### Performance Forecast For Fiscal Year Ending March 31, 2020

# Revised consolidated results forecast for fiscal year ending March 31, 2020

(millions of yen)

	Original forecasts (announced May 10)		Revised forecasts (announced Nov. 12)		Vs. original forecasts	
	Amount	Percent (%)	Amount	Percent (%)	Change	Rate (%)
Net sales	42,000	100.0	36,700	100.0	<b>▲</b> 5,300	<b>▲</b> 12.6
Operating income	1,000	2.4	<b>▲</b> 1,500	_	<b>▲</b> 2,500	_
Ordinary income	1,000	2.4	<b>▲</b> 1,300	_	<b>▲</b> 2,300	_
Net income	50	0.1	<b>▲</b> 1,500	_	<b>▲</b> 1,550	_
EPS (yen)	0.52	_	<b>▲</b> 15.58	_	<b>▲</b> 16.10	_

<sup>#</sup> Assumed exchange rate for FY20/3 forecasts 1USD = #105.00 1EUR = #118.00 1CNY = #15.00

<sup>※</sup> Net income refers to net income attributable to owners of parent.

## Revised non-consolidated results forecast for fiscal year ending March 31, 2020

(millions of yen)

	Original forecasts (announced May 10)		Revised forecasts (announced Nov. 12)		Vs. original forecasts	
	Amount	Percent (%)	Amount	Percent (%)	Change	Rate (%)
Net sales	22,000	100.0	18,000	100.0	<b>▲</b> 4,000	<b>▲</b> 18.2
Operating income	10	0.0	<b>▲</b> 1,000	_	<b>▲</b> 1,010	_
Ordinary income	150	0.7	<b>▲</b> 700	_	▲850	_
Net income	100	0.5	<b>▲</b> 500	_	<b>▲</b> 600	_
EPS (yen)	1.04	_	<b>▲</b> 5.19	_	<b>▲</b> 6.23	_

#Assumed exchange rate for FY20/3 forecasts 1USD = #105.00 1EUR = #118.00 1CNY = #15.00

### Consolidated performance forecast for fiscal year ending March 31, 2020

(millions of yen)

	Year-on-year change	
Amount Percent (%) Amount Percent (%) Change	Rate (%)	
Net sales 67,809 100.0 36,700 100.0 ▲31,109	<b>▲</b> 45.9	
Operating income 16,903 24.9 ▲1,500 — ▲18,403	_	
Ordinary income 17,464 25.8 ▲1,300 — ▲18,764	_	
Net income 11,601 17.1 ▲1,500 — ▲13,101	_	
EPS (yen) 120.52 — ▲16.10 — ▲136.10	_	
Capital investment 23,876 − 7,800 − ▲16,076	<b>▲</b> 67.3	
Depreciation costs 6,247 — 7,200 — 952	15.3	
R&D costs 2,476 — 2,300 — ▲176	<b>▲</b> 7.1	

<sup>\*</sup> Net income refers to net income attributable to owners of parent.

X Assumed exchange rate for FY ending Mar.31, 2020 forecasts 1US\$ = ¥105.00 1€ = ¥118.00 1CNY=¥15.00

<sup>\*</sup> Depreciation costs include depreciation cost of tangible assets and amortization cost of intangible assets and goodwill.

### Forecasts of main group companies for fiscal year ending March 31, 2020

(millions of yen)

		Equity	Net	sales	Net ir	ncome
		stake	Amount	Year-on-year change (%)	Amount	Year-on-year change (%)
	Harmonic Drive Systems Inc.	_	18,000	<b>▲</b> 63.5	<b>▲</b> 500	▲104.8
*2 *5	HD Systems, Inc. (Harmonic Drive L.L.C) (U.S.A)	100% (51%)	6,100	<b>▲</b> 11.0	410	<b>▲</b> 17.0
	Harmonic AD, Inc.	100%	1,600	▲52.5	<b>▲</b> 40	<b>▲</b> 111.0
*3	Harmonic Drive Systems (Shanghai) Co., Ltd.	100%	3,600	▲11.1	200	2.6
*4 *6	Harmonic Drive AG (Germany)	74.7%	12,700	▲20.4	680	<b>▲</b> 70.8

Percent change(%) indicates increase or decrease from same period of previous fiscal year.

<sup>\*1</sup> For overseas subsidiaries and affiliates, the fiscal year ends December 31.

<sup>\*2</sup> Exchange rates: Jan. – Dec., 2018 1USD = 110.43 yen, Jan. – Dec., 2019 forecast 1USD = 105.00 yen

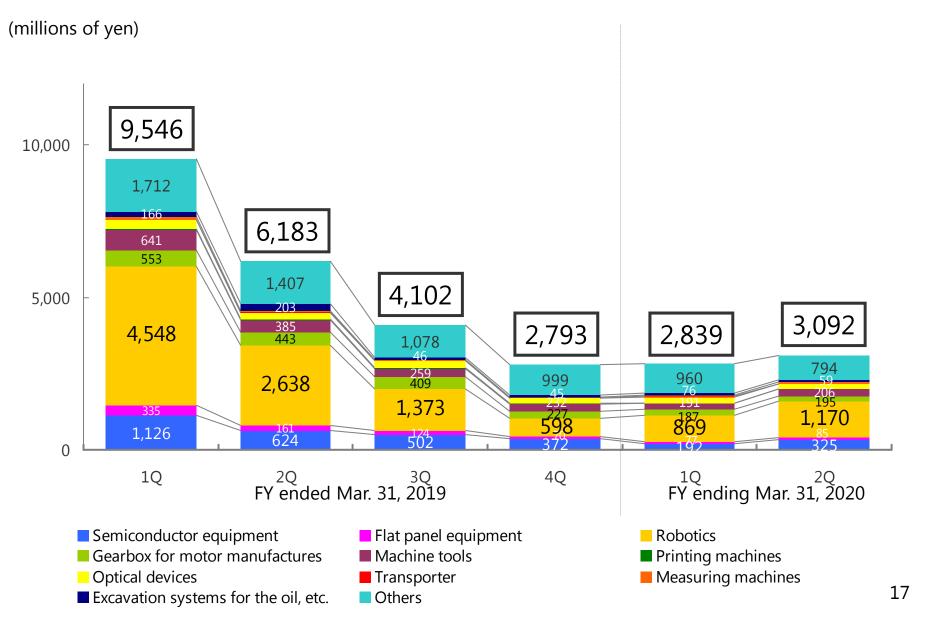
<sup>\*3</sup> Exchange rates: Jan. – Dec., 2018 1CHY = 16.72 yen, Jan. – Dec., 2019 forecast 1CYN = 15.00 yen

<sup>\*4</sup> Exchange rates: Jan. – Dec., 2018 1EUR = 130.42 yen, Jan. – Dec., 2019 forecast 1EUR = 118.00 yen

<sup>\*5</sup> Net income of US subsidiaries (consolidated) is after excluding non-controlling interests.

<sup>\*6</sup> Net income of German subsidiaries (consolidated) is before excluding non-controlling interests.

#### Non-consolidated bookings by application (quarterly)

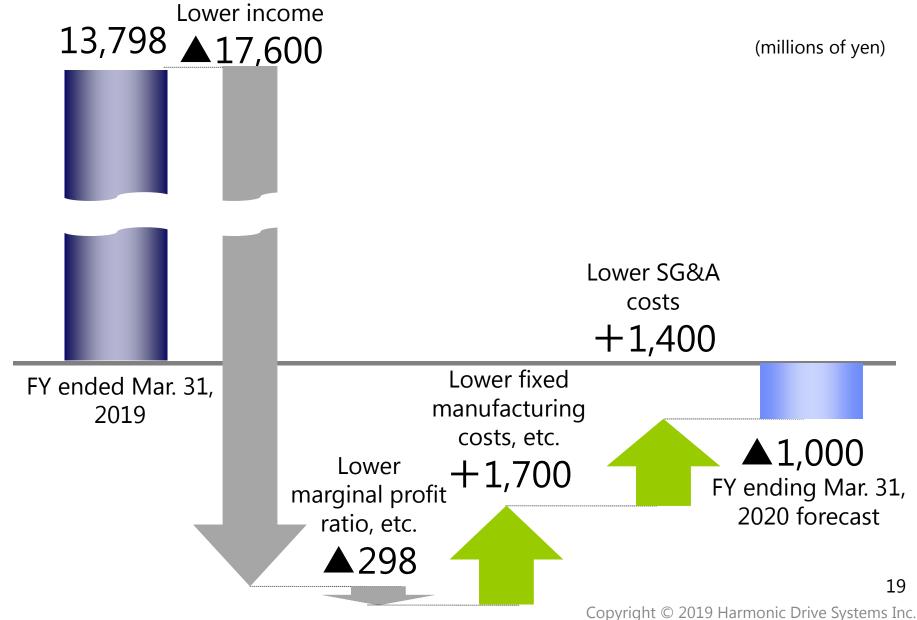


## Non-Consolidated performance forecast for fiscal year ending March 31, 2020

(millions of yen)							
	FY2019/3		FY2020/3 forecasts		Year-on-year change		
	Amount	Percent (%)	Amount	Percent (%)	Change	Rate (%)	
Net sales	49,249	100.0	18,000	100.0	▲31,249	<b>▲</b> 63.5	
Operating income	13,798	28.0	<b>▲</b> 1,000	_	<b>▲</b> 14,798	_	
Ordinary income	14,213	28.9	<b>▲</b> 700	_	<b>▲</b> 14,913	_	
Net income	10,413	21.1	<b>▲</b> 500	_	▲10,913	_	
EPS (yen)	108.18	_	▲5.19	_	▲113.37	_	
Capital investment	15,945	_	4,200	_	<b>▲</b> 11,745	<b>▲</b> 73.7	
Depreciation costs	2,458	_	3,300	_	841	34.2	
R&D costs	1,629	_	1,700	_	70	4.3	

<sup>#</sup> Assumed exchange rate for FY20/3 forecasts 1USD = \$105.00 1EUR = \$118.00 1CNY = \$15.00

Factors in year-on-year change in non-consolidated operating income (fiscal year ending March 31, 2020 forecast)



#### Sales trend line (non-consolidated)

