

-Demand for Japanese construction machinery estimated conservatively for FY2019 due to intensifying trade war between the U.S. and China-

YAMASHIN-FILTER CORP. Financial Results for the Fiscal Year Ended March 2019

First Section of Tokyo Stock Exchange

6240

May 24, 2019



Regarding the Business Environment and Initiatives of our Company in FY2018

Business Environment

- Despite the concern over the trade war between the U.S. and China, the overall Chinese Economy was stable.
- Due to the economic stimulation policy enacted at the National People's Congress in March (financial investment policy, 2.15 trillion yuan, economic growth rate: 6.5%), an increase in infrastructure investment and renewal is expected, and using the exhaust gas regulations as an opportunity, we will aim to enter the Chinese markets and acquire sales shares from local manufacturers.
- Under the Chinese construction machinery market, which constitutes around 50% of the world market, the major Japanese construction machinery manufacturers, our regular clients, decreased their market shares, reduced the production of new machinery and kept/lowered the inventory level of the service parts to a necessary minimum.



Initiatives of our company

- With the change in the inventory level of service parts for construction machinery, sales in Q4 stagnated.
- With construction machinery filters as the mainstay, we tried to enrich product lineups utilizing new raw materials and IoT technologies.
- Despite putting our full efforts into reaching the target of PAC18, due to the reduction in manufacturing output, we couldn't reach the reduction goal. While the aim was to reduce the annual accumulative cost to ¥ 330 million, the actual cost reduction was ¥290 million (achievement ratio: 88%).

Performance Trend in FY2018

- Net sales and operating income hit a record high.
- Despite the reduction of the inventory level of service parts by construction machinery manufacturers (our regular clients), sales were 13,811 million yen, up 4.9% year on year.
- Due to efforts made in cost reduction through PAC18, gross profit was 6,479 million yen, up 6.7% year on year.
- Despite an increase in inventory of service parts and rise in SG&A expenses in the second half of the fiscal year, thanks
 to the effects of the above-mentioned sales growth and PAC18, operating income reached 1,963 million yen, up 2.8%
 year on year.









FY2018 Q4 Business Performance (January - March)



	FY2017 Q4 Actual	FY2018 Q4 Actual	YoY c	hange
(Million yen)	Amount	Amount	Amount	%
Net sales	3,542	3,221	△321	△9.1%
Operating income	388	365	△23	△6.0%
Operating income margin	11.0%	11.3%	0.3Pt	
Ordinary income	347	356	9	2.6%
Ordinary income margin	9.8%	11.1%	1.3Pt	
Net income	273	273	0	0.0%
Net income margin	7.7%	8.5%	0.8Pt	
Exchange rates AR* USD	108.3	110.2	1.9	1.8%
EUR	133.2	125.2	△8.1	△6.0%

^{*}Average rate for 3 months from January to March





	FY2017 Q4 Actual FY2018 Q4 Actual		YoY c	hange
	Amount	Amount	Amount	%
Construction machinery filters	3,224	2,821	△402	△12.5%
Line parts	1,557	1,298	△258	△16.6%
Service parts	1,666	1,523	△143	△8.6%
Industrial filters	119	129	10	8.4%
Process filters	199	269	70	35.4%
Total sales	3,542	3,221	△321	△9.1%

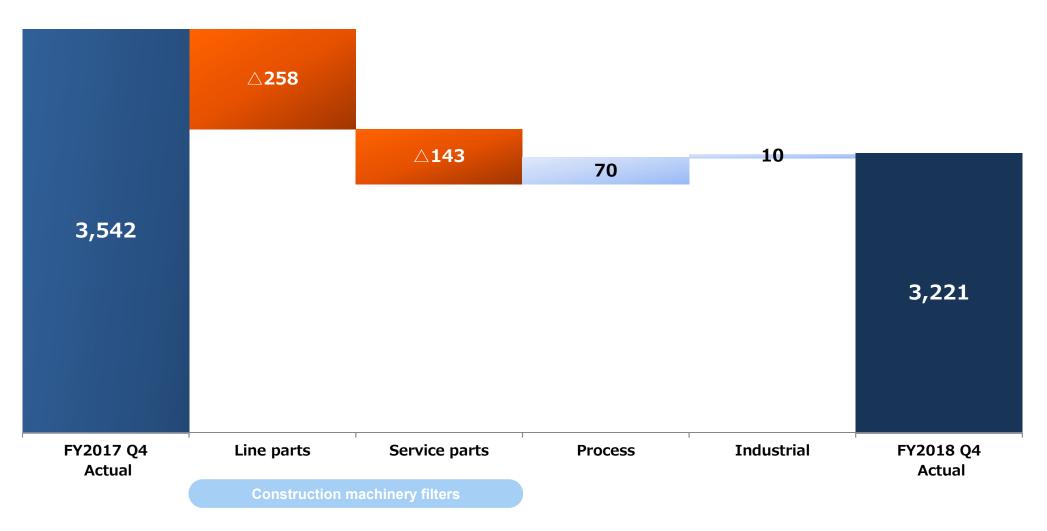


	FY2017 Q4 Actual		FY20 ⁻ Act		Change		
	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	
Japan	1,621		1,518	47.1%	△102	△6.3%	
North America	583	16.5%	553	17.2%	△ 30	△5.2%	
China	612	17.3%	466	14.5%	△ 146	△23.9%	
Other Asian countries	392	11.1%	350	10.9%	△ 41	△10.7%	
Europe	337	9.5%	331	12.4%	△ 5	△1.7%	
Others (Middle East, etc.)	△ 4	-0.1%	0	0.0%	4		
Total sales	3,542	100.0%	3,221	100.0%	△ 321	△9.1%	

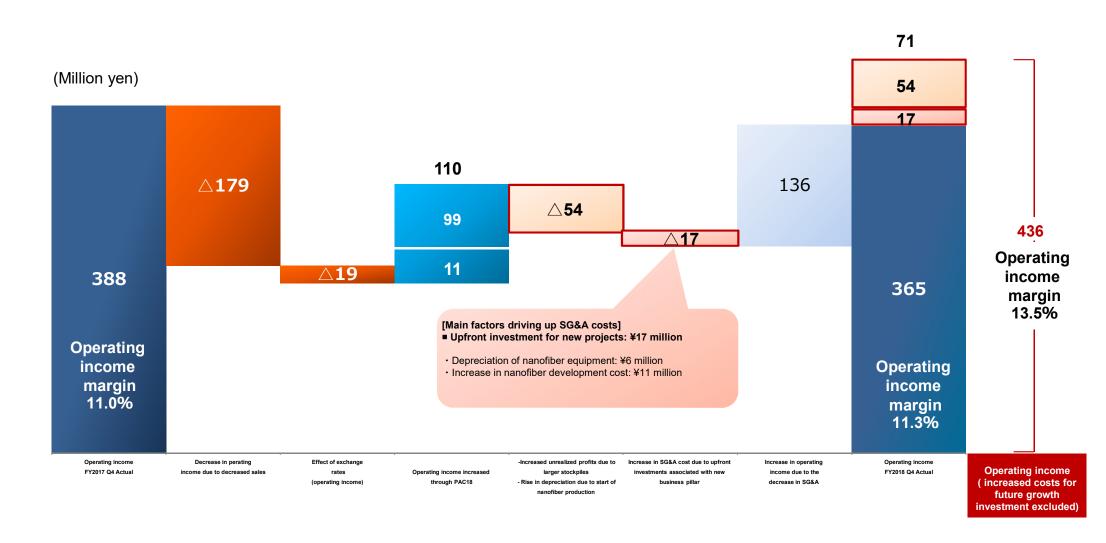
Note: The amounts of sales by region here are calculated based on the locations of corporations to which invoices are sent. So actual regional market trends may be different from the numbers shown.











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



FY2018 Business Performance (April 2018 – March 2019)



(Million yen)	FY2017 Actual	FY2018 Actual	YoY c	hange
	Amount	Amount	Amount	%
Net sales	13,168	13,811	642	4.9%
Operating income	1,910	1,963	52	2.8%
Operating income margin	14.5%	14.2%	△0.3Pt	
Ordinary income	1,824	1,915	91	5.0%
Ordinary income margin	13.9%	13.9%	0.0Pt	
Net income	1,249	1,413	164	13.1%
Net income margin	9.5%	10.2%	0.7Pt	
Exchange rates AR* USD	110.9	110.9	0.0	0.1%
EUR	129.7	128.4	△1.3	△1.0%

^{*}Average rate for 12 months from April to March



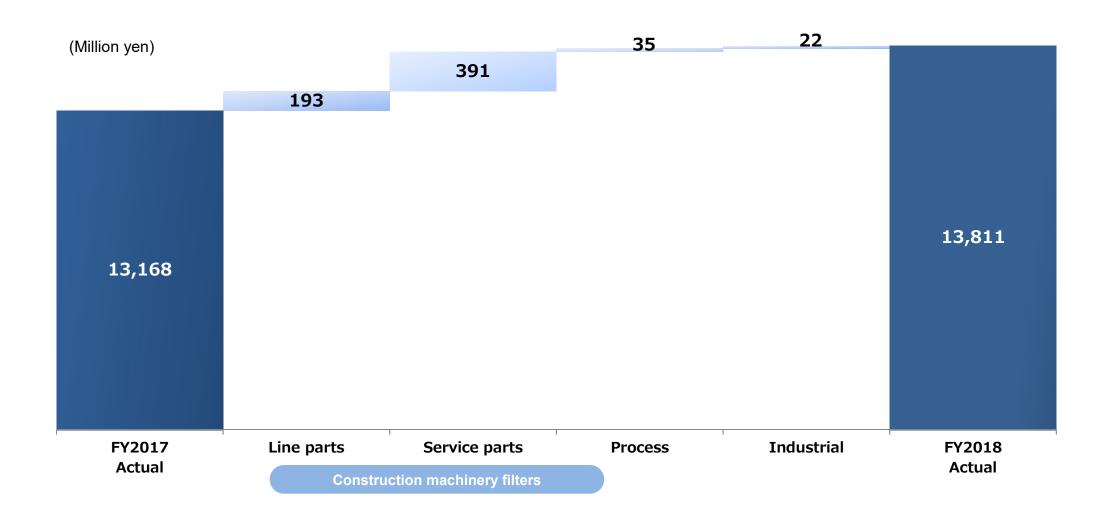
	FY2017 Actual	FY2018 Actual	YoY change		
(Million yen)	Amount	Amount	Amount	%	
Construction machinery filters	11,768	12,353	585	5.0%	
Line parts	5,342	5,535	193	3.6%	
Service parts	6,425	6,817	391	6.1%	
Industrial filters	526	548	22	4.2%	
Process filters	873	909	35	4.1%	
Total sales	13,168	13,811	642	4.9%	



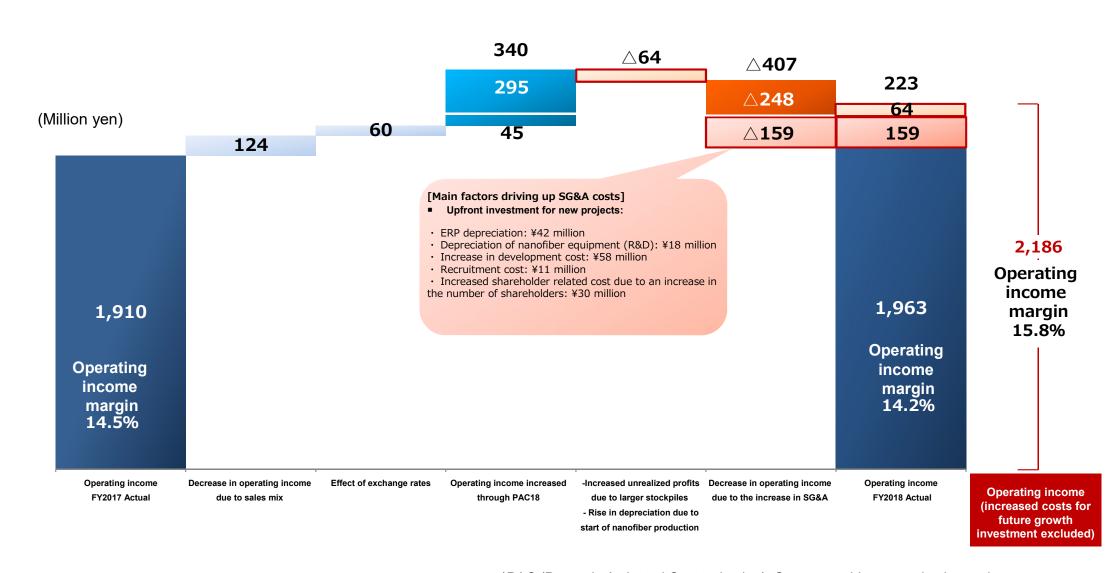
	FY2017 Actual		FY2 Act		Change		
	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	Amount (Million yen)	Composition ratio (%)	
Japan	6,443	48.9%	6,541	47.5%	97	1.5%	
North America	2,201	16.7%	2,253	16.3%	52	2.4%	
China	1,753	13.3%	1,813	13.1%	60	3.5%	
Other Asian countries	1,522	11.6%	1,741	12.6%	219	14.4%	
Europe	1,204	9.2%	1,454	10.5%	249	20.7%	
Others (Middle East, etc.)	42	0.3%	6	0.0%	△35	△85.4%	
Total sales	13,168	100.0%	13,811	100.0%	642	4.9%	

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.







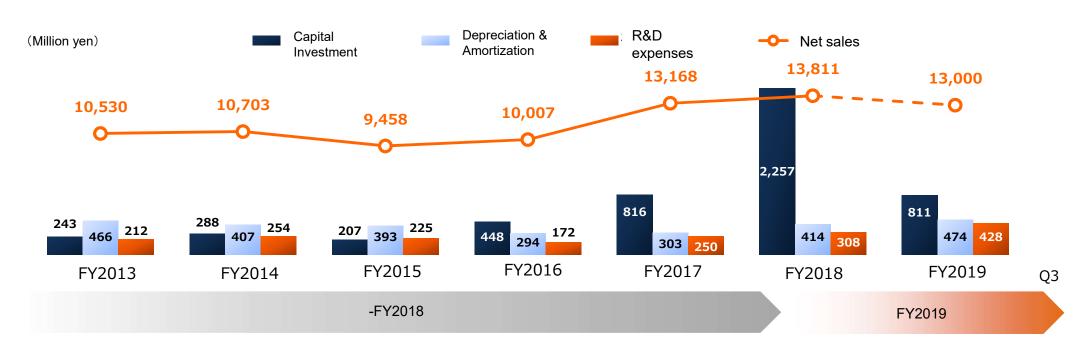


*PAC (Promptly Activated Cost reduction): Company-wide cost reduction project



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

Net sales and capital investment and depreciation & amortization





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

What is MAYY'S? (ROIC - WACC)

- **M** aximizing
- A dded
- **W** alue of
- Y amashin Filter
- **S** pread

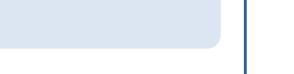
The key goal indicator (KGI), based on which each relevant department sets its KPI and KSF, and works on measures to attain targets, with the goal of maximizing return on invested capital.



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

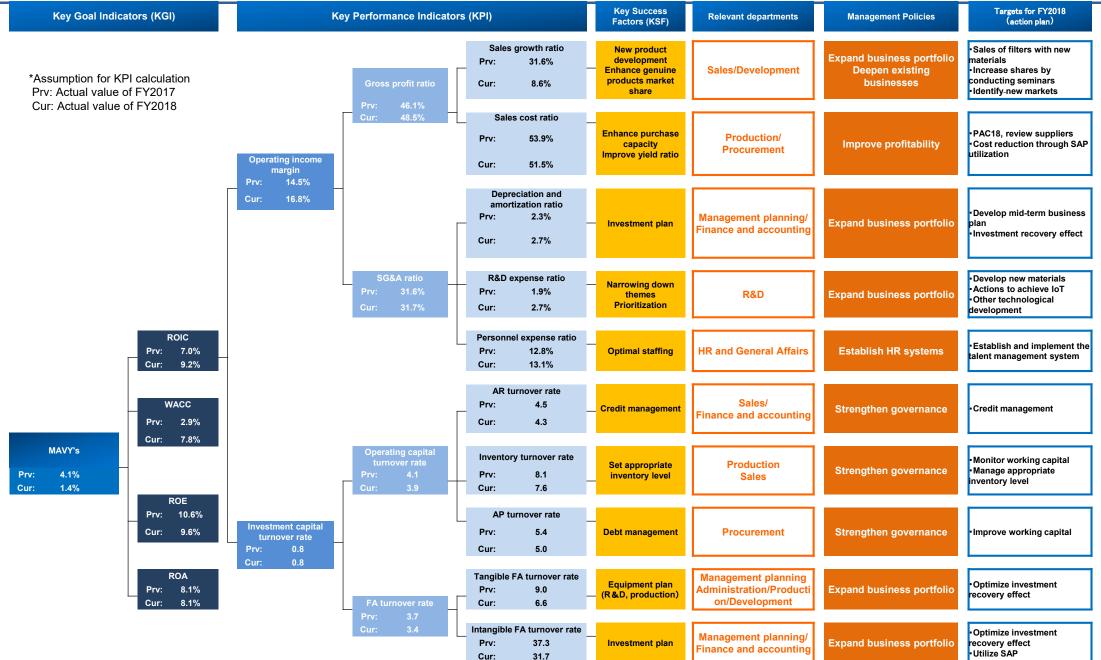


Assign KPIs to relevant departments who are responsible for target setting and implementing actions for achieving the targets in a company-wide coordinated effort



MAVY's: The Big Picture and the Department





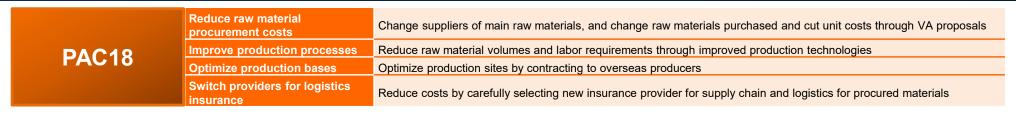


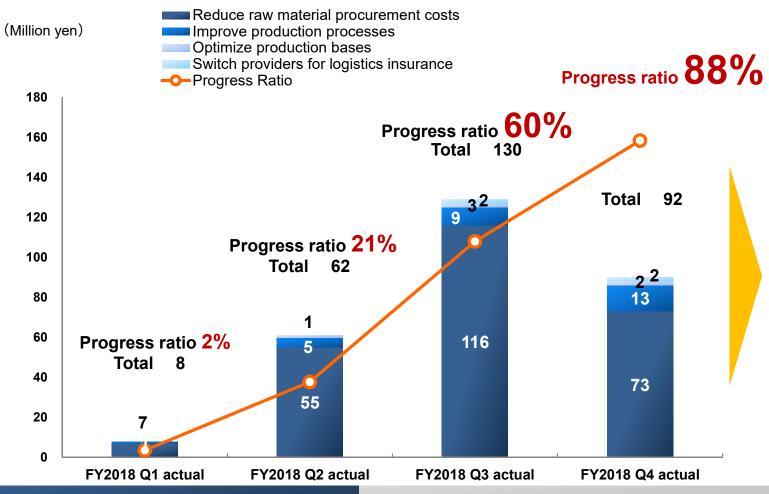
 Implement comprehensive improvements in production technology, operation management and systems to strengthen the profit structure.

PAC18 ost reduction romptly ctivated **Achievement Reduction targets H1 Full-year** Cost ratio **Background Action plan** (Annual targets) Actual (of annual Actual category target) To streamline 330 million Manufacturing production 294,961 88% To strengthen supply (1K yen) cost ven chain, etc. Establish strong foundation and a profit making structure To reduce sales million 44,792 SG&A 90% and general (1K yen) administrative cost



We focused our efforts on reducing raw material procurement costs in FY2018.





[Factors in failure to achieve goals]

The initiatives themselves were quite effective, but the stagnation of sales in FY2018 Q4 hindered the decrease in supply cost for raw materials. Therefore, the annual target was not met.



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 AR USD	110.9	110.9	108.0	△2.9	
EUR	129.7	128.4	130.0	1.6	



	FY2018 Actual			2019 casts	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	5,062 38.9% △47		△8.6%	
Service parts	6,817	49.3%	6,481 49.		△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%	



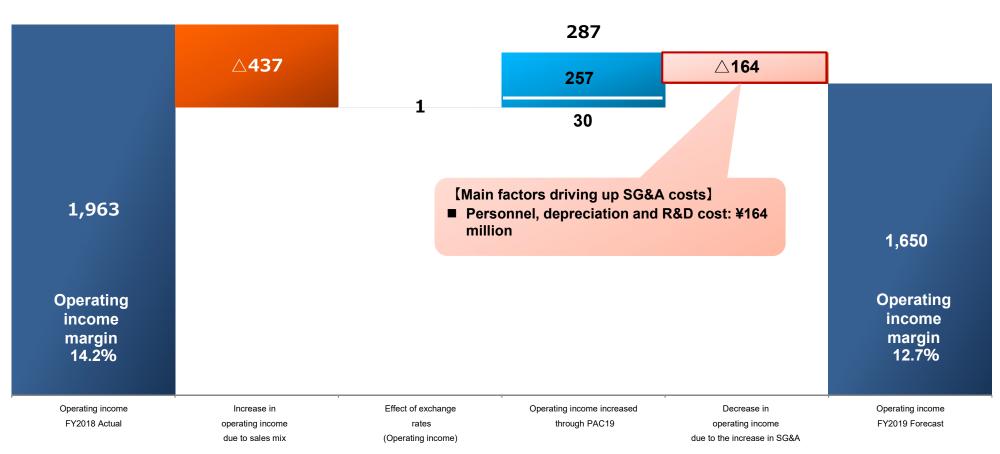
	FY2018 Actual		FY2 Fore	019 cast	FY2018 Actual vs. FY2019 Forecast		
	Amount (Million yen)	Composition ratio (%)			Amount (Million yen)	Change in ratio (%)	
Japan	6,541	47.5%	6,058	46.6%	△482	△7.4%	
North America	2,253	16.3%	2,440	18.8%	186	8.3%	
China	1,813	13.1%	1,480	11.4%	△333	△18.4%	
Other Asian 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	27 0.2%		341.7%	
Total sales	13,811	100.0%	13,000	13,000 100.0%		△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.





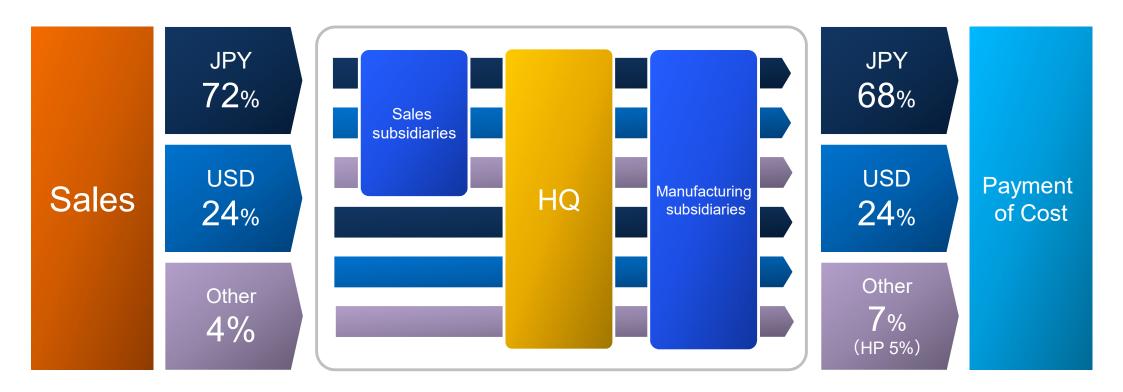




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Operational hedge "marry and netting" was continuously conducted, achieving a foreign exchange sensitivity of 0.1%.



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 1.0 million yen.

26



The annual dividend will be increased to 6.0 yen per share, including an interim dividend of 2.5 yen and year-end dividend of 3.5 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





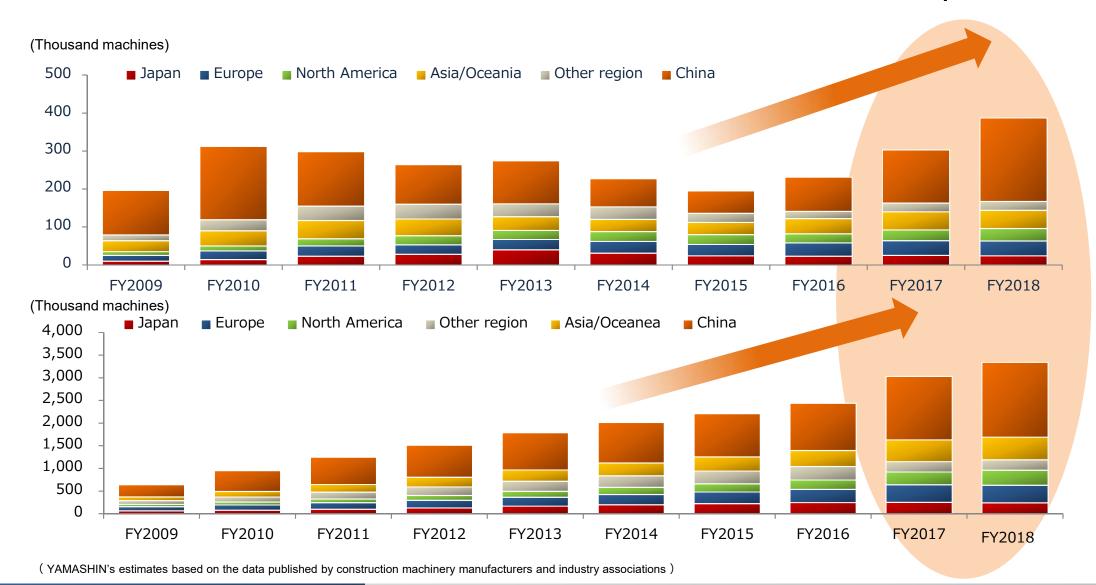
[Summary]

- Despite concerns about the trade war between the U.S. and China, China has conducted public investment as a countermeasure. Therefore, 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 makers (our regular clients), decreased their market shares, reduced the production of new machinery and kept/lowered the inventory level of service parts to a necessary minimum.

	Past	\geq	Current	Future outlook
China	Significant production cutback due to slowdown of real estate investment		Demand remains strong	Increase in infrastructure investment (2.15 trillion yuan) Using the exhaust gas regulations as an opportunity, we aim to increase new customers
Southea st Asia	Investment in mining machinery is sluggish, but investment in infrastructure is strong.		Demand is growing overall, centered on Indonesia.	Slight decrease in demand anticipated in some regions
North America	Demand recovery due to infrastructure investment		Centered around energy development and infrastructure investment, demand grew from the previous year	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

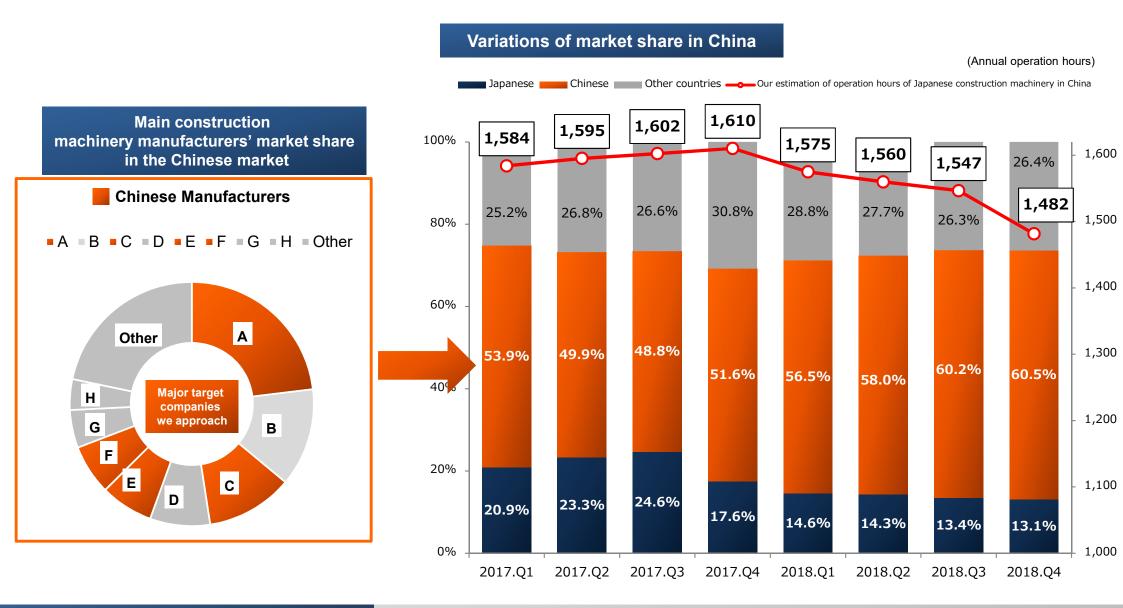


In the Chinese markets, an increase in demand is still anticipated.





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

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 construction machinery manufacturers in China
- · Recapture market share lost due to counterfeit products by holding seminars

- **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
- · Plan to provide our replacement filters to Chinese construction machinery manufacturers

Expand and strengthen product lineups

- · Developing and proposing products with new materials (Proposing SWIFTROCK installation, etc.)
- Proposing materials using our technology to several
- Develop next-generation air filters **Filter**

major apparel manufacturers

· Identify agri-venture companies, etc. for collaboration

- Starting provision of prototypes to several major apparel manufacturers
- · Starting mass production of new materials to major men's apparel manufacturers
- Developing new material air filters to start its mass production during
- · Proposing our new material products to major domestic appliance makers
- · Progress in standardization of our heat insulation sheets using our new materials for next-generation agricultural ventures using Al. etc.
- Progress in mass production of automotive sound-absorbing materials

Expand new business domains

 Approach companies in the air filter and non-weaven fabric business areas as well as companies with nano technologies in order to expand domestic and overseas business areas





The construction machinery market will be strong in the next 3 to 5 years. We will proactively develop business to achieve the goals by utilizing the 10 billion yen capital funds.

Expand business portfolio

By establishing the next growth pillars needed to address a dependence on construction machinery

Establish a more robust corporate structure

By establishing multiple production bases By reconfiguring the global supply chain

[3 pillars]

Construction machinery filters Process and industrial filters

Expansion of new materials

Cost reduction through PAC18

Large-scale investment plans for the R&D facilities
Investment to launch production facilities in the major markets

Establish a new R&D center

3 billion yen

Mass produce new materials and increase the productivity of existing products

3 billion yen

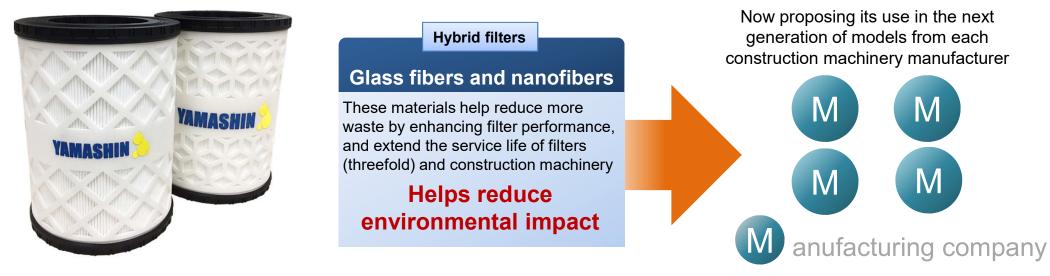
Capital and business tie-ups, including M&A

4 billion yen

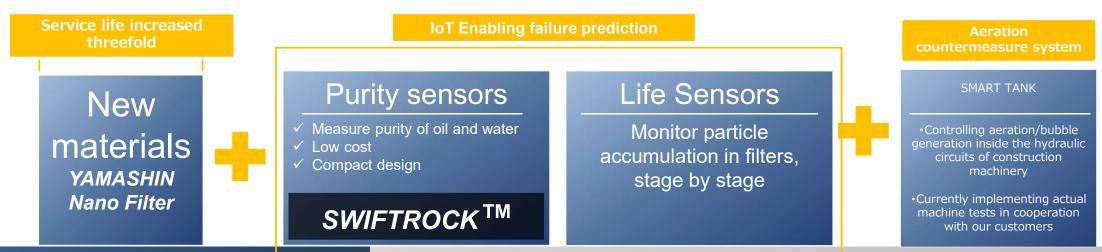


Filters for construction machinery

We have established nano fiber mass production technologies/facilities, and delivery of Nano Filter products for construction machinery already "began" in January 2019.



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









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



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



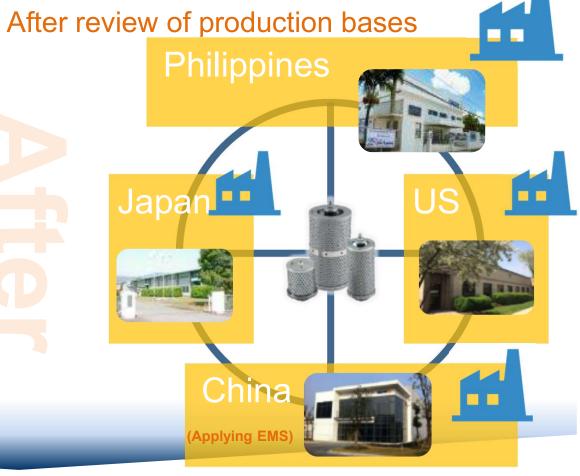


 To establish multiple production bases by reviewing and reorganizing production bases and build a safe and optimized supply chain

Before review of production bases







PURPOSES and GOAL

To establish a cross-sourcing productions system



To flexibly respond to customers' needs



To strengthen purchase capacity



To make busines continuity plan (BCP)







Construction of a new research and development center



February 14, 2019

Acquired land in YRP Nobi (Yokosuka City, Kanagawa Prefecture). Expected to be completed in February 2021

- To establish an integrated R&D system
- To develop a machine testing site, to promptly reflect customers' requests





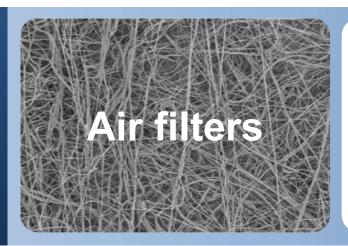
(This shows an illustration of a completed building.)



Air filters

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

1 Major customerA



[Prospect]

• 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

② Major customer
B



[Prospect]

• 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



Others

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

1 Apparel makers



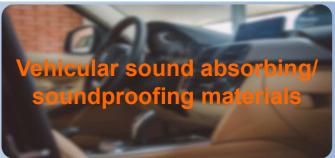
[Prospect]

- Develop thin and light materials (insulating materials to replace down)
- Provide added value to the products currently found in the market

[Status]

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

② Major auto interior parts makers



[Prospect]

 Develop higher performance sound absorbing materials (for lower frequencies) compared to products currently found in the market

(Status)

- Collecting data on sound absorption effects and ascertaining related tendencies
- Trial production of samples to satisfy required specifications
- Considering specific processes and management methods for product development

③ Major building materials makers



[Prospect]

Higher thermal insulation and cooling performance than current products

(Status)

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





Agricultural materials

Use of nanofibers in multilayered thermal insulating materials: Improving thermal insulation Contributing to global warming solutions through CO² emissions reductions resulting from decreased use of fossil fuels

Insulation materials inside vinyl greenhouses

[Current status]

- Samples provided based on specifications
- Assessing match of samples and specifications
- Making arrangements for testing in actual vinyl greenhouses









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.

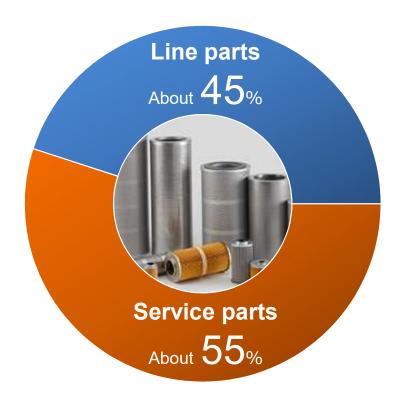


Non-woven filters (for electronic parts)

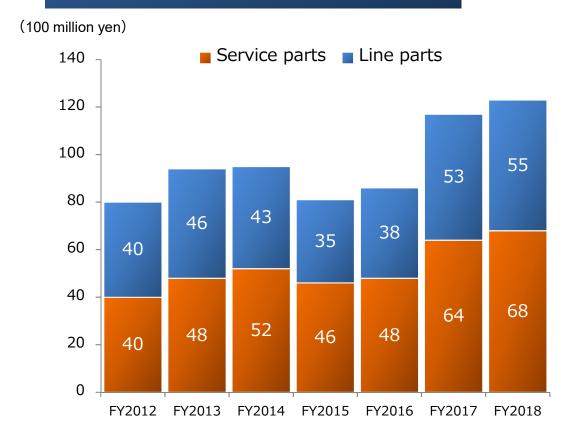


The demand for service parts is expected to expand gradually with increased numbers of construction machines.

FY2018 Sales composition of filters for construction machinery









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

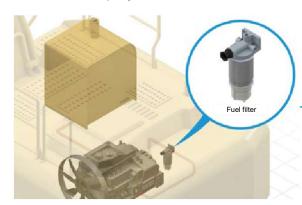


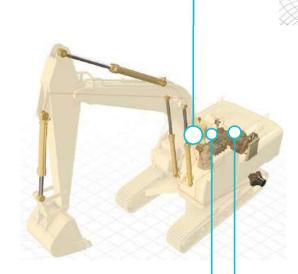
For hydraulic systems

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.

Engine oil filte





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

Business to undergo structural reform

Core business (stable)



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

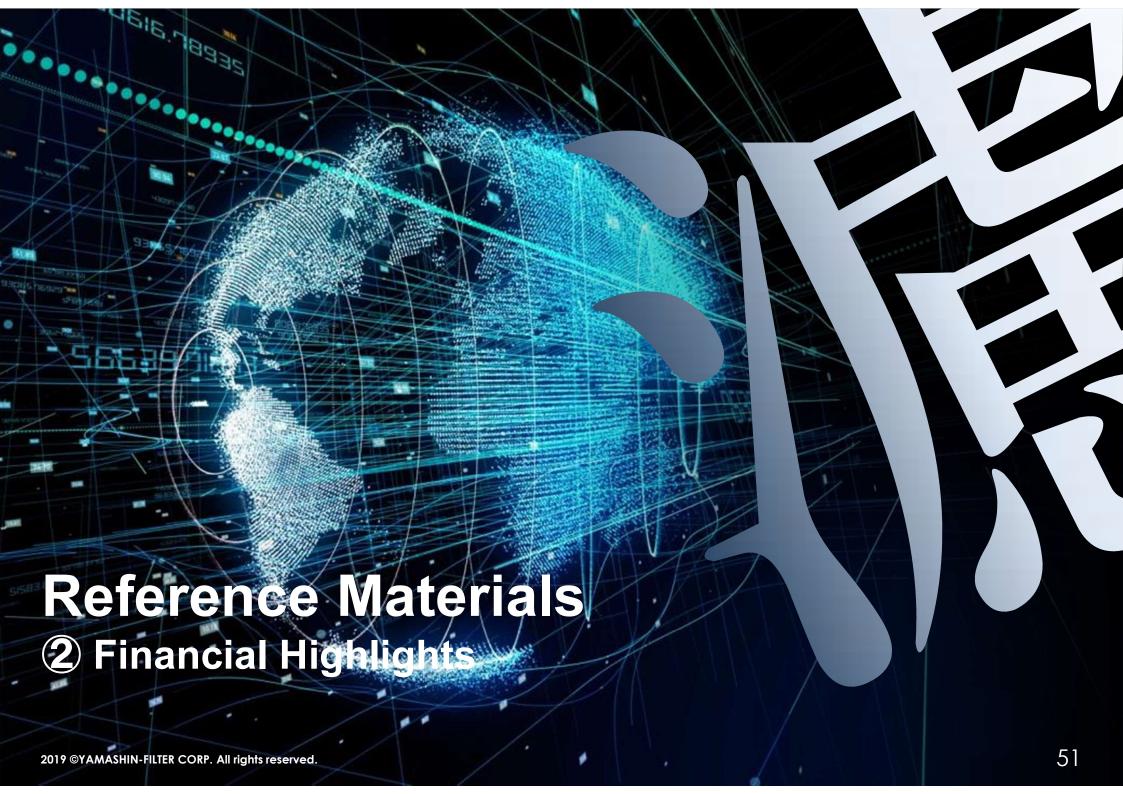
Process/industrial filters

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

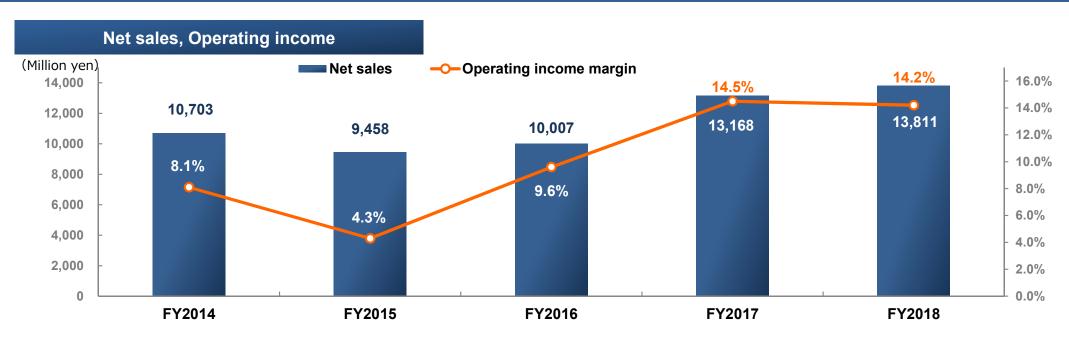
Core business (growth)

Filters for construction machinery....

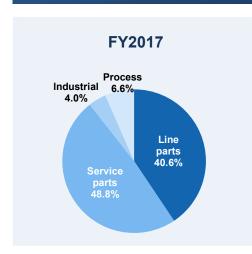
Core business (stable)

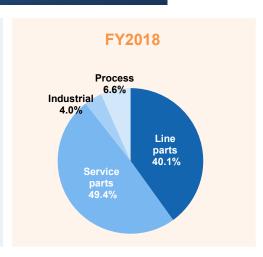












Sales by region

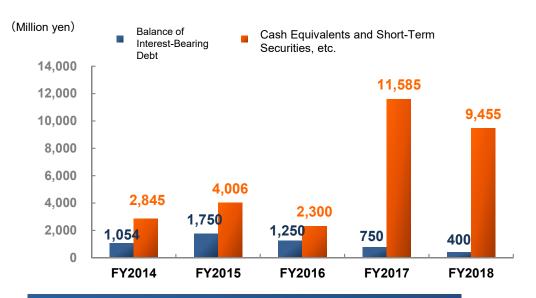




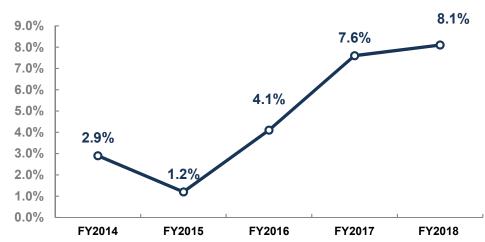




Interest-bearing debt, Cash equivalents, Short-term securities, etc.

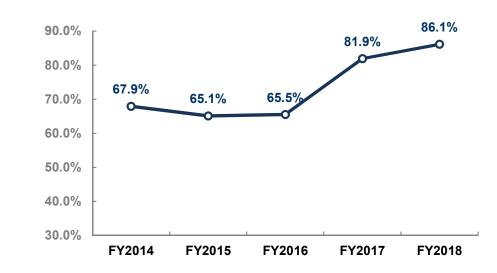


ROE

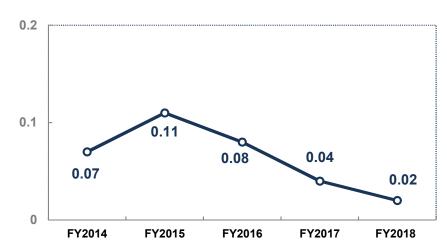


^{*}Calculated based on the assumption that the capital increase through third-party allotment in FY2017 was implemented from the previous fiscal year.

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.

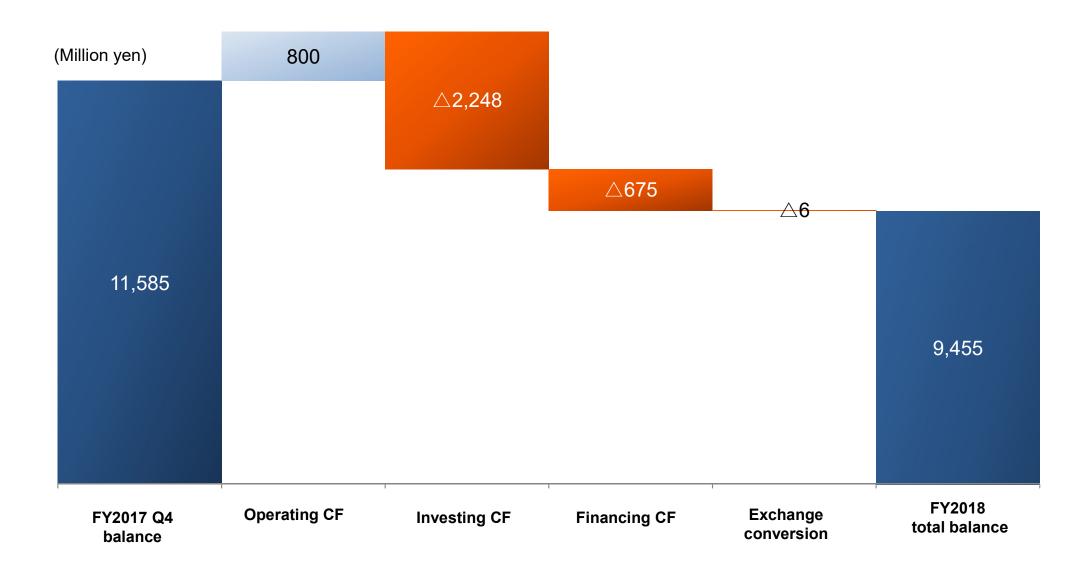
53



Million yen)	End of FY2017	End of FY2018	Change amount	Change in ratio		End of FY2017	End of FY2018	Change amount	Change in ratio
Current assets	16,977	15,391	△ 1,586	△9.3%	Current liabilities	2,969	2,353	△ 615	△20.7%
Cash and deposits	11,619	9,489	△ 2,129	△18.3%	Notes and accounts payable-trade	1,517	1,288	△ 229	△15.1%
Notes and accounts receivable-trade	3,365	3,252	△ 113	△3.4%	Short-term loans payable, Current portion of long- term loans payable and	350	200	△ 150	△42.9%
Merchandise and finished goods, Raw materials and supplies	1,799	2,370	571	31.7%	Other	1,101	865	236	△21.4%
Other	193	278	85	44.0%	Fixed liabilities	797	565	△231	△29.1%
Fixed assets	3,787	5,641	1,853	48.9%	Corporate bonds	400	200	△ 200	△50.0%
Tangible fixed assets	1,653	3,540	1,886	114.1%	Net defined benefits liability	175	190	15	8.7%
Intangible fixed assets	412	346	△ 65	△16.0%	Other	222	175	△47	△21.2%
Investments and other assets	1,721	1,754	33	1.9%	Total net assets	16,999	18,113	1,113	6.6%
Total assets	20,765	21,032	267	1.3%	Total of liabilities and net assets	20,765	21,032	267	1.3%
					* Shareholders' equity ratio	81.9%	86.1%		

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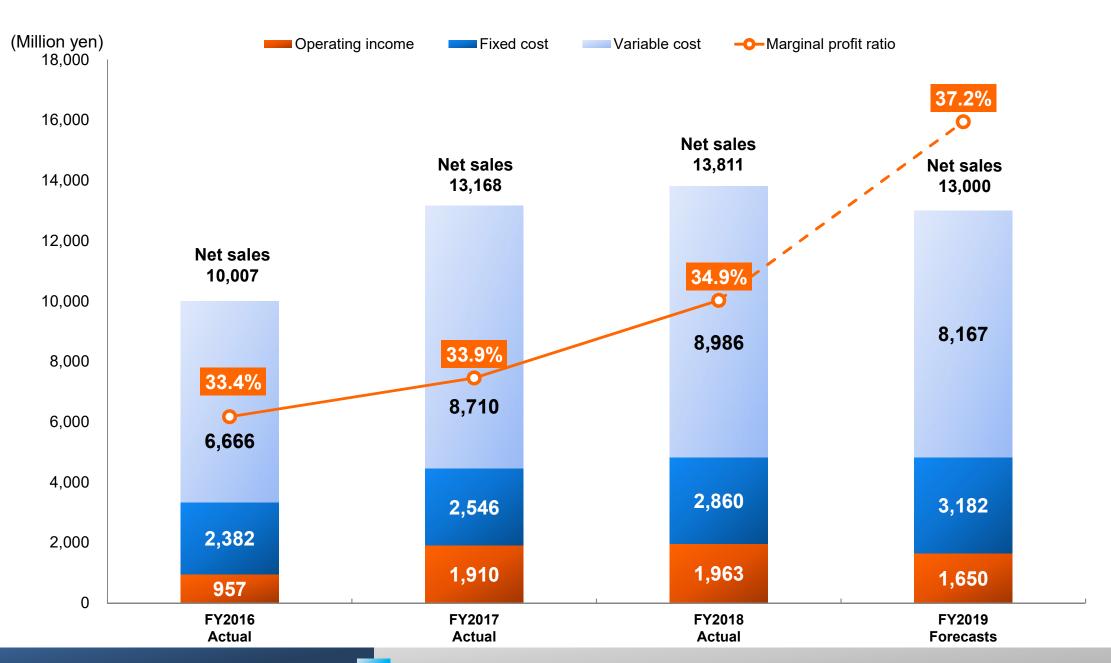




(Million yen)

													\IVII	llion yen)
Currency	Incoming			Outgoing				Average rate	In case of yen appreciation (10%)			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 (YTD)	Average rate during the term +10% (JPY)	Rate difference	Affected amount (YTD)
JPY	¥18,000.0	¥18,000.0	72%	\$16,300.0	¥16,300.0	68%	¥1,700.0	-	-	-	-	-	-	-
USD	\$54.7	¥6,067.3	24%	\$52.1	¥5,778.9	24%	\$2.6	¥110.9	¥99.83	¥-11.09	¥-28.84	¥122.01	¥11.09	¥28.84
EUR	€ 6.2	¥796.2	3%	€ 4.5	¥577.9	2%	€ 1.7	¥128.4	¥115.58	¥-12.8	¥-21.83	¥141.26	¥12.84	¥21.83
PHP	PP0.0	¥0.0	0%	PP593.2	¥1245.7	5%	PP-593.2	¥2.1	¥1.89	¥-0.2	¥124.57	¥2.31	¥0.21	¥-124.57
ТНВ	₿87.20	¥299.1	1%	₿26.10	¥89.5	0%	₿61.10	¥3.4	¥3.09	¥-0.3	¥-20.96	¥3.77	¥0.34	¥20.96
Total	-	¥25,162.6	100%	-	¥23,992.1	100%	-	-	-	-	¥52.94	-	-	¥-52.94







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)

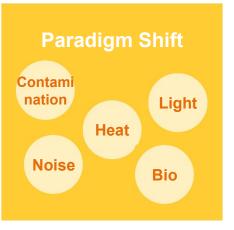
Phase1 FY2018



Phase2 FY2019

Deployment to automotive





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



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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