Sustainability Data

Environment

		Indicator	Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023
Total GHG	emissions		†CO₂	Consolidated	239,013	6,613,783
Scope 1		Japan			80	81
		Asia			16	14
		Europe	†CO₂	Consolidated	197	47
		North America			205	145
		Total			498	286
		Japan			13,394	15,418
		Asia			416	264
	By location	Europe	†CO₂	Consolidated	2,349	2,494
		North America			783	474
. 0		Total			16.942	18,650
Scope 2		Japan			12,360	9,839
		Asia			_	298
	By market	Europe	†CO₂	Consolidated	_	1,785
	,	North America			_	291
		Total			_	12,213
		1. Purchased goods and services			198,899	358, <i>7</i> 92
		2. Capital goods			17,054	11,237
		Fuel- and energy-related activities not included in Scope 1 or Scope 2			899	18,329
		4. Upstream transportation and distribution			3,951	8,466
		5. Waste generated in operations	⊧CO ₂	Consolidated	455	1,322
		6. Business travel			104	702
		7. Employee commuting			212	613
		8. Upstream leased assets			0	0
		Total upstream			221,574	399,461
Scope 3		Downstream transportation and distribution			_	3,83 <i>7</i>
		10. Processing of sold products			_	0
		11. Use of sold products			_	6,190,129
		12. End-of-life treatment of sold products			_	1,398
		13. Downstream leased assets			_	23
		14. Franchises	tCO₂	Consolidated	_	0
		15. Investments			_	0
		Total downstream			_	6,195,386
		16. Other (upstream)			_	0
		17. Other (downstream)			_	0
		Total			221,574	6,594,846
		Fuel consumption			22,170	1,815
Energy con	sumption	Electricity consumption	MVVh	Consolidated	20,247,207	45,780
nergy consumption		Total			20,269,377	47,595
Danawahla	energy electric	ity ratio	%	Consolidated	_	28.2

	Indicator	Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023
Total water withd	rawal	MI	0 11.1	23	31
Total water disch	(megaliters)	Consolidated	23	31	
Incineration waste			54.1	2,245	
Cafeteria waste		0 11.1	0.4	10	
Amount of genero	. †	Consolidated	54.5	2,255	
Amount of hazardous waste discharge		:		_	712
Green	Ratio of consent acquired for green procurement standards	%	NI MILL	100	100
procurement	Non-consolir		Non-consolidated	9	15
Number of companies surveyed for inclusion of environmentally hazardous substances		Company	Non-consolidated	90	95
Amount of copper usage		Thousand t	Non-consolidated	3.58	3.44
Amount of oil and grease used		Thousand t	Non-consolidated	0.09	0.14
Amount of recycled plastic raw materials used		t	Non-consolidated	17.36	6.24
100 1 4001	Certification status	Company	Consolidated	5	5
ISO 14001	Ratio of certifications acquired at sites	%	Consolidated	50	50
	dits mental audit based on the ISO 14001 standard or in accordance with environmental policy	Company	Consolidated	4	4
Ratio of sites where envi	ronmental risk assessments have been conducted among all sites	%	Non-consolidated	100	100
Violations of envi	ronmental laws and regulations	Number of cases	Non-consolidated	0	0
Accidents and pollution causing environmental issues		Number of cases	Non-consolidated	0	0
Complaints on environmental issues		Number of cases	Non-consolidated	0	0
Fine on environmental issues		Yen	Non-consolidated	0	0
Environmental	Number of participants	Person(s)	NI HILL	2	101
training	Ratio of participants to employees	%	Non-consolidated	0.5	20.6
Note: The scope of GHC	Semissions Scope 3 categories 1 A 5 A 7 and water and wast	o rolated data for t	ho fiscal waar and	od March 31 2022 is a	on a non-consolidated

Note: The scape of GHG emissions Scape 3 categories 1, 4, 5, 6, 7 and water and waste related data for the fiscal year ended March 31, 2022 is on a non-consolidated basis, and the calculation method is partially different from that for the fiscal year ended March 31, 2023. The above figures are rounded to the nearest whole number.

Social

Indicator		Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023
Number of employees (consolidated)	Entire Group	Person(s)	Consolidated	1,145	1,324
	Entire Company			412	490
Number of small and for a small date.	Male	Person(s)	Non-consolidated	352	404
Number of employees (non-consolidated)	Female		: Non-consolidated	60	86
	Ratio of female employees	%	7	14.6	17.6
Average number of temporary and contract employees	Entire Company	Person(s)	Non-consolidated	138	156
Ratio of average number of temporary employees	Entire Company	%	Non-consolidated	25.1	24.1
Average age	Entire Company	Age	Non-consolidated	41.8	41.8
Average years of service	Entire Company	Year(s)	Non-consolidated	15.1	14.4
	Entire Company			_	8
N. 1. 66	Male	Person(s)		_	3
Number of foreign employees	Female		Non-consolidated	_	5
	Ratio of foreign employees	%		_	1.6

Aspirations

Sustainability Data

Indicator		Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023
	Entire Company			6	9
Number of newly graduated recruits	Male	Person(s)	Non-consolidated	5	8
	Female	-		1	1
	Entire Company			16	13
Number of mid-career recruits	Male	Person(s)	Non-consolidated	16	10
	Female	-		0	3
	Entire Company			7.7	0.0
Retention of newly graduated recruits (turnover rate after 3 years)	Male	%	Non-consolidated	5	0.0
(iomover raie alier 3 years)	Female	-		16.7	0.0
Total turnover rate	Entire Company	%	Non-consolidated	3.7	3.0
Turnover rate for personal reasons retirees	Entire Company	%	Non-consolidated	3.7	2.8
·	Male (entire Company)			81	82
	Male (foreign nationals)	- -		0	0
Managers	Female (entire Company)	Person(s)	Non-consolidated	3	2
	Female (foreign nationals)	-		0	0
	Ratio of female managers	%		3.6	2.4
-	Male (entire Company)			12	12
	Male (foreign nationals)	-		0	0
Executive Officer	Female (entire Company)	Person(s)	Non-consolidated	1	1
	Female (foreign nationals)	7		0	0
	Ratio of female managers	%		7.7	7.7
-	Entire Company			10	11
	Male	Person(s)	Non-consolidated	8	9
Employees with disabilities	Female			2	2
	Ratio of employees with disabilities	%	2	1.85	1.83
Average monthly overtime hours/person	Entire Company	Hours	Non-consolidated	25.2	22.9
Percentage of paid leave taken		%	Non-consolidated	69.6	73.2
	Entire Company			14	9
Number of employees who took childcare leave	Male	Person(s)	Non-consolidated	10	9
chilacare leave	Female	7		4	0
Ratio of employees who took childcare leave	Male	%	Non-consolidated	55.6	56.3
Labor-management meetings	Number of meetings held	Times	Non-consolidated	12	12
Safety and Health Committee	Number of meetings held	Times	Non-consolidated	12	12
5 1	Number of meetings held	Times		20	12
Employee training on safety and health	Number of participants	Person(s)	Non-consolidated	300	162
Status of EHS risk assessments *EHS: A method of managing the environment and or an integrated manner	cupational health and safety in	Number of cases	Non-consolidated	41	30
Stress check inspection rate		%	Non-consolidated	88.6	86.0
	Number of trainings held	Times		3	3
Harassment Prevention Training	Number of participants (cumulative)	Person(s)	Non-consolidated	381	144
	Ratio of participants to employees	%		75.3	29.4
Child labor, forced labor, human trafficki		Number of cases	Consolidated	0	0
Special training (master's, doctoral, MBA, MOT, overseas tr		Person(s)	Non-consolidated	1	3

Indicator	Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023	
Number of employees taking correspond (cumulative)	Person(s)	Non-consolidated	234	131	
Certification status (including ISO 9001	Certified sites	Company	Consolidated	7	7
and other industry-specific standards) Ratio of sites certified		%	Consolidated	<i>7</i> 0	<i>7</i> 0
Number of patents held		Number of cases	Non-consolidated	951	1,004
	Community cleanups	Times		6	6
Corporate citizenship activities	Harmonic Lectures	Times		1	1
(social contribution activities)	Harmonic Concerts	Times	Non-consolidated	0	1
	Lessons in educational facilities	Times		_	3

Governance

Indicator			Unit	Scope covered	Fiscal year ended March 31, 2022	Fiscal year ended March 31, 2023
		Male	Person(s)		5	5
	Internal	Female	Person(s)	Non-consolidated	0	0
		Female ratio	%		0	0
Director		Male	Person(s)		4	4
	Outside	Female	Person(s)	Non-consolidated	0	0
		Female ratio	%		0	0
	Total		Person(s)	Non-consolidated	9	9
Ratio of Independent Outside Directors			%	Non-consolidated	44.4	44.4
Number of Board of Directors meetings			Times	Non-consolidated	1 <i>7</i>	17
Average attendance at Board of Directors in	neetings		%	Non-consolidated	99.3	99.4
	Internal				1	1
Corporate Auditor	Outside Total		Person(s)	erson(s) Non-consolidated	3	3
					4	4
Ratio of Independent Outside Corporate Au	ditors		%	Non-consolidated	50.0	50.0
Number of Board of Corporate Auditors me	etings		Times	Non-consolidated	18	18
Average attendance at Corporate Auditors	meetings		%	Non-consolidated	98.6	98.6
Number of whistleblown cases			Number of cases	Non-consolidated	1 <i>7</i>	19
Number of confirmed corruption cases			Number of cases	Non-consolidated	0	0
Fines imposed in connection with corruption			Yen	Non-consolidated	0	0
	Number of tr	ainings held	Times		_	6
Compliance trainings	Number of p	articipants	Person(s)	Non-consolidated	_	293
	Ratio of parti	cipants to employees	%	*	_	59.8
Political donations			Yen	Non-consolidated	0	0
Number of incidents of corruption and bribe	ery		Number of cases	Non-consolidated	0	0
Number of violations of antitrust laws			Number of cases	Non-consolidated	0	0
Number of information security incidents			Number of cases	Consolidated	1	0
Information security compliance ratio			%	Consolidated	97.0	96.5
Augranass training to provent	Number of	trainings held	Times		1	2
Awareness training to prevent information security breach	Number of participants (cumulative)		Person(s)) Consolidated	470	1,040
Information security due diligence performed b	y a third po	ırty	Times	Consolidated	2	2

Financial Data for the Past 11 Years

Items	Units	FY2012	FY2013	FY2014	FY2015	
Net sales	(Millions of yen)	18,130	21,083	25,951	28,278	
Cost of sales	(Millions of yen)	10,762	11,965	13,829	14,992	
Gross profit	(Millions of yen)	7,368	9,117	12,121	13,286	
Selling, general and administrative expenses	(Millions of yen)	3,931	4,449	5,054	5,667	
Operating profit or loss	(Millions of yen)	3,436	4,668	7,066	7,618	
Ordinary profit	(Millions of yen)	3,576	4,822	7,525	7,829	
Profit or loss attributable to owners of parent	(Millions of yen)	1,960	2,993	4,833	5,001	
Total assets	(Millions of yen)	36,953	38,625	49,440	48,749	
Total net assets	(Millions of yen)	25,986	30,520	37,680	38,891	
Interest bearing liabilities	(Millions of yen)	4,919	217	745	892	
Net cash	(Millions of yen)	7,068	8,870	11,402	12,014	
Equity ratio	(%)	67.5	75.9	73.3	76.1	
Cash flows from operating activities	(Millions of yen)	4,700	3,643	5,494	6,499	
Cash flows from investing activities	(Millions of yen)	3,271	(1,102)	(2,103)	(4,394)	
Free cash flows	(Millions of yen)	7,972	2,540	3,390	2,105	
Cash flows from financing activities	(Millions of yen)	(2,545)	(5,591)	(737)	(1,384)	
Cash and cash equivalents at end of period	(Millions of yen)	9,713	6,883	9,730	10,439	
Net assets per share	(Yen)	272.5	320.1	395.7	405.3	
Net profit or loss per share	(Yen)	21.4	32.7	52.8	54.6	
Dividends per share	(Yen)	7.3	9.7	14.3	18.0	
Total dividend paid	(Millions of yen)	671	885	1,312	1,648	
Dividend payout ratio	(%)	34.2	29.6	27.2	33.0	
Ratio of total amount of dividends to net assets	(%)	2.8	3.3	4.0	4.5	
Ratio of gross profit to net sales	(%)	40.6	43.2	46.7	47.0	ı
Ratio of operating profit to net sales	(%)	19.0	22.1	27.2	26.9	
ROA	(%)	5.4	7.9	11.0	10.2	
ROE	(%)	8.2	11.0	14.7	13.6	
Capital investment	(Millions of yen)	1,377	1,304	2,475	4,296	
Depreciation and amortization	(Millions of yen)	1,119	1,170	1,305	1,524	
R&D expenditure	(Millions of yen)	1,146	1,235	1,309	1,404	

Note 1: The Company conducted a 3-for-1 common stock split on October 1, 2014. However, net profit/dividend paid/net assets per share are calculated based on the assumption that the stock split was executed at the beginning of FY2012. Note 2: Depreciation and amortization represents the total depreciation and amortization expense related to property, plant and equipment and intangible assets.

						_
FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
30,069	54,339	67,809	37,487	37,034	57,087	71,527
16,202	28,636	37,363	25,484	24,451	34,661	45,741
13,866	25,703	30,446	12,003	12,582	22,426	25,786
6,052	13,386	13,821	12,198	11,716	13,686	15,561
<i>7</i> ,813	12,316	16,624	(195)	865	8,739	10,224
7,958	11,946	17,185	236	1,366	9,108	10,757
19,732	7,777	11,322	(1,095)	662	6,643	7,595
101,999	138,584	142,872	131,848	140,028	143,289	154,336
62,611	108,719	113,277	106,718	110,059	98,856	103,955
15,666	1,938	2,104	6,963	6,328	16,887	22,946
(3,569)	27,526	16,717	12,607	14,835	3,041	(2,133)
54.0	71.7	72.5	73.3	73.5	69.0	67.4
7,225	9,233	15,121	10,950	9,555	9,881	10,850
(32,522)	(8,171)	(22,399)	(12,537)	(1,230)	(4,703)	(8,663)
(25,296)	1,062	(7,277)	(1,587)	8,324	5,178	2,187
24,648	17,493	(3,271)	2,362	(6,561)	(6,663)	(1,599)
9,668	28,320	17,600	18,342	19,996	18,767	19,921
601.1	1,032.4	1,076.7	1,003.8	1,068.8	1,026.9	1,093.5
215.4	83.9	117.6	(11.4)	6.9	69.0	79.7
20.0	26.0	38.0	20.0	20.0	21.0	28.0
1,831	2,446	3,658	1,925	1,925	2,021	2,661
9.3	31.5	32.3	_	290.6	30.4	35.1
4.0	3.2	3.6	1.9	1.9	2.0	2.6
46.1	47.3	44.9	32.0	34.0	39.3	36.1
26.0	22.7	24.5	(0.5)	2.3	15.3	14.3
26.2	6.5	8.1	(O.8)	0.5	4.7	5.1
42.8	10.1	11.2	(1.1)	0.7	6.6	7.5
4,576	8,757	23,876	7,892	1,959	5,690	9,236
1,774	5,164	5,566	6,826	6,464	7,278	8,520
1,383	2,114	2,476	2,195	2,444	3,012	3,274

Consolidated Balance Sheets

	(Millions of yen)
	As of March 31, 2023
ssets	
Current assets	
Cash and deposits	20,783
Notes receivable - trade	7,408
Accounts receivable - trade	10,165
Securities	28
Merchandise and finished goods	2,014
Work in process	3,658
Raw materials and supplies	6,828
Other	1,307
Allowance for doubtful accounts	(19)
Total current assets	52,175
Non-current assets	
Property, plant and equipment	
Buildings and structures	27,102
Accumulated depreciation	(7,679)
Buildings and structures, net	19,423
Machinery, equipment and vehicles	41,046
Accumulated depreciation	(23,709)
Machinery, equipment and vehicles, net	17,337
Tools, furniture and fixtures	9,579
Accumulated depreciation	(7,735)
Tools, furniture and fixtures, net	1,843
Land	3,329
Leased assets	6,253
Accumulated depreciation	(2,100)
Leased assets, net	4,153
Construction in progress	2,766
Other	821
Accumulated depreciation	(747)
Other, net	73
Total property, plant and equipment	48,926
Intangible assets	
Goodwill	15,258
Software	191
Customer related assets	19,489
Technical assets	5,205
Other	18 <i>7</i>
Total intangible assets	40,332
Investments and other assets	
Investment securities	11,044
Shares of subsidiaries and associates	89
Retired benefit asset	1,191
Deferred tax assets	439
Other	141
Allowance for doubtful accounts	(5)
Total investments and other assets	12,901
Total non-current assets	102,160
Total assets	154,336

	(Millions of yen)
	As of March 31, 2023
Liabilities	
Current liabilities	
Notes and accounts payable - trade	3,596
Contract liabilities	267
Short-term borrowings	2,610
Current portion of long-term borrowings	2,569
Lease liabilities	583
Income taxes payable	1,046
Provision for bonuses	1,471
Provision for bonuses for directors (and other officers)	351
Provision for loss on compensation for after-care of products	64
Other	3,906
Total current liabilities	16,467
Non-current liabilities	
Long-term borrowings	17,766
Lease liabilities	3,836
Deferred tax liabilities	10,003
Provision for retirement benefits for directors (and other officers)	12
Provision for operating officers' retirement benefits	80
Retirement benefit liability	750
Other	1,463
Total non-current liabilities	33,913
Total liabilities	50,380
Net assets	,
Shareholders' equity	
Share capital	7,100
Capital surplus	22,773
Retained earnings	64,852
Treasury shares	(4,978)
Total shareholders' equity	89,747
Accumulated other comprehensive income	
Valuation difference on available-for-sale securities	5,845
Foreign currency translation adjustment	8,146
Remeasurements of defined benefit plans	216
Total accumulated other comprehensive income	14,207
Total net assets	103,955
Total liabilities and net assets	154,336
	. 2 1,000

Consolidated Statement of Income

	(Millions of yen)
For the fiscal	year ended of March 31, 2023
Net sales	71,527
Cost of sales	45,741
Gross profit	25,786
Selling, general and administrative expenses	15,561
Operating profit	10,224
Non-operating income	
Interest income	14
Dividend income	268
Foreign exchange gains	275
Subsidy income	245
Other	212
Total non-operating income	1,016
Non-operating expenses	
Commission for purchase of treasury shares	116
Interest expenses	166
Share of loss of entities accounted for using equity method	0
Foreign exchange losses	-
Rental expenses	144
Other	55
Total non-operating expenses	484
Ordinary profit	10,757
Extraordinary income	
Gain on sale of non-current assets	1
Gain on sale of investment securities	-
Subsidy income	2
Total extraordinary income	3
Extraordinary losses	
Loss on sale of non-current assets	-
Loss on retirement of non-current assets	63
Loss on tax purpose reduction entry of non-current assets	2
Special extra for retirement payments	501
Total extraordinary losses	567
Profit before income taxes	10,194
Income taxes - current	3,089
Income taxes - deferred	(491)
Total income taxes	2,598
Profit	7,595
Profit attributable to non-controlling interests	
Profit attributable to owners of parent	7,595

Consolidated Statement of Comprehensive Income

Comprehensive income	(Millions of yen)
For the fiscal ye	ar ended March 31, 2023
Profit	7,595
Other comprehensive income	
Valuation difference on available-for-sale securities	(66)
Foreign currency translation adjustment	4,392
Remeasurements of defined benefit plans, net of tax	209
Total other comprehensive income	4,536
Comprehensive income	12,132
Comprehensive income attributable to	
Comprehensive income attributable to owners of parent	12,132
Comprehensive income attributable to non-controlling interests	_

Consolidated Statements of Cash Flows

	/en)

	For the fiscal year ended of March 31, 2023
Cash flows from operating activities	
Profit before income taxes	10,194
Depreciation	8,520
Amortization of goodwill	1,054
Increase (decrease) in allowance for dou	ubtful accounts (4)
Increase (decrease) in retirement benef	it liability (381)
Increase (decrease) in provision for retirement benefits for director	ors (and other officers) (478)
Increase (decrease) in provision for operating officers'	
Increase (decrease) in provision for bonuses for directors	(and other officers) 40
Increase (decrease) in provision for loss on compensation for	aftercare of products (1)
Interest income	(14)
Dividend income	(268)
Interest expenses	166
Share of loss(profit) of entities accounted for usin	g equity method O
Subsidy income	(2)
Loss (gain) on sale of investment se	curities –
Loss (gain) on sale of non-current a	
Loss on retirement of non-current as	
Loss on tax purpose reduction entry of nor	
Decrease (increase) in trade receiv	
Decrease (increase) in inventories	(2,540)
Increase (decrease) in trade payab	
Other, net	1,347
Subtotal	15,551
Interest and dividends received	283
Subsidies received	2
Interest paid	(1 <i>77</i>)
Income taxes paid	(4,967)
Income taxes refund	158
Net cash provided by (used in) opera	
Cash flows from investing activities	
Purchase of property, plant and eq	quipment (8,838)
Proceeds from sale of property, plant a	
Purchase of intangible assets	(229)
Proceeds from sale of investment se	
Payments into time deposits	(1,701)
Proceeds from withdrawal of time	
Payments of leasehold and guaran	
Proceeds from refund of leasehold and guar	
Other, net	0
Net cash provided by (used in) invest	
Cash flows from financing activities	(0,000)
Proceeds from short-term borrowing	gs 9,910
Repayments of short-term borrowing	,
Proceeds from long-term borrowing	
Repayments of long-term borrowin	
Repayments of lease liabilities	(551)
Purchase of treasury shares	(5,000)
Dividends paid	(2,105)
Dividends paid to non-controlling	
Net cash provided by (used in) finance	
Effect of exchange rate change on cash and or	
Effect of exchange rate change on cash and cash. Net increase (decrease) in cash and cas	
Cash and cash equivalents at beginnin	
Cash and cash equivalents at beginnin Cash and cash equivalents at end c	
Casir and casir equivalents at end o	19,921

Global Network

Establishing a global supply network of high-quality product lineups

The HDS Group has production bases in Japan, Germany, the U.S., and South Korea and also conducts development in Japan, Germany, and the U.S. The Company provides sales and technological services in Japan and the Asian region, while the German consolidated subsidiary, Harmonic Drive SE and its eight consolidated subsidiaries are in charge of Europe, Middle East, Africa, India, and South America. Harmonic Drive L.L.C., the U.S. subsidiary, covers North America. The Chinese consolidated subsidiary, Harmonic Drive Systems (Shanghai) Co., Ltd., provides sales and technological services to the Chinese market. The South Korean subsidiary, SAMDICK ADM CO., LTD., manufactures Precision planetary speed reducers.



No. of employees

Group companies

Corporate Inform	mation (As of March 31, 2023)
Corporate Name	Harmonic Drive Systems Inc.
Location of head office	6-25-3 Minami-Oi, Shinagawa-ku, Tokyo 140-0013, Japan
TEL	+81-3-5471-7800
Corporate website	https://www.hds.co.jp/english/#1
Founded	October 27, 1970
Listed stock exchange	Tokyo Stock Exchange (Standard Market) Securities code: 6324
Business domain	Development, production, and sales of precision speed reducers and applied mechatronics products (actuators and motion control equipment)
Fiscal year end	March
Share capital	¥7,100,036,369
Net sales	Consolidated: ¥71.5 billion Non-consolidated: ¥50.8 billion

Consolidated: 1,324

Non-consolidated: 490

Consolidated subsidiaries: 18, Equity-method affiliates: 1

Major Offices and Factories				
Name	Location			
Head Office	Shinagawa-ku, Tokyo, Japan			
Tokyo Office	Shinagawa-ku, Tokyo, Japan			
Kohshin Office	Azumino-shi, Nagano, Japan			
Chubu Office	nubu Office Meito-ku, Nagoya-shi, Aichi, Japan			
Kansai Office Yodogawa-ku, Osaka-shi, Osaka, Japan				
Kyushu Office	Hakata-ku, Fukuoka-shi, Fukuoka, Japan			
Taiwan Representative Office	Taipei City, Taiwan (R.O.C.)			
Hotaka Factory	Azumino-shi, Nagano, Japan			
Ariake Factory	Azumino-shi, Nagano, Japan			
Matsumoto-shi, Nagano, Japan				
Komagane Factory	Komagane-shi, Nagano, Japan			

Name of consolidated subsidiary	Percentage of voting rights	Location	Business domain
HD Logistics, Inc.	100.0%	Azumino-shi, Nagano, Japan	Logistics
Harmonic Precision Inc.	100.0%	Matsumoto-shi, Nagano, Japan	Production and processing of cross roller bearings
Harmonic AD, Inc.	100.0%	Azumino-shi, Nagano, Japan	Production of Precision planetary speed reducers
Harmonic Winbel Inc.	100.0%	Komagane-shi, Nagano, Japan	Development, mass production support, manufacturing and sales of various motors
HD Systems, Inc.*	100.0%	Beverly, Massachusetts, U.S.A.	Investment in Harmonic Drive L.L.C., research and study of speed reducers and mechatronics products
Harmonic Drive L.L.C.*	100.0%	Beverly, Massachusetts, U.S.A.	Development and production of speed reducers and mechatronics products, and sales in North America region
Harmonic Drive Systems (Shanghai) Co., Ltd.*	100.0%	Shanghai, China	Sales and technical services of speed reducers and mechatronics products
SAMICK ADM CO., LTD.*	51.0% (51.0%)	Dalseong-gun, Daegu, South Korea	Production of Precision planetary speed reducers
GK HD Managemeni*	100.0%	Shinagawa-ku, Tokyo, Japan	Holding company for the purpose of investment in Harmonic Drive SE
Harmonic Drive SE and 8 consolidated subsidiaries*	100.0%(63.2%)	Limburg a.d. Lahn, Hessen, Germany	Development and production of speed reducers and mechatronics products, and sales in Europe, Middle East, Africa, India and South America region

Note 1: Fiscal year ends on December 31 for the consolidated subsidiaries marked with *.

Note 2: Percentage of voting rights () indicates the percentage of indirect ownership.

Note 3: Harmonic Winbel Inc. changed its name from Winbel Co., Ltd. as of April 1, 2023.

Name of equity-method company	Percentage of voting rights	Location	Business domain
Ome Iron Casting Co., Ltd.	49.2%	Nishitama-gun, Tokyo, Japan	Development, production, and sales of high-strength cast-iron products

HDS Report 2023 Editors

Corporate Planning Division Corporate Planning & Investor Relations Secretariat, Sustainability Committee



Kazuha Yamakawa

Makiko Ono

Aoi Ando

<From the editors>

Thank you for reading the HDS REPORT 2023. This is the first integrated report for our Company. The content is designed to introduce the voices of the frontline in an easy-to-understand manner, including the management philosophy, value creation process, top management message, messages from each executive in charge, roundtable discussions among employees as well as among Outside Directors. We hope that this report will help you deepen your understanding of the HDS Group and look forward to the realization of our vision. We also hope that the report will stimulate our dialogue with all of our stakeholders.

Stock Information

Stock Information (As of March 31, 2023)

Total number of shares authorized to be issued 356,400,000 shares Total number of issued and outstanding shares 96,315,400 shares Number of shareholders 9,053

Fiscal year From April 1 of each year to March 31 of the following year

Ordinary General Meeting of Shareholders Held in June every year

Record date March 31 Interim dividend September 30

Transfer agent 1-3-3, Marunouchi, Chiyoda-ku, Tokyo 100-8241 Japan

Special account manager Mizuho Trust & Banking Co., Ltd.

Handling office 1-3-3, Marunouchi, Chiyoda-ku, Tokyo 100-8241 Japan

Stock Transfer Agency Department, Head Office,

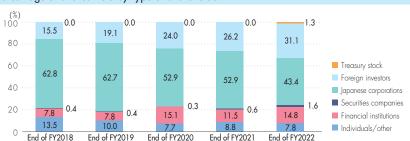
Mizuho Trust & Banking Co., Ltd.

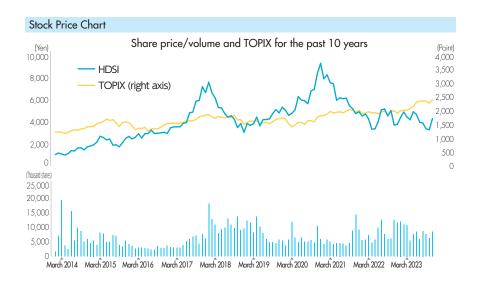
Status of Major Shareholders

Name of shareholder	No. of shares held (thousand)	Shareholding ratio (%)
KODEN Holdings Co., Ltd.	33,490	35.2
SSBTC CLIENT OMNIBUS ACCOUNT	6,436	6.8
The Master Trust Bank of Japan, Ltd. (Trust Account)	4,576	4.8
Toyota Motor Corporation	4,379	4.6
Norimitsu Ito	3,041	3.2
Custody Bank of Japan, Ltd. (Trust Account)	2,970	3.1
Control trust (AO30) trustee SMBC Trust Bank Ltd.	2,176	2.3
The Nomura Trust and Banking Co., Ltd. (Trust Account)	2,000	2.1
J.P.MORGAN BANK LUXEMBOURG S.A. 381572	1,786	1.9
STATE STREET BANK WEST CLIENT-TREATY 505234	1,223	1.3
Total	62,080	65.2

Note: The shareholding ratios noted above are calculated excluding treasury stock.

Percentage of Shares Held by Type of Shareholder





Comparison of Stock Performance (TSR: Total Shareholder Return, %)						
Investment period	1 year (March 31, 2022 - March 31, 2023)	3 years (March 31, 2020- March 31, 2023)	5 years (March 31, 2018 - March 31, 2023)	10 years (March 31, 2013 - March 31, 2023)		
Harmonic Drive Systems Inc.	4.8	-5.5	-26.0	718.3		
TOPIX	5.8	53.4	31.8	142.1		
TOPIX Sector Indices	8.6	67.1	29.3	152.6		

Note: The table above shows the cumulative return on investment including dividends as of March 31, 2023, if investments were made 1, 3, 5, and 10 years ago.

Stock Price Valuation					
	FY2018	FY2019	FY2020	FY2021	FY2022
Stock price at end of term (Yen)	3,790	4,725	7,480	4,220	4,395
PBR (Times)	3.5	4.7	7.0	4.1	4.0
ROE (Times)	11.2	-1.1	0.7	6.6	7.5
PER (Times)	32.2	-415.2	1,087.2	61.1	55.2
Dividend yield (%)	1.0	0.4	0.3	0.5	0.6
Market capitalization at end of period (Billions of yen)	365.0	455.1	720.4	406.5	423.3