Environmental data per business site

Kokubu Plant

No. of employees
1,808

Produced products
- Various ball bearings, roller bearings
- Ultra large bearings
- Hub units
- High precision bearings

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	971,510
		Water usage	(m³)	408,263
		Amount of chemicals handled	(t)	17.429
Output	Atmosphere	Greenhouse gas	(t-CO₂)	39,510
		Release of chemicals into atmosphere	(t)	2.536
	Sewage	Wastewater	(m³)	192,263
		BOD	(kg)	4,800
		Nitrogen	(kg)	—
		Phosphorus	(kg)	—
		Amount of chemicals transferred to sewage	(t)	0.068
	Discharge	Recycling for profit	(t)	3,100
		Recycling at a charge	(t)	1,482
		Waste	(t)	0
		Chemical transfer amount	(t)	4.842

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.0	7.5	6.9
COD	—	—	—
BOD	480	61	21
SS	480	19	4.6
Oil	4	3.4	1.7
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	—	—	—
Phosphate	—	—	—

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boilers (for forging)	Dust	0.20	0.003
	NOx	144	54
	SOx	1.4	—

Unit: Dust = g/m3N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	59	58	52
	Day	64	62	54
	Evening	59	55	51
	Night	54	53	50
Vibration	Morning	63	40	26
	Day	58	27	23

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Ammonia	0.8	0.18

* Measured foul odor substances (22)
* Items not listed were lower than the determination limit

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
1	Water-soluble zinc compound	9,610	—	—	—	19	942	—	—	8,649
16	2-aminoethanol	3,148	—	—	—	9	3,139	—	—	—
63	Xylene	2,238	2,238	—	—	—	—	—	—	—
311	Manganese and its compounds	1,618	—	—	—	30	585	—	—	1,003

Kariya Plant

No. of employees
1,102

Produced products
- Machine tools
- Damper pulleys
- Machined parts

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	212,822
		Water usage	(m³)	151,842
		Amount of chemicals handled	(t)	4.095
Output	Atmosphere	Greenhouse gas	(t-CO₂)	8,580
		Release of chemicals into atmosphere	(t)	3.488
	Waterways	Wastewater	(m³)	176,983
		COD	(kg)	601
		Nitrogen	(kg)	815
		Phosphorus	(kg)	5
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	1,127
		Recycling at a charge	(t)	208
		Waste	(t)	35
		Chemical transfer amount	(t)	0

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.4	7.2	6.8
COD	(11.2)	5.3	3.7
BOD	(20)	12	5.8
SS	(20)	5.8	2.2
Oil	4	1.2	0.37
Zinc	1.6	0.05	0.03

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	4	ND	ND
Soluble manganese	1.6	ND	ND
Fluorine	4	0.14	0.07
Nitrogen	(13.8)	12	6.5
Phosphate	(1.4)	0.10	0.07
Boron	10	0.02	0.015

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boilers (for canteen)	Dust	0.1	0.003
	NOx	104	64
	SOx	1.2	—
Boilers (cold/hot water generator)	Dust	0.1	—
	NOx	104	41
	SOx	1.2	—

Unit: Dust = g/m³N, NOx = ppm, Sox = m³N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	56	48
	Day	69	63	56
	Evening	64	60	48
	Night	59	57	49
Vibration	Morning	68	48	32
	Day	63	37	27

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	12	Less than 10

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
63	Xylene	1,263	1,210	—	—	—	—	—	—	53
227	Toluene	2,615	2,100	—	—	—	—	—	—	515

[Chemical substances] Substances subject to PRTR
[Atmosphere] Measured values are maximum values
[Water quality] **pH:** Hydrogen-ion concentration / **COD:** Chemical Oxygen Demand / **BOD:** Biochemical oxygen demand / **SS:** Suspended solids / **Oil:** N-hexane extract content / **ND:** Lower than determination limit / Values in parenthesis show the avg. no. of days
[Regulated value] JTEKT internal standards (some more stricter than regulatory amounts)

[Substances subject to PRTR] Shows substances for which 1,000 kg/year or more are handled. Substance number shows the legislative number for each of the No. 1 type chemical substances of the PRTR regulation. Removal processing amount is the amount of substances subject to PRTR which are incinerated, neutralized, broken down, put through reaction treatment, etc., within JTEKT premises. Consumed amount is the amount of substances subject to PRTR which are changed to another substance through reaction treatment, or removed from JTEKT premises in, or attached to, products.

Tokushima Plant

No. of employees
1,014

Produced products
- Ball bearings
- Water pump bearings
- Cylindrical roller bearings
- Special environment bearings

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	946,229
		Water usage	(m^3)	1,168,974
		Amount of chemicals handled	(t)	7.463
Output	Atmosphere	Greenhouse gas	(t-CO_2)	38,912
		Release of chemicals into atmosphere	(t)	3.644
	Waterways	Wastewater	(m^3)	193,850
		COD	(kg)	3,427
		Nitrogen	(kg)	3,403
		Phosphorus	(kg)	8
		Amount of chemicals released in waterways	(t)	0.001
	Discharge	Recycling for profit	(t)	5,490
		Recycling at a charge	(t)	1,268
		Waste	(t)	52
		Chemical transfer amount	(t)	0.240

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.2	7.1	6.8
COD	16	14	11
BOD	—	—	—
SS	20	7.0	2
Oil	2.4	2.1	1.0
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	48	6.1	4.5
Phosphate	6.4	0.08	0.05

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boilers (for heaters)	Dust	0.3	0.030
	NOx	250	140
	SOx	13	0.12
Boilers (suction-type cold/ hot water generator)	Dust	0.3	0.002
	NOx	180	24
	SOx	13	0.03
Diesel engines	Dust	0.1	0.019
	NOx	903	900
	SOx	21	0.1

Unit: Dust = g/m^3N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	59	58	56
	Day	64	62	58
	Evening	59	56	52
	Night	55	55	52
Vibration	Morning	63	54	45
	Day	58	46	41

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Ammonia	1.2	0.23

* Measured foul odor substances (22)
* Items not listed were lower than the determination limit

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
16	2-aminoethanol	3,819	—	1	—	—	240	—	—	3,578
63	Xylene	3,250	3,250	—	—	—	—	—	—	—

Okazaki Plant

No. of employees
623

Produced products
- Produced products
- Power steering gears
- AT/CVT proportional control valves
- Propeller shafts
- ITCCs
- Forged parts

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	515,095
		Water usage	(m^3)	393,733
		Amount of chemicals handled	(t)	0.762
Output	Atmosphere	Greenhouse gas	(t-CO_2)	17,772
		Release of chemicals into atmosphere	(t)	0.658
	Waterways	Wastewater	(m^3)	59,202
		COD	(kg)	185
		Nitrogen	(kg)	340
		Phosphorus	(kg)	1
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	3,115
		Recycling at a charge	(t)	2,734
		Waste	(t)	2
		Chemical transfer amount	(t)	0

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.4	7.4	7.0
COD	16	3.9	2.5
BOD	16	7.5	2.3
SS	16	2.0	1.1
Oil	1.6	0.60	0.37
Zinc	0.8	0.05	0.05

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	2.4	0.50	0.48
Soluble manganese	2.4	0.25	0.24
Fluorine	0.8	0.10	0.08
Nitrogen	(12)	8.4	2.5
Phosphate	(1.6)	0.05	0.01
Boron	8	0.01	0.01

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boilers (for enrichment apparatus)	Dust	0.1	—
	NOx	104	—
	SOx	6.1	—
Boilers (for air conditioning)	Dust	0.1	0.003
	NOx	104	47
	SOx	6.1	—
Melting furnace	Dust	0.1	0.005
	NOx	80	10
	SOx	6.1	—
Gas engines (cogeneration)	Dust	0.04	0.005
	NOx	160	90
	SOx	6.1	—

Unit: Dust = g/m^3N, NOx = ppm, Sox = m^3N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	57	52
	Day	69	59	54
	Evening	64	59	51
	Night	59	58	51
Vibration	Morning	68	39	33
	Day	63	35	31

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	12	Less than 10

Substances subject to PRTR

* No substances had handling amounts of over 1,000 kg/year

Environmental data per business site

Tokyo Plant

No. of employees
373

Produced products
- Needle roller bearings
- Constant-velocity joints
- Drive shafts
- Propeller shafts

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	273,167
		Water usage	(m³)	68,985
		Amount of chemicals handled	(t)	7.877
Output	Atmosphere	Greenhouse gas	(t-CO_2)	10,796
		Release of chemicals into atmosphere	(t)	5.253
	Sewage	Wastewater	(m³)	49,640
		BOD	(kg)	227
		Nitrogen	(kg)	668
		Phosphorus	(kg)	24
		Amount of chemicals transferred to sewage	(t)	0.007
	Discharge	Recycling for profit	(t)	2,088
		Recycling at a charge	(t)	504
		Waste	(t)	0
		Chemical transfer amount	(t)	1.283

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.8~8.0	7.9	7.5
COD	—	—	—
BOD	150	31	4.3
SS	200	21	7.7
Oil	20	2.0	0.33
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	96	18	10
Phosphate	12.8	0.48	0.23

Atmospheric measurements

Equipment	Item	Regulation	Max.
Gas suction-type boiler	Dust	0.1	0.001
	NOx	44	35
	SOx	0.3	0.01

Unit: Dust = g/m³N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	59	58	56
	Day	69	68	64
	Evening	59	58	57
	Night	54	53	52
Vibration	Morning	58	48	38
	Day	48	46	36

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Acetaldehyde	0.5	0.005

* Measured foul odor substances (22)
* Items not listed were lower than the determination limit

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
1	Water-soluble zinc compound	1,025	—	—	—	2	100	—	—	923
16	2-aminoethonyl	1,086	—	—	—	3	1,083	—	—	—
63	Xylene	1,438	1,438	—	—	—	—	—	—	—
227	Toluene	3,716	3,716	—	—	—	—	—	—	—

Kagawa Plant

No. of employees
558

Produced products
- Tapered roller bearings

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	780,692
		Water usage	(m³)	315,948
		Amount of chemicals handled	(t)	1.952
Output	Atmosphere	Greenhouse gas	(t-CO_2)	31,864
		Release of chemicals into atmosphere	(t)	1.881
	Waterways	Wastewater	(m³)	211,227
		COD	(kg)	3,533
		Nitrogen	(kg)	1,294
		Phosphorus	(kg)	50
		Amount of chemicals released in waterways	(t)	0.003
	Discharge	Recycling for profit	(t)	6,280
		Recycling at a charge	(t)	683
		Waste	(t)	44
		Chemical transfer amount	(t)	0.061

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.8~8.6	6.7	6.4
COD	50	30	15
BOD	50	37	27
SS	50	10	6.8
Oil	3	2.6	1.5
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	60	13.5	7.4
Phosphate	8	1.85	0.37

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boiler no. 1	Dust	0.3	0.05
	NOx	260	75
	SOx	5.0	2.2
Boiler no. 2	Dust	0.3	0.01
	NOx	250	86
	SOx	5.0	0.13
Self-generated electricity	Dust	0.1	0.03
	NOx	950	870
	SOx	5.0	0.79

Unit: Dust = g/m³N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	59	56
	Day	69	64	58
	Evening	64	60	56
	Night	59	58	55
Vibration	Morning	49	33	27
	Day	46	31	27

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Ammonia	5	0.21
Acetaldehyde	0.5	0.0044

* Measured foul odor substances (22)
* Items not listed were lower than the determination limit

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
63	Xylene	1,881	1,881	—	—	—	—	—	—	—

Nara Plant

No. of employees

1,481

Produced products

- Electric power steering
- Hydraulic power steering
- Manual steering

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	228,577
		Water usage	(m^3)	74,825
		Amount of chemicals handled	(t)	11.570
Output	Atmosphere	Greenhouse gas	(t-CO_2)	8,955
		Release of chemicals into atmosphere	(t)	11.320
	Waterways	Wastewater	(m^3)	23,180
		COD	(kg)	250
		Nitrogen	(kg)	782
		Phosphorus	(kg)	87
		Amount of chemicals released in waterways	(t)	0.001
	Discharge	Recycling for profit	(t)	1,045
		Recycling at a charge	(t)	760
		Waste	(t)	0
		Chemical transfer amount	(t)	0.245

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.5	7.3	7.0
COD	13.5	9.6	7.6
BOD	13.5	1.2	0.79
SS	20	1.2	0.56
Oil	2.7	1.4	0.58
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	0.9	0.07	0.03
Soluble manganese	0.9	0.08	0.04
Fluorine	—	—	—
Nitrogen	40	37	23
Phosphate	15	3.3	2.7

Atmospheric measurements

Equipment	Item	Regulation	Max.
No. 1 Plant, No. 1 (boiler)	Dust	0.3	0.013
	NOx	180	73
	SOx	1.9	0.01
No. 1 Plant, No. 2 (boiler)	Dust	0.3	0.01
	NOx	180	51
	SOx	1.9	0.016
No. 2 Plant (cool water generator)	Dust	0.3	0.004
	NOx	180	64
	SOx	0.7	0.014
No. 4 Plant (cool water generator)		Operation stop	

Unit: Dust = g/m^3N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	61	55
	Day	67	63	58
	Evening	64	59	54
	Night	55	53	51
Vibration	Morning	60	35	33
	Day	55	33	32

Foul odor

*Measured foul odor substances (22), and all items were lower than the determination limit

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
63	Xylene	8,663	8,663	—	—	—	—	—	—	—
227	Toluene	2,495	2,495	—	—	—	—	—	—	—

Higashi-Kariya Plant

No. of employees

150

Produced products

- Mechatronics products
- Propeller shafts
- Machined parts

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	62,561
		Water usage	(m^3)	12,771
		Amount of chemicals handled	(t)	0.014
Output	Atmosphere	Greenhouse gas	(t-CO_2)	2,525
		Release of chemicals into atmosphere	(t)	0.001
	Waterways	Wastewater	(m^3)	8,985
		COD	(kg)	39
		Nitrogen	(kg)	28
		Phosphorus	(kg)	0
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	1,419
		Recycling at a charge	(t)	42
		Waste	(t)	0
		Chemical transfer amount	(t)	0

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	6.1~8.3	8.1	7.6
COD	(23.2)	4.6	3.3
BOD	(20)	5.8	2.3
SS	20	2.8	1.3
Oil	4	1.8	0.45
Zinc	1.6	0.05	0.04

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	4	0.50	0.48
Soluble manganese	1.6	0.25	0.18
Fluorine	5	0.20	0.09
Nitrogen	(26.9)	3.5	2.5
Phosphate	(2.6)	0.27	0.11
Boron	10	0.04	0.02

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boiler (cool water generator)	Dust	0.15	ND
	NOx	130	77
	SOx	0.57	ND

Unit: Dust = g/m^3N, NOx = ppm, Sox = m^3N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	61	56
	Day	69	62	57
	Evening	64	61	54
	Night	59	58	50
Vibration	Morning	68	37	35
	Day	63	30	26

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	12	Less than 10

Substances subject to PRTR

* No substances had handling amounts of over 1,000 kg/year

Environmental data per business site

Toyohashi Plant

No. of employees
593

Produced products
- Hydraulic power steering
- Hoses for hydraulic power steering
- Manual steering
- Safety handle columns

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	296,825
		Water usage	(m³)	47,821
		Amount of chemicals handled	(t)	1.331
Output	Atmosphere	Greenhouse gas	(t-CO_2)	11,965
		Release of chemicals into atmosphere	(t)	1.185
	Waterways	Wastewater	(m³)	20,391
		COD	(kg)	171
		Nitrogen	(kg)	583
		Phosphorus	(kg)	83
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	2,575
		Recycling at a charge	(t)	521
		Waste	(t)	0
		Chemical transfer amount	(t)	0.106

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	6.1～8.0	7.2	6.7
COD	16	15	9.8
BOD	16	5.3	2.3
SS	24	18	6.4
Oil	4	ND	ND
Zinc	—	—	—

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	48	37	29
Phosphate	6.4	5.1	4.1

Atmospheric measurements

Equipment	Item	Regulation	Max.
No. 1 Plant (boiler)	Dust	0.03	0.002
	NOx	120	22
	SOx	1.0	0.03
No. 2 Plant (cool water generator)	Dust	0.03	0.003
	NOx	120	24
	SOx	1.0	0.03
No. 3 Plant (cool water generator)	Dust	0.10	0.027
	NOx	140	62
	SOx	1.0	0.12

Unit: Dust = g/m³N, NOx = ppm, Sox = K value

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	65	58	55
	Day	70	61	57
	Evening	65	57	54
	Night	60	59	52
Vibration	Morning	55	36	31
	Day	50	28	24

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	18	Less than 10

Substances subject to PRTR

Unit: kg/year

Substance No.	Chemical Substance	Handled amount	Discharge: Atmosphere	Discharge: Waterways	Discharge: Soil	Transferred amount: Sewage	Transferred amount: Waste	Recycled	Removed	Consumed
63	Xylene	1,076	1,076	—	—	—	—	—	—	—

Tadomisaki Plant

No. of employees
762

Produced products
- Drive shafts
- 4WD couplings

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	631,171
		Water usage	(m³)	161,678
		Amount of chemicals handled	(t)	0.530
Output	Atmosphere	Greenhouse gas	(t-CO_2)	24,891
		Release of chemicals into atmosphere	(t)	0.063
	Waterways	Wastewater	(m³)	50,238
		COD	(kg)	87
		Nitrogen	(kg)	388
		Phosphorus	(kg)	1
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	7,130
		Recycling at a charge	(t)	622
		Waste	(t)	0
		Chemical transfer amount	(t)	0.037

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	6.0～8.5	7.7	7.2
COD	(15)	10.3	5.6
BOD	(10)	2.7	0.96
SS	(20)	2.8	1.2
Oil	2	0.50	0.50
Zinc	2	0.06	0.05

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	1	0.50	0.30
Soluble manganese	2	0.25	0.16
Fluorine	5	0.20	0.20
Nitrogen	(34.8)	13	8.8
Phosphate	(3.6)	0.02	0.01
Boron	10	0.1	0.1

Atmospheric measurements

Equipment	Item	Regulation	Max.
Boiler (cool water generator)	Dust	0.1	0.001
	NOx	120	52
	SOx	2	0.5

Unit: Dust = g/m³N, NOx = ppm, Sox = m³N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	58	55
	Day	69	59	57
	Evening	64	58	56
	Night	59	58	56
Vibration	Morning	55	45	41
	Day	50	45	41

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	16	14

Substances subject to PRTR

* No substances had handling amounts of over 1,000 kg/year

Hanazono Plant

No. of employees
1,001

Produced products
- Electric power steering
- Hydraulic power steering pumps
- Control computers

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	286,620
		Water usage	(m^3)	114,630
		Amount of chemicals handled	(t)	1.646
Output	Atmosphere	Greenhouse gas	($t\text{-}CO_2$)	11,815
		Release of chemicals into atmosphere	(t)	0.825
	Waterways	Wastewater	(m^3)	68,753
		COD	(kg)	261
		Nitrogen	(kg)	668
		Phosphorus	(kg)	1
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	708
		Recycling at a charge	(t)	362
		Waste	(t)	31
		Chemical transfer amount	(t)	0.157

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.3	7.9	7.4
COD	8	5.9	3.4
BOD	8	5.1	1.5
SS	8	2.3	1.2
Oil	1.6	1.0	1.0
Zinc	0.8	0.05	0.05

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	2.4	0.50	0.47
Soluble manganese	2.4	0.32	0.24
Fluorine	0.8	0.1	0.1
Nitrogen	(24)	20	14
Phosphate	(2.4)	0.04	0.03
Boron	8	1.0	1.0

Atmospheric measurements

Equipment	Item	Regulation	Max.
Small through flow boiler	Dust	0.08	0.002
	NOx	100	37
	SOx	6.07	0.01
Boilers (cool water generator)	Dust	0.08	0.002
	NOx	100	53
	SOx	6.07	0.01

Unit: Dust = g/m^3N, NOx = ppm, Sox = m^3N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	60	47	45
	Day	60	59	50
	Evening	60	51	47
	Night	56	48	45
Vibration	Morning	60	38	33
	Day	56	41	37

Foul odor

Unit: ppm

Measured item	Regulated value	Measurement
Foul odor index	14	Less than 10

Substances subject to PRTR
* No substances had handling amounts of over 1,000 kg/year

Kameyama Plant

No. of employees
232

Produced products
- Ball bearings
- Clutch bearings

Overall environmental data

		Classification		Amount
Input		Energy usage	(GJ)	139,873
		Water usage	(m^3)	24,482
		Amount of chemicals handled	(t)	0.660
Output	Atmosphere	Greenhouse gas	($t\text{-}CO_2$)	5,620
		Release of chemicals into atmosphere	(t)	0.430
	Waterways	Wastewater	(m^3)	15,170
		COD	(kg)	32
		Nitrogen	(kg)	237
		Phosphorus	(kg)	1
		Amount of chemicals released in waterways	(t)	0
	Discharge	Recycling for profit	(t)	360
		Recycling at a charge	(t)	275
		Waste	(t)	0
		Chemical transfer amount	(t)	0.130

Water quality measurements

Unit: mg/ℓ (excluding pH)

Item	Regulated value	Actual Max.	Actual Avg.
pH	5.9~8.0	7.4	7.0
COD	8	7.9	4.7
BOD	8	3.0	0.25
SS	20	ND	ND
Oil	1	ND	ND
Zinc	4	0.09	0.02

Item	Regulated value	Actual Max.	Actual Avg.
Soluble iron	8	ND	ND
Soluble manganese	1.6	ND	ND
Fluorine	—	—	—
Nitrogen	50	25	16
Phosphate	1	0.20	0.07
Boron	8	0.04	0.04

Atmospheric measurements

Equipment	Item	Regulation	Max.
Plant 1 (boiler)	Dust	0.1	0.005
	NOx	144	73
	SOx	1.65	0.1

Unit: Dust = g/m^3N, NOx = ppm, Sox = m^3N/hr

Noise/vibration data

Unit: dB

Item		Regulation	Max.	Avg.
Noise	Morning	64	55	51
	Day	69	58	54
	Evening	64	50	49
	Night	54	50	50
Vibration	Morning	63	52	48
	Day	58	50	44

Foul odor
*Measured foul odor substances (22), and all items were lower than the determination limit

Substances subject to PRTR
* No substances had handling amounts of over 1,000 kg/year