

First Section of Tokyo Stock Exchange



YAMASHIN Paradigm Shift

Early Sales Recovery in Construction Machinery Business Healthcare Business Addressing Challenges in Penetrating the Expanding Market

YAMASHIN-FILTER CORP. Financial Results for the Third Quarter of the Fiscal Year 2020 (April 2020 to March 2021)

February 4, 2021



The market environment, our actions, and business results for FY2020 Q3

Market Environment

- COVID-19 continues to spread. It remains uncertain when conditions will return entirely to normal.
 The major construction machinery market is currently recovering against this backdrop.
- The demand for construction machinery in Japan, North America, and Europe have recovered, while Southeast Asia is delayed in recovery.
- In China, the world's largest construction machinery market, the growing market share of Chinese
 construction machinery manufacturers and implementation of financial incentives and other
 economic stimulus measures by the government has led to hit a record high worldwide in new
 machinery sales. Chinese manufacturers are expanding their market share. Moving forward, demand
 for new machinery is expected to increase, driven by increased government-led public investment and
 companies preparing for the fourth phase of environmental regulations.
- Even with the resumption of economic activity in various countries, based on forecasts for the second and third waves of the pandemic, we anticipate an opportunity to expand our air filter and healthcare business lines.

Company Actions

Construction machinery filters

 \Rightarrow Contribute to reduced industrial waste (CO2) and global environmental protection

Air filters

⇒ Contribute to reduced industrial waste (CO2) and reduced risk of health hazards

- Full-scale ramp-up of healthcare business
 - ⇒ Contribute both to economic activity and reduced health risks
- Establish other elements of the business portfolio

Promote "YAMASHIN NANO FILTER™"

Details are on page 3.

Business results for
FY2020 Q3

- Consolidated net sales: 10,394 million yen, up 13.2% year on year
 - Sales of filters for construction machinery decreased by 8.9% year on year to 7,742 million yen due to lower sales in the first half despite recoveries in each market
 - Sales of air filters stood firm at 1,957 million yen
 - Healthcare sales as a new business at 694 million yen
- Operating income: Due to COVID-19-related temporary costs for transportation costs, business restructuring, and new mask business marketing, operating income fell to -146 million yen, down 746 million yen year on year



Company Initiatives (details)

• Launch healthcare business and fully enter the Japanese mask market to meet COVID-19-related demand.

• Deliver on ESG while expanding our business portfolio and maximizing profitability

materials.

• With "Contributing to Society through Filtration Activities" as our corporate philosophy, we contribute to the creation of a sustainable society based on the themes of the environment, air, and health

	Expand lineup of high value-added filter products that leverage new materials and IoT technologies Develop filter products with long-life nanofiber filters and aeration and sensor technologies
	Expand the share in the North American market In addition to return filters, our company's flagship products, progress is being made on new proposals for adoption of our filters for fuel and transmissions.
Construction machinery business	Raise rate of adoption by Chinese construction machinery manufacturers and enter service parts (service parts) market We're currently making progress in concluding contracts for the adoption of our products by Chinese construction machinery manufacturers. With government-led public works investments moving forward and the development of new models that comply with fourth-phase environmental regulations, we will seek to further improve adoption rates, increase our aftermarket share, and boost sales volumes.
	Boost sales volumes and profitability by providing high value-added products while helping to reduce industrial waste and environmental impact.
Air Filter Business	 Develop HEPA, ULPA filters Progressing with development of low-cost HEPA and ULPA filters with low pressure drop and high capturing rates Develop nanofiber air filters Develop nanofiber air filters Progressing with development of nanofiber air filters with low pressure loss and high capture rates for office buildings, factories, railroad cars, home appliances and other applications
	Improve profitability by increasing product added-value while also helping to reduce electricity consumption and reduce the risk of health hazards.
Healthcare	 Work to increase shares of general use masks; enter the market for medical use masks Expand sales channels to e-commerce sites and drugstores, and increase market share by introducing products with differentiable features in the general use mask market. Expand market share by expanding product lineup through acquisition of medical certifications (N95, FFP, DS2), contributing to both resumption of economic activities and reduction of health risks.
Establish other elements within the business portfolio: Promote *yamashin	Expansion of market area as apparel & industrial subsidiary materials Enhancing and strengthening the mass production line to produce YAMASHIN NANO FILTER™ for various industrial sub-

NANO FILTER™*



YAMASHIN is striving to achieve reasonable business continuity and improved work-life balance for employees while prioritizing the health and safety of business partners, shareholders, employees and their families with an eye on the post-pandemic world.

Working arrangements: Continuing telecommuting, implementing work style reforms

Employees who show symptoms or have had contact with a confirmed case are prohibited from going to the office and are to follow medical advice. Through this we secure employees' health and safety.

(1) Work system at overseas subsidiaries

Telecommuting is recommended for headquarters (Naka-ku, Yokohama-shi), the Yokohama Development Center (Isogo-ku, Yokohama-shi),

the Yokosuka Media Lab (Yokosuka-shi), and AQC (Osaka-shi and Chuo-ku, Tokyo).

* Guidance for telecommuting changed from mandatory to recommended as of June 1.

(2) Implementation of staggered commuting

To avoid crowded trains, employees' commuting hours are being staggered. Additionally, teams will work in shifts to avoid crowding at offices.

③ Flexible working arrangements at overseas affiliates

Adoption of flexible working following infection prevention measures based arrangements on each government's directions

4) Other

Hand sanitizers are placed at the entrance of every facility of our corporate group in order to ensure thorough disinfection.

On-line meeting should be used for conferences and meetings. Nonessential business trips both domestic and overseas are prohibited.

Production system

 Based on our BCP, production output has been adjusted at each facility (Cebu, Saga, Osaka, and Suzhou*) and an alternate production/supply system has been established.

 Cebu Factory
 Resumed operations, restored mass production

 Saga Factory
 Commenced mass production of filter materials and masks

 Suzhou Factory
 Normal operations

 *manufacturing outsourced
 Relocated headquarters factory, strengthened production capacity, commenced mask production

Impact on business

performance

Countries are seeking ways both to resume economic activity and to prevent the spread of the virus. The outlook remains uncertain; against this backdrop, the construction machinery market is recovering.

Trends in the construction machinery market

expected with increasing government-led public investments.

The production plans of Chinese major clients continue to expand

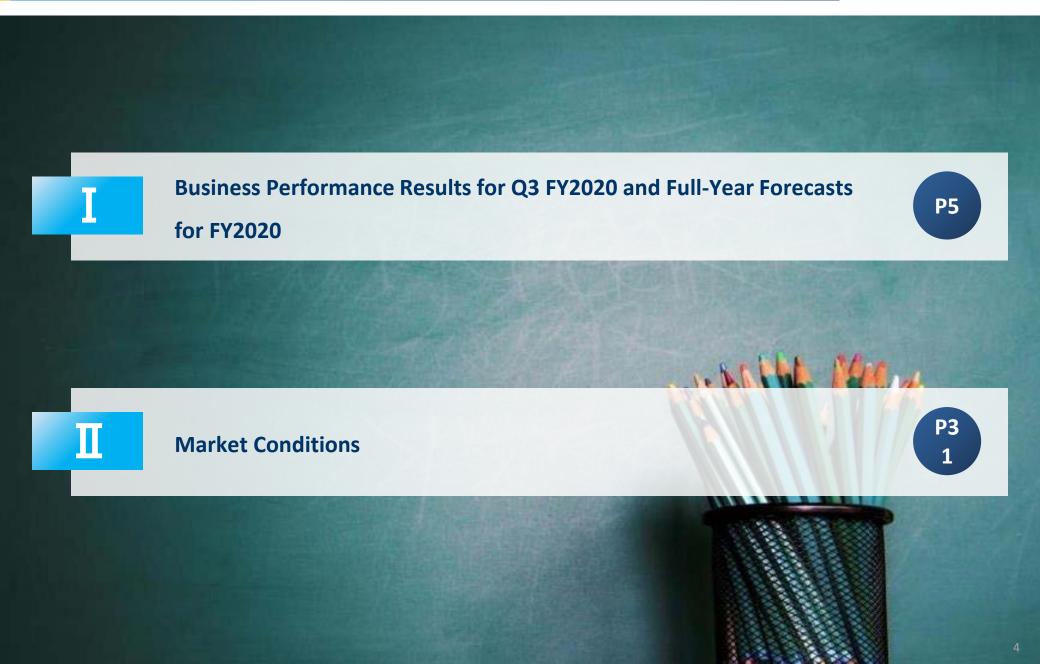
Chinese market

While the outlook remains uncertain, production at major clients is

Japan/US/Europe/ Asia market recovering, with economic activity resuming in stages.

Economic activity is resuming. Further growth in the construction machinery market is





BUSINESS PERFORMANCE RESULTS FOR Q3 FY2020 AND FULL-YEAR FORECASTS FOR FY2020 13



Q3 FY2020 Business Performance (Oct - Dec 2020)

Q3 (2020 Oct-Dec) Business Performance



Unit: million yen

		FY2019 Q3 Actual	FY2020 Q3 Actual	YoY change	
		Amount	Amount	Amount	%
Net sales		3,374	3,831	456	13.5%
Construction n	achinery filters*	2,686	2,853	166	6.2%
Air filters		687	669	△18	△2.6%
Healthcare		0	308	308	-
Operating income		212	△ 96	∆308	△145.5%
Construction n	achinery filters*	409	370	∆38	∆9.4%
Air filters		69	Δ1	∆70	△101.7%
Healthcare		0	∆124	△124	-
Corporate exp	enses*	△ 266	∆341	∆74	28.1%
Operating income margin		6.3%	△ 2.5%	∆8.8 Pt	
Ordinary profit		214	△ 72	△287	△133.9%
Ordinary profit margin		6.4%	△ 1.9%	∆8.2 Pt	
Net income		158	536	378	239.3%
Net income margin		4.7%	14.0%	9.3Pt	
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Exchange rates (ave.)	USD	108.8	106.1	△2.7	△2.5%
	EUR	120.3	122.4	2.1	1.7%

*"Construction machinery filters" here includes industrial filters and process filters in addition to construction machinery filters.

As of Q3 FY2020, the Company has changed how it allocates corporate expenses, with the goal of more accurately representing segment results and corporate expenses. Specifically, the head office's general and administrative expenses and other corporate expenses not attributable to individual business segments are no longer allocated to specific segments.



Unit: million yen

		FY2019 Q3 Actual	FY2020 Q3 Actual	YoY c	hange
		Amount	Amount	Amount	%
Construction machine	y filters	2,336	2,541	205	8.8%
	Line parts	910	1,127	216	23.8%
	Service parts	1,425	1,414	∆10	△0.8%
Industrial filters		115	105	∆9	∆8.4%
Process filters		235	206	∆28	△12.0%
Air filters		687	669	∆18	△2.6%
Healthcare		0	308	308	-
Total sales		3,374	3,831	457	13.6%

Q3 (2020 Oct-Dec) Sales by Region



Unit: million yen

		FY2019 Q3 Actual		FY2020 Actua		YoY change	
		Amount	Ratio (%)	Amount	Ratio (%)	Amount	Ratio (%)
Construction machinery filters*		2,686	79.6%	2,854	74.5%	167	6.2%
	Japan	1,230	36.5%	1,330	34.7%	99	8.1%
	North America	591	17.5%	507	13.2%	∆83	△14.2%
	China	289	8.6%	454	11.9%	164	56.8%
	Other Asian countries	311	9.2%	252	6.6%	∆59	△19.1%
	Europe	261	7.8%	309	8.1%	47	18.0%
	Others (Middle East, etc)	1	0.0%	0	0.0%	0	△13.7%
Aiı	r filters (Japan)	687	20.4%	669	17.5%	△18	△2.6%
He	althcare (Japan)	-	-	308	8.0%	308	-
	Total sales	3,374	100.0%	3,831	100.0%	457	13.6%

* "Construction machinery filters" here includes industrial filters and process filters in addition to construction machinery filters.

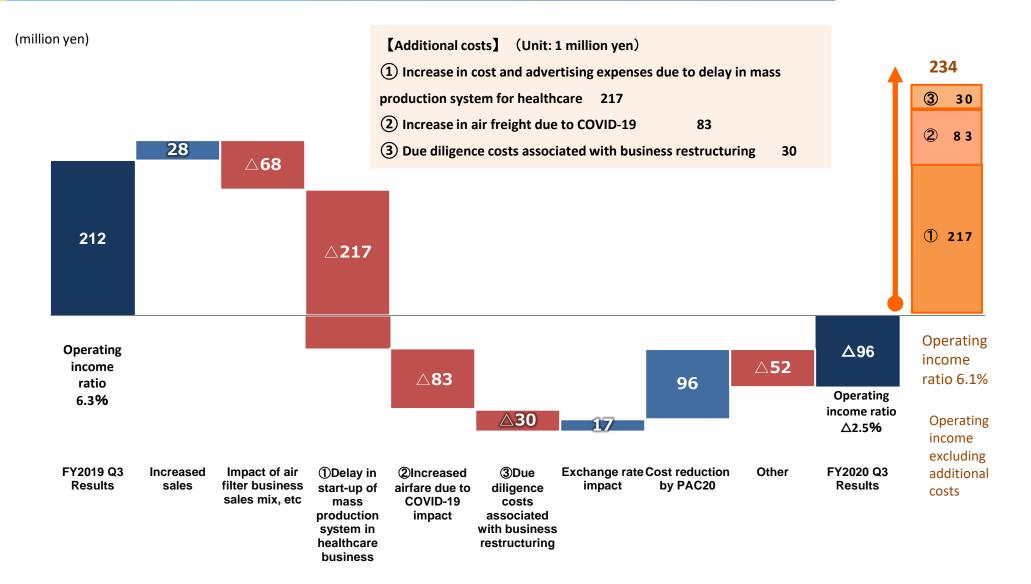
* The amounts of sales by region here are calculated based on the locations of corporations to which invoices are sent. So actual regional market trends may be different from the numbers shown above.



(million yen) ∆**28** riangle308 riangle10 riangle18 216 3,831 + 457 3,374 +13.6% Q3 FY2019 Industrial Air filters Healthcare Line parts Service parts Process Q3 FY2020 Actual Actual **Construction machinery filters**

YoY Comparison of Oct-Dec Operating Income







Q3 FY2020 Business Performance (Apr– Dec 2020)

YTD (2020 Apr–Dec) Business Performance



		FY2019 Q3 Actual	FY2020 Q3 Actual	YoY change	
		Amount	Amount	Amount	%
Net sales		9,186	10,394	1,208	13.2%
Construction n	achinery filters*	8,498	7,742	∆756	△8.9%
Air filters		687	1,957	1,269	184.6%
Healthcare		0	694	694	-
Operating income		600	∆146	∆746	△124.3%
Construction n	achinery filters	1,403	798	∆605	∆43.1%
Air filters		69	37	∆31	∆45.6%
Healthcare		0	△18	△18	-
Corporate exp	enses	△ 872	∆963	∆91	10.4%
Operating income margin		6.5%	∆1.4%	∆7.9 Pt	
Ordinary profit		501	∆133	△635	△126.6%
Ordinary profit margin		5.5%	∆1.3%	∆6.7 Pt	
Net income	Net income		384	39	11.3%
Net income margin		3.8%	3.7%	∆0.1Pt	
Exchange rate (ave.)	USD	108.8	106.1	△2.7	△2.5%
	EUR	120.3	122.4	2.1	1.7%

* "Construction machinery filters" here includes industrial filters and process filters in addition to construction machinery filters.

* As of Q2 FY2021, the Company has changed how it allocates corporate expenses, with the goal of more accurately representing segment results and

corporate expenses. Specifically, the head office's general and administrative expenses and other corporate expenses not attributable to individual business segments are no longer allocated to specific segments.



Unit: million yen

		FY2019 Q3 Actual	FY2020 Q3 Actual	YoY cl	hange
		Amount	Amount	Amount	Ratio (%)
Construction machinery filters		7,429	6,841	△588	∆7.9%
	Line parts	3,124	2,877	∆247	∆7.9%
	Service parts	4,304	3,964	∆340	∆7.9%
Industrial filters		370	342	∆28	∆7.6%
Process filters		699	558	∆141	△20.2%
Air filters		687	1,957	1,270	184.9%
Healthcare		0	694	694	-
Total sales		9,186	10,394	1,208	13.2%

YTD (2020 Apr–Dec) Sales by Region



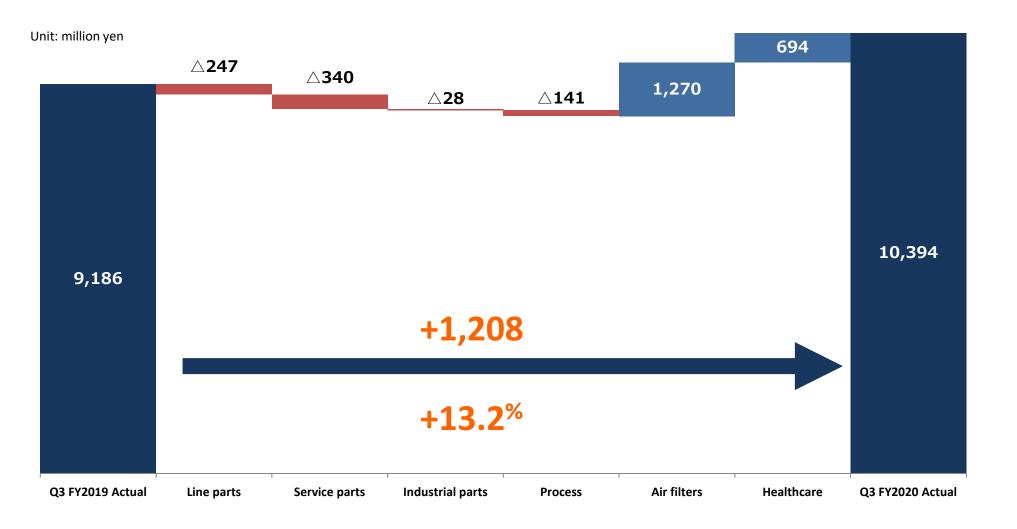
Unit: million yen

			FY2019 Q3FY2020 Q3ActualActual					YoY char	ge
		Amount	Ratio (%)	Amount	Ratio (%)	Amount	Ratio (%)		
Construction machinery filters*		8,498	92.5%	7,742	74.5%	∆756	△8.9%		
	Japan	4,052	44.1%	3,503	33.7%	∆549	△13.5%		
	North America	1,787	19.5%	1,363	13.1%	∆424	△23.7%		
	China	878	9.6%	1,131	10.9%	253	28.8%		
	Other Asian countries	987	10.8%	876	8.4%	∆111	△11.2%		
	Europe	789	8.6%	864	8.3%	75	9.5%		
	Others (Middle East, etc)	3	0.0%	2	0.0%	∆1	∆33.3%		
Ai	r filters (Japan)	687	7.5%	1,957	18.8%	1,270	184.9%		
He	ealthcare (Japan)	-	0.0%	694	6.7%	694	-		
	Total sales	9,186	100.0%	10,394	100.0%	1,208	13.2%		

* "Construction machinery filters" here includes industrial filters and process filters in addition to construction machinery filters.

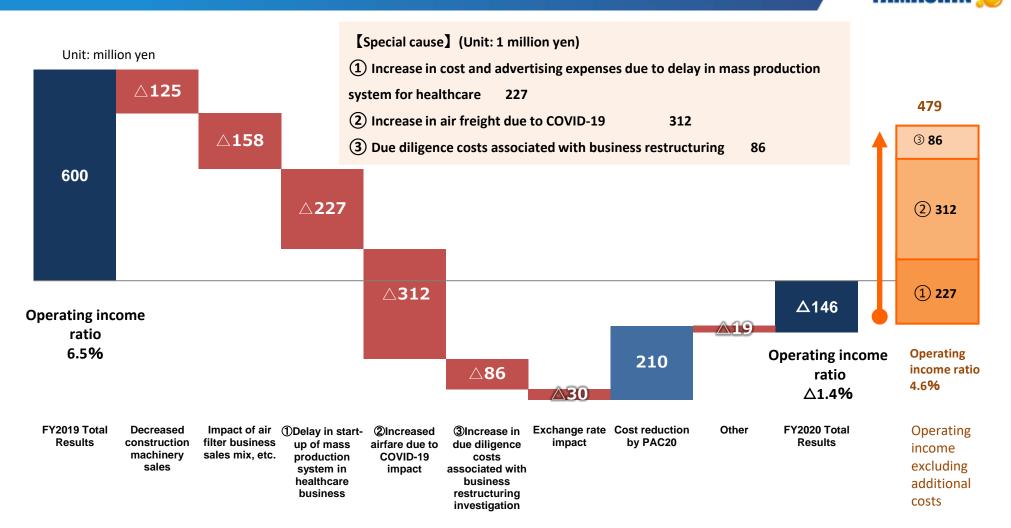
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Construction machinery filters

YoY Comparison of Apr–Dec Operating Income

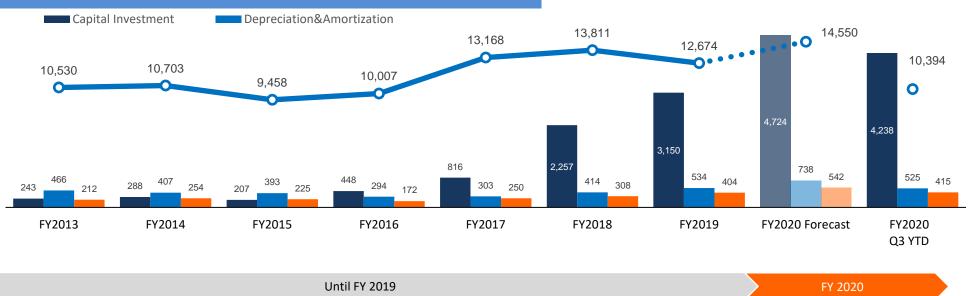


The Specialist in Filtration



	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	3Q FY2020
Unit: million yen	Actual	Forecast	Actual						
Net sales	10,530	10,703	9,458	10,007	13,168	13,811	12,674	14,550	10,394
Capital investment	243	288	207	448	816	2,257	3,150	4,724	4,238
Composition ratio	2.3%	2.7%	2.2%	4.5%	6.2%	16.3%	24.9%	32.5%	40.8%
Depreciation & Amortization	466	407	393	294	303	414	534	738	525
Composition ratio	4.4%	3.8%	4.2%	2.9%	2.3%	3.0%	4.2%	5.1%	5.1%
R&D expenses	212	254	225	172	250	308	404	542	415
Composition ratio	2.0%	2.4%	2.4%	1.7%	1.9%	2.2%	3.2%	3.7%	4.0%

Change in net sales and capital investment and depreciation & amortization



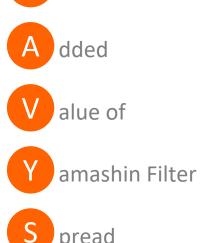
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Target figures are set at each department (administrative and other operation departments) to achieve the overall company target for MAVYS.

What is MAVYS? (ROIC – WACC)

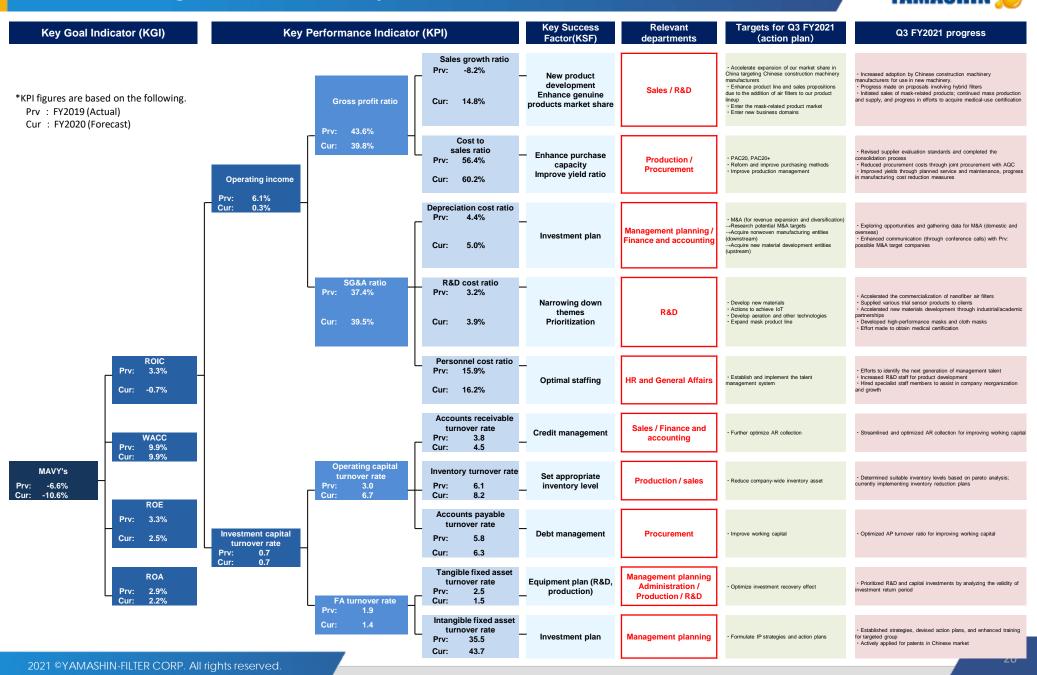
A aximizing



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 of stakeholders by improving MAVYS (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.

MAVYS: The Big Picture and the Department



The Specialist in Filtration



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



By reviewing the supply chain and continuing to improve the manufacturing process, We will implement further cost reductions (PAC20+) to achieve improved profitability

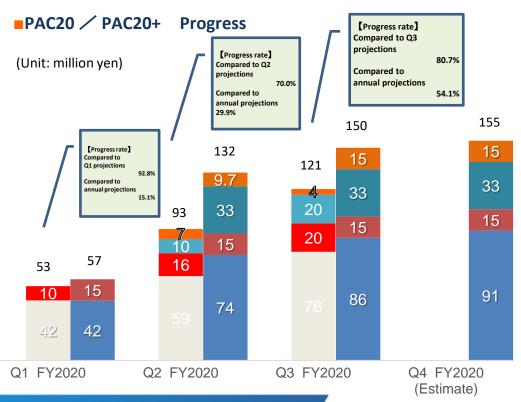
Actual (left)

PAC20(SG&A)

PAC21+((SG&A)

PAC20 (Manufacuring cost)

PAC21+(Manufacuring cost)



Annual Reduction Target

	Unit: million yen	Manufa cturing cost	SG&A	Total
	PAC20	293	61	355
	PAC20+	100	40	140
)	Total	393	101	495
)		393		

Q1-3 total reduction amount and

	progress r	ate		
Projected (right) PAC20(Manufacuring cost)	Unit: million yen	Manufa cturing cost	SG&A	Total
PAC20(SG&A)	PAC20	177	47	225
PAC21+(Manufacuring cost)	PAC20+	31	11	43
PAC21+(SG&A)	Total	209	58	268
	Progress rate	53.2%	57.4%	54.1%



Full-year Forecasts for FY2020

Preconditions for Revised Full-Year Forecasts for FY 2020

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Construction machinery filters (Existing business line)

- Recovery in the supply parts business due to increased operating hours of construction machinery resulting from the resumption of economic activities in various countries, and significant improvement in new vehicle production activities of major customers.
 - This has resulted in a solid recovery in demand for our products. Sales forecasts are expected to increase.
- Earnings forecasts were adjusted due to weak profits resulting from soaring transportation costs caused by the global container shortage and the continued accrual of air freight costs related to material procurement and delivery to customers.

Air filters (Existing business line)

Due to the decrease in demand for filter replacements caused by the decline in the utilization rate of office buildings and the decrease in the number of railroad operations during the COVID-19 pandemic, we expect a decrease in income and profits, and have revised our business forecasts.

Healthcare business (New business line)

• Due to the significant delay in the supply of the world's first three-dimensional nanofiber materials used for masks for supply to the drugstore market, etc. due to the time required to establish a mass production system for the material, and due to not being able to sufficiently reduce the cost, we have revised our business forecasts.

Risk management

- In order to maintain the health and safety of employees, we have adjusted working arrangements to suit each location (through instigating telecommuting and staggered commuting).
- As a BCP, production and supply systems are being decentralized

The Specialist in Filtration

FY2020 Full-year Forecasts



						onit: minori yen
		FY2019 Actual	FY2020 Forecasted Revised Aug4	FY2020 Forecasted Revised Nov4	FY2020 Forecasted Current revision	Difference
		Amount	Amount	Amount	Amount	Amount
Net sales		12,674	15,000	16,000	14,550	∆1,450
Cons filter	struction machinery s*	11,296	10,000	10,000	10,950	950
Air fi	ilters	1,377	3,000	3,000	2,600	∆400
Heal	thcare	-	2,000	3,000	1,000	△2,000
Operating income		777	1,230	1,300	40	△1,260
Cons filter	struction machinery s*	1,894	1,583	1,353	1,310	∆43
Air fi	ilters	122	290	290	50	∆240
Heal	thcare	-	640	910	∆40	∆950
Corp	orate expenses	∆1,240	△1,283	∆1,253	∆1,280	△27
Operating income	margin	6.1%	8.2%	8.1%	0.3%	∆7.8 Pt
Ordinary profi	t	603	1,200	1,280	60	△1,220
Ordinary profit ma	rgin	4.8%	8.0%	8.0%	0.4%	∆7.6 Pt
Net income Net income margin		608	790	1,350	500	△850
		4.8%	5.3%	8.4%	3.4%	∆5.0Pt
Evenando rato (IDV)	USD	108.8	108.0	108.0	108.0	-
Exchange rate (JPY)	EUR	120.83	121.0	121.0	121.0	-

*Construction machinery filters" includes industrial filters and process filters, in addition to construction machinery filters.

In order to identify the business performance and corporate expenses of each segment more accurately, we have switched to a method of not allocating to a specified segment corporate expenses which do not belong to a specific segment of the Company, such as general and administrative expenses of the administrative division of the head office, from the Q2 of FY2020.



Unit: million yen

		FY2019 Actual		FY2020 Forecasted Revised 8/4/2020		FY2020 Forecasted Revised 11/4/2020		FY2020 Forecasted Current revision		Difference	
		Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio
Constructio filters	n machinery	9,866	77.8%	8,673	57.8%	8,673	54.2%	9,704	66.7%	1,031	11.9%
	Line parts	4,129	32.6%	3,665	24.4%	3,665	22.9%	4,197	28.9%	532	14.5%
	Service parts	5,737	45.3%	5,008	33.4%	5,008	31.3%	5,506	37.8%	498	10.0%
Industrial fi	lters	492	3.9%	420	2.8%	420	2.6%	462	3.2%	41	9.8%
Process filte	ers	937	7.4%	905	6.0%	905	5.7%	783	5.4%	∆122	△13.5%
	f existing nesses	11,296	89.1%	10,000	66.7%	10,000	62.5%	10,950	75.3%	950	9.5%
Air filters		1,377	10.9%	3,000	20.0%	3,000	18.8%	2,600	17.9%	∆400	△13.3%
Healthcare		0	0.0%	2,000	13.3%	3,000	18.8%	1,000	6.9%	△2,000	△66.7%
Tota	l sales	12,674	100.0%	15,000	100.0%	16,000	100.0%	14,550	100.0%	∆1,450	∆9.1%

Sales Forecast by Segment (Region)



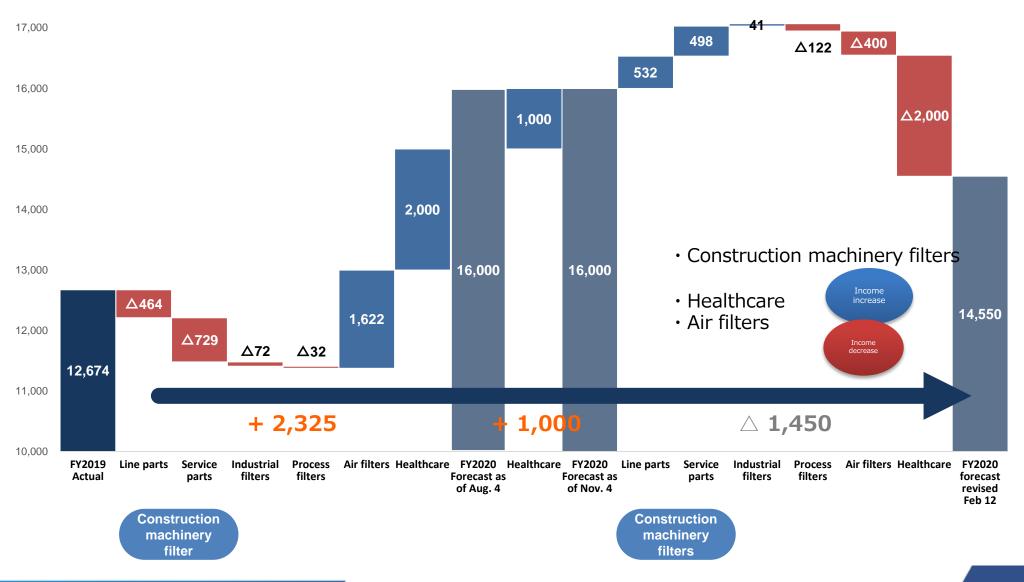
		FY2019 Actual		FY2020 Forecasted Revised 8/4/2020		FY2020 Forecasted Revised 11/4/2020		FY2020 Forecasted Current revision		Difference	
Unit: million yen		Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio	Amount	Composition ratio
Construction machinery filters*		11,296	89.1%	10,000	66.7%	10,000	68.7%	10,950	75.3%	950	9.5%
	Japan	5,420	42.8%	4,587	30.6%	4,587	31.5%	4,860	33.4%	273	6.0%
	North America	2,313	18.3%	2,081	13.9%	2,081	14.3%	2,112	14.5%	31	1.5%
	China	1,173	9.3%	1,212	8.1%	1,212	8.3%	1,576	10.8%	364	30.1%
	Other Asian countries	1,319	10.4%	1,250	8.3%	1,250	8.6%	1,257	8.6%	7	0.6%
	Europe	1,065	8.4%	845	5.6%	845	5.8%	1,139	7.8%	294	34.8%
	Others (Middle East, etc.)	4	0.0%	23	0.2%	23	0.2%	2	0.0%	∆21	∆91.2%
Air filters (Japan)		1,377	10.9%	3,000	20.0%	3,000	20.6%	2,600	17.9%	∆400	△13.3%
Healthcare (Japan)		0	0.0%	2,000	13.3%	3,000	20.6%	1,000	6.9%	△2,000	△66.7%
	Total sales*	12,674	100.0%	15,000	100.0%	16,000	110.0%	14,550	100.0%	∆1,450	∆9.1%

* "Construction machinery filters" includes industrial filters and process filters, in addition to construction machinery filters.

* 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 above.

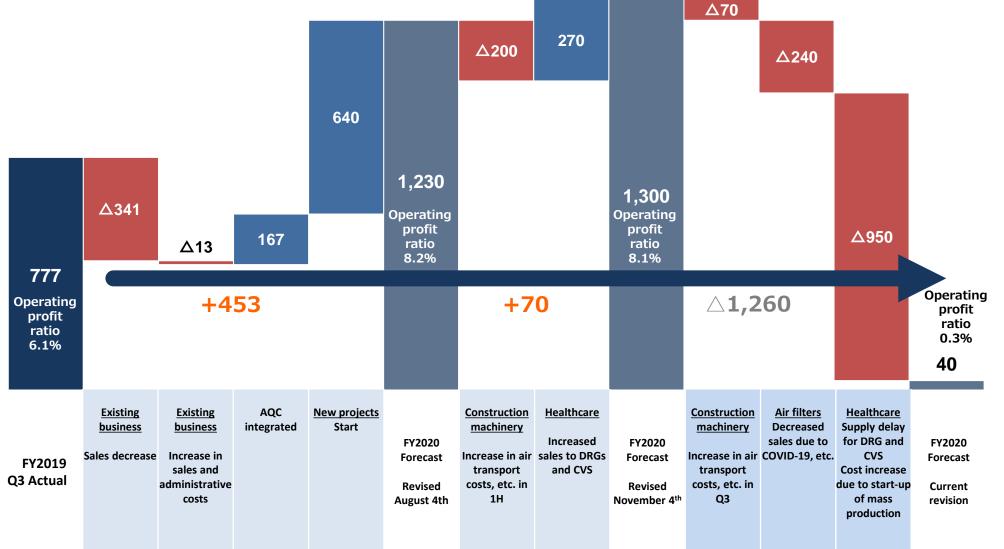
FY2021 Forecasts : Changes in Sales

(Unit: million yen)



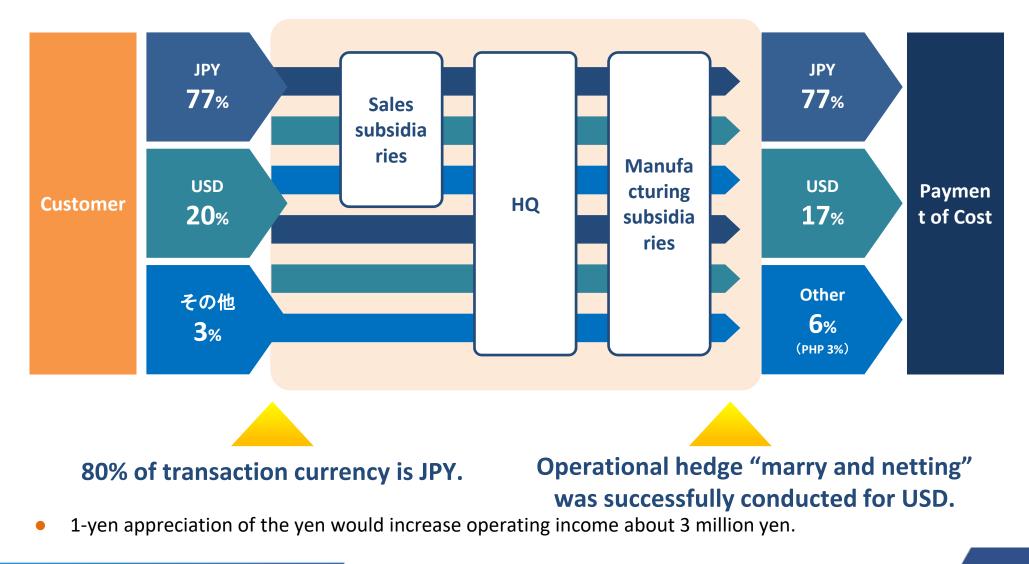


(Unit: million yen)





Operational hedge "marry and netting" was successfully conducted.





The annual dividend, including the interim dividend of 3.0 yen and the year-end dividend of 3.0 yen, will remain unchanged at 6.0 yen per share.

	FY2017	FY2018	FY2019	FY2020 Forecast
Dividend per share	3.6 yen*1	6.0 yen	6.0 yen	6.0 yen
DOE ^{*2}	1.9%	2.4%	2.3%	2.2%
Total return ratio ^{*3}	21.6%	31.9%	72.3%	93.6%

*1. The Company conducted a 5-for-1 stock split that became effective on December 1, 2017, and the

dividend for FY2017 is calculated based on the stock split.

*2. DOE (Dividend on equity) = (Annual dividend \div Shareholders' equity) × 100 = (ROE × Dividend payout

ratio)

*3 Total return ratio = (Total dividend + Treasury stock acquired + Shareholder benefit) ÷ Net income

MARKET CONDITIONS

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Conditions in the Construction Machinery Market

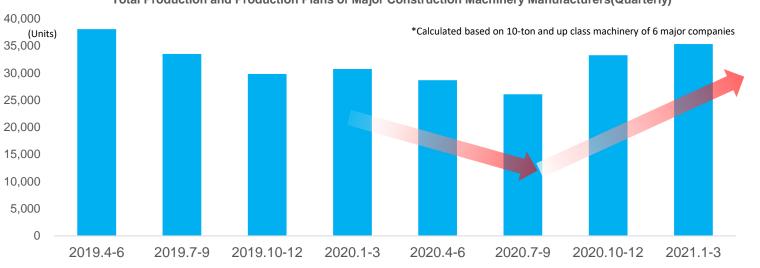
Overview of the External Conditions in the Construction Market



- Indications emerged in Q3 FY2020 of the resumption of economic activity in various countries after stagnating due to COVID-19. However, construction machinery demand decreased in the Japan/US/Europe/Asia market; the outlook remains unclear. Demand is expected to recover as economic activity resumes.
- In the Chinese market, the world's largest construction machinery market, demand for construction machinery is expected to increase due to plans for large-scale public works investment led by the government.

	Q2 FY2020	Q3 FY2020	Future forecasts
China	Implementation of large-scale government -led public works investment promotions Significant increases in new machinery sales year on year	Significant increase in demand for new vehicles due to the effects of government-led investment and consumption stimulus measures aimed at increasing industry subsidies	Demand is expected to increase due to an increase in public works projects to expand domestic demand and rush demand for Tier 4 compliance scheduled for FY2022 and beyond.
Southeast Asia	Anti-government protests and stagnant economic activity have reduced demand for construction machinery	Uncertainty about the future remains and the market is bearish.	Outlook remains uncertain due to sluggish demand for resources and other factors, and is expected to remain bearish.
North America	Economic activity is gradually resuming, and demand for construction machinery is recovering	Production activity, which had been stagnant, is recovering to the same level as the previous year, although the effects of the third COVID-19 wave linger.	Demand recovery is expected.
Japan	Economic activity is gradually resuming, and demand for construction machinery is recovering	Demand for construction machinery is recovering although the effects of the third COVID-19 wave linger.	Demand recovery is expected.
Europe	Economic activity has resumed, and demand for construction equipment is also recovering and there are concerns that the second wave of COVID-19 will cause another lockdown	Production activity, which had been stagnant, is recovering to the same level as the previous year, although the effects of the third COVID-19 wave linger.	Demand recovery is expected.



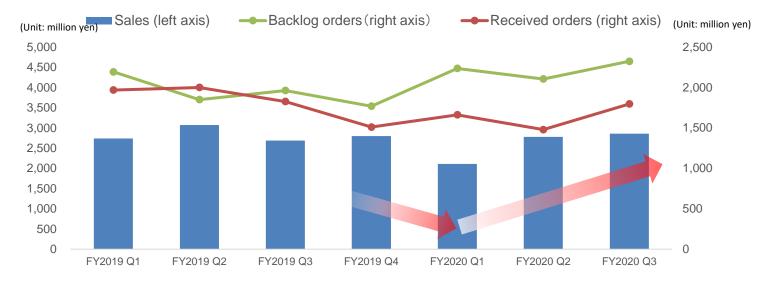


Total Production and Production Plans of Major Construction Machinery Manufacturers(Quarterly)

plan to boost production after hitting bottom in the July-September quarter.

Manufacturers of construction machinery

YAMASHIN Construction Machinery Filter Sales and Confirmed Orders (Quarterly)



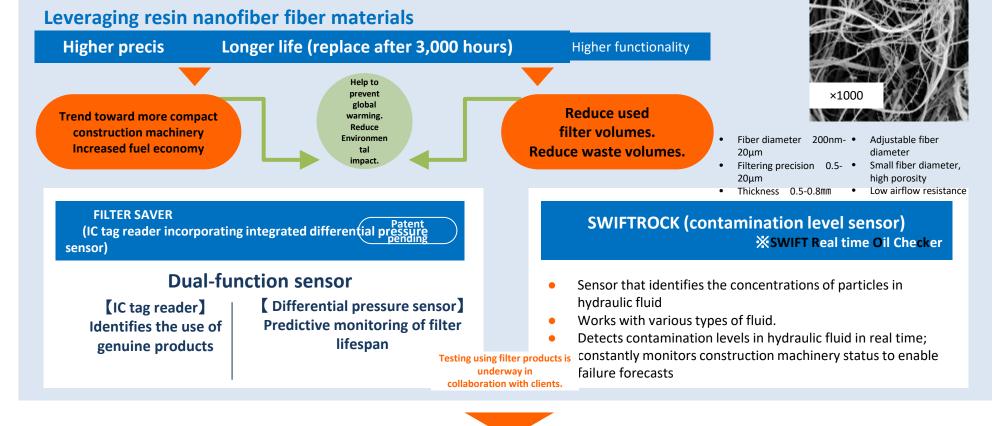
Recovering production at major customers ↓ Expected demand recovery for YAMASHIN products

Help cut costs for construction machinery manufacturers and users.

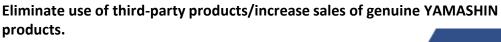
Position high value-added filter products (long-life, IoT) as strategic products; expand product lineup; pursue sales activities

Develop proprietary filter materials to target demand created by construction machinery

upgrades and provide optimal filter performance.



level of practical application in the next few years





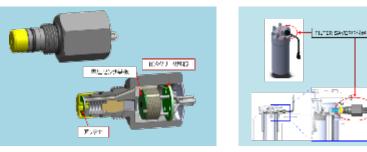
Increasing market share to the

Resin nanofiber filter



FILTER SAVER™

(IC tag reader incorporating integrated differential pressure sensor)



Integrated sensors and real-time monitoring reduces user burdens, boosts satisfaction.

Overwhelming assurance

- Makes the most of machine asset value.
- Reduces risk of machine failure.
- Cuts costs by switching from scheduled periodic replacement to replacement as needed

Making filter status clearly visible makes distributor activities more efficient.

Distributor Benefits

Increases

efficiency

of sale rep

activities.

User

Benefits

Increased efficiency Improved cost-effectiveness

- Improves grasp of order planning requirements.
- Ensures users are supplied genuine parts
- Increases efficiency of sale rep activities.

Integrated sensors meet a wide range of needs, from user service improvements to parts management.

Higher quality

- Monitors status in real time.
- Improves precision of distributor activity management.
- Monitors for use of unauthorized third-party products.

SWIFTROCKTM (contamination level sensor)





Standard

Light

Contamination monitoring specifically targets solid particles like wear debris, the most common cause of failure in hydraulic lubricators, while disregarding air bubbles in the lubricant. As a strong partner in the age of IoT, SWIFTROCK Light detects abnormal wear debris and where it originates to maintain reliable operations and productivity.

Six Strengths					
01 Reduce initial costs	02 Countermeasure to air bubbles	03 Accommodates flow leve fluctuations			
04 High pressure resistance	05 Heat resistant	06 Constant real-time monitoring			

Construction Machinery Market (North America)

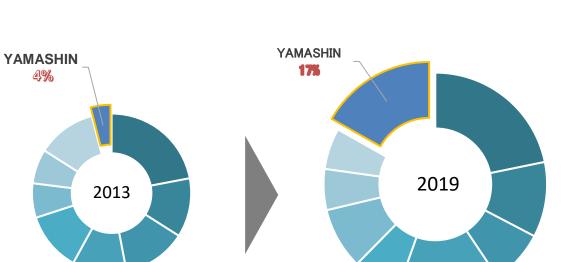


U.S. Economic Indicators	2018 Avg.	2019 Avg.	JAN. 2020	JAN. 2021	CHANGE 1 YEAR
PMI (Purchasing Managers' Index)	56.30	56.10	47.80	60.70	+26%
Housing Starts (Number of residences starting construction in the US)	1.22 Million	1.18	1. 37 Million	1.54 Million	+12%
Met + Mat Index Metals and Minerals Price Index	75.39	88.57	76.22	90.28	+18%

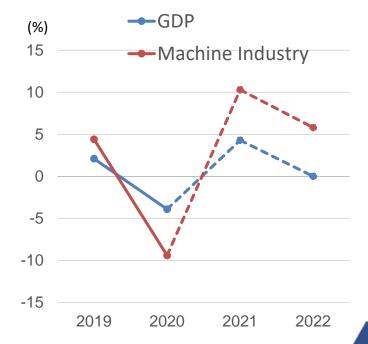
Expanding our share of the world's largest

construction equipment manufacturers

Company A	Company B	Company C	Company D	Company E
Company F	Company G	Others	VAMASHIN	



NORTH AMERICA CONSTRUCTION MACHINERY DEMAND

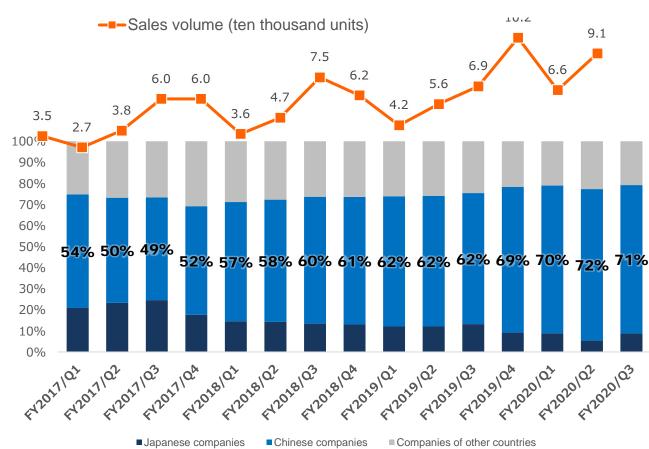


Construction Machinery Market (China)



- Strong demand for construction machinery in China continued due to the support of large-scale public investment
- Continuing market share growth of Chinese construction machinery manufacturers: more than 70%
- Expected further growth in new machinery demand due to Tier 4 environmental regulations

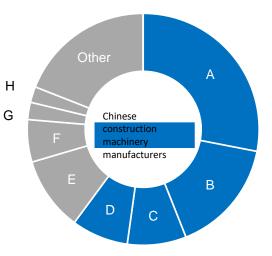
Sales volume and share in Chinese market (Quarterly trends)



Focusing on proposals to Chinese construction machinery manufacturers Working to rapidly increase our market share

Share of Major Construction Machinery Manufacturers in Chinese Market

(2020 End of December)





Tier4

Environmental

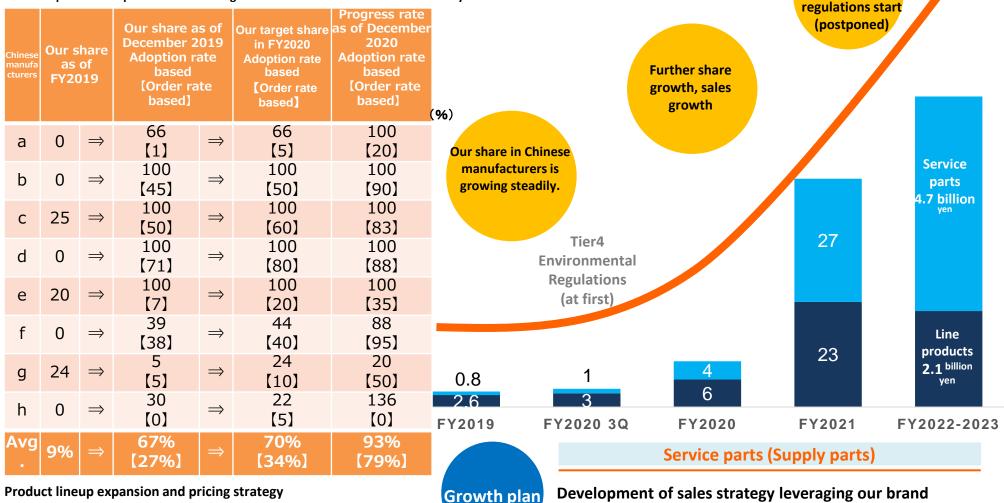
• Direct transactions with distribution agents after expiration of

construction machinery manufacturers' warranty period

Plan to Increase Our Market Share in Chinese Construction Machinery Manufacturers: Line parts Market (Filters for New Construction Machinery)

Strengthen initiatives to increase adoption ratio of our filters for new construction machinery.

- Conduct sales activities with high value-added products positioned as strategic products.
- Cooperate with partners with strengths in the area of construction machinery.



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- Supply of high value-added products (long life, IoT)
- Development of pricing strategy to expand sales of existing products

an to Increase Our Market Share in Chinese Construction Machinery Manufacturers: Service Parts Market (Replacement Filters)

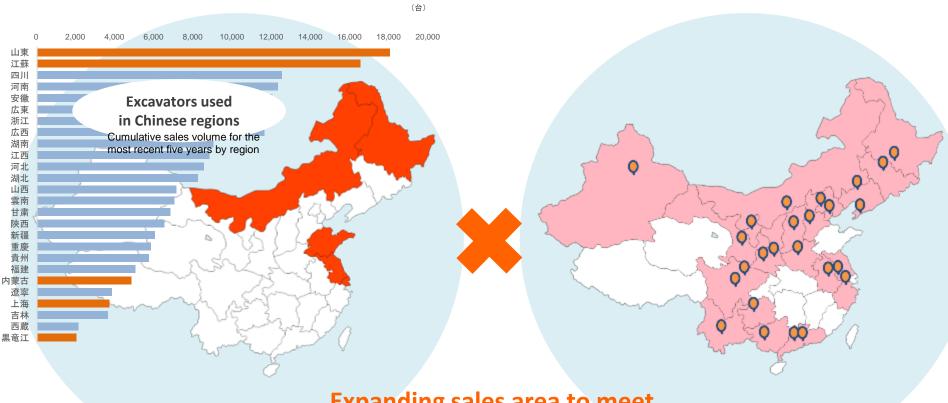


Development of distributor channel

Partners that cover regions with extensive excavator ownership are selected as partners

Development of parts trading company channel

A Chinese parts trading companies with networks of 25 distributors selected as partners



Expanding sales area to meet growing demand for supplies.



Conditions in the Mask Market



Business Conditions

- Consistent growth in mask demand due to COVID-19
- As there is no prospects for containing the virus in the immediate future, we now have the opportunity to expand business in the air filter and healthcare fields.

Mask market trends for general-use non-woven masks

Sales amount increased more than tenfold. Sales volume increased by about 400%

(100 million yen) 25,000 600,000 500,000 20,000 400,000 15,000 300,000 10,000 200,000 5,000 100,000 0 Ο 2019 2020 (Estimate) 2021(Forecast) Source : Fuji Keizai Sep 2020

YAMASHIN's Initiatives This Tperm

Commercialized mask using synthetic polymer Nanofiber non-woven material, YAMASHIN NANO FILTER™

- Launched online sales of high performance YAMASHIN masks and mask inner sheets
- Zexeed, a mask for general consumers with the same functionality as those for medical use, started being supplied to drugstores and e-commerce sites.
- Ultimate YAMASHIN Filter Mask series won the Nikkei Business Daily Award in the 2020 Nikkei Superior Products and Services Awards for Excellence.

Future Targets and Tactics

Our target :

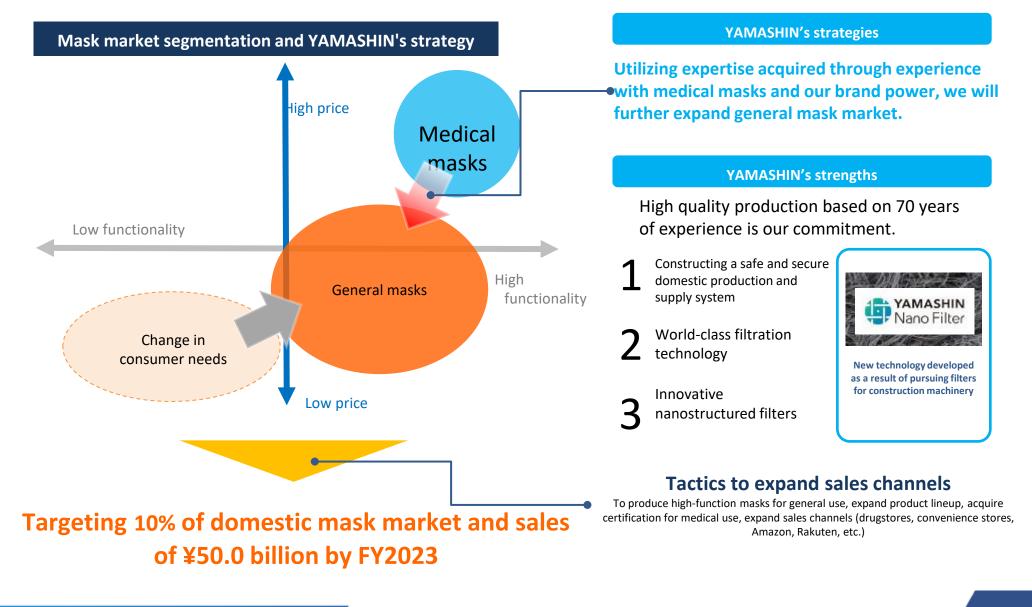
Domestic mask market: Approx. 10% (sales: 50 billion yen) Medium-term (FY2023) targets :

Top share of domestic high-performance mask market Entry into the medical dust mask market Tactics :

• Expanding the lineup and sales channels of high-function general-use masks (supplying to drug stores and major e-commerce sites, etc.)

Acquiring of medical certification (scheduled for 2021)



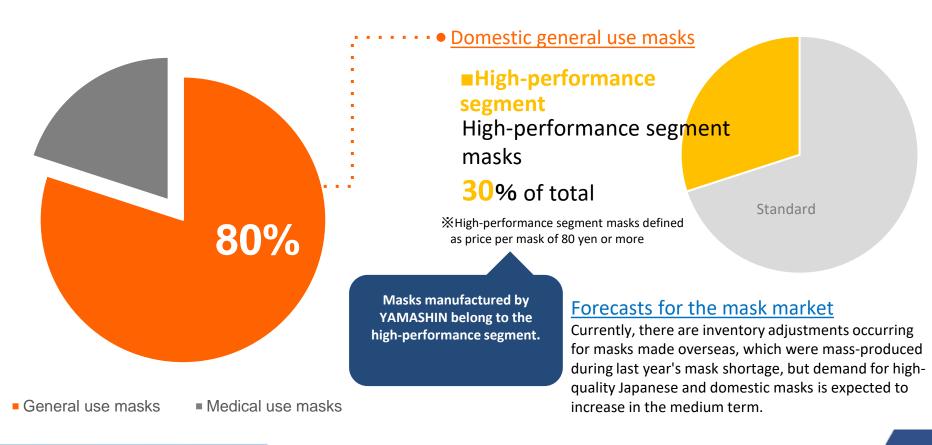


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Emergence of new growth market due to changing consumer needs: high-performance masks for general use

Breakdown of Japanese mask market





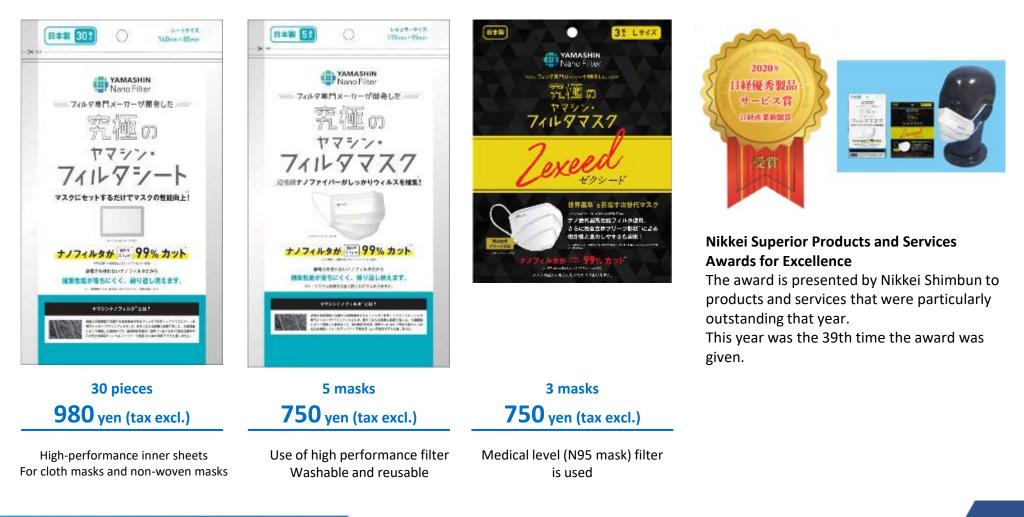
Expansion of sales channels for the standard model of the Ultimate YAMASHIN Filter Mask Series Promoting production efficiency of the flagship model Zexeed

Zexeed

YAMASHIN's strategies Production Sales With the aim of acquiring certification for high system system performance masks required in medical and VANASAS ALCONTRACTOR DUCK Expanding the network to other settings, we will strengthen our brand 行进队 印 drugstores and convenience ヤマシン・ Enhancing and power by providing the market with general use 127777 stores in cooperation with strengthening of イバーガレッカリウィルス主要的 vendors masks that boast the same high filtration production line +17+19# 199% Ash performance as that of medical grade masks. BELLEVICE AND ADDRESS OF THE PARTY OF THE PARTY. Ultimate YAMASHIN Goal: to be completed by the end of Goal: to be completed by the end of Filter Mask this fiscal year this fiscal year Differentiation from other general use masks (1) Filter performance comparable to that of medical In addition to the use masks general supply network, Equivalent to or better than N95 standard **Revision of production** we will strengthen our (2) Small leakage amount (excellent fit and sealing), lines and promotion of Equivalent to N95 standard products' presence on (3) Ease of breathing and comfort efficiency improvement e-commerce sites.



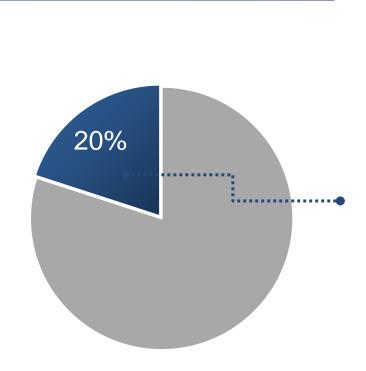
Ultimate YAMASHIN Filter Mask series won the Nikkei Business Daily Award in the 2020 Nikkei Superior Products and Services Awards for Excellence



Breakdown of Japanese mask market



With its high airtightness and ease of breathing even when worn for long periods of time, it is scheduled to receive DS2 certification this fiscal year.



Masks for general consumers
Medical use dust masks

[Release of medical use mask (MEDICALEAD-6240)]

Leveraging proprietary technologies and distinctive shape to achieve market differentiation, this mask meets the high performance standards of medical professionals and demanding applications; scheduled to acquire certification in January 2021 (certifications in Japan, U.S., and Europe*).

(1) High filter performance (equivalent to N95)
 (2) Secure fit and sealing (Leakage amount to equivalent to N95)
 (3) Ease of breathing
 Dominant differentiation in all three

Overwhelming differentiation



*National testing standard in Japan (DS), NIOSH standard in US (N95), EN standard in Europe (FFP)

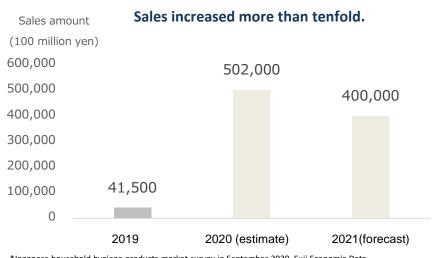
[New contracts with partners for medical distribution]

The shape of the mask is differentiated utilizing our unique technology, and we plan to obtain certification for even higher performance masks required in medical settings, etc. (certification in Japan, the U.S., and Europe*)

Reference Material (Mask Market Data)

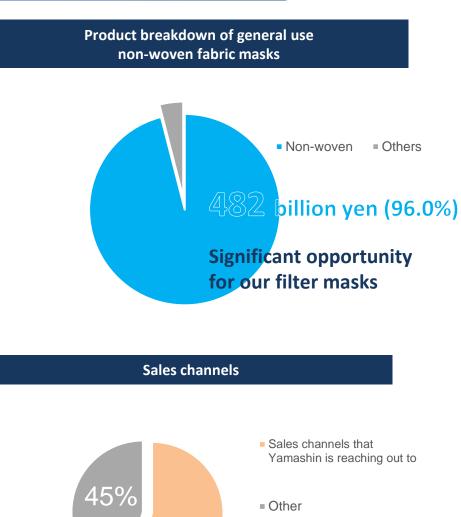


Market size for general use non-woven fabric masks



*Japanese household hygiene products market survey in September 2020, Fuji Economic Data

Competing general use non-woven fabric masks



280 billion yen

(55.8%)

Most of the products are inexpensive, low-quality products from overseas, giving us a significant opportunity to enter the market.

Overseas inexpensive

Other

and low quality masks



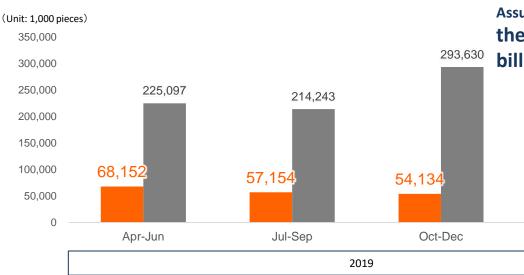
EC: 95.3 billion yen (19%)

CVS: 35 billion yen (7%)

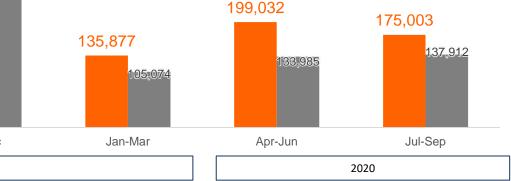


※Japan Hygiene Products Industry

Production volume of medical masks (domestic and imported)



Estimated production of 1.5 billion medical masks: Assuming 100 yen per mask, the market size is estimated to be 150 billion yen.



FY2020 First Half Actual

 Compared to the sharp growth of general masks, medical masks have only grown by about 10% since last year.

• This area has always had a high import rate, but the COVID-19 pandemic caused a major delay in imports.

• The number of domestically produced masks increased, but this was offset by a decrease in imports, resulting in an overall increase of about 10%.

 Masks were also in short supply, and it was only in the September-December 2020 period that demand began to be met.

FY2020 Second Half Forecasts

 We expect 400-500 million masks for the October-December and January-March periods, and around 1.15 billion units for the full year.

• We expect a slight increase from last year's results of 1.15 billion masks.

 As masks made in China do not have a good reputation in medical settings, the ratio of masks made overseas will not return to the previous level, and the shift to domestic production is expected to continue.

 Among medical masks, domestic demand for N95 grade infection control masks is about 15 million masks per month.

FY2021 Forecasts

• At present, the price of medical masks is beginning to fall, and supply is being met to some extent.

- Capital investment by manufacturers to increase production will peak out in FY2021.
- Depending on how much the situation with COVID-19 settles down, we expect the same level of performance in FY2021 as in the second half of 2020.

REFERENCE MATERIALS 1 YAMASHIN'S INITIATIVES

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We aim to create the demand for our products, by developing environmentally friendly products using our proprietary technologies including the nano material

To increase our share in the construction machinery market

Decrease machinery failures and lengthen the lifespans of construction machinery by adding values to our products

Reduction in environmental impact

Useful life increases 3 times

Hybrid filter Glass fiber × nanofiber



Failure prediction with IoT

Cleanliness level sensor

- Measurement of oil and water cleanliness levels
- Low costs
- Compact design

Lifespan sensor

To monitor how much filters are clogged in a stepwise manner

In the Chinese market, we will acquire new clients by providing solutions to address environmental issues

To help reduce CO2 emissions with high-quality filters

To further meet the demand for new machinery in preparation for the Tier 4 environmental regulations





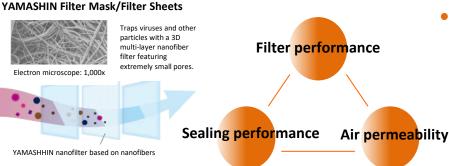
Began manufacturing and sales of high performance medical-grade masks, the development of which could only be achieved by YAMASHIN as a comprehensive filter manufacturer.

Three Features of YAMASHIN Masks

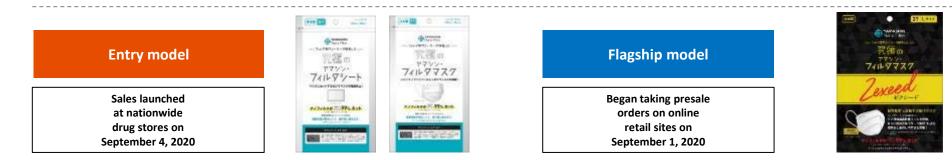
Filtration theory applied for new YAMASHIN mask standard



- 2. Minor decline in performance, even with long-term use
- 3. Development of safe and secure domestic production and supply system



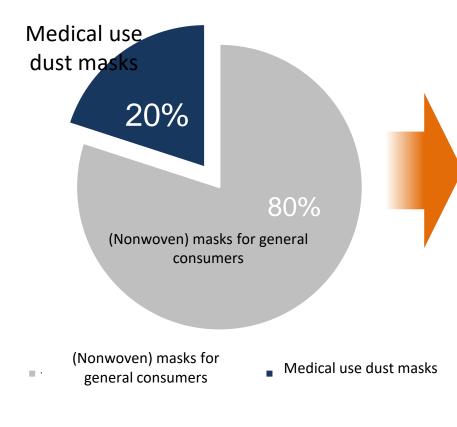
 Zexeed next-generation mask with premium performance released to address three factors: high filter performance, excellent fit and sealing, and high air permeability (ease of breathing)







Plans to acquire certification for medical use dust mask. Will work to increase shares in this segment and continue development.



Development policy going forward: Expand lineup

Further plans to acquire certification for high performance masks needed at medical facilities, etc. (certifications in Japan, US, and Europe*) In the market for general consumers, we will differentiate our products by utilizing proprietary technologies and unique pleated mask shapes as we continue to develop higher performance masks.

High filter performance (Highest N95 standard value)
 Excellent fit and sealing (Reduced leakage of less than 1 %)
 Ease of breathing

In these aspects, achieve overwhelming differentiation surpassing competitors.

*National testing standard in Japan (DS), NIOSH standard in US (N95), EN standard in Europe (FFP)

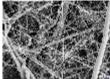
Nano fiber filter by Electrospinning method



Characteristics: Very thin, planer, uniform fibers

* Captured with electron nicroscope (2,000x)

YAMASHIN NANO FILTER



YAMASHIN's proprietary patented technology Characteristics: 3D, multi-layer fiber mix





To help prevent atmospheric pollution by entering and growing the air filter business and using our filtration technologies to reduce emissions and gases.

Business environment

There is a risk of worsening atmospheric pollution, caused by the economic growth in emerging countries.

The air filter market is expected to keep growing.

Contributions we can make

As a manufacturer specializing in filters, we help to reduce health hazards by supplying highly functional air filters.

We could help to curtail maintenance costs by extending the life-span of each product.







Pursuing equity finance sustainability project to help solve environmental and societal problems

Procured ¥11.0 billion through equity financing to facilitate both sustained, medium-term business growth, and active ESG initiatives

Impacts of Sustainability Project

Product outputs	Outcomes		Impact		
Purchasing electricity from renewable energy	Ê.				Impact indicator (annual)
or chasing electricity from renewable energy	+	Yamashin	Increased share of renewable energy in electric power	Renewable energy	632 tCO2
Introducing solar power systems	-				
	[*	Users (construction machinery)	Reduced waste from longer life hydraulic filters for construction machinery	Pollution prevention and contro	4,000 tons
Augmentation of production facilities for nanofibers	-+	Manufacturers (apparel, bedding)	Reduced use of natural down through use of synthetic down	Protecting land and sea life diversity	23 tons
	Ļ	Users (agriculture)	Reduced fuel consumption through high-insulation agricultural sheets	Energy efficiency	24,440 tCO2
Introducing recycling facilities for nanofibers		Users (e.g., construction machinery)	Reduced waste from various filters	Pollution prevention and control	(Qualitative assessments)
Augmentation of manufacturing machinery for masks for general consumers	-+	Users (general consumers)	Increased production of masks for general consumers	Access to necessary services to the extent possible	230 million masks
Augmentation of manufacturing machinery for medical use masks	-	Users (medical professionals)	Increased production of masks for medical use	Access to necessary services to the extent possible	(Qualitative assessments)
R&D on YAMASHIN NANO FILTER™ technology	ľ	Users (general consumers)	Spread and expansion of fuel cells for separator development	Clean transport	(Qualitative assessments)
	٦,	Manufacturers and users	Achieving even higher performance for nanofibers (finer, added features)	Broad social/environmental implications	

Source: Compiled by The Japan Research Institute: *Second Party Opinion* URL : http://www.Yamashin-filter.co.jp/ja/news/news_20200908_001/main/00/link/SecondPartyOpinion.pdf

Second-party opinion on selection grounds

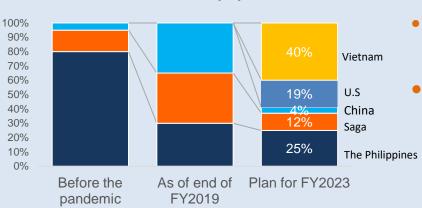
- Continuing contribution to the environmental compatibility, etc. of construction machinery through provision of filters to construction machinery based on development of technology and materials
- Led the way in conducting work style reforms like zero overtime for all employees

Points of improvement/focus going forward

 Promotion of ESG initiatives on the value chain, including promotion of CSR procurement, and disclosure of ESG information



Impact on production structure



Change in the production volumes by location for construction machinery hydraulic filters

- The lockdown affected the production in the Philippines.
- Accordingly, a production quota is reallocated to each of the other production sites, to maintain stable supply.



YAMASHIN is restructuring its production system as part of our BCP to achieve stable, efficient production. For that end, a new factory will be built in Vietnam in 2021.



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

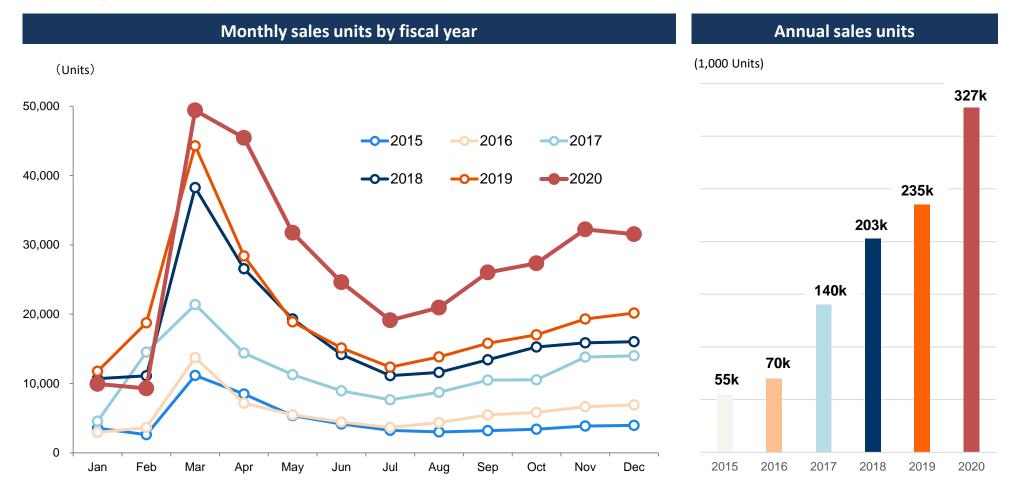
Due to an uptake in infrastructure investment in several markets and our strong position in after-sales market, we expect sustained growth in our construction machinery filter business.

New business is expected to make significant contributions to both sales and profits.

YAMASHIN NANO FILTERs will drive growth, with use for diverse applications.



Strong demand for construction machinery in China underpinned by large-scale public investment



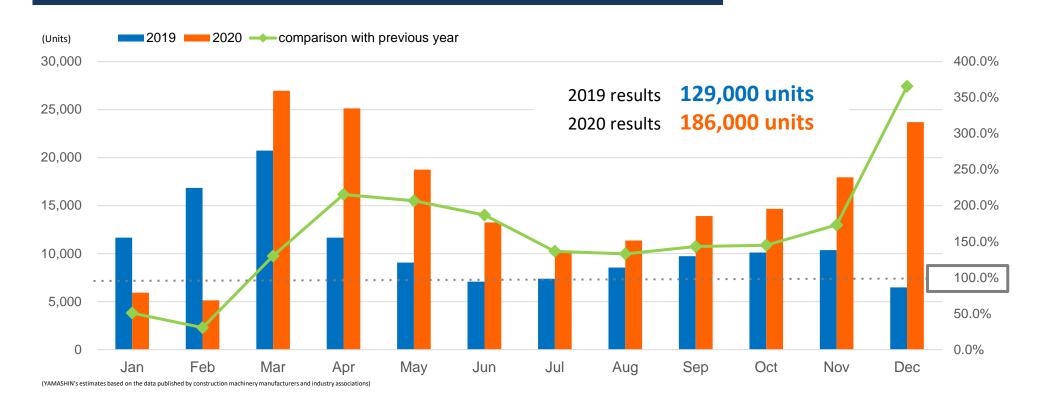
(YAMASHIN's estimates based on the data published by construction machinery manufacturers and industry associations)



Chinese construction machinery manufacturers increased production in 2020.

Production trend of leading Chinese construction machinery manufacturers

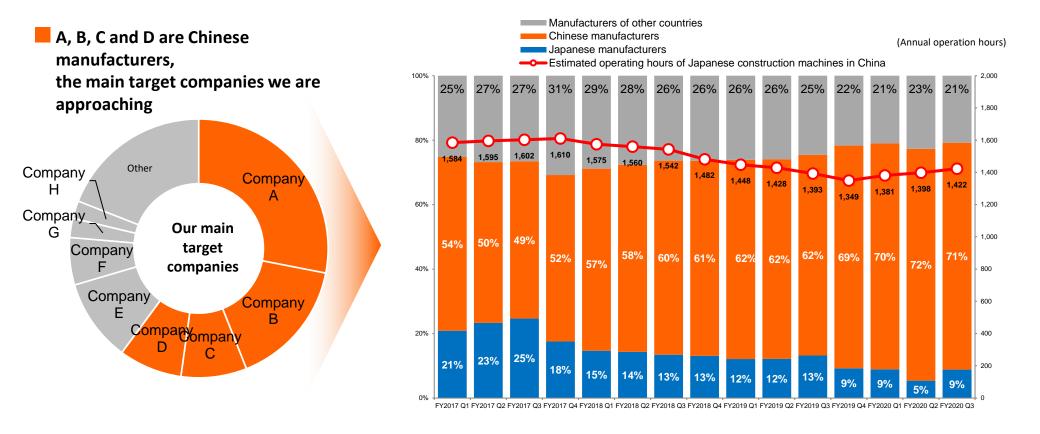
In 2020, the production output of Chinese manufacturers grew +44.2% from 2019, although production was delayed than planned, due to the extension of the Chinese New Year holidays and the spread of the COVID-19.



Construction machinery operating hours declined substantially due to the extension of the Chinese New Year holidays and COVID-19.

Our main construction machinery customers' market shares in China

Change in market shares in China by manufacturers' country



The Specialist in Filtration



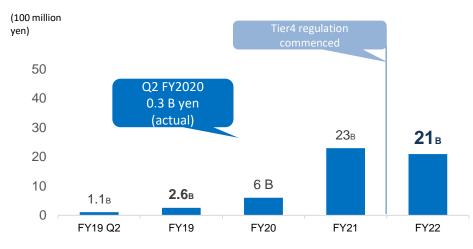
Increase proposals to Chinese construction machinery manufacturers to grow our market share.

Market environment

- Trend continues on expanding infrastructure investment by the Chinese government.
- Increased need for our proprietary technologies in conjunction with 4thphase environmental regulations
- Priorities of end users are changing from price to quality.
 - Plan for expanding sales of line parts (for new machines)

Add more product lines and improve pricing strategy

- Supply products with high value(longer life-span and IoT)
- Deploy pricing strategies to sell more existing products

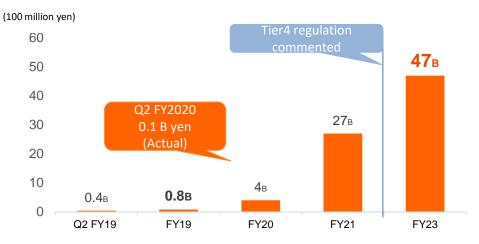


- Significant expansion of after-sales market following an increase in the cumulative number of new machines sold
- Increased need for global suppliers as Chinese construction machinery manufacturers are entering overseas market

Plan for expanding sales of service parts (replacement parts)

Deploy marketing strategies taking advantage of our brand value

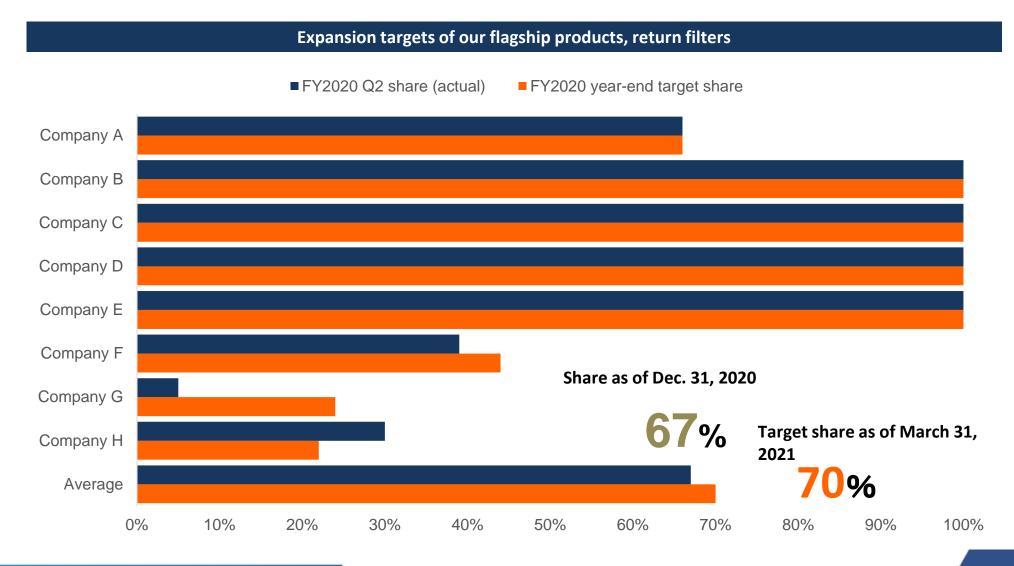
• After the construction machinery manufacturers' warranty periods end, we will directly trade with agencies.



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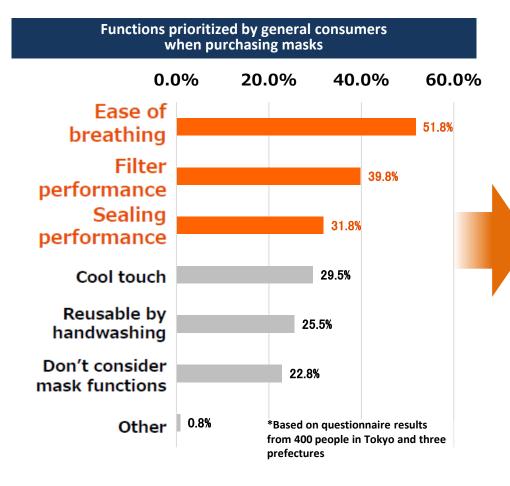


YAMASHIN will conduct marketing and sales activities for our flagship return filters, focusing on our high value-added products (as strategic products), in Chinese and other Asian markets.





There is a high correlation between the knowhow required for mask filters and that of construction machinery filters.



High performance masks developed by YAMASHIN, a comprehensive filter manufacturer



Application of **modified melt-blown manufacturing method,** a mass production technology cultivated for construction machinery filters

- Nanostructure traps viruses.
- Minor decline in performance, even with long-term use

For about 70 years as a dedicated manufacturer of construction machinery filters, YAMASHIN has refined its filtration technologies and accumulated know-how.

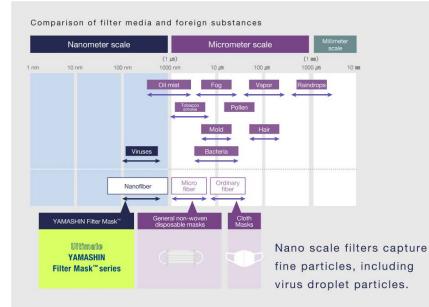
YAMASHIN NANO FILTER™, created by a mass production technology developed through our expertise traps foreign substances within the small pores between extremely fine fibers. When used for masks, long-term high performance is maintained because of its physical structure, making the technology ideal for and easily applicable to masks.



Our masks made with YAMASHIN NANO FILTER[™] sustains high filtration performance even after hand-washing.

High filtration performance

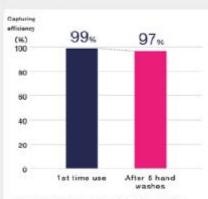
General non-woven masks rely on static electricity for capturing dust and airborne particles, whereas YAMASHIN masks capture fine particles by its physical structure, achieving high filtration performance for extended periods.



Sustained performance

Our masks made with YAMASHIN NANO FILTER™ showed little degradation in filtration performance and maintained 97.6% filtration efficiency even after 5 hand washes

High performance filter made of nanofibers maintained high capturing efficiency even after 5 hand washes



"The percentage is calculated as an average level of performance in PFE test (by a General Incorporated Foundation, Kaken Test Center).

"Handwashed with a pressing down motion

PFE test*

(Particle filtration efficiency test)

	Before	After
YAMASHIN Filter Mask	99.8%	97.6%
Zexeed	99.9%	98.9%
General non- woven masks [%]	99.0%	60.0%

*The test was conducted by the Kaken Test Center *General non-woven masks are for comparison purposes only.



Line-up of our mask products, all are made with YAMASHIN NANO FILTER ™, our proprietary nanofiiber filter (non-woven material of nanofibers intertwined three dimensionally).

シートサイズ レギュラーサイス 日本間 0 35 LUT. 日本製 55 日本製 305 175nn + 95er 14Dom×85mm YAMASHIN Nano Filter YAMASHIN 2111 States + 58 G.L.L. or YAMASHIN Nano Filter Nano Filter ◇◇◇ フィルタ専門メーカーが開発した ///// ハハ、フィルタ専門メーワーび開発した ハハノ ヤマシン・ フィルタシート マスクにセットするだけでマスクの性能向上! 2日指す次母代マス: ノ鉄氏線高比較フィルタ使用 らに独自立体アリーン脱状"による 体と思のしやすきも実現 ナノフィルタが 三二 99% カット ナノフィルタが # 99% カット - Water Street With a set 設備力を使わないナノフィルタだから **御道方を使わないとフライルをかから** ADMARCH MANA CONTINUES 並が地方にくく、繰り返し使えます。 捕集性能が落ちにくく、繰り返し使えます I TO A DESERVE A CROCK OF LANSING. start of all other started on the started ***************** キマシンナノフィルターと出? LO. BUTTLA COMMANDER BEET MATERIAN PARTICULATION -- COLORS ALC, BRITSSOMMUMPTIN, S. SHOW THAT - THE FLORE BUT WHERE A STREET WAS AND Premium model of Standard model of **YAMASHIN Filter SheetTM YAMASHIN Filter MaskTM series** YAMASHIN Filter MaskTM series

Masks for general consumers

30 pieces in a pack JPY 980 (tax excluded)

High performance mask inner sheet for use with cloth masks and general non-woven masks

5 pieces in a pack JPY 980 (tax excluded)

High performance filter mask, reusable after handwashing

3 pieces in a pack JPY 750 (tax excluded) Medical grade filter is used

(equivalent toN95 mask). The unique 3D pleated mask provides secure sealing and ease of breathing in addition to high filtration performance.

Masks for medical use

Zexeed.6240



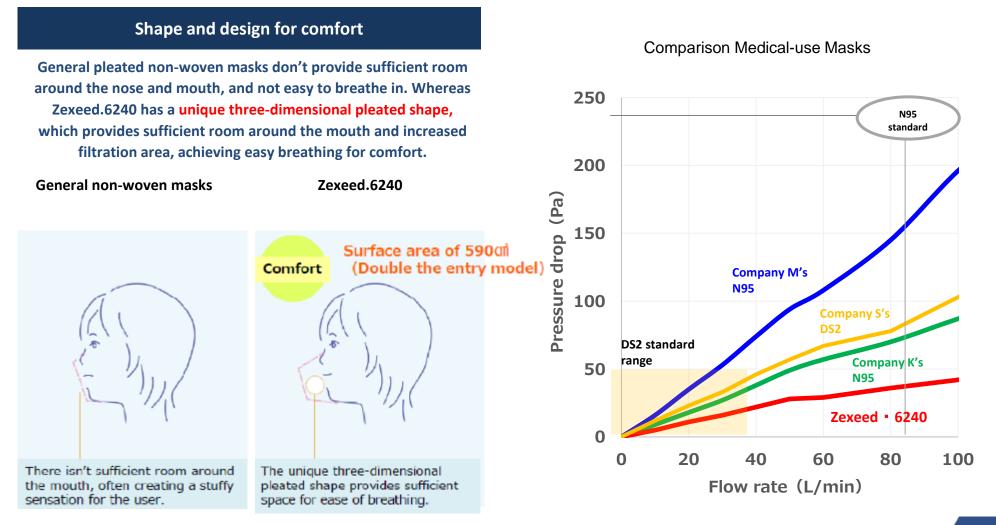


10 pieces in a pack JPY 3,000 (tax excluded)

Plan to acquire DS2 standards. Will be available for sale in FY 2021



Unique three-dimensional pleated shape achieves secure fit and sealing and ease of breathing for extended use.





Zexeed Ultimate YAMASHIN Filter Mask:



Announcement of the new product, Zexeed, and joint strategy announcement with PIP Co., Ltd.

ヤマシン・フィルタマスクとフィルタシート 好評発売中! Zexeedは10月中旬より発売! お求めは全国ドラッグストス ECサイトにて



Ultimate

YAMASHIN

Filter Mask

2727-24-9

10/15 (Thur.): Ad campaign starts (1) Ad posters hung in train aisles *All Sotetsu Line train cars (2) Instagram (3) Sounyan blog (4) Sotetsu website 10/24 (Sat.): Mask sales launch Sales channels: Sotetsu merchandise stores, FamilyMart in train stations, etc.



Adoption of nanofiber masks by Central Japan Railway Company Club



Launched sales of mask with original design featuring the new JR Central N700S train model **10/14 (Wed.**): Launch of sales on JR Central's website **10/16 (Fri.):** Launch of store sales at kiosks of main JR Central Shinkansen stations, Nagoya Marriott Associa

Aiming to establish YAMASHIN brand by raising awareness and promoting the brand image

Hotel, etc.



REFERENCE MATERIALS 2 BASIC COMPANY INFORMATION

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About Us | Overview of Our Filter Products



YAMASHIN Group has manufactured filters for construction machinery (hydraulic), various industrial fields other than construction machinery (hydraulic), and manufacturing processes (water) by purchasing glass-fiber and non-woven fabrics to produce filter media (the key component of any filter), resin products and processed metal for filter components. From May 2020, the group started to sell filter masks and mask inner sheets and from July 2020, we added a new Healthcare segment to our business.

Filed	Products	Product image	Composition ratio (As of March 2021)
Hydraulic filters for construction machinery	A construction machinery filter is used to filter the fluid running in the hydraulic components of construction machinery, which is the key to the operation of such machinery. Applications : Various types of construction machinery		
Hydraulic filters for various industrial fields	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. Applications : machine tools, refrigerating compressors, agricultural machinery, vessels, railway vehicles, airplanes, and helicopters		
Filters for process lines	A process filter is used for filtration and separation in processes for manufacturing customer products Applications : Production lines for electronic parts, precision parts, liquid crystal displays, and food.		
Air filters	Air filters used for dust removal and medium-to-high performance air filters Applications : general buildings, hotels and factories.		
Healthcare	High performance masks and replacement inner sheets that feature high filtration performance (one of the characteristics of our nanofiber filtration material), excellent sealing performance and high air permeability. Applications: For general consumers in Japan and around the world		



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

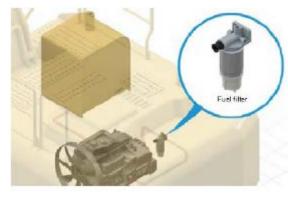
For hydraulic systems

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.

Air breaths Subion

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.

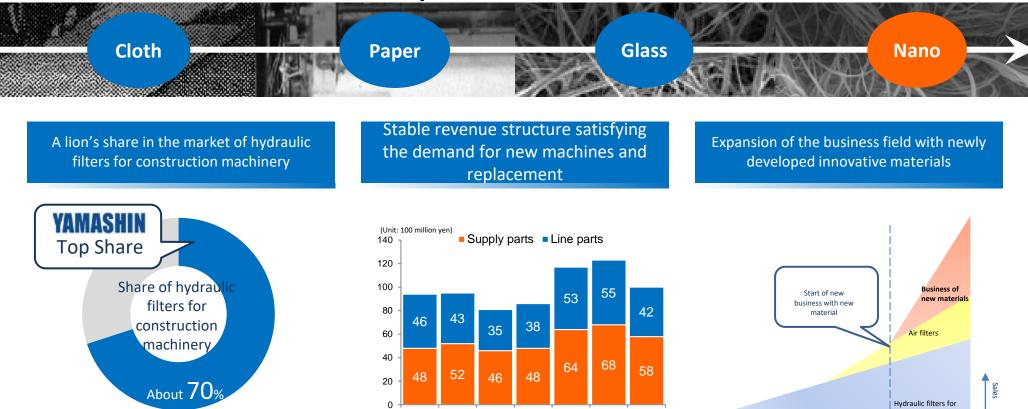
For engine oil

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.





Capability of researching and developing innovative filter media in line with the evolution of construction machinery.



FY18 FY19

Shares of sales of hydraulic filters for construction machinery in Japan (Fiscal 2012) Source: Yano Research Institute

- Our company has contributed to the development of efficient infrastructure.
- As we handle high-quality products and have plenty of experience, many products have been adopted by leading construction machinery manufacturers in Japan, Europe, the U.S., and China, which operate business globally.

FY15

FY16

FY17

FY13

FY14

constructio

time

machiner



Segments and KPI

- Filters for construction machinery are classified as "line parts" or "service parts" (supply 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".

Business model, Regional trends, and Cost reduction measures

Business model

Hydraulic filters for construction machinery are all sold to construction machinery manufacturers (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

• PAC20 (Promptly Activated Cost reduction 2020)

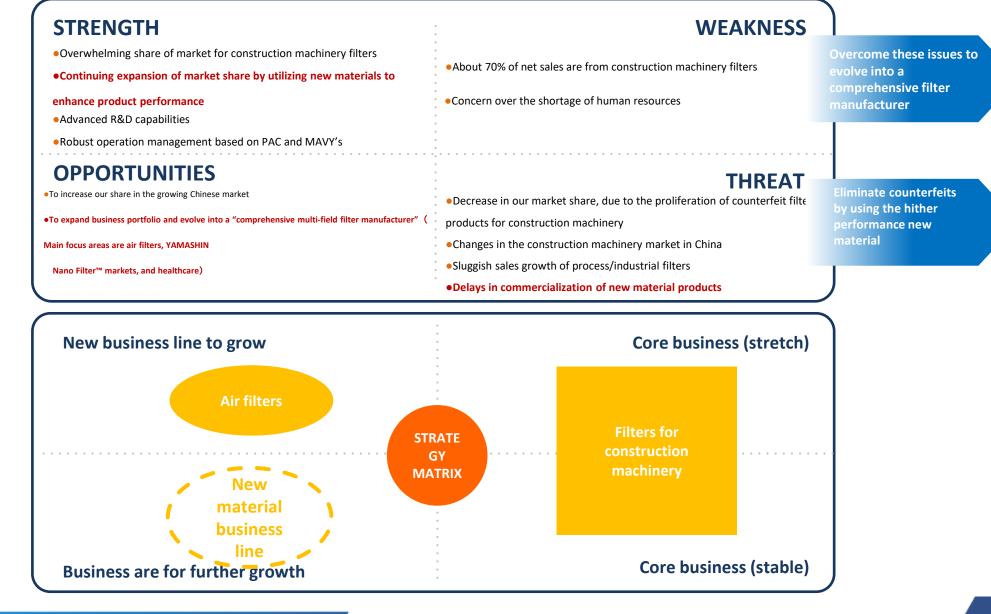
Our company-wide cost reduction project



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
Key Goal Indicator(KGI)	Current year: Cumulative total + Budget, Previous year: Annual actual results
Key Performance Indicator (KPI)	Comparison of cumulative results

* The figures in the balance sheet are the averages of the initial and term-end figures





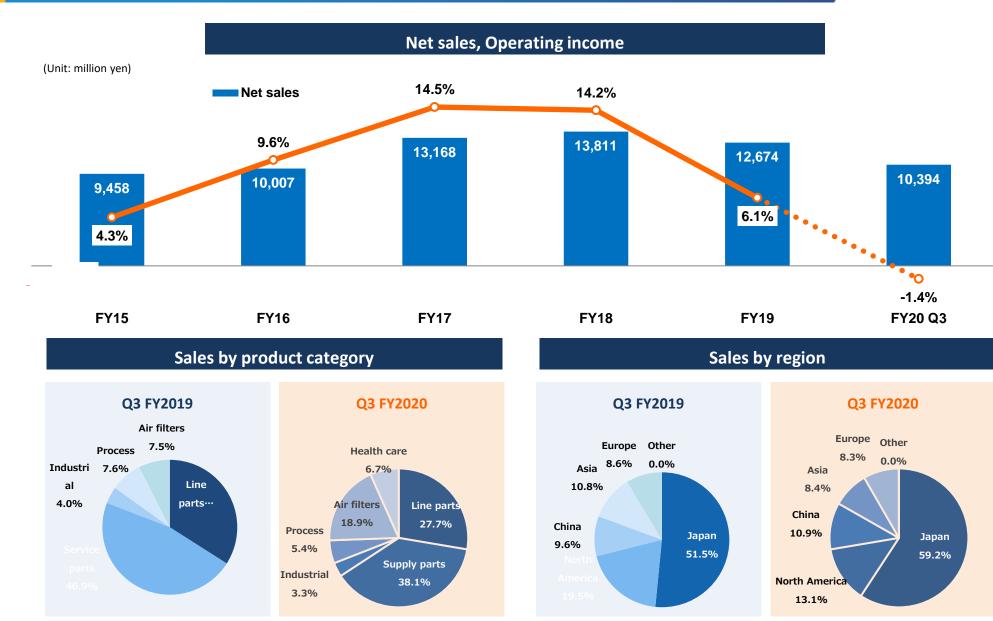
REFERENCE MATERIALS 3 FINANCIAL HIGHLIGHTS

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GIGF

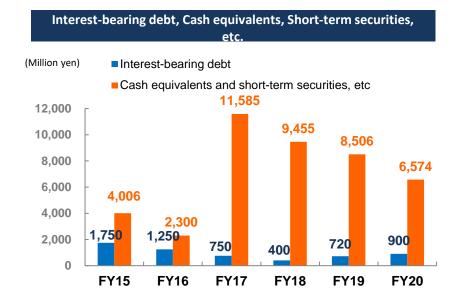
TEBBA

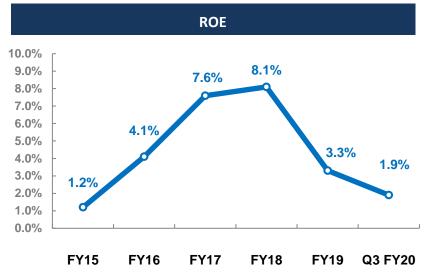
Financial Highlights



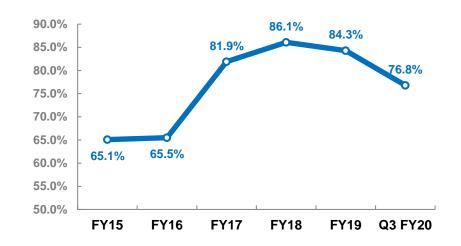
Financial Highlights

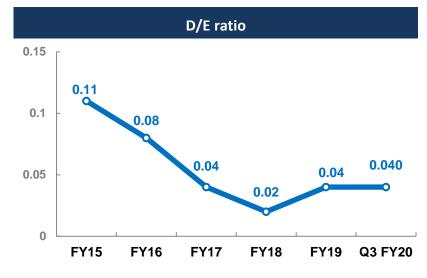






Shareholders' equity ratio





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



(million yen)		FY2019 Q3	FY2020 Q3	Change in amount	Change in ratio	
Current assets		16,332	13,854	∆2,477	∆15.2%	
	Cash and deposits	10,431	6,574	∆3,856	∆37.0%	
	Notes and accounts receivable-trade	3,557	4,072	514	14.5%	
	Merchandise and finished goods, Raw materials and Supplies	2,096	2,592	496	23.7%	
	Other	246	614	367	149.3%	
Fixed assets		4,823	12,464	7,641	158.4%	
	Tangible fixed assets	4,051	10,364	6,312	155.8%	
	Intangible fixed assets	366	323	∆42	∆11.6%	
	Investments and other assets	405	1,776	1,370	337.9%	
Total assets		21,155	26,319	5,163	24.4%	

		FY2019 Q3	FY2020 Q3	Change in amount	Change in ratio	
Current liabilities		2,509	4,697	2,188	87.2%	
	Notes and accounts payable-trade	1,479	2,519	1,039	70.3%	
	Corporate bonds payable within one year and short-term loans payable	200	299	99	50.0%	
	Other	830	1,879	1,049	126.4%	
Fixed liabilities		644	1,384	740	114.8%	
	Corporate bonds and long-term debt	100	800	700	700.0%	
	Net defined benefits Liability	226	213	∆12	∆5.7%	
	Other	318	371	53	16.6%	
Total net assets		18,001	20,236	2,235	12.4%	
-	otal of liabilities Id net assets	21,155	26,319	5,163	24.4%	

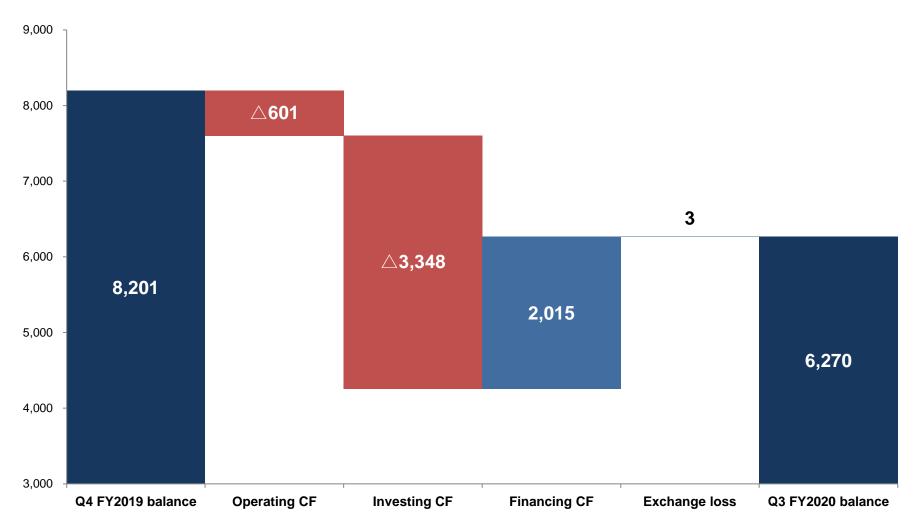
*Shareholders' equity ratio 85.1%

76.9%

Changes in Cash Flow Balance



(Million yen)



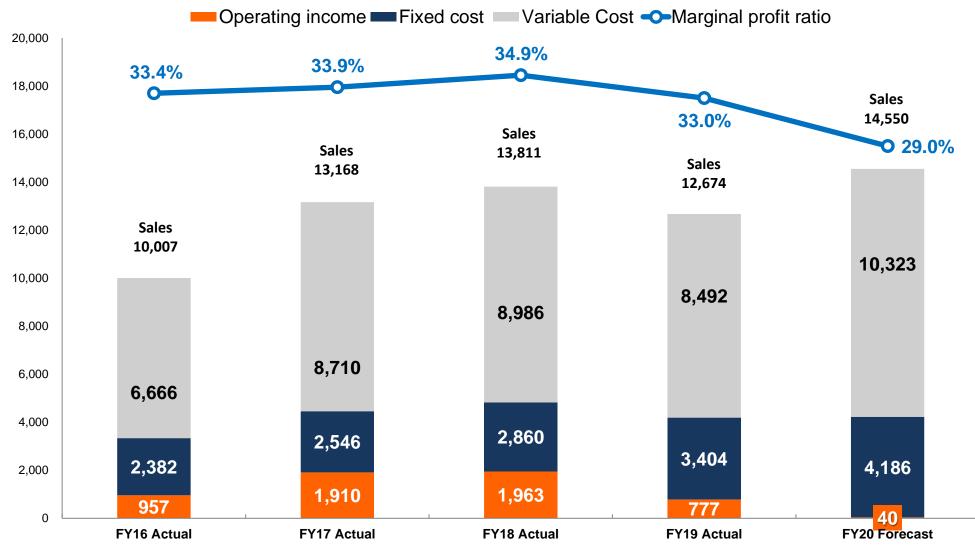


(Unit: million yen)

	Incoming		Outgoing		Net	Average	In case of yen appreciation (10%)			In case of yen depreciation(10%)		
Currency	Amount by currency	Composi- tion ratio	Amount by currency	Composi- tion ratio	Amount by currency	rate during	If yen is appreciated ▲10% (JPY)	Difference	Affected amount (QTD)	If yen is depreciated +10% (JPY)	Difference	Affected amount (QTD)
JPY	¥10,700.0	76%	¥10,800.0	71%	¥-100.0	-	-	-	-	-	-	-
USD	\$27.3	20%	\$30.6	21%	\$-3.3	¥106.1	¥95.51	¥-10.61	¥35.02	¥116.73	¥10.61	¥-35.02
EUR	€2.9	3%	€2.4	2%	€0.5	¥122.4	¥110.14	¥-12.2	¥-6.12	¥134.62	¥12.24	¥6.12
РНР	PP0.0	0%	PP350.9	5%	PP-350.9	¥2.2	¥1.94	¥-0.2	¥75.79	¥2.38	¥0.22	¥-75.79
ТНВ	‼55.60	1%	‼25.50	1%	‼30.10	¥3.4	¥3.05	¥-0.3	¥-10.20	¥3.73	¥0.3 4	¥10.20
Total	-	100%	-	100%	-	-	-	-	¥94.49	-	-	¥-94.49



(Unit: million yen)



REFERENCE MATERIALS **3** FUTURE STRATEGIES

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SIG

IEDER

2

Strengthening Corporate Sustainability



Corporate Principle

Rokajini tsukafuru

(contributing to society through filtration activities)

Emergence of various societal issues

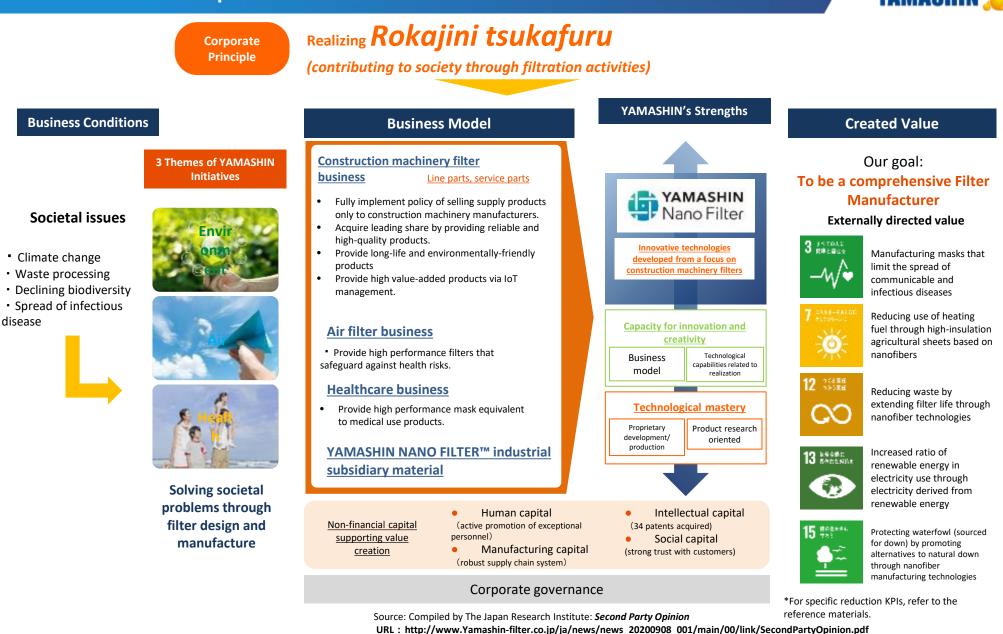


Realizing Rokajini tsukafuru

Working to solve societal problems through filter design and manufacture

YAMASHIN's Value qw





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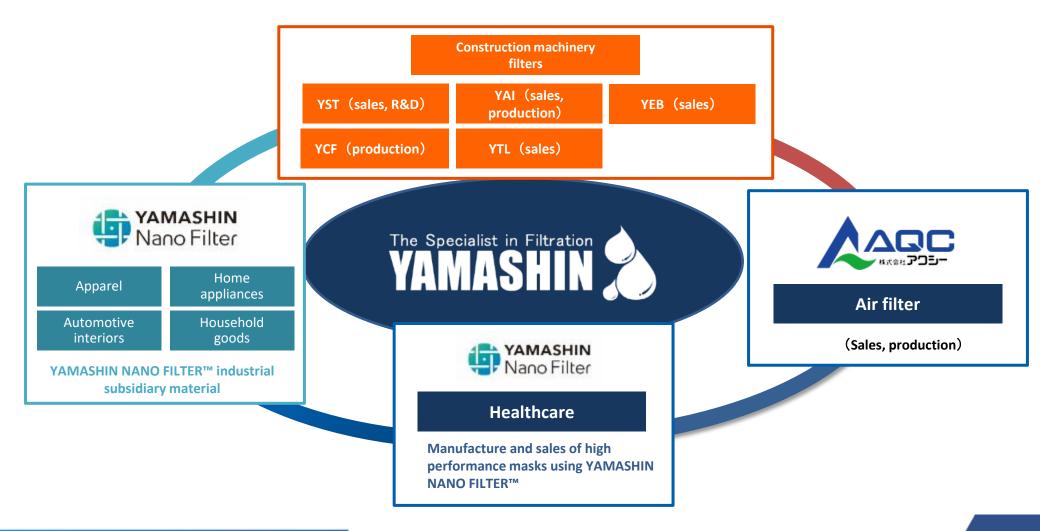
Working to Reduce CO2 by Approx. 25,000 Tons through the project.

Impacts Created by Sustainability Project

Project outputs					Impact		
		Outcomes				Impact indicator (annual)	
Purchasing electricity from renewable energy		YAMASHIN	Increased share of renewable energy in electric power		Renewable energy	632t CO ₂	
Purchasing solar power systems]				_	
		Users (construction machinery)	Reduced waste from longer life hydraulic filters for construction machinery		Reduced waste for helping to reduce pollution	4,000 t	
Augmentation of production facilities for YAMASHIN NANO FILTER™		Manufacturers (apparel, bedding)	Reduced use of natural down through use of synthetic down		Reduced natural down for protecting land and sea life diversity	23 t	
		Users (agriculture)	Reduced fuel consumption through high- insultation agricultural sheets		Energy efficiency	24,440t co ₂	
Introducing recycling facilities for YAMASHIN NANO FILTER™ Augmentation of manufacturing machinery for masks for general consumers Augmentation of manufacturing machinery for medical use masks		Users (e.g., construction machinery)	Reduced waste from various filters		Pollution prevention and control	(Qualitative assessments)	
		Users (general consumers)	Increased production of masks for general consumers		Help consumers to access to necessary services to the extent possible	230 million masks	
		Users (medical professionals)	Increased production of masks for medical use		Help consumers to access to necessary services to the extent possible	(Qualitative assessment)	
		Users (general consumers)			Clean transport	(Qualitative	
<u>R&D on YAMASHIN NANO FILTER™</u> <u>technology</u>		Manufacturers and users	Achieving even higher performance of YAMASHIN NANO FILTER™ (finer, added features)		Broad social/environmental implications	assessment)	



Accelerating the transition from dedicated manufacturer of construction machinery filters to comprehensive filter manufacturer





The forward-looking statements in this document, including the forecast of results of operations, are based on information currently available to YAMASHIN. Actual results may differ from these forecasts due to a variety of factors, including market trends and business conditions.

For inquiries regarding these materials, please contact our Public Relations & Investor Relations manager

TEL 045-680-1680 E-mail ir@yamashin-filter.co.jp