	10,007	13,168	13,811	13,000	2,740
Capital investment	243	288	207	448	816	2,257	811	39
Composition ratio	2.3%	2.7%	2.2%	4.5%	6.2%	16.3%	6.2%	1.4%
Depreciation & amortization	466	407	393	294	303	414	474	135
Composition ratio	4.4%	3.8%	4.2%	2.9%	2.3%	3.0%	3.6%	4.9%
R&D expenses	212	254	225	172	250	308	428	96
Composition ratio	2.0%	2.4%	2.4%	1.7%	1.9%	2.2%	3.3%	3.5%

Net sales and capital investment and depreciation & amortization





To share target figures related to improving our corporate value, in both administrative (management) and other operating departments.

What is MAVY'S? (ROIC - WACC)

- aximizing

The key goal indicator (KGI), based on which each relevant department sets its KPI and KSF, and works on measures to attain targets, with the goal of maximizing return on invested capital.



Meet the expectations from stakeholders by improving MAVY's number (key goal indicator)

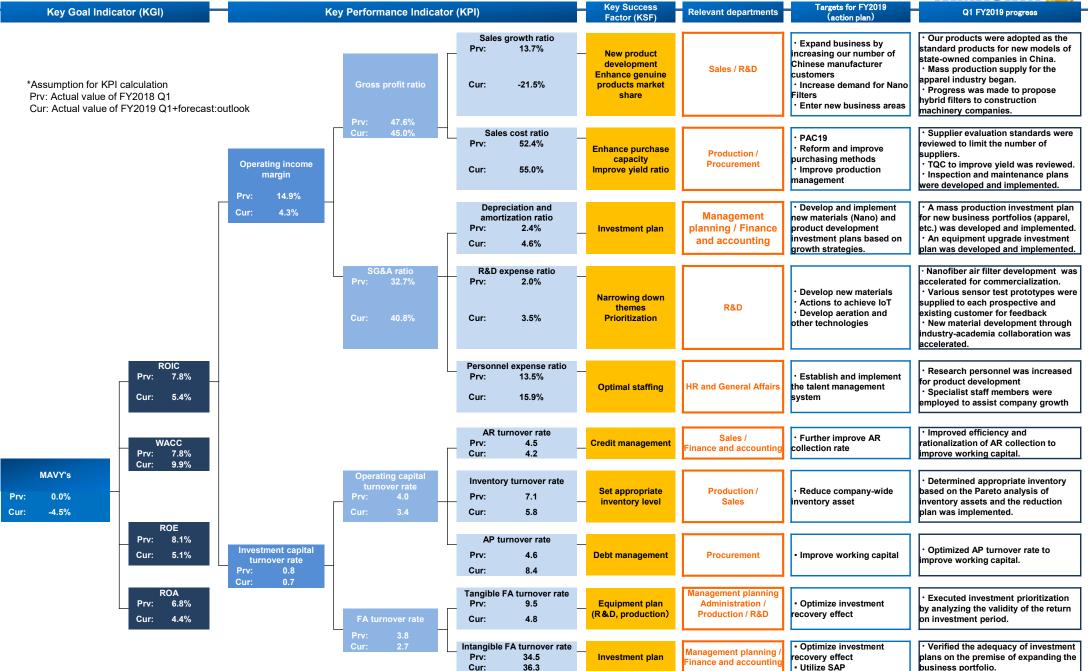


Assign KPIs to relevant departments who are responsible for target setting and implementing actions for achieving the targets in a company-wide coordinated effort



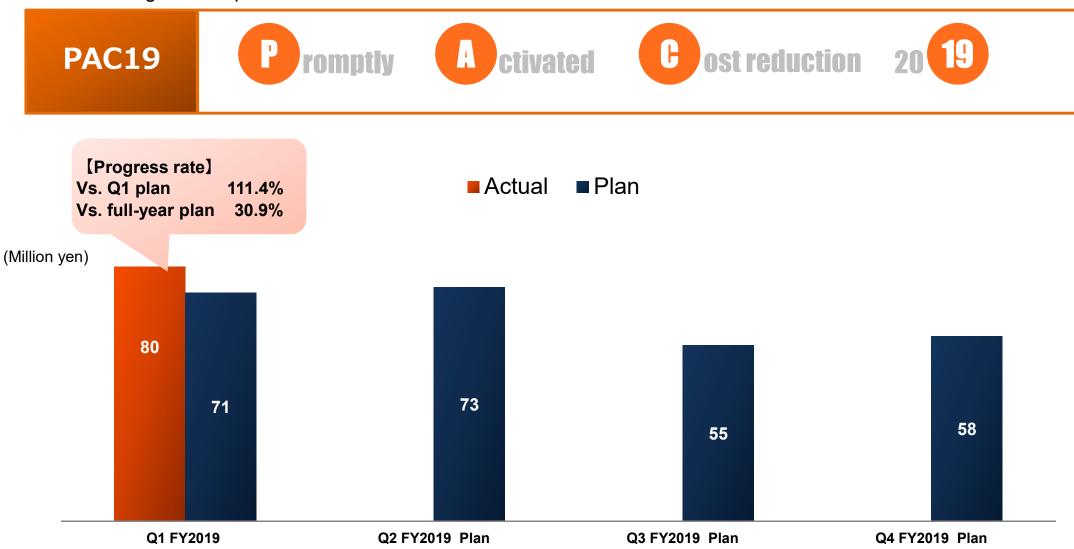
MAVY's: The Big Picture and the Department







Implement comprehensive improvements in production technology, operation management and systems to strengthen the profit structure.





Full-year Forecasts for FY2019



	FY2017 Actual	FY2018 Actual	FY2019 Forecast	FY2018 Actual vs. FY2019 Forecast
(Million yen)	Amount	Amount	Amount	Amount
Net sales	13,168	13,811	13,000	△811
Gross profit	6,074	6,479	6,300	△179
Gross profit ratio	46.1%	46.9%	48.5%	1.6Pt
SG&A	4,163	4,515	4,650	134
SG&A ratio	31.6%	32.7%	35.8%	3.1Pt
Operating income	1,910	1,963	1,650	△313
Operating income margin	14.5%	14.2%	12.7%	△1.5Pt
Ordinary income	1,824	1,915	1,600	△315
Ordinary income margin	13.9%	13.9%	12.3%	△1.6Pt
Net income	1,249	1,413	1,100	△313
Net income margin	9.5%	10.2%	8.5%	△1.7Pt
Exchange rates (Avg.) USD	110.9	110.9	108.0	△2.9
EUR	129.7	128.4	130.0	1.6



	FY2018 Actual		FY2 Fore		FY2018 Actual vs. FY2019 Forecast	
	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Change in ratio (%)
Construction machinery filters	12,353	89.4%	11,543	88.8%	△809	△6.6%
Line parts	5,535	40.1%	5,062	38.9%	△473	△8.6%
Service parts	6,817	49.3%	6,481	49.9%	△335	△4.9%
Industrial filters	548	4.0%	572	4.4%	24	4.4%
Process filters	909	6.6%	883	6.8%	△25	△2.8%
Total sales	13,811	100.0%	13,000	100.0%	△811	△5.9%



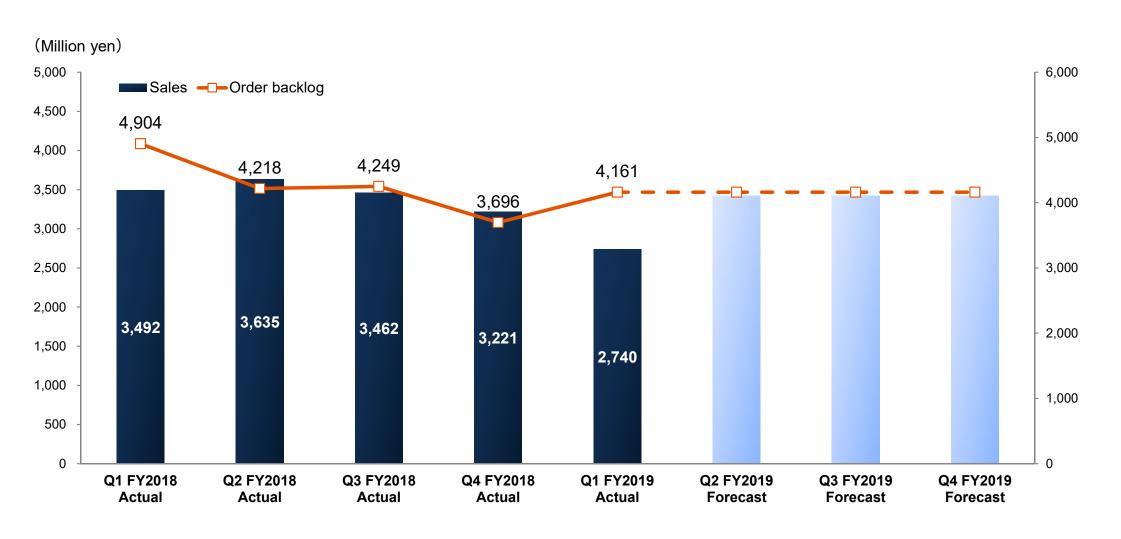
	FY2018 Actual		FY2 Fore	019 cast	FY2018 Actual vs. FY2019 Forecast	
	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Change in ratio (%)
Japan	6,541	47.5%	6,058	46.6%	△482	△7.4%
North America	2,253	16.3%	2,440	18.8%	186	8.3%
China	1,813	13.1%	1,480	11.4%	△333	△18.4%
Other Asian Countries	1,741	12.6%	1,694	13.0%	△46	△2.7%
Europe	1,454	10.5%	1,298	10.0%	△155	△10.7%
Others (Middle East, etc)	6	0.0%	27	0.2%	20	341.7%
Total sales	13,811	100.0%	13,000	100.0%	△811	△5.9%

Note: The amounts of sales by region here are calculated based on the locations of corporations to which invoices are sent. So actual regional market trends may be different from the numbers shown.



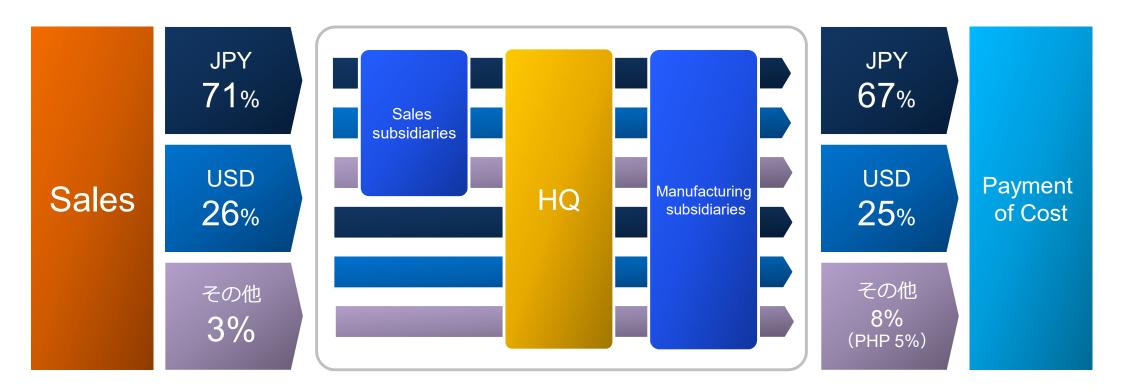


Order backlog will contribute to net sales in H2.





Operational hedge "marry and netting" was continuously conducted, achieving a foreign exchange sensitivity of 0.1%.



70% of transaction currency is JPY. Operational hedge "marry and netting" was conducted for USD

1-yen appreciation of the yen would increase operating income about 0.8 million yen.



The annual dividend will be increased to 6.0 yen per share, including an interim dividend of 3.0 yen and year-end dividend of 6.0 yen per share.

	FY2016	FY2017	FY2017	FY2019 Forecasts
Dividend per share	2.4 yen*1	3.6 yen*1	6.0 yen	6.0 yen
DOE	2.3%	1.9%	2.4%	2.3%
Total return ratio*2	25.6%	21.6%	31.9%	42.9%

Note) The Company conducted a 5-for-1 stock split that became effective on December 1, 2017.

^{*1} For the dividends for FY2016 and FY2017, the amounts shown as a reference value are calculated based on the above stock split.

^{*2} Total return ratio = (Total dividend + Treasury stock acquired + Shareholder benefit) ÷ Net income



Overview of the External Conditions in the Construction Market



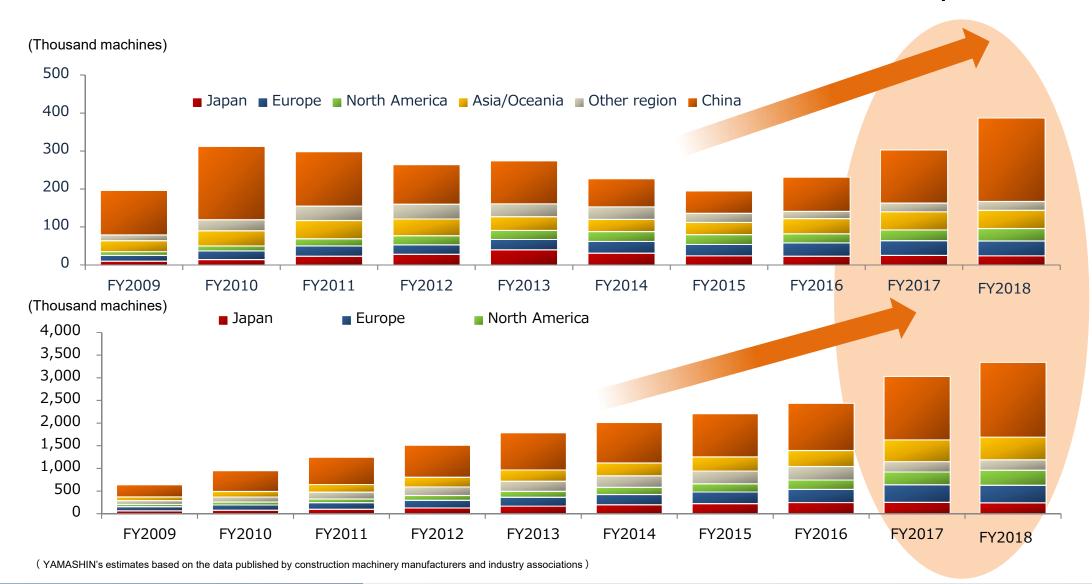
[Summary]

- Despite concerns about the trade war between the U.S. and China, as China has continued public investment, the Chinese economy is healthy as a whole.
- In the Chinese construction machinery market, which constitutes around 50% of the world market, the major Japanese manufacturers (our regular clients), decreased their market shares, lowered the production of new machinery than planned and kept the inventory level of service parts to a necessary minimum.

parto to a ri	ecessary minimum.		
	Past	Current term	Future outlook
China	Significant production cutback due to slowdown of real estate investment	- Strong demand due to expansion of infrastructure investment A significant decline in the market share of our customers, major Japanese construction machinery manufacturers.	- Strong demand expected to continue due to the Chinese government's public investment. - Aiming to expand sales to local Chinese manufacturers in response to stricter exhaust gas regulations.
Southeast Asia	Investment in mining machinery is sluggish, but investment in infrastructure is strong.	- A temporary decline in demand due to the influence of national elections in Indonesia, Thailand and the Philippines.	Potential demand for infrastructure development is strong.
North America	Demand recovery due to infrastructure investment	- Demand was increasing year on year mainly for infrastructure investment.	Healthy demand anticipated
Japan	Demand increase due to strong domestic infrastructure investment	- Recovery in capital investment and public investment Demand was nearly equal to that in the previous year	Demand estimated to be unchanged
Europe	Business was sluggish.	Despite the uncertainties about Brexit, demand was healthy	Healthy demand anticipated

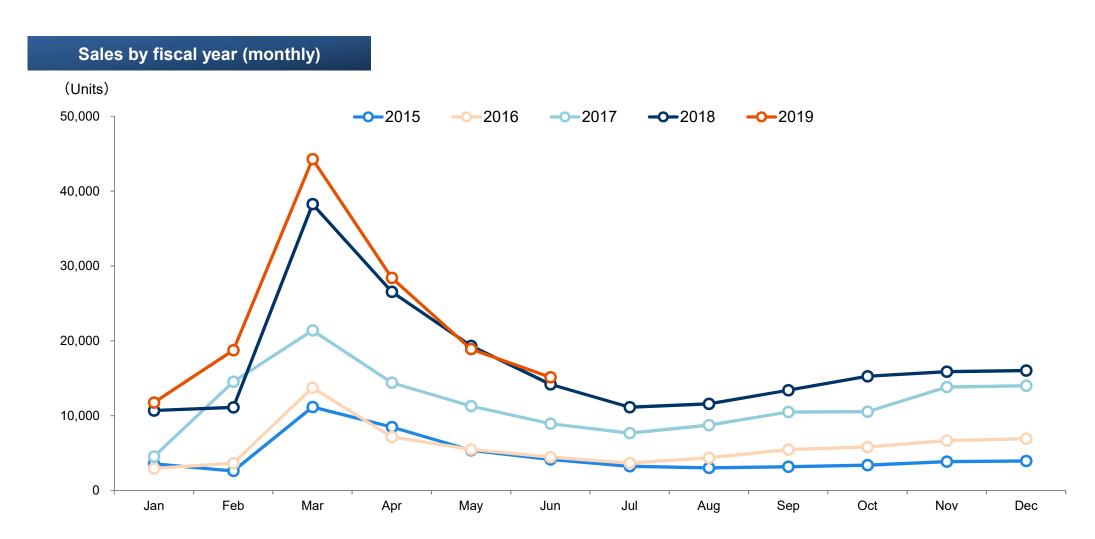


In the Chinese markets, an increase in demand is still anticipated.





The construction machinery demand in China remains strong this fiscal year.



(YAMASHIN's estimates based on the data published by construction machinery manufacturers and industry associations)





Shares of Japanese manufacturers dropped while those of Chinese manufacturers in the mainland of China increased.





Construction machinery filters

Line parts

Service parts

Apparel

Air

Filter

Agricultural

Materials, etc.

Industrial and **Process filters**

Nano Filter

Strategies for business area expansion

Major actions

- Propose failure prediction features, IOT and ICT technology
- Propose a return filter made from new materials
- · Expand sales to Chinese construction machinery manufacturers
- Recapture market share lost due to counterfeit products by holding seminars to rise awareness
- Expand and strengthen product lineups
- · Propose products using our nano fiber technologies to several major apparel manufacturers
- · Develop next-generation air filter and establish a mass production system
- · Proposal for nanofiber materials and products to respond to a wide range of industrial material demands such as building materials and vehicles.
- Expand new business domains

Q1 FY2019 Progress

- Pitching SWIFTROCK and Life Sensor installation to major manufacturers; testing in actual equipment continues.
- · Starting mass production of return filters with new materials
- Starting introduction of hybrid filters for new models compliant with Tier 4 regulations
- Starting provision of our replacement filters to Chinese construction machinery manufacturers
- Proposing SWIFTROCK installation, etc.
- · Cultivating existing customers and identifying new customers by developing products using new materials
- · Starting mass production of new materials for major men's apparel manufacturers
- Developing bespoke prototypes for companies including the largest apparel manufacturer and making a proposal for commercialization in the next fiscal year
- · Developing new material air filters to start its mass production during FY2019
- · Proposing our new material products to major domestic appliance makers
- · Progress toward adoption of our new material heat insulation sheets as standard products by next-generation agricultural ventures that use
- Progress toward mass production of automotive sound-absorbing materials
- Approaching companies in the air filter and non-woven fabric business areas as well as companies with nano technologies in order to expand domestic and overseas business areas



customers



Beyond this, New Materials \times IoT \times Aeration Measure System to increase added value and grow market share

Aeration countermeasure Service life increased threefold system Life Sensors Purity sensors **SMART TANK** New materials ✓ Measure purity of oil and Monitor particle Controlling aeration/bubble generation nside the hydraulic circuits of water accumulation in filters, YAMASHIN construction machinery ✓ Low cost stage by stage Nano Filter ✓ Compact design Currently implementing actual machine tests in cooperation with our SWIFTROCK TM

Filters for construction machinery

We began mass production and sales of filters using new materials in January 2019.



Glass fibers and nanofibers These materials help reduce more waste by enhancing filter performance, and extend the service life of filters (threefold) and construction machinery

Hybrid filters

Helps reduce environmental impact

Now proposing its use in the next generation of models from each construction machinery manufacturer anufacturing company







- Regulations to be enforced on December 1, 2020
- Each company developing new models to cope with the stricter regulations



Started putting importance on quality rather than cost Releasing high quality products into Chinese markets as well

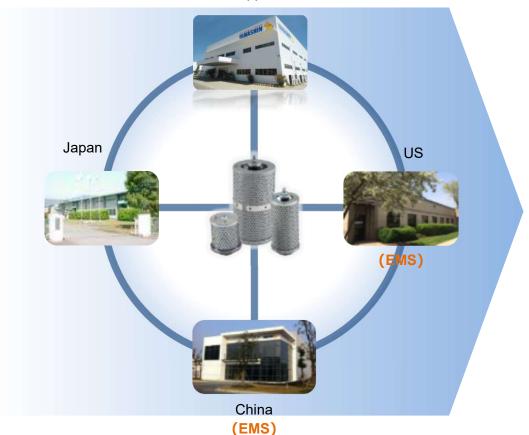




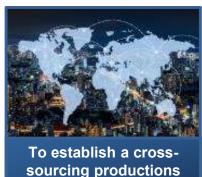
- To establish multiple production bases by reviewing and reorganizing production bases and build a safe and optimized supply chain
- To strengthen the purchasing power and re-establish the global supply chain.

Multiple Sourcing

Philippines

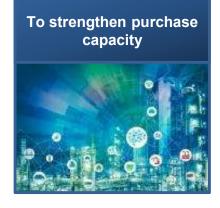


PURPOSES and GOAL













- To develop a new R&D center to establish an integrated R&D system (Yokosuka, Kanagawa)
- To develop a machine testing site, to promptly meet customers' requests





We hold a world-leading share in the construction machinery filter business.

Backed by increasing investment in infrastructure improvements and aftermarket strengths in most regions, we expect sustained growth in our construction machinery filter business.



YAMASHIN Nano Filters will drive growth, with emerging use for diverse applications.







Overview of Our Corporate Group

Our Corporate Group has continued to yield solid business results consistently as a manufacturer specializing in filters since the foundation.

Our Corporate Group has manufactured filters for construction machinery, industrial filters, and process filters by purchasing glass-fiber and non-woven fabrics to produce filter media (the key component of any filter), and resin goods and processed metal for filter components.

Our Corporate Group provides one-stop filter services, including the development, product design, and manufacture of filter media for various filters. We sell our products to customers active in construction machinery, industrial machinery, and other various field.

Filters for construction machinery

A construction machinery filter is used to filter the fluids used in the hydraulic circuits central to the operation of construction machinery.



Filter elements (for construction machinery)

Filters for various industrial fields beyond construction machinery

An industrial filter is a filter used for filtrating operating fluid and lubricants of hydraulic units applied in various industries other than the construction machinery industry. This filter is used in multitudinous kinds of industrial machinery, such as machine tools, refrigerating compressors, agricultural machinery, vessels, railway vehicles, airplanes, and helicopters.



Line filters (for vessels)

Filters for process lines

A process filter is used or filtration and separation in processes for manufacturing customer products. These filters are used in various industries, including electronic parts, precision parts, liquid crystal displays, and food.

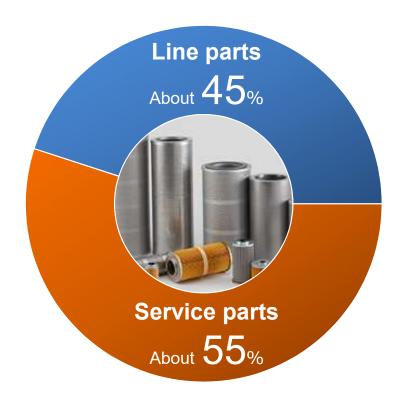


Non-woven filters (for electronic parts)

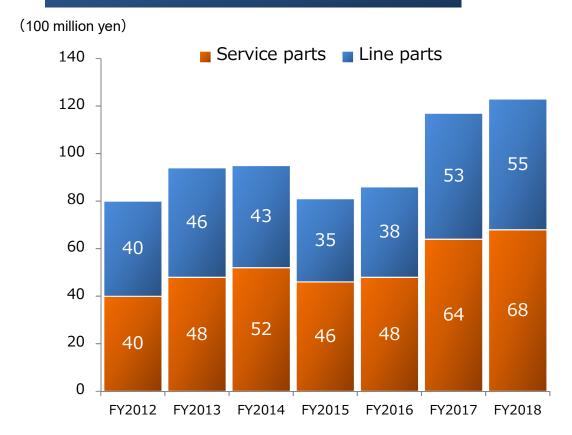


The demand for service parts is expected to expand gradually with increased numbers of construction machines.

FY2018 Sales composition of filters for construction machinery









YAMASHIN provides an extensive lineup of filters essential to operating construction machinery.

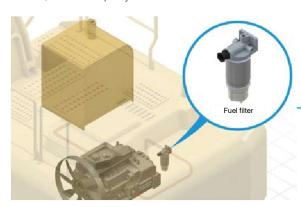


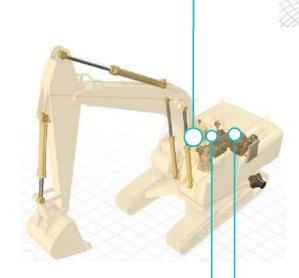
For hydraulic systems

These filters are installed at several locations of each piece of construction machinery to protect hydraulic equipment, including cylinders. Some 70% of all malfunctions affecting construction machinery are believed to be caused by dust in oil, the presence of which leads to mechanical breakdowns. We provide filters ideal for every need based on the know-how cultivated since our founding

For fuel

Fuel filters remove particulates from diesel fuel. Increasingly stringent regulations worldwide have strengthened purity requirements for fuel. Demand for this filter is expected to grow, particularly in emerging nations, where fuel quality tends to be lower..



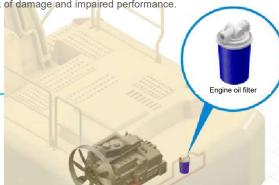


For transmissions

These filters are found in the transmissions of construction machinery. Transmissions are composed of multiple gears. Friction between these gears produces metal powder and particulates. Our company's filters employ proprietary filter elements and materials to remove these particulates and minimize equipment wear.

For engine oil

These filters are in various construction machinery engines. Engines contain pistons and other components moving at high speed that generate power. The engine oil filter removes the metal powders and sludge (sediment), caused by abrasion, that accumulate in engine oil during power generation, mitigating the risk of damage and impaired performance.





Segments and KPI

- Filters for construction machinery are classified as "line parts" or "service parts"
- Line parts refer to filters installed in new construction machines. The primary indicator is
 "the number of new construction machines in demand"
- Service parts refer to replacement filters. The primary indicator is "the number of units in operation" × "hours of operation".

Sales methods, regional trends, and cost reduction measures

Sales format

Filters for construction machinery are sold to construction machinery makers (100%). In principle, we do not sell the products directly to end users.

Regional trends

Sales calculations are based on invoice destinations. Our data may differ from the actual regional market trends

PAC18 (Promptly Activated Cost reduction 2018)

Our company-wide cost reduction project.



Term	Formula
MAVY's	ROIC - WACC
ROIC	NOPAT - Capital investment
Rate of return on capital investment	(Ordinary income + Interests paid) ÷ Capital investment
Turnover rate of working capital	Net sales ÷ (Accounts receivable + Inventory asset - Accounts payable)
Turnover rate of fixed assets	Net sales ÷ Fixed assets
Turnover rate of accounts receivable	Net sales ÷ Accounts receivable
Turnover rate of inventory asset	Net sales ÷ Inventory asset
Turnover rate of accounts payable	Sales cost ÷ Accounts payable
Turnover rate of tangible fixed assets	Net sales ÷ Tangible fixed assets
Turnover rate of intangible fixed assets	Net sales ÷ Intangible fixed assets

^{*}The figures in the balance sheet are the averages of the initial and term-end figures.



STRENGTH

- Overwhelming share of market for construction machinery filters
- Advanced R&D capabilities
- Robust management base based on PAC and MAVY's

OPPORTUNITIES

- To increase our share in the growing Chinese market
- To enhance our presence in the markets for process/industrial filters

WEAKNESS

- Limited business domain
- Filters for construction machinery account for 90% of total sales.
- Overconcentration of production sites

THREAT

- Decrease of our market share, due to the proliferation of counterfeit filter products for construction machinery
- Change in the construction machinery market
- Sluggish sales growth of process/industrial filters

Process/industrial filters

STRATEGY MATRIX Core business (growth)

Filters for construction machinery

Core business (stable)

Business to undergo structural reform





STRENGTH

- Overwhelming share of market for construction machinery filters
- Continuing expansion of market share for new materials
- Advanced R&D capabilities
- Robust management base based on PAC and MAVY's

OPPORTUNITIES

- To increase our share in the growing Chinese market
- To enhance our presence in the markets for process/industrial filters
- Expanding business areas by a leap to status as "comprehensive filter manufacturer"

WEAKNESS

 Filters for construction machinery account for 90% of total sales

Plans to obviate the reakness by realizing a comprehensive filter manufacturer

THREAT

- Decrease of our market share, due to the proliferation of counterfeit filter products for construction machinery
- Changes in the construction machinery market
- Sluggish sales growth of process/industrial filters
- Delays in development of new material products

Eliminates counterfeits by using a new material

Business to be grown

Process/industrial filters

New material Business selected as growth target **STRATEGY MATRIX**

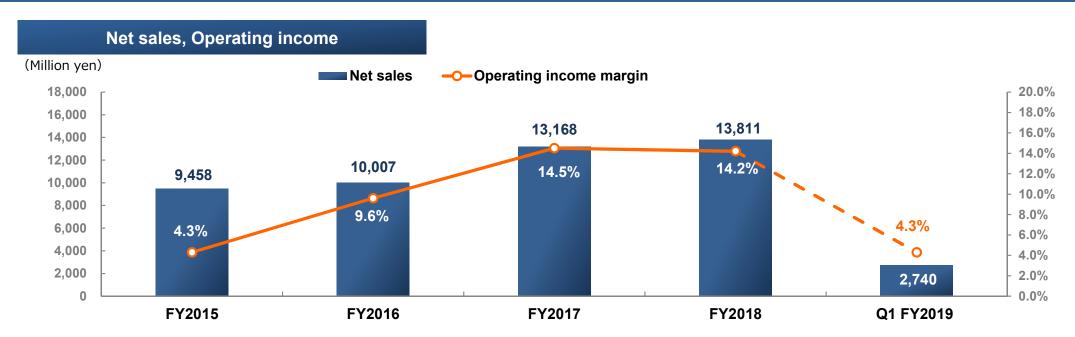
Core business (growth)

Filters for construction machinery....

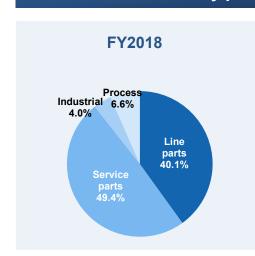
Core business (stable)

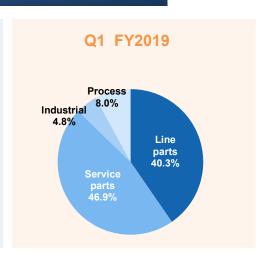




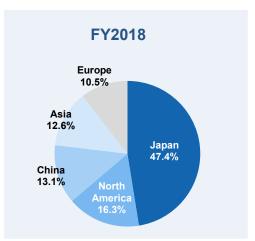


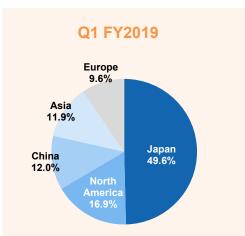






Sales by region

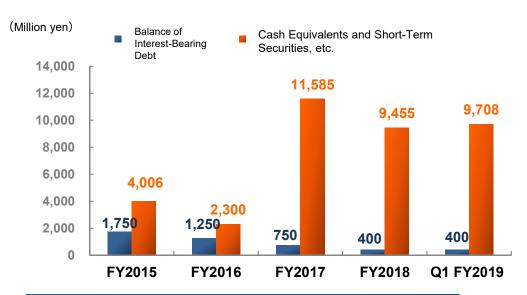




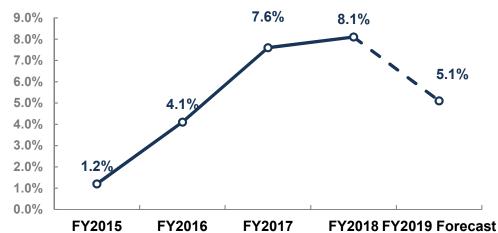




Interest-bearing debt, Cash equivalents, Short-term securities, etc.

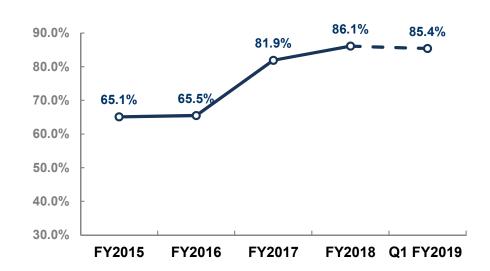


ROE

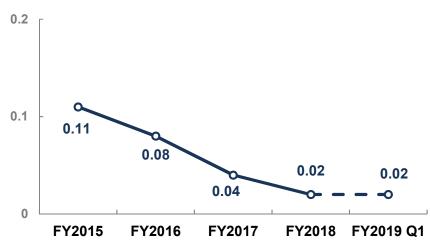


*Calculated based on the assumption that the capital increase through third-party allotment in FY2017 was implemented from the previous fiscal year.

Shareholders' equity ratio



D/E ratio



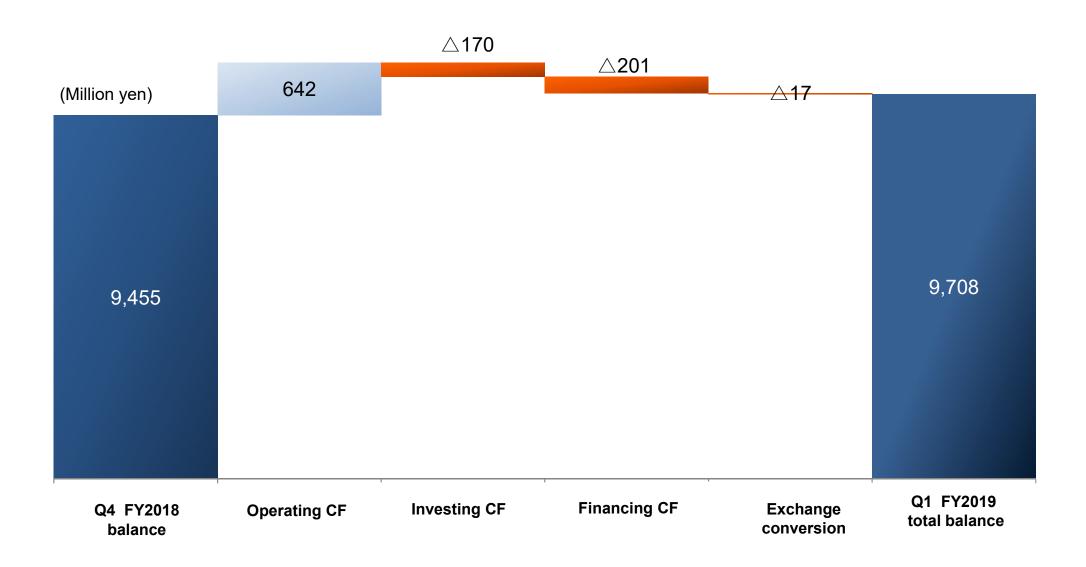
^{*}Calculated based on the assumption that the capital increase through third-party allotment in FY2017 was implemented from the previous fiscal year.



(Million yen)		End of FY2018	End of Q1 FY2019	Change amount	Change in ratio		End of FY2018	End of Q1 FY2019	Change amount	Change in ratio
Cur	rent assets	15,391	15,106	△284	△1.8%	Current liabilities	2,353	2,332	△21	△0.9%
	Cash and deposits	9,489	9,743	253	2.7%	Notes and accounts payable-trade	1,288	1,294	5	0.5%
	Notes and accounts receivable-trade	3,252	2,735	△517	△15.9%	Current portion of long- term loans payable and	200	200	0	_
	Merchandise and finished goods, Raw materials and supplies	2,370	2,312	△58	△2.5%	Corporate bonds Other	865	837	△27	△3.2%
	Other	278	315	37	13.5%	Fixed liabilities	565	723	157	27.8%
Fixe	ed assets	5,641	5,848	206	3.7%	Corporate bonds	200	200	0	_
	Tangible fixed assets	3,540	3,782	242	6.8%	Net defined benefits liability	190	193	3	1.7%
	Intangible fixed assets	346	329	△17	△5.0%	Other	175	329	154	88.0%
	Investments and other assets	1,754	1,736	△18	△1.0%	Total net assets	18,113	17,899	△213	△1.2%
Tota	al assets	21,032	20,955	△77	△0.4%	Total of liabilities and net assets	21,032	20,955	△77	△0.4%
						* Shareholders' equity ratio	86.1%	85.4%		

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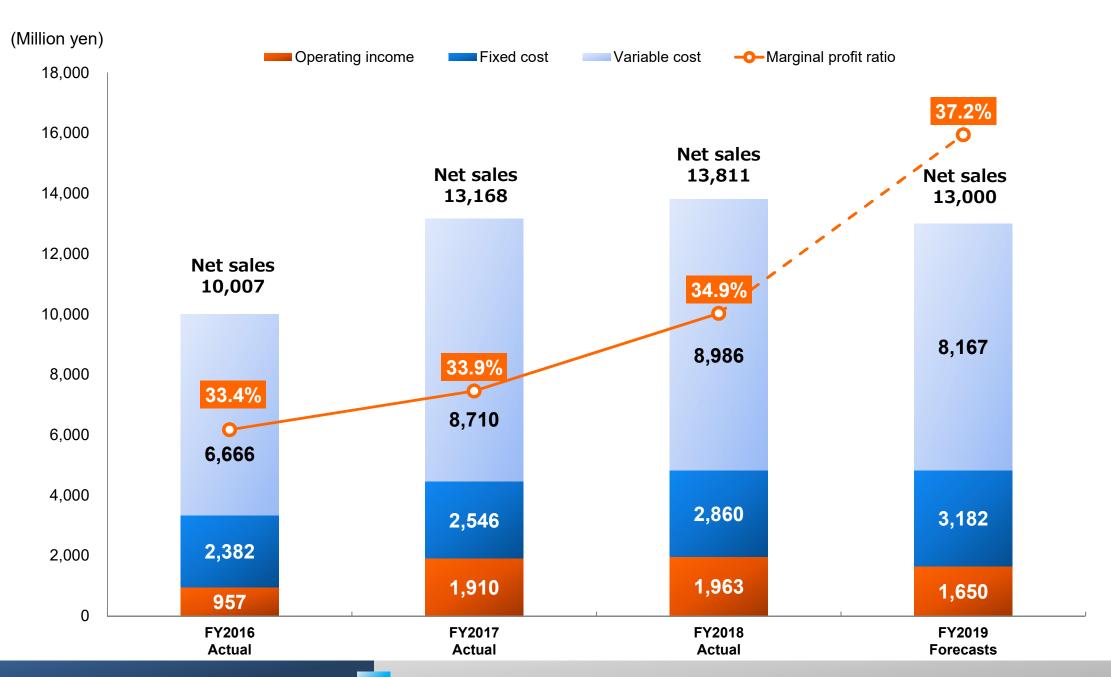




(単位:百万円)

Currency	Incoming			Outgoing			Net	Average rate	In case of yen appreciation (10%)			(半位・日/リロ) In case of yen depreciation (10%)		
	Each currency	Yen equivalent (JPY)	Compositi on ratio	Each currency	Yen equivalent (JPY)	Compositi on ratio	Each currency	during the term (JPY)	Average rate during the term ▲10% (JPY)	Rate difference	Affected amount (QTD)	Average rate during the term +10% (JPY)	Rate difference	Affected amount (QTD)
JPY	¥3,800.0	¥3,800.0	71%	¥3,300.0	¥3,300.0	67%	¥500.0	-	-	-	-	-	-	-
USD	\$12.5	¥1,373.9	26%	\$10.9	¥1,198.0	25%	\$1.6	¥109.9	¥98.92	¥-10.99	¥-17.59	¥120.90	¥10.99	¥17.59
EUR	€ 1.0	¥123.5	2%	€ 0.9	¥111.1	2%	€ 0.1	¥123.5	¥111.14	¥-12.3	¥-1.23	¥135.84	¥12.35	¥1.23
PHP	PP0.0	¥0.0	0%	PP119.4	¥251.9	5%	PP-119.4	¥2.1	¥1.90	¥-0.2	¥25.19	¥2.32	¥0.21	¥-25.19
ТНВ	₿19.50	¥67.9	1%	₿8.00	¥27.8	1%	₿11.50	¥3.5	¥3.13	¥-0.3	¥-4.00	¥3.83	¥0.35	¥4.00
Total	-	¥5,365.2	100%	-	¥4,888.9	100%	-	-	-	-	¥2.37	-	-	¥-2.37







Drawing on mass-production technologies to deploy

YAMASHIN Nano Filters in various sectors.

Considering M&A activities in appropriate fields

Phase 3

Medium term

Deployment to fields like building materials and biosciences (examples)

Phase1 FY2018



Phase2 FY2019

Deployment to automotive





Advancing into the fields of construction machinery, air filters, agricultural materials and apparel





Nano Filter

Control of fiber structures enables mass-production of high-quality precision filters.

① Major customer A



[Requirements]

- Innovative apparel materials
- Ultra-thin, super heat retention, and high humidity control functions

[Current status]

- Mass production and supply has begun
- A supply system for each apparel manufacturer is being established.

② Major customer B



[Requirements]

· Replace glass fiber filters

[Current status]

- Now producing samples to meet specification values
- Increasing performance of prototypes in leadup to product introduction
- Improving equipment to enable stable production
- Preparing for mass production next year



Air filters

Control of fiber structures enables mass-production of high-quality precision filters.

1 Domestic appliance makers



[Requirements]

Replace glass fiber filters

[Current status]

- Need to further improve fiber density and fineness
- Need to increase ambient temperatures during fiber production
- Separate plans call for evaluation of electret materials for air filters with extended life

② Major auto interior parts makers



[Requirements]

• Development of materials that exceed the performance of the existing products (sound absorption/soundproof)

[Current status]

- Strengthening cost competitiveness
- Developing a mass production supply system
- Considering specific processes and management methods for product development

③ Major building materials makers



[Requirements]

Higher thermal insulation and cooling performance than current products

[Current Status]

- Collecting data on the thermal insulation properties of nanofibers
- Producing prototypes and collecting test data





Forecasts regarding future performance presented in this material are based on information that was available at the time this material was released.

Actual results may differ from the forecasts due to various factors such as market trends and business conditions etc.

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