

# Environmental Data by Location (1)

Of JTEKT's 12 plants in Japan, environmental data on the Kokubu, Kariya, and Tokushima plants is included.

[Atmospheric data] Maximum value measured

[Water quality] pH: Hydrogen ion concentration / COD: chemical oxygen demand / BOD: biochemical oxygen demand / SS: suspended solids / Oil: n-hexane extracted substance content / ND or not detected: less than lower limit / ( / ) denotes average volume per day

[Regulation values] Self-regulatory standards (including values stricter than those set by law)

[PRTR Law Subject Substance] Substance the volume of which exceeds 1,000 kg/year (excluding dioxins). The substance number indicates the government designated number of a class 1 chemical substance under PRTR law. The volume treated in a plant means the volume of a PRTR substance which is treated in a plant by conversion to a different substance via incineration, neutralization, decomposition, chemical reaction, etc. The amount consumed means the amount of a PRTR substance which is converted to a different substance by a chemical reaction and either used in a product or incidentally removed from the plant.

## Kokubu Plant

Number of employees 978

### Products

- Various types of ball and roller bearings
- Ultra-large bearings
- Hub units
- High-precision bearings



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.0	7.9	6.8
COD	32	18	15
BOD	32	28	18
SS	72	15	7.3
Oil	3.2	2.9	1.7
Zinc	4	0.67	0.23
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	16	10	7.2
Phosphorus	1.6	0.61	0.21
Boron	—	—	—
Displacement per day (m³)	—	1,192	682

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=K value

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers (for forging)	0.10	0.03
NOx		144	50
SOx		1.4	0.007

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	62
	Afternoon	69	64
	Evening	64	59
	Night	59	58
Vibration	Afternoon	63	45
	Night	58	28

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
16	2-aminoethanol	8,305	0	25	0	0	8,280	0	0	0
63	Xylene	2,585	2,585	0	0	0	0	0	0	0
311	Manganese and its compounds	1,435	0	29	0	0	516	0	0	890

## Kariya Plant

Number of employees 1,348

### Products

- Machine tools
- Damper pulleys
- Machined parts



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.4	7.2	6.8
COD	(11)	6.7	5.0
BOD	(20)	13	4.4
SS	(20)	2.3	1.3
Oil	4	0.80	0.30
Zinc	1.6	0.05	0.05
Soluble iron	4	0.50	0.46
Soluble manganese	1.6	0.25	0.18
Fluorine	4	0.12	0.10
Nitrogen	(17.2)	11	9.5
Phosphorus	(1.4)	0.09	0.07
Boron	10	0.18	0.04
Displacement per day (m³)	—	1,624	535

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=m³N/hr

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers (for canteens)	0.1	—
NOx		104	65
SOx		1.2	—
Particulates	Boilers (for cool & hot water generators)	0.1	0.003
NOx		104	48
SOx		1.2	—

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	58
	Afternoon	69	63
	Evening	64	61
	Night	59	58
Vibration	Afternoon	68	50
	Night	63	42

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
40	Ethylbenzene	2,246	1,828	0	0	0	0	0	0	418
63	Xylene	7,088	6,790	0	0	0	0	0	0	298
227	Toluene	9,586	7,698	0	0	0	0	0	0	1,888

## Tokushima Plant

Number of employees 1,059

### Products

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



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.2	7.3	6.9
COD	16	15	11
BOD	—	—	—
SS	20	14	3.9
Oil	2.4	2.3	1.3
Zinc	—	—	—
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	25	7.5	4.2
Phosphorus	3	0.07	0.05
Boron	—	—	—
Displacement per day (m³)	—	826	720

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=K value

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers (for heating)	0.1	0.002
NOx		250	58
SOx		21	0.02
Particulates	Boilers (for absorption cooling and heating machine)	0.1	0.03
NOx		250	140
SOx		21	0.12
Particulates	Diesel engine	0.1	0.02
NOx		903	830
SOx		21	0.10

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	59	52
	Afternoon	64	58
	Evening	59	55
	Night	54	53
Vibration	Afternoon	63	46
	Night	58	48

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
63	Xylene	4,218	4,218	0	0	0	0	0	0	0

# Environmental Data by Location (2)

Of JTEKT's 12 plants in Japan, environmental data on the Okazaki, Tokyo, and Kagawa plants is included.

[Atmospheric data] Maximum value measured

[Water quality] pH: Hydrogen ion concentration / COD: chemical oxygen demand / BOD: biochemical oxygen demand / SS: suspended solids / Oil: n-hexane extracted substance content / ND or not detected: less than lower limit / ( ) denotes average volume per day

[Regulation values] Self-regulatory standards (including values stricter than those set by law)

[PRTR Law Subject Substance] Substance the volume of which exceeds 1,000 kg/year (excluding dioxins). The substance number indicates the government designated number of a class 1 chemical substance under PRTR law. The volume treated in a plant means the volume of a PRTR substance which is treated in a plant by conversion to a different substance via incineration, neutralization, decomposition, chemical reaction, etc. The amount consumed means the amount of a PRTR substance which is converted to a different substance by a chemical reaction and either used in a product or incidentally removed from the plant.

## Okazaki Plant

Number of employees 702

### Products

- Electric power steering
- Power steering gear
- AT / CVT proportional control valves
- CVT oil pumps
- Propeller shafts
- Cast parts



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.4	7.6	7.0
COD	16	5.6	2.7
BOD	16	7.8	2.5
SS	16	5.8	1.4
Oil	2	0.50	0.29
Zinc	1	0.07	0.05
Soluble iron	2	0.50	0.47
Soluble manganese	2	0.25	0.24
Fluorine	1	0.10	0.10
Nitrogen	12	0.10	0.10
Phosphorus	2	0.04	0.03
Boron	10	0.14	0.05
Displacement per day (m³)	—	256	209

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=K value

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers (for thickeners)	0.1	0.002
NOx		104	64
SOx		6.1	—
Particulates	Boilers (for air conditioning)	0.1	0.003
NOx		104	54
SOx		ND	—
Particulates	Melting furnace	0.15	0.017
NOx		93	67
SOx		6.1	—
Particulates	Gas engine (cogeneration)	0.05	0.006
NOx		160	75
SOx		6.1	—

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	60
	Afternoon	69	58
	Evening	64	58
	Night	59	58
Vibration	Afternoon	68	33
	Night	63	33

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
44	Ethylene glycol monoethyl ether	1,382	0	0	0	0	0	0	0	1,382
63	Xylene	1,530	1,466	0	0	0	0	0	0	64
227	Toluene	3,633	2,917	0	0	0	0	0	0	716

## Tokyo Plant

Number of employees 388

### Products

- Needle roller bearings
- Constant velocity joints
- Driveshafts
- Propeller shafts



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.8 ~8.0	7.7	7.2
COD	—	—	—
BOD	150	24	4.6
SS	200	14	6.4
Oil	20	ND	ND
Zinc	2	—	—
Soluble iron	10	—	—
Soluble manganese	10	—	—
Fluorine	8	—	—
Nitrogen	60	32	13
Phosphorus	8	2.0	0.45
Boron	—	—	—
Displacement per day (m³)	—	226	184

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=m³N/hr

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Gas absorption boilers	0.05	0.002
NOx		44	27
SOx		0.41	0.01

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	59	59
	Afternoon	69	67
	Evening	59	59
	Night	54	54
Vibration	Afternoon	58	45
	Night	48	32

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
16	2-aminoethanol	1,181	0	0	0	3	1,178	0	0	0
63	Xylene	1,862	1,862	0	0	0	0	0	0	0
227	Toluene	4,460	4,460	0	0	0	0	0	0	0

## Kagawa Plant

Number of employees 566

### Products

- Tapered roller bearings



### Water Quality Measurement Data

Unit: mg/l (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.8 ~8.6	6.6	6.4
COD	40	36	24
BOD	40	39	32
SS	50	14	8.0
Oil	3	2.7	2.1
Zinc	—	—	—
Soluble iron	—	—	—
Soluble manganese	—	—	—
Fluorine	—	—	—
Nitrogen	60	15	10
Phosphorus	8	1.8	0.65
Boron	—	—	—
Displacement per day (m³)	—	847	485

### Atmospheric Measurement Data

Unit: Particulates=g/m³N, NOx=ppm, SOx=K value

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers No. 1	0.3	0.005
NOx		260	70
SOx		5.0	1.54
Particulates	Boilers No. 2	0.3	0.01
NOx		250	140
SOx		5.0	0.04
Particulates	On-site power generators	0.1	0.02
NOx		950	880
SOx		5.0	0.77

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	63
	Afternoon	69	65
	Evening	64	62
	Night	59	58
Vibration	Afternoon	49	33
	Night	46	31

### PRTR Law Subject Substance

Unit: kg/year

Substance No.	Substance Name	Amount Handled	Emission			Transfer		Recycled	Treated in Plant	Consumed
			Into Atmosphere	Into Waterways	Into Soil	Sewage	As Waste			
63	Xylene	2,319	2,319	0	0	0	0	0	0	0



# Environmental Data by Location (4)

Of JTEKT's 12 plants in Japan, environmental data on the Tadamisaki, Hanazono, and Kameyama plants is included.

[Atmospheric data] Maximum value measured

[Water quality] pH: Hydrogen ion concentration / COD: chemical oxygen demand / BOD: biochemical oxygen demand / SS: suspended solids / Oil: n-hexane extracted substance content / ND or not detected: less than lower limit / ( ) denotes average volume per day

[Regulation values] Self-regulatory standards (including values stricter than those set by law)

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## Tadamisaki Plant

Number of employees  
685

- Products
- Driveshafts
  - 4WD couplings



### Water Quality Measurement Data

Unit: mg/ℓ (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	6.0 ~8.5	8.4	7.7
COD	(12)	11.8	5.4
BOD	(10)	4.0	2.0
SS	(20)	8.8	1.5
Oil	2	0.50	0.20
Zinc	2	0.50	0.15
Soluble iron	1	0.10	0.10
Soluble manganese	2	0.10	0.10
Fluorine	5	0.20	0.20
Nitrogen	(35)	8.1	5.8
Phosphorus	(4)	0.22	0.18
Boron	10	1.2	0.38
Displacement per day (m <sup>3</sup> )	—	590	255

### Atmospheric Measurement Data

Unit: Particulates=g/m<sup>3</sup>N, NOx=ppm, SOx=m<sup>3</sup>N/hr

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Boilers (cool & hot water generators)	0.1	0.001
NOx		120	39
SOx		2	0.5

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	57
	Afternoon	69	59
	Evening	64	59
	Night	59	58
Vibration	Afternoon	55	45
	Night	50	45

### PRTR Law Subject Substance

\*No substances handled at rate of 1,000 kg/year or above.

## Hanazono Plant

Number of employees  
919

- Products
- Electric power steering
  - Hydraulic power steering pumps
  - Electric control units



### Water Quality Measurement Data

Unit: mg/ℓ (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.3	7.7	7.3
COD	8	5.2	3.4
BOD	8	3.9	1.5
SS	8	2.3	1.3
Oil	2	1.0	1.0
Zinc	1	0.05	0.05
Soluble iron	2	0.50	0.47
Soluble manganese	2	0.25	0.24
Fluorine	1	0.10	0.10
Nitrogen	24	29	17
Phosphorus	2	0.06	0.03
Boron	10	1.0	1.0
Displacement per day (m <sup>3</sup> )	—	449	269

### Atmospheric Measurement Data

Unit: Particulates=g/m<sup>3</sup>N, NOx=ppm, SOx=m<sup>3</sup>N/hr

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Small through flow boilers	0.10	0.002
NOx		100	33
SOx		0.62	0.002
Particulates	Boilers (cool & hot water generators)	0.10	0.002
NOx		100	60
SOx		0.62	0.002

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	60	49
	Afternoon	60	52
	Evening	60	50
	Night	56	49
Vibration	Afternoon	60	37
	Night	56	40

### PRTR Law Subject Substance

\*No substances handled at rate of 1,000 kg/year or above.

## Kameyama Plant

Number of employees  
238

- Products
- Ball bearings
  - Clutch bearings



### Water Quality Measurement Data

Unit: mg/ℓ (except pH values)

Item	Regulation Value	Results	
		Maximum	Average
pH	5.9 ~8.0	7.5	7.1
COD	10	9.0	4.0
BOD	8	4.0	1.0
SS	10	2.0	1.0
Oil	2	ND	ND
Zinc	2	0.04	0.01
Soluble iron	2	0.03	0.01
Soluble manganese	2	0.09	0.03
Fluorine	—	—	—
Nitrogen	50	29	20
Phosphorus	1	1.0	0.14
Boron	1	0.07	0.04
Displacement per day (m <sup>3</sup> )	—	169	110

### Atmospheric Measurement Data

Unit: Particulates=g/m<sup>3</sup>N, NOx=ppm, SOx=m<sup>3</sup>N/hr

Item	Equipment	Regulation Value	Greatest Measured Value
Particulates	Plant 1 (boilers)	0.1	0.005
NOx		144	73
SOx		1.65	0.10

### Noise / Vibration Data

Unit: dB

Item		Regulation Value	Greatest Measured Value
Noise	Morning	64	55
	Afternoon	69	58
	Evening	64	50
	Night	54	50
Vibration	Afternoon	63	52
	Night	58	50

### PRTR Law Subject Substance

\*No substances handled at rate of 1,000 kg/year or above.