Industrial accidents in optical instruments in Japan in 1999-2020

optical instruments industry Code No.011303

Type of accidents in optical instruments in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	7	3	3	4	2	3	3	5	6	8	4	5	5	5	2	4	5	3	5	4	4	3
falling to same level	9	8	7	11	15	11	13	12	11	17	3	5	11	12	18	11	10	12	14	12	17	16
crash	2	4	2	7	1	3	1	3	1	3	5	1	5	4	1	3	5	3	2	1	2	1
struck by flying or falling object	3	6	5	2	5	5	2	5	2	4	2	2	1	2	0	0	0	2	1	2	4	2
collapse	0	2	1	1	0	1	0	2	0	1	0	0	1	2	1	1	1	0	1	1	0	0
crashed by	4	2	1	-	0	1	2	0	0	3	1	1	1	3	0	0	3	0	1	4	1	1
caught in/between	24	26	23	25	19	29	25	23	22	16	6	9	12	12	6	12	4	8	10	11	9	7
cut	2	6	3	13	8	7	11	10	8	7	5	3	7	7	4	1	2	6	4	2	5	1
injury to the sole of the foot	0	1	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	1	2	3	1	1	-	1	3	2	0	2	0	0	2	0	1	2	0	1	0	1	0
contact to harmful substance	1	0	1	2	2	2	2	2	4	0	0	2	4	0	0	1	1	1	2	1	1	0
electric shock	1	1	1	1	1	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
explosion	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	0	-	0	-	1	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0
traffic accident (public road)	0	0	1	1	2	3	1	0	0	0	2	8	2	0	0	1	0	1	1	1	1	0
traffic accident (others)	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	1	10	3	3	5	7	5	9	14	12	8	3	8	2	5	3	6	6	3	8	7	3
others	2	0	0	-	0	-	0	0	2	1	0	0	0	0	1	0	0	0	0	0	1	9

unclassifiable	0	2	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	57	73	54	71	61	72	68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Causal agents (middle) of industrial accidents in optical instruments in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	1	0	-	0	1	0	1	1	0	1	0	0	2	0	0	0	1	0	0	0	1
woodworking machine	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
construction machine	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	20	19	7	19	10	18	21	15	12	7	5	4	10	6	5	7	4	6	4	7	8	5
general machine	8	10	15	18	8	7	9	18	12	10	2	5	5	7	2	3	2	3	6	4	9	3
mobile silviculture machine																	0	0	0	0	0	0
crane	0	1	1	-	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
conveying machine	1	0	3	1	0	1	0	2	1	1	1	2	0	1	0	3	1	0	1	0	0	1
vehicle	0	0	1	1	2	3	2	0	0	3	2	9	2	0	0	2	0	1	2	2	1	0
pressure vessel	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	1	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	-	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	1	0	1	-	1	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	1	0	-	1	-	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
human power machine, tools	3	4	1	2	5	4	6	3	4	2	1	0	1	3	2	1	2	1	4	3	2	0
tools	2	1	1	2	2	4	4	7	4	9	3	3	4	7	2	1	4	2	2	6	5	4
other equipments, facilities	2	5	3	4	1	3	1	2	1	3	3	2	2	0	2	1	2	5	3	0	1	2
temporary buildings,	7	12	9	13	19	15	12	8	13	18	7	5	13	11	15	11	10	12	12	14	11	13

establishments																						
hazards, harmful substances	0	4	2	1	1	2	3	4	7	0	1	2	5	2	0	0	5	1	2	1	2	0
materials	2	4	5	5	5	5	6	5	5	3	1	3	7	4	3	2	3	3	4	2	3	1
load	3	5	3	3	3	2	2	3	4	6	3	2	3	4	2	1	3	3	2	3	3	0
natural environment	5	0	2	-	0	-	1	2	1	1	2	1	2	3	1	2	0	1	2	2	3	1
other causal agent	2	1	0	-	0	-	1	1	1	3	1	0	1	0	0	0	0	1	1	0	3	9
no causal agent	1	5	0	-	3	4	0	3	7	3	5	1	3	1	4	3	5	2	0	3	2	3
unclassifiable	0	0	0	1	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
total	57	73	54	71	61	72	68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Causal agents (small) of industrial accidents in optical instruments in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism			0		0		0	1	1	0	1	0	0	2	0	0	0	1	0	0	0	1
circular sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
excavating machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

foundation work machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle for high lift work			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lathe			1		2		7	9	3	4	0	2	2	5	2	2	1	0	3	1	3	2
drill press, milling machine			2		2		1	2	1	1	0	0	2	0	2	1	0	1	0	2	0	0
grinding machine, buffing machine			3		0		2	2	0	0	1	2	1	0	1	0	0	4	1	1	2	1
power press			1		5		5	1	7	2	1	0	1	1	0	2	3	1	0	3	2	1
forging pressure hammer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines			0		1		6	1	1	0	3	0	4	0	0	2	0	0	0	0	1	1
centrifugal machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roll machine (except printingroll machine)			0		0		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine			1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
food manufacturing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
printing machine			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot			0		0		1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines			14		7		7	17	11	9	2	5	5	7	2	3	2	3	6	3	9	2
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding																						

machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane			1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
mobile crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
derrick crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging cableway			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck			1		0		0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1
forklift			1		0		0	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0
railway equipment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor			1		0		0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
loader			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other powered conveying machines			0		0		0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
cars, bus, motorcycle			1		2		2	0	0	3	2	9	2	0	0	2	0	1	2	2	1	0
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boiler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
gas welding			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

equipment																						
arc welding equipment			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment			0		1		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
human power cranes			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment			1		2		5	1	2	1	0	0	0	2	0	0	2	0	4	2	1	0
human power machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool			0		3		1	2	2	1	1	0	1	1	2	1	0	1	0	1	1	0
ladder			0		1		0	7	3	3	1	0	4	3	1	0	1	1	1	1	3	0
slinging tool			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
other tools			1		1		4	0	1	6	2	3	0	4	1	1	3	1	1	5	1	3
other equipment, facilities			3		1		1	2	1	3	3	2	2	0	2	1	2	5	3	0	1	2
scaffolding			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
timbering			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			0		2		3	1	2	3	4	4	5	4	2	3	2	3	3	1	2	2
opening			0		0		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
roof, beam, haze, crossbeam, principal rafter			1		0		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
working platform, boot board			1		1		3	1	1	3	0	0	2	2	0	1	3	2	3	0	2	0
passage			4		11		5	5	7	11	2	1	3	5	9	5	4	5	3	12	6	9
building, establishment			2		4		0	1	2	0	0	0	2	0	1	0	0	1	2	1	1	0

other temporary buildings, establishments			1		1		1	0	1	1	1	0	1	0	2	2	1	1	0	0	0	2
explosive substance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance			1		1		1	0	2	0	1	0	1	1	0	0	2	0	0	0	1	0
inflammable gas			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance			1		0		2	4	5	0	0	2	3	1	0	0	1	1	2	0	0	0
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			0		0		0	0	0	0	0	0	1	0	0	0	2	0	0	1	1	0
metal material			3		2		1	4	2	1	0	3	4	3	1	1	3	1	2	2	2	1
lumber, bamboo			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
stone, sand, substance			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials			2		3		5	0	3	2	1	0	3	1	2	1	0	2	2	0	0	0
load			2		2		2	2	2	3	3	1	3	2	2	0	3	2	2	3	2	0
machine/equipment as load			1		1		0	1	2	3	0	1	0	2	0	1	0	1	0	0	1	0
natural ground, rock			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
abnormal environment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment			0		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
other environments			2		0		1	2	1	1	2	0	2	3	1	2	0	1	2	2	3	1
other causal agent			0		0		1	1	1	3	1	0	1	0	0	0	0	1	1	0	3	9
no causal agent			0		3		0	3	7	3	5	1	3	1	4	3	5	2	0	3	2	3
unclassifiable			0		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
total			54		61		68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Workers age of industrial accidents in optical instruments in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

19 years old or less	1	4	6	3	2	1	2	1	0	2	2	3	2	0	0	0	0	1	2	0	2	0
20-29	16	12	12	17	18	14	18	25	19	11	5	9	16	9	2	4	9	7	8	9	8	2
30-39	9	18	8	14	13	18	11	20	24	21	9	11	16	14	6	12	4	9	13	10	7	5
40-49	12	18	10	13	10	17	12	13	12	15	11	3	10	7	14	7	9	9	13	12	17	8
50-59	13	18	13	17	13	14	18	8	11	18	8	10	10	16	14	12	11	13	4	12	14	21
60 years old or more	6	3	5	7	5	8	7	7	7	5	3	4	4	5	2	3	8	3	5	4	6	7
total	57	73	54	71	61	72	68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Workers' number of workplace of industrial accidents in optical instruments in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	20	17	8	7	10	17	12	10	10	3	4	5	5	9	2	2	6	0	2	3	3	3
10-29	8	12	15	12	17	14	14	15	7	13	5	4	7	8	5	4	4	5	5	7	8	6
30-49	5	8	7	13	6	10	10	16	3	5	3	3	8	8	3	5	4	7	7	4	10	3
50-99	6	8	9	10	7	12	4	4	13	17	11	4	10	4	7	5	7	6	9	6	6	4
100-299	13	18	8	23	10	12	16	14	22	22	9	19	11	8	9	7	9	13	10	17	7	10
300 workers or more	5	10	7	6	11	7	12	15	18	12	6	5	17	14	12	15	11	11	12	10	20	17
total	57	73	54	71	61	72	68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Month of industrial accidents in optical instruments in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	2	4	6	5	7	6	6	6	5	8	5	6	9	6	3	4	2	5	2	4	6	4
February	15	9	8	3	4	10	9	7	8	13	1	1	8	7	5	5	3	4	4	6	6	1
March	4	3	5	8	2	5	5	6	8	4	4	1	7	6	3	2	8	1	2	3	6	2
April	5	4	5	7	6	3	6	4	5	5	4	1	5	4	6	4	2	0	6	7	3	6
May	1	6	3	8	7	7	3	3	6	5	4	1	3	2	1	2	2	2	3	2	3	5
June	4	7	4	3	10	4	3	3	4	3	0	3	5	3	2	4	3	5	7	1	5	3
July	2	7	2	4	3	6	8	9	6	7	3	3	2	3	4	2	4	1	2	5	6	2
August	4	9	6	8	6	9	7	6	11	7	4	4	3	4	0	3	4	7	3	5	6	2
September	3	5	8	13	10	6	9	10	2	9	5	5	4	5	4	4	4	2	3	2	2	1
October	7	6	5	3	3	7	4	7	5	6	2	1	1	5	4	2	3	6	1	5	3	5
November	4	6	0	3	1	6	4	6	6	1	4	12	5	4	2	3	4	4	5	4	4	9
December	6	7	2	6	2	3	4	7	7	4	2	2	6	2	4	3	2	5	7	3	4	3

total	57	73	54	71	61	72	68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Prefecture of industrial accidents in optical instruments in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	0	0		0		0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1
Aomori	4	0	3		2		1	2	5	3	1	0	0	2	1	1	3	5	0	1	0	0
Iwate	0	1	2		0		0	1	5	0	3	2	1	1	0	1	0	0	0	0	1	3
Miyagi	1	1	1		1		3	4	3	2	3	1	1	1	2	0	1	0	2	2	1	0
Akita	3	8	3		4		1	5	4	3	4	1	4	3	3	2	1	1	1	2	3	3
Yamagata	2	2	3		0		1	3	1	3	1	2	1	1	2	0	1	3	1	2	2	0
Fukushima	2	4	1		2		6	9	6	2	3	3	9	1	6	3	3	6	6	4	4	2
Ibaraki	2	1	3		1		4	1	4	2	0	8	0	1	0	1	1	1	1	0	3	0
Tochigi	2	7	0		2		2	3	4	7	0	2	5	5	4	9	4	3	7	3	6	14
Gunma	0	0	1		0		0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	1
Saitama	3	5	3		3		5	2	2	6	1	5	2	4	2	2	1	2	2	1	3	0
Chiba	1	0	0		0		1	0	1	0	1	1	0	1	0	0	0	1	3	0	0	1
Tokyo	6	1	2		7		7	3	4	4	5	0	5	1	0	0	2	1	1	1	1	0
Kanagawa	3	1	2		3		0	4	1	3	2	1	2	3	2	2	0	1	3	2	2	2
Niigata	1	1	1		1		1	1	1	1	0	1	1	1	2	2	0	0	1	2	3	0
Toyama	0	0	0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukui	15	15	5		9		6	4	11	10	4	4	6	4	5	5	6	7	2	11	9	8
Yamanashi	1	1	1		1		2	4	1	2	1	0	2	2	1	2	0	1	1	1	1	0
Nagano	1	14	8		5		14	12	4	6	3	1	9	6	4	5	7	3	11	5	6	1
Gifu	0	0	0		0		0	1	0	1	0	0	0	0	0	0	0	0	0	4	0	0
Shizuoka	1	1	2		2		1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0
Aichi	1	4	3		3		2	4	5	4	2	0	3	6	1	1	2	2	0	4	1	3
Mie	0	0	1		0		2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Shiga	2	2	0		2		1	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Kyoto	2	0	0		2		3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
Osaka	1	2	3		3		1	1	2	7	0	5	1	3	1	0	3	1	1	0	0	1
Hyogo	1	1	0		0		0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nara	0	0	1		1		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Wakayama	1	0	0		1		1	2	1	2	0	0	1	1	1	0	1	0	1	0	0	0
Tottori	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Shimane	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okayama	0	0	1		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiroshima	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamaguchi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokushima	0	0	0		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehime	0	0	1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kochi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	0	0		0		1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0
Saga	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	1		0		0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0
Kumamoto	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oita	0	0	2		5		1	1	4	2	0	0	2	3	0	1	2	0	0	0	1	1
Miyazaki	1	0	0		1		1	0	0	0	1	0	0	0	0	0	1	2	0	1	5	0
Kagoshima	0	1	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	57	73	54		61		68	74	73	72	38	40	58	51	38	38	41	42	45	47	54	43

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

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Fatal accidents in optical instruments in Japan in 1999-2020

optical instruments industry Code No.011303

Type of fatal accidents in optical instruments in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
falling to same level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
crash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

falling object																						
collapse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
crashed by	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
caught in/between	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injury to the sole of the foot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to harmful substance	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric shock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (public road)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (others)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Causal agents (middle) of fatal accidents in optical instruments in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
hazards, harmful substances	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Causal agents (small) of fatal accidents in optical instruments in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
circular sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
band sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
excavating machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
foundation work machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle for high lift work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lathe	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine,																						

buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

cableway																						
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forklift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
loader	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other powered conveying machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cars, bus, motorcycle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arc welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

human power cranes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
slinging tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other equipment, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
scaffolding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
opening	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roof, beam, haze, crossbeam, principal rafter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
working platform, boot board	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
passage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
building, establishment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosive substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal material	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumber, bamboo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Workers age of fatal accidents in optical instruments in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
50-59	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 years old or more	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Workers' number of workplace of fatal accidents in optical instruments in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

10-29	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100-299	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
300 workers or more	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Month of fatal accidents in optical instruments in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
October	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Prefecture of fatal accidents in optical instruments in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aomori	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ibaraki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tochigi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokyo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanagawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Niigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Gifu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aichi	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shiga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Osaka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyogo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tottori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okayama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiroshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamaguchi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ehime	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kumamoto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Oita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html