

Fatal and non-fatal accidents in other precision machine products in Japan in 1999-2021

other precision machine products industry Code No.011305

Type of accidents in other precision machine products in 1999-2021

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	2021	total	Type of accidents	
fall from height	26	26	30	23	25	21	32	28	24	19	14	15	18	24	13	14	17	17	18	17	26	16	12	475	fall from height	
falling to same level	40	28	38	28	28	28	28	27	35	29	21	25	29	22	16	27	33	35	33	35	29	30	34	678	falling to same level	
crash	11	16	16	8	13	7	16	7	17	8	4	6	14	7	2	5	7	5	5	10	8	7	11	210	crash	
struck by flying or falling object	26	46	53	35	45	40	35	29	31	35	23	10	23	32	20	15	24	21	18	13	19	12	15	620	struck by flying or falling object	
collapse	7	10	4	10	6	7	10	7	4	6	2	4	2	7	6	2	1	7	1	3	4	3	3	116	collapse	
crashed by	9	16	18	15	20	10	13	17	19	10	6	10	14	11	6	10	8	5	8	6	15	7	9	262	crashed by	
caught in/between	127	119	113	106	108	69	94	70	92	102	49	56	72	61	56	45	49	47	44	52	43	50	44	1,668	caught in/between	
cut	50	37	44	39	38	30	38	33	42	23	17	26	15	18	11	18	12	11	7	17	14	8	19	567	cut	
injury to the sole of the foot						1			2										1					4	injury to the sole of the foot	
drown																										drown
contact to high/low-temperature	4	4	3	4	3	5	5	5	3	1		5	2		2	3	2	4	2	2	2	1	3	65	contact to high/low-temperature	

engine																									engine
power transmission mechanism					2		2	3	1	1	1	2	2	3	1	3	1	1	1	3	3	3	1	34	power transmission mechanism
circular sawing machine					3		1	2	2			1	1	1				1	1			2	1	16	circular sawing machine
band sawing machine									1	1	1													3	band sawing machine
wood planer machine							1																	1	wood planer machine
hollow chisel mortiser, wood borer							1	1			1			1						1				5	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																				1				1	chain saw
other woodworking machines																				3				3	other woodworking machines
leveling, transporting or loading machine														1										1	leveling, transporting or loading machine
excavating machine									1			1		1										3	excavating machine
foundation work machine																									foundation work machine

machine			2		1		1		1	1		2	1		1		1	1			1	1		13	machine
food manufacturing machine										1				1										2	food manufacturing machine
printing machine			1						1	1											1			4	printing machine
industrial robot									1	1				1							1	2	1	7	industrial robot
other general power machines			19		27		20	11	15	26	14	15	16	16	7	11	11	7	10	7	12	10	8	262	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			8		10		6	7	10	7	6	5	4	4	6	3	7	2	4	3	3	2	7	104	crane
mobile crane			1						1					1	1	1								5	mobile crane
derrick crane																									derrick crane
elevator, lift					1		1		1			1		1	1	1							1	8	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

simple skyline yarding equipment																									simple skyline yarding equipment	
other powered crane						2	1		1		1	1	1	2	1										10	other powered crane
truck			9		7		8	4	5	4			3	5	2	1	4	5	3	7	3	5	3	78	truck	
forklift			5		4		5	3	8	2		8	7	2	1		2	2	3	5	7	1	5	70	forklift	
railway equipment										1														1	railway equipment	
conveyor			3		5		3	5	4	4	1		1	2	3	1	1	2		2	1		7	45	conveyor	
loader																			1					1	loader	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
other powered conveying machines								2	1			1	1	3	1				2				1	12	other powered conveying machines	
cars, bus, motorcycle			9		4		5	10	7	4	2	7	6	6	2	7	2	1	8	4	4	1	6	95	cars, bus, motorcycle	
railway vehicle											1													1	railway vehicle	
other vehicles										1														1	other vehicles	
boiler					1		1		1															3	boiler	
pressure vessel			1		1		1	1			1								1					6	pressure vessel	
other pressure vessels					1							1						1	1	2				6	other pressure vessels	
chemical facilities												2												2	chemical facilities	
gas welding								1	1			1			1									4	gas welding	

facilities			7		4		9	7	9	6	2	4	3		4	2	7	5	8	7	8	5	8	105	facilities
scaffolding			2		2			1	1			1	2	2		1					1	1		14	scaffolding
timbering																									timbering
stairs, landing stage			13		10		6	9	12	10	5	5	3	7	2	6	5	5	5	5	8	5	4	125	stairs, landing stage
opening			1					3			1					1	1	1					1	9	opening
roof, beam, haze, crossbeam, principal rafter			3						2			1				2	1						2	11	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			6		9		12	2	4	3	2	5	3	1		5	4	3	8	6	2	2	2	79	working platform, boot board
passage			19		14		16	13	8	9	11	13	13	13	8	13	21	19	12	24	15	16	20	277	passage
building, establishment			2		2		3	2	7	2	3	3	5		3	3	3	3	3	3	2	2	2	53	building, establishment
other temporary buildings, establishments			3		1		3	2	4	4	1	2	5	3	2	1	2	1	3	2	5	3	3	50	other temporary buildings, establishments
explosive substance					2																			2	explosive substance
inflammable substance			3				1	1	1			1		1							1			9	inflammable substance
inflammable gas					2											1					1			4	inflammable gas
harmful substance			1		1		1	1	2	1	1	1	1		1	2	2				1	1	1	18	harmful substance
radiation																									radiation
other hazards, harmful substances			1		1		2	2		1		1			3			1				1	4	17	other hazards, harmful substances

metal material			49		37		35	32	25	38	15	15	21	21	12	14	14	23	14	15	12	12	15	419	metal material	
lumber, bamboo					1			3		2						1		1						8	lumber, bamboo	
stone, sand, substance					1								2											3	stone, sand, substance	
other materials					3		4	4	1	1		1	2	5	2	4	2	1		3	2	1	2	38	other materials	
load			20		13		13	10	17	15	7	7	8	7	4	14	8	7	10	9	13	10	7	199	load	
machine/equipment as load			7		2		7	2	5	5	2	2	7	7	3		1	4	1	1	3	4	1	64	machine/equipment as load	
natural ground, rock							1					2			1									4	natural ground, rock	
standing tree									1					1		1								3	standing tree	
water																							1	1	water	
abnormal environment																										abnormal environment
high/cold temperature environment			1							1		1	1					3	1				1	9	high/cold temperature environment	
other environments								1	1	1			1	3	2	2	4	3	1	2	4			25	other environments	
other causal agent			5		2		2	3	3	3	2	4	14	2	3	1	1	3	2	1	4	3	27	85	other causal agent	
no causal agent			7		12		12	5	16	10	2	12	12	6	10	7	7	16	14	20	13	14	8	203	no causal agent	
unclassifiable			2		1		1	2	1		2		1			1						1		12	unclassifiable	
total			358		324		309	264	309	277	154	189	236	209	161	170	179	185	171	198	198	163	209	4,263	total	

Workers age of fatal and non-fatal accidents in other precision machine products in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	14	13	7	10	15	8	13	8	7	8	5	3	4	5	4	5	3	5	3	3	2	2	2	149	19 years old or less
20-29	75	70	83	63	55	43	68	54	67	55	29	38	50	42	35	29	36	28	15	30	25	21	34	1,045	20-29
30-39	60	42	61	52	65	52	67	61	72	72	30	37	58	54	32	36	38	39	40	37	43	38	47	1,133	30-39
40-49	61	66	50	50	57	52	46	45	49	43	29	51	57	50	38	45	37	42	45	54	48	37	41	1,093	40-49
50-59	93	99	123	71	89	57	83	57	66	55	28	37	36	31	29	23	30	37	37	45	38	46	51	1,261	50-59
60 years old or more	35	42	34	46	43	29	32	39	48	44	33	23	31	27	23	32	35	34	31	29	42	19	34	785	60 years old or more
total	338	332	358	292	324	241	309	264	309	277	154	189	236	209	161	170	179	185	171	198	198	163	209	5,466	total

Workers' number of workplace of fatal and non-fatal accidents in other precision machine products in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	84	90	85	74	76	52	68	67	62	52	38	42	31	45	33	31	42	31	29	37	27	23	27	1,146	9 workers or less
10-29	102	81	110	88	89	75	92	63	87	68	38	51	60	60	47	50	30	44	38	36	39	35	47	1,430	10-29
30-49	41	38	47	42	51	32	46	32	46	33	17	22	30	22	21	22	23	17	18	21	22	14	26	683	30-49
50-99	39	49	42	27	48	25	40	37	47	34	17	25	39	28	22	26	25	31	26	32	33	26	37	755	50-99
100-299	42	46	52	35	39	37	35	42	40	54	26	25	30	34	22	24	25	29	22	27	38	37	37	798	100-299
300 workers or more	30	28	22	26	21	20	28	23	27	36	18	24	46	20	16	17	34	33	38	45	39	28	35	654	300 workers or more
total	338	332	358	292	324	241	309	264	309	277	154	189	236	209	161	170	179	185	171	198	198	163	209	5,466	total

Month of fatal and non-fatal accidents in other precision machine products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	34	25	44	26	31	20	33	22	20	28	19	12	20	19	17	10	10	14	14	19	17	17	16	487	January
February	26	23	24	32	19	13	25	18	26	30	15	15	10	18	13	19	17	14	9	16	19	12	14	427	February
March	23	27	29	29	32	33	21	19	27	26	16	15	23	17	17	22	15	18	15	19	29	11	17	500	March
April	24	24	34	22	25	22	29	23	18	31	18	14	15	21	10	10	9	15	16	18	8	13	15	434	April
May	24	37	31	22	24	19	22	24	30	28	13	13	16	17	13	16	14	19	12	13	18	10	21	456	May
June	29	34	28	21	26	22	23	23	29	18	16	19	20	20	10	12	15	22	16	20	13	21	18	475	June
July	33	29	33	22	27	21	30	25	25	27	10	16	19	21	20	19	20	15	18	15	21	16	18	500	July
August	31	25	30	19	23	21	29	25	31	24	15	17	23	22	11	13	16	14	13	15	12	9	28	466	August
September	20	30	29	24	37	16	30	25	23	11	9	19	27	16	14	16	14	11	9	19	16	13	18	446	September
October	24	28	27	29	28	22	20	21	38	18	8	18	24	16	13	10	16	13	15	13	13	20	18	452	October
November	34	25	23	19	27	16	23	18	18	22	7	17	23	14	12	14	13	13	19	17	21	14	13	422	November
December	36	25	26	27	25	16	24	21	24	14	8	14	16	8	11	9	20	17	15	14	11	7	13	401	December
total	338	332	358	292	324	241	309	264	309	277	154	189	236	209	161	170	179	185	171	198	198	163	209	5,466	total

Prefecture of fatal and non-fatal accidents in other precision machine products in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	3	1	3		4		3		2	2	1	2	3	2		2	1	2		2	3	4	1	41	Hokkaido
Aomori	2	2	1		1						1		3	4			1		4	3				22	Aomori
Iwate	2	6	6		10		12		8	6	3	7	5	4	5	1	2	1	3	3	1	2	4	91	Iwate

Miyagi	7	6	3		1		2	4		5	3		1	6	3	3	5	1	1	1		2	2	56	Miyagi
Akita	2	6	3		4		5	2	7	3	2	4	1	2	2	3	1	1	3	4	4	3	5	67	Akita
Yamagata	8	4	6		1		3	3	8	1	2	2	2	2	3	3	2	3	3	2	3	1	2	64	Yamagata
Fukushima	4	4	2		4		4	1	4	2		3	4	2	2	2	2	4	1	1			3	49	Fukushima
Ibaraki	15	12	6		7		7	7	12	13	1	7	7	5	3	6	2	7	8	9	10	12	6	162	Ibaraki
Tochigi	8	11	12		10		16	9	12	5	2	7	6	8	6	7	6	5	9	5	6	6	8	164	Tochigi
Gunma	14	15	9		16		6	13	2	6	7	6	11	11	5	3	5	7	7	7	8	4	4	166	Gunma
Saitama	15	13	18		22		24	19	15	11	7	12	9	12	7	10	6	8	8	11	7	10	9	253	Saitama
Chiba	5	13	5		7		4	7	15	9	4	4	7	11	3	3	11	6	1	4	16	4	18	157	Chiba
Tokyo	17	21	23		16		9	6	14	15	4	12	5	11	12	8	7	3	6	9	7	4	6	215	Tokyo
Kanagawa	26	13	20		11		11	10	8	9	8	13	7	11	6	8	14	8	6	7	7	8	7	218	Kanagawa
Niigata	12	9	13		11		5	6	6	5	3	4	6	3	1	4	6		5	7	4	5	4	119	Niigata
Toyama	8	5	6		5		4	5	5	6	2	2	2	4	1	1	2	2	3	1	4	2	2	72	Toyama
Ishikawa	6	5	5		3		4	4	6	5	1	1	3	1	2	4		6	3		1		1	61	Ishikawa
Fukui	2		1		1		1		1		1		4	1	1	2	1	1	1			1		19	Fukui
Yamanashi	4	4	5		6		4	5	5	11	4	5	3	3	1		8	3	7	6	4	2	7	97	Yamanashi
Nagano	6	13	15		14		14	12	10	17	6	11	27	9	11	8	9	14	10	15	13	11	18	263	Nagano
Gifu	10	11	10		12		9	11	11	20	11	7	5	7	3	3	3	7	6	6	9	2	4	167	Gifu
Shizuoka	17	10	13		20		20	10	25	13	9	6	10	8	8	6	13	8	12	11	13	6	16	254	Shizuoka
Aichi	32	29	32		40		27	15	36	25	13	19	26	23	21	19	19	21	16	22	19	15	12	481	Aichi
Mie	7	7	9		12		12	15	5	11	1	5	11	10	7	8	6	6	3	2	13	6	9	165	Mie
Shiga	1	6	9		5		10	4	5	4	2	1	1		2	2	1	6	2	2	4	7	6	80	Shiga
Kyoto	11	11	17		12		8	6	9	9	7	2	11	4	5	3	8	4	5	11	8	9	8	168	Kyoto

Osaka	31	42	44		15		19	23	21	22	14	14	16	10	18	16	9	15	6	13	8	11	12	379	Osaka
Hyogo	9	14	13		10		9	6	11	3	7	7	8	7	5	7	11	13	13	10	5	6	6	180	Hyogo
Nara	1		1		1		4		1				1		1			1		2				13	Nara
Wakayama	2	1	1		3		4		1	3	1	1	1	2		1				1		1	1	24	Wakayama
Tottori		1					1							1										3	Tottori
Shimane	1		2		4		3	2	1	2		1	1	1	1			3		2	1		1	26	Shimane
Okayama	4	5	3		4		3	6	6	3		2	2	4		1	1	1	2	1	2	3	4	57	Okayama
Hiroshima	10	13	10		10		10	7	6	6	6	7	3	2	5	5	5	3	2	2	2	3	4	121	Hiroshima
Yamaguchi		1	1		3		1	6	2	3	3	1	2	2		3	1				2	2		33	Yamaguchi
Tokushima										1			2		1				1	1				6	Tokushima
Kagawa	5	5	8		5		5	5	3	1	3	4	5			3	4	5	1	3	1		1	67	Kagawa
Ehime			1					2	1	4	2		4		1	1	1			2				19	Ehime
Kochi	3	1	1		2		6	3	5	1	1	1	2	3		5		2	2	3	1	1	2	45	Kochi
Fukuoka	11	4	12		5		8	11	6	4	2	5	2	5	2	3	2	5	5	3	5	2	4	106	Fukuoka
Saga	1	2	1		1		1			2	2			1	1				1		1			14	Saga
Nagasaki	7	2					1	3	2	1	1					1						1		19	Nagasaki
Kumamoto	2	3	1		2		3	2	1	2	2		5	2	3	3	2	1		2	1	2	2	41	Kumamoto
Oita	2		4		3		3	11	5	4	4	2	1	2		1		1	2	1	4	2	5	57	Oita
Miyazaki	3	1	2		1		1	2	4	2	1	2	1	3	2		1		3	1	1			31	Miyazaki
Kagoshima	2		1				3		2						1	1	1	1				3	4	19	Kagoshima
Okinawa								1															1	2	Okinawa
total	338	332	358		324		309	264	309	277	154	189	236	209	161	170	179	185	171	198	198	163	209	4,933	total

injury to the sole of the foot																								injury to the sole of the foot
drown																								drown
contact to high/low-temperature																								contact to high/low-temperature
contact to harmful substance																								contact to harmful substance
electric shock																					1	1	electric shock	
explosion																								explosion
burst																								burst
fire																								fire
traffic accident (public road)	1		1				1					1											4	traffic accident (public road)
traffic accident (others)																								traffic accident (others)
reaction to motion/improper motion																								reaction to motion/improper motion
others												1											1	others
unclassifiable																								unclassifiable
total	2	1	1			1	1		1			2	1					1	2	1		2	16	total

pressure vessel						1																	1	pressure vessel
other pressure vessels																								other pressure vessels
chemical facilities																								chemical facilities
gas welding equipment																								gas welding equipment
arc welding equipment																								arc welding equipment
other welding equipment																								other welding equipment
kiln, caldron																								kiln, caldron
industrial dryer																								industrial dryer
other kiln, caldron																								other kiln, caldron
transmission																								transmission
electric power facilities																						1	1	electric power facilities
other electrical equipment																								other electrical equipment
human power cranes																								human power cranes
human power hauling equipment																						1	1	human power hauling equipment
human power machine																								human power machine

no causal agent														1										1	no causal agent	
unclassifiable																										unclassifiable
total	2	1	1			1		1		1				2	1					1	2	1		2	16	total

Workers age of fatal accidents in other precision machine products in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age	
19 years old or less	1																								1	19 years old or less
20-29			1					1											1						3	20-29
30-39						1																			1	30-39
40-49	1												1							1			2	5	40-49	
50-59		1												1						1	1				4	50-59
60 years old or more										1			1												2	60 years old or more
total	2	1	1			1		1		1			2	1					1	2	1		2	16	total	

Workers' number of workplace of fatal accidents in other precision machine products in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale	
9 workers or less			1																				1	2	9 workers or less	
10-29		1																		2					3	10-29
30-49																										30-49
50-99	1																								1	50-99

100-299						1				1														3	100-299			
300 workers or more	1									1													1		1	7	300 workers or more	
total	2	1	1			1				1												1	2	1		2	16	total

Month of fatal accidents in other precision machine products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month	
January		1				1		1					1								1				5	January
February																					1			1	2	February
March																										March
April	1												1												2	April
May																										May
June																								1	1	June
July																										July
August										1				1											2	August
September			1																						1	September
October																					1		1		2	October
November	1																								1	November
December																										December
total	2	1	1			1		1		1			2	1						1	2	1		2	16	total

Prefecture of fatal accidents in other precision machine products in 1999-2021

Miyazaki																									Miyazaki	
Kagoshima																										Kagoshima
Okinawa																										Okinawa
total	2	1	1			1		1		1			2	1					1	2	1		2	16	total	

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

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