

1st-half consolidated results (versus original forecasts for the period)

				(mill	ions of yen	
	Original forecasts (announced May 11)		1st-half FY ending Mar.31,2019		Vs. original forecasts for the period	
	Amount	Percent (%)	Amount	Percent (%)	Change	Rate(%)
Net sales	32,300	100.0	34,474	100.0	2,174	6.7
Operating income	8,300	25.7	8,914	25.9	614	7.4
Ordinary income	8,400	26.0	9,337	27.1	937	11.2
Net income	5,400	16.7	5,908	17.1	508	9.4
EPS (yen)	56.10	_	61.37	_	5.28	9.4

 $[\]divideontimes$ Net Income refers to net income attributable to owners of parent.

1st-half consolidated results (year-on-year change)

				(mill	ions of yen)	
	1st-half FY ended Mar.31,2018		1st-half FY ending Mar.31,2019		Year-on-year change	
	Amount	Percent (%)	Amount	Percent (%)	Change	Rate (%)
Net sales	25,014	100.0	34,474	100.0	9,459	37.8
Gross profit	12,058	48.2	15,655	45.4	3,596	29.8
Operating income	5,761	23.0	8,914	25.9	3,153	54.7
Ordinary income	5,638	22.5	9,337	27.1	3,699	65.6
Net income	3,663	14.6	5,908	17.1	2,244	61.3
EPS (yen)	40.00		61.37		21.38	53.4
Capital investment	3,128		10,506		7,377	235.8
Depreciation costs	2,712		2,784		72	2.7
R&D costs	714		1,204		490	68.6

^{*} Net Income refers to net income attributable to owners of parent.

X Capital investment amounts are the amounts of tangible and intangible fixed assets acquired in the term.

^{*} We adjusted 1st-half FY ended Mar.31,2018 retroactively due to the tentative accounting process.

Performance of main group companies for 1st-half of fiscal year ending March 31, 2019

(millions of yen)

		Equity	Net s	Net sales		come
		stake	Amount	Change(%)	Amount	Change(%)
	Harmonic Drive Systems Inc.	-	25,229	40.7	5,196	43.2
*2 *5	HD Systems, Inc. (Harmonic Drive L.L.C.) (U.S.A)	100% (51%)	3,227	27.6	233	80.6
	Harmonic AD, Inc.	100%	1,595	18.3	151	20.6
*3	Harmonic Drive Systems (Shanghai) Co., Ltd.	100%	2,195	11.0	151	53.4
*4 *6	Harmonic Drive AG (Germany)	74.7%	8,050	26.3	1,309	46.7

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

^{*1} For overseas subsidiaries and affiliates, the fiscal year ends December 31.

^{*2} Exchange rates: Jan. – Jun., 2017 1US\$ = 112.37 yen, Jan. – Jun., 2018 1US\$ = 108.68 yen

^{*3} Exchange rates: Jan. – Jun., 2017 1CNY = 16.39 yen, Jan. – Jun., 2018 1US\$ = 17.09 yen

^{*4} Exchange rates: Jan. – Jun., 2017 1€ = 121.64 yen, Jan. – Jun., 2018 1€ = 131.64 yen

^{*5} Net income of US subsidiaries (consolidated) is after excluding non-controlling interests.

^{*6} Net income of German subsidiaries (consolidated) is before excluding non-controlling interests.

1st-half non-consolidated results

(millions of yen)

	1st-h FY ended M	nalf lar.31,2018	1st-half FY ending Mar.31,2019		Year-on-year change	
	Amount	Percent(%)	Amount	Percent(%)	Change	Rate(%)
Net sales	17,934	100.0	25,229	100.0	7,294	40.7
Gross profit	7,659	42.7	10,415	41.3	2,756	36.0
Operating income	5,135	28.6	7,205	28.6	2,070	40.3
Ordinary income	5,243	29.2	7,510	29.8	2,266	43.2
Net income	3,628	20.2	5,196	20.6	1,568	43.2
EPS (yen)	39.61		53.98		14.37	36.3
Capital investment	2,077		8,716		6,639	319.6
Depreciation costs	708		966		257	36.3
R&D costs	674		805		130	19.4

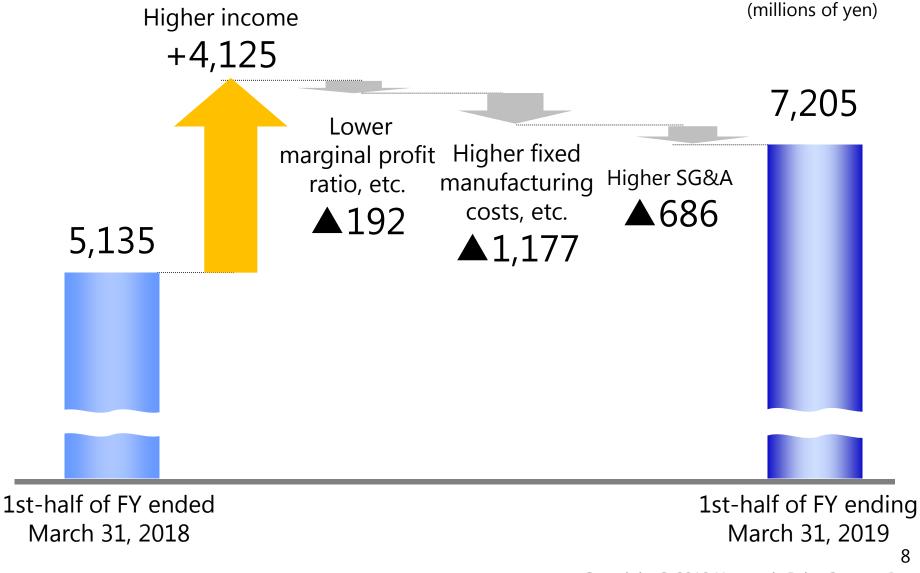
Net sales by application (non-consolidated)

(millions of yen) 30,000 25,229 25,000 21,048 3,300 449 17,934 20,000 1,320 2,575 1,210 2,230 1,137 13,904 12,843 1,076 15,000 11,892 11,848 887 968 2,276 2,123 12,941 2,326 2,230 841 820 10,000 850 615 11,457 850 650 1,122 726 9,890 6,310 6,215 5,000 4,671 5,308 1,768 1,431 1,165 1.325 719 349 844 1,383 3,341 2,237 1,797 .554 0 1st-half 2nd-half 1st-half 2nd-half 1st-half 2nd-half 1st-half FY ended Mar.31,2016 FY ended Mar.31,2017 FY ended Mar.31,2018 FY ending Mar.31,2019 Semiconductor equipment Flat panel equipment Robotics Gearbox for motor manufactures ■ Machine tools ■ Printing machines Measuring machines Optical devices Transporter

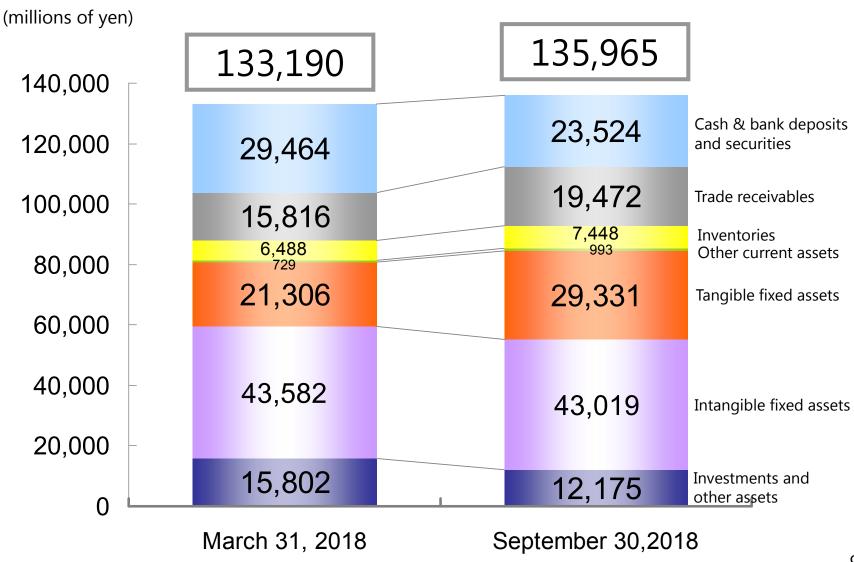
Others

■ Excavation system for the oil, etc.

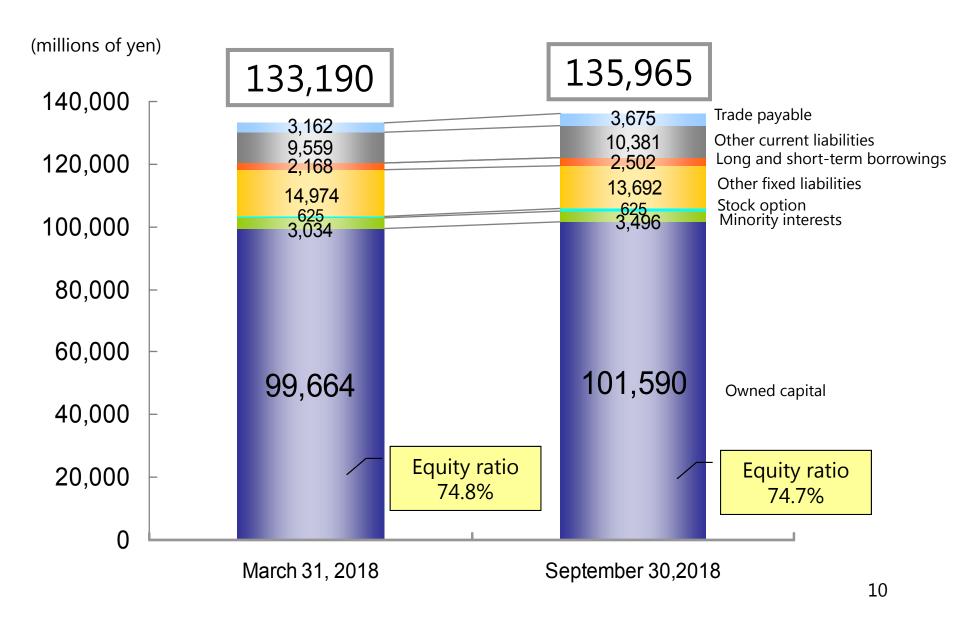
Factors in year-on-year change in 1st-half non-consolidated operating income



Status of consolidated assets



Status of consolidated liabilities and net assets



Status of consolidated cash flows

(millions of yen)	1st-half of FY ended Mar.31,2018	1st-half of FY ending Mar.31,2019
Cash flow from operating activities	1,480	3,555
Cash flow from investing activities	▲ 1,973	▲8,415
Cash flow from financing activities	▲ 1,037	▲ 1,126
Effect of exchange rate changes on cash and cash equivalents	▲ 35	▲ 168
Net increase (decrease) in cash and cash equivalents	▲ 1,566	▲ 6,156
Cash and cash equivalents at end of year	8,102	22,164