Change UMC, beyond EMS

Financial Results for the Third Quarter ended December 31, 2018

UMC Electronics Co., Ltd. (Securities Code: 6615)





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	Third-Quarter Consolidated Financial Results	• •	• •	• •	• •	••2
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Summary of Consolidated Financial Results



(Millions of yen)	FY2017	FY2018		
	Q1-Q3	Q1-Q3	Change	Percentage change
Net Sales	94,978	105,335	+10,357	10.9%
(Plant Output)*1	19,915 21.0%	23,501 22.3%	+3,586 +1.3pt	18.0% —
Gross Profit	5,605 5.9%	5,770 5.5%	+165 (0.4pt)	2.9% —
Operating Income	2,013 2.1%	1,658 1.6%	(355) (0.5pt)	(17.6%) —
Ordinary income	1,692 1.8%	856 0.8%	(836) (1.0pt)	(49.4%) —
Net Income	1,152 1.2%	688 0.7%	(464) (0.5pt)	(40.2%) —

USD Rate	
(JPY)	En

Average 111.71

Average 111.15 d of period 113.05 End of period 110.91

(0.56)(2.14)

^{*1} Plant Output= Net sales - Parts cost The net sales of an EMS company depends heavily on the product unit price and thus the Company discloses it as an indicator of "plant output," which shows the added value.



Summary of Consolidated Financial Results (FY2018/Q1~Q3)



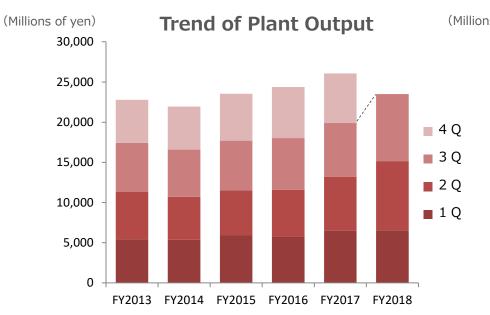
(Millions of yen)	FY2017 Q1	FY2017 Q2	FY2017 Q3	QoQ (Q2 vs. Q3)	
	Q1	Q2	QS	Change	Percentage change
Net Sales	31,162	37,279	36,892	(387)	+1.0%
(Plant Output)*1	6,552 21.0%	8,602 23.0%	8,346 22.6%	(255) (0.5pt)	(3.0%)
Gross Profit	1,548 5.0%	2,225 6.0%	1,995 5.4%	(229) (0.6pt)	(10.3%)
Operating Income	292 0.9%	760 2.0%	606 1.6%	(154) (0.4pt)	(20.3%)
Ordinary income	(106) -	605 1.6%	356 1.0%	(249) (0.7pt)	(41.1%) -
Net Income	(50) -	540 1.5%	198 0.5%	(341) (0.9pt)	(63.2%) -
USD Rate (JPY)	Average 109.07 End of period 110.54	Average 110.27 End of period 113.58	Average 111.15 End of period 110.91	+0.88 (2.67)	

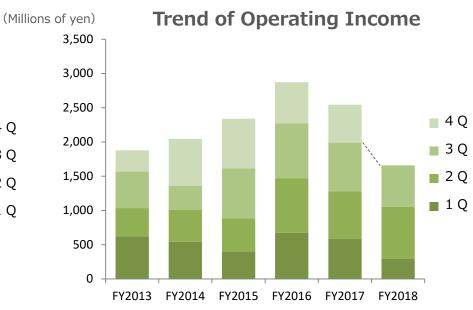
^{*1} Plant Output= Net sales - Parts cost



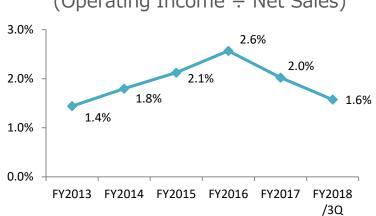
Performance Trends



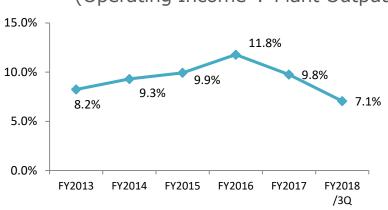




Trend of Operating Margin (Operating Income ÷ Net Sales)



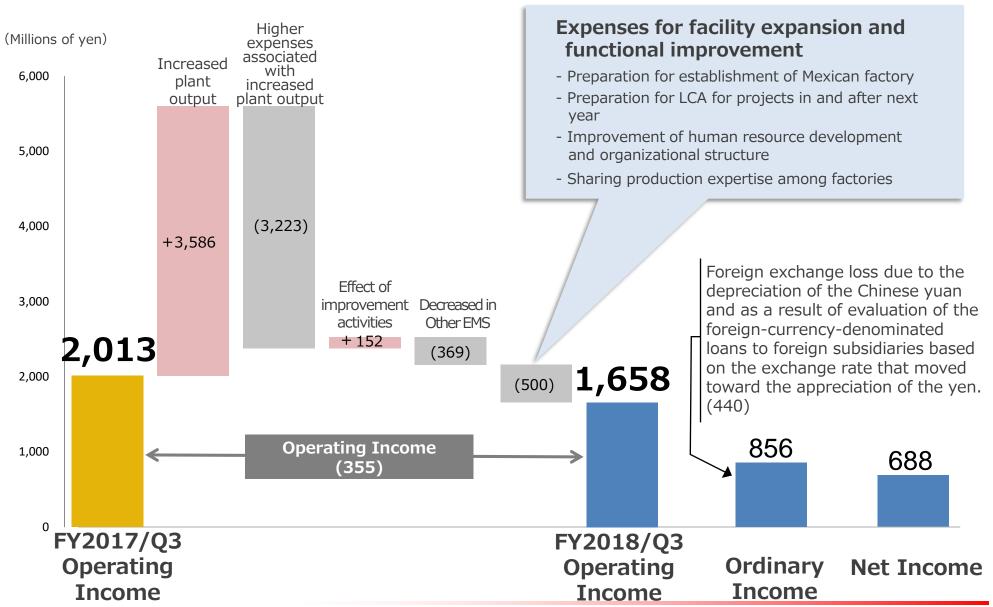
Trend of Operating Margin(Operating Income ÷ Plant Output)





Factors for Change in Consolidated Operating Income (FY2017/Q3 vs.FY2018/Q3)





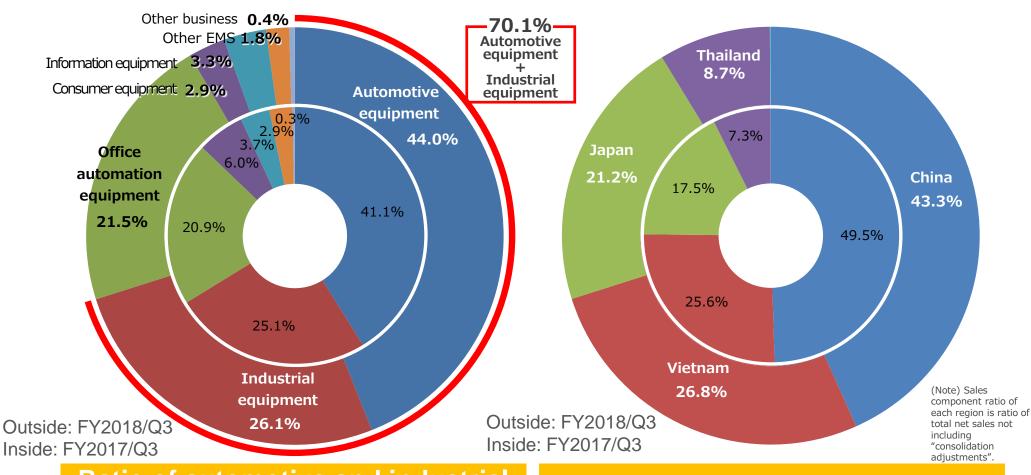


Sales Breakdowns by Product Category and by Region



Net sales by product category

Net sales by region



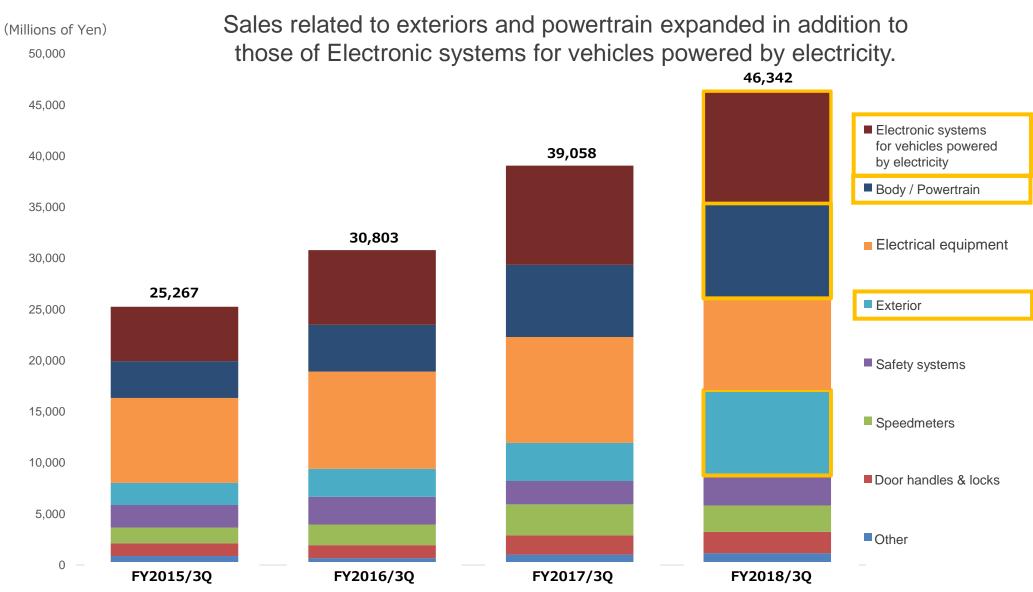
Ratio of automotive and industrial equipment sales rose 3.9% YoY

Base in Vietnam was growth



Sales Breakdowns by Product Category







Balance sheet



Balance Sheet

FY2017

FY2018/Q3

(Millions of yen)

65,878

Current Assets
44,990
Interest
bearing Debt
23,084
Noncurrent
Assets
20,887
Net Assets
18,208

Current Assets
61,114

Interest bearing Debt 26,983

Noncurrent Assets 26,185

(Note) Interest-bearing debt is all liabilities recorded on the balance sheet on which the Company pays interest

Cash Conversion Cycle

1.50months

Notes and accounts receivable –trade	21,289
Inventories	15,187
Notes and accounts payable-trade	20,775

1.71months

Notes and accounts receivable –trade	23,025
Inventories*	23,469
Notes and accounts payable-trade	25,651

^{*} Safety stock continues to accumulate as a measure against the current tightness of the electronic component market.

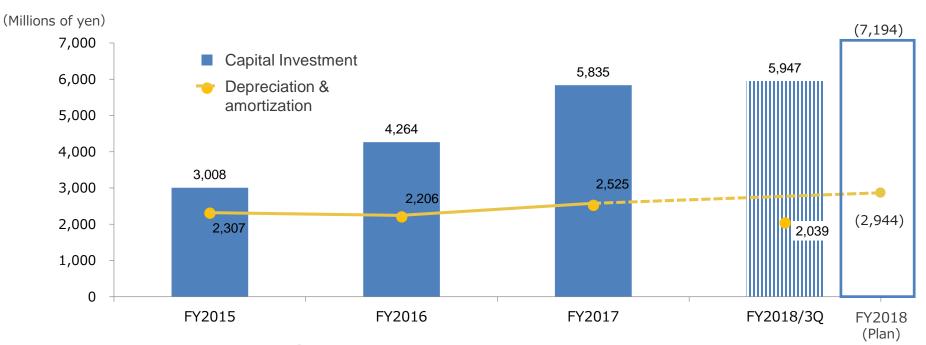
Total Assets 65,878million Equity Ratio 27.6%

Total Assets 85,462million Equity Ratio 30.6%



Capital Investment and Depreciation & Amortization





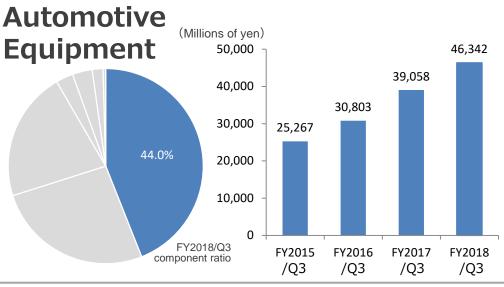
Breakdown of Capital Investment

(M:II: a.a. a.f. , .a.a.)				FY2018/3Q
(Millions of yen)	FY2015	FY2016	FY2017	<u> Actual</u>
Japan	318	860	852	3,287
China	1,157	1,233	1,712	1,158
Vietnam	959	664	965	658
Thailand	574	423	680	568
Mexico	0	1,081	1,624	276
Total	3,008	4,264	5,835	5,947

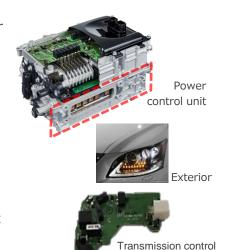


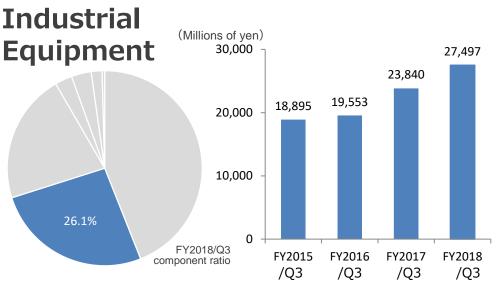
Net Sales by Product Category





- Sales of critical safety parts such as powertrains, control and drive systems were strong because our track record in domestically produced power control products continued to be recognized in China.
- Expansion of exterior products that resulted from growing demand due to the shift to LED lights
- Expansion of body, powertrain, and safety systems
- Expansion of electrical equipment for environmentally friendly vehicles and connected cars.





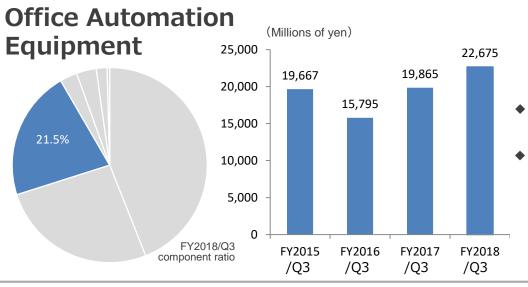
- ◆ Contribution of server, storage, and network devices of UMC H Electronics Co., Ltd, a company that has recently become a consolidated subsidiary
- Strong sales of products for semiconductor testers
 Orders for finished products also received
- Products delayed for machine tool manufacturers in China.
- Transactions with new growing companies and Chinese companies increased





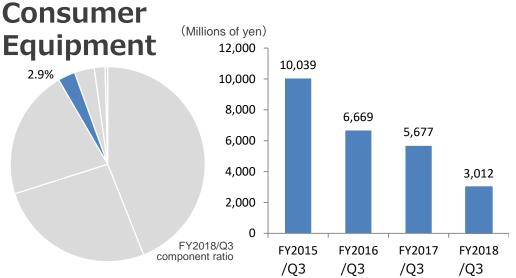
Net Sales by Product Category





- ◆ Sales were strong on the back of an increase in the in-house share
- Sales related to color and monochrome laser printers were strong





- ◆ The manufacture of a product whose production lot was large was ended
- ◆ Price competition among brand manufacturers was fierce.
- ◆ Foreign manufacturers such as Chinese companies are promising.
- ♦ We are narrowing down to products with high added value.
- ◆ Proposing production base optimization.



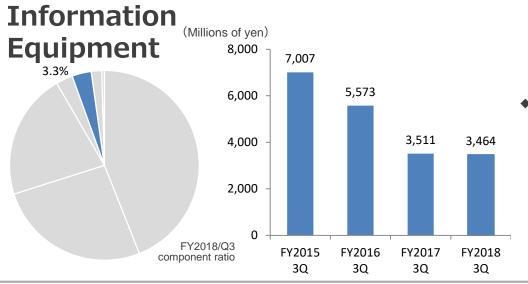


Circuit board



Net Sales by Product Category





 Transferred mature products with stable demand from China to Vietnam while maintaining cost competitiveness.



Optical pickup



Factors for Adjustment in this Period and Future Perspective (1)



Net sales and factory production remained almost as initially planned. Advanced costs for new projects, expenses for facility expansion and decrease in "Other EMS" are burdens.

(Millions of yen)

FY2018	Previous prediction (May 11, 2018)	Current adjustment (Feb. 8, 2019)	Percentage change	Factors
Net Sales	141,914	139,748	(1.5%)	·Automotive industry continued to be good
Plant Output	30,183	30,502	+1.1%	 Decrease in "Other EMS" in Japan Deceleration in demand in the industrial equipment industry of China
Gross Profit	7,489	7,516	+0.3%	·Costs for launching new automotive projects at some facilities
SGA	4,810	5,500	+14.3%	•Increase in costs such as labor costs for system enhancement for important customers
Operating Income	2,678	2,016	(24.7%)	expected to increase greatly in the future •Inter-account transfers occurred in part of production cost and SGA
Ordinary Income	2,295	1,097	(52.2%)	•Foreign exchange loss due to evaluation of foreign-currency-denominated loans to foreign subsidiaries based on the exchange rate that rapidly moved toward the appreciation of the yen
Net Income	1,799	860	(52.2%)	



Factors for Adjustment in this Period and Future Perspective (2)



Perspective: Toward the Collection of Advanced Costs

Long-awaited start of mass production in projects for electric vehicles

China

Prepare for the launch of the new automotive equipment project

Many new automotive equipment projects in Thailand and Mexico

Thailand and Mexico

Establish a quality assurance system for automotive equipment customers

Enhance the organization in preparation for an increase in production volume

Strengthen the production preparation activities for new products

Japan

Enhance the support system for large volume orders

China

Start mass production for the new automotive equipment project (electric vehicles), which has been anticipated for three years

Mexico

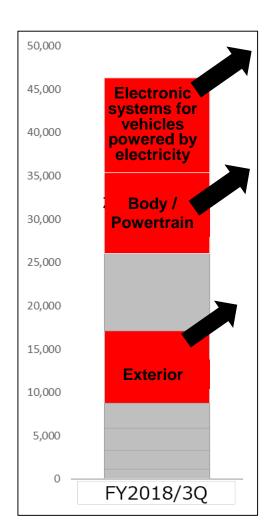
Transfer the production of products for North America from China facility Launch many automotive equipment projects for North America and Europe

Thailand

Launch many Japanese and European automotive equipment projects (expand production area)

Japan

Capital investment and optimization of production allocation



Capacity increase + Stable supply



Responding Flexibly to Customer Demand — New Business Chances



Japan (Miyazaki and Saga)

Expanding automotive and exterior products

2018

2019

Open Saga plant

Introduce an SMT line at Miyazaki plant

- Increase production capacity in Kyushu region

Increase profit

- -Increase production capacity through capital investment to produce outsourced items internally
- Optimize the production allocation

Shift systems and organization outside Japan with Chinese factories as the main production base

Quickly adapt to business in Mexico, which is expanding due to the trade conflict between the U.S. and China and NAFTA.

Thailand

Prepare for the expansion of automotive models

Automotive and exterior products: Increased needs for Europe and Thailand

European Tier 1

(Exterior products)

2018

- Increase in new products and customers
- Quality improvement and strengthening of production preparation activities for new products

2019-21 New projects

- Body and powertrain
- Exterior products
- Electrical equipment
- European Tier 1

- Expand production area (+5,000 m²)

2019

products for North America from China to Mexico

2018 **New Wuhan factory** (Exterior products)

> Prepare for new **Dongguan factory**

Mexico and North America

Automotive and exterior products: Prepare for the production of electrical systems for electric vehicles

2018

- Establish a quality assurance system for automotive equipment customers (obtain ISO certification)
- Organize factories and secure and educate human resources
- Start mass production of automotive products
- FAT and SMT expansion constructions

2020 **New projects**

- Body and powertrain
- Exterior products
- European Tier 1
- FAT and SMT Line expansion constructions
- Launch critical safety parts for exterior and automotive products

2019



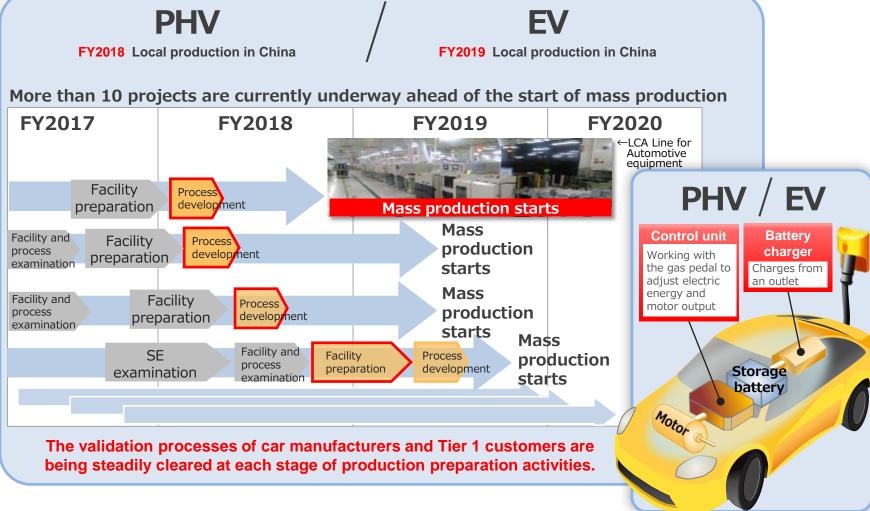
New Automotive Equipment Project: Roadmap to Mass Production





Increasing presence of UMC Electronics with a track record of overseas mass production

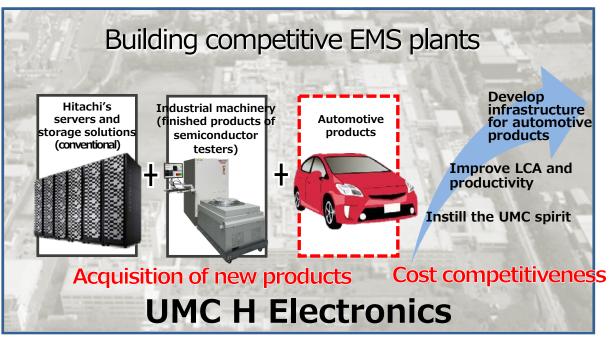






Concept of UMC H Electronics





- Provide usable spaces of 6,000 m² by the first half of FY2019. Allocate 54 available staff members to the new business.
- Currently, under negotiation with automotive equipment customers about the projects whose production will start in 2019 to 2022.
- Promote sales activities for the new project for the Hitachi Group.

Toward establishment of an on-vehicle environment

Needs of Automotive Equipment Customers

Looking for manufacturing partners

- that want to narrow down their area of specialty
- that completely adhere to their own concept of manufacturing

(Traceability system, component acceptance flow, abnormality response flow and facility maintenance)



Shift systems and organization outside Japan with Chinese factories as the main production base

Manufacturing Power of UMCE

- ① SE activities and "Manufacturing through a total solution (from upstream design to mounting technologies and production)"
- Smart factory realized by self-developed LCA (Low-cost automated equipment)
- ③ Advanced production preparation activities and improvement activities
- ④ Production results of automotive products (Transmission control, engine control, startup/actuation, audio, interior environment control, body control, lamp control and security)

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