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
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

contact to harmful																									contact to
	3	5	3	2	3	1	3	1	2	3	1	1	1		2	2	1					1	3	38	harmful
substance																									substance
electric shock			3		1	1			1										1	1			1	9	electric shock
explosion		1							1					1	1					1				5	explosion
burst					2		1																	3	burst
fire	2		2			1		1							1			1						8	fire
traffic accident (public	6	4	9	3	7	3	2	12	6	8	2	5	6	4	2	5	2		4	4	1	1	7	103	traffic accident
road)	0	4	9	3		3	2	12	6	0		3	0	4		5			4	4	I	ı		103	(public road)
traffic accident																1			1		1			3	traffic accident
(others)																					•				(others)
reaction to																									reaction to
motion/improper	25	18	21	19	23	17	30	26	29	32	14	25	22	21	23	23	22	30	27	34	34	25	22	562	motion/improper
motion																									motion
others	2				1		2	1		1	1	1	16	1			1	2	1	3	2	1	26	62	others
unclassifiable		2	1		1				1				2									1		8	unclassifiable
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

Causal agents (large) of fatal and non-fatal accidents in other precision machine products in 1999-2021

Causal (L) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021		agents
machine	136	128	122	126	131	79	111	89	116	110	57	65	74	79	62	58	52	48	41	46	53	52	44	1,879	machine
crane, conveying																									crane,

machine	38	30	35	24	31	26	30	32	37	24	9	24	23	25	19	15	16	12	20	22	18	9	30	549	conveying
Пастите																									machine
other equipment	49	49	56	46	46	45	49	45	45	37	34	23	38	26	24	17	35	31	36	38	41	26	34	870	other
other equipment	49	49	30	40	40	43	49	45	43	37	34	23	36	20	24	17	33	31	30	36	41	20	34	670	equipment
tomporary buildings																									temporary
temporary buildings, establishments	40	35	49	38	38	32	40	32	38	28	23	30	31	26	15	32	37	32	31	40	33	29	34	763	buildings,
establishments																									establishments
substance, material	46	48	54	38	48	35	43	43	29	43	16	19	26	27	18	22	18	26	14	19	16	15	22	685	substance,
substance, material	40	40	34	36	40		43	43	29	43			20	27				20						003	material
load	16	23	27	10	15	14	20	12	22	20	9	9	15	14	7	14	9	11	11	10	16	14	8	326	load
environment	1	3	1	1		4	1	1	2	2		3	2	4	3	3	4	6	2	2	4		2	51	environment
others	12	16	14	9	15	6	15	10	20	13	6	16	27	8	13	9	8	19	16	21	17	18	35	343	others
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

Causal agents (middle) of fatal and non-fatal accidents in other precision machine products in 1999-2021

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	2021	total	Causal (M) agents
engine	1	1																						2	engine
power transmission mechanism	1	6		4	2	2	2	3	1	1	1	2	2	3	1	3	1	1	1	3	3	3	1	47	power transmission mechanism
woodworking machine	1	3		3	3	1	3	3	3	1	2	1	1	2				1	1		5	2	1	37	woodworking machine

construction machine						1			1			1		1	1						1			6	construction machine
metal manufacturing machine	102	88	99	86	98	56	82	72	92	76	38	44	51	54	49	44	38	38	27	35	28	32	31	1,360	metal manufacturing machine
general machine	31	30	23	33	28	19	24	11	19	32	16	17	20	19	11	11	13	8	12	8	16	15	11	427	general machine
mobile silviculture machine																									mobile silviculture machine
crane	12	11	9	12	11	10	9	8	12	8	6	7	5	7	10	6	7	2	4	3	3	2	8	172	crane
conveying machine	17	15	17	9	16	10	16	14	18	11	1	9	12	12	7	2	7	9	8	15	11	6	16	258	conveying machine
vehicle	9	4	9	3	4	6	5	10	7	5	2	8	6	6	2	7	2	1	8	4	4	1	6	119	vehicle
pressure vessel	1		1	1	3	1	2	1	1		1	1							1	2	2			18	pressure vessel
chemical facilities													2											2	chemical facilities
welding equipment	4	1	3	4	2		3	1	3	2	1	1			2	1	1					1	1	31	welding equipment
kiln, caldron		2		1	1	2				2		1	1				2			1		1		14	kiln, caldron
electric equipment		2	2	1	2	1		1						2			1	1	2	1			1	17	electric equipment
human power machine,	17	14	16	12	13	12	12	10	15	10	18	8	13	6	4	8	7	11	9	10	11	3	14	253	human power

tools	24	24	27	19	21	21	23	25	17	17	12	8	19	18	14	6	17	14	16	17	20	16	10	405	tools
other equipments,	3	6	7	8	4	8	9	7	9	6	2	4	3		4	2	7	5	8	7	8	5	8		other equipments, facilities
temporary buildings, establishments	40	35	49	38	38	32	40	32	38	28	23	30	31	26	15	32	37	32	31	40	33	29	34	763	temporary buildings, establishments
hazards, harmful substances	3	4	5	4	6	3	4	4	3	2	1	3	1	1	4	3	2	1		1	2	2	5	64	hazards, harmful substances
materials	43	44	49	34	42	32	39	39	26	41	15	16	25	26	14	19	16	25	14	18	14	13	17	621	materials
load	16	23	27	10	15	14	20	12	22	20	9	9	15	14	7	14	9	11	11	10	16	14	8	326	load
natural environment	1	3	1	1		4	1	1	2	2		3	2	4	3	3	4	6	2	2	4		2	51	natural environment
other causal agent	2	5	5	4	2	1	2	3	3	3	2	4	14	2	3	1	1	3	2	1	4	3	27	97	other causal agent
no causal agent	9	9	7	5	12	5	12	5	16	10	2	12	12	6	10	7	7	16	14	20	13	14	8	231	no causal agent
unclassifiable	1	2	2		1		1	2	1		2		1			1						1		15	unclassifiable
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

Causal agents (small) of fatal and non-fatal accidents in other precision machine products in 1999-2021

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	2021	total	Causal (S) agents

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

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hardening machine																					hardening machine
demolition machine																	1			1	demolition machine
vehicle for high lift																					vehicle for high lift
work																					work
other construction																					other construction
machines																					machines
lathe	28	22	23	19	22	12	8	14	13	22	10	9	9	11	4	11	11	4	9	261	lathe
drill press, milling	20	20	18	13	16	24	8	9	9	5	10	10	4	6	11	10	6	9	2	210	drill press, milling
machine		20	10	13	10	24	0	9	9	3		10	4	0		10	0	9			machine
grinding machine,	16	15	15	13	19	12	10	6	6	13	9	7	7	5	3	3	3	7	4	173	grinding machine,
buffing machine			13			12				13								,		1/3	buffing machine
power press	7	14	11	13	11	9	6	4	11	6	6	7	6	10	4	7	2	8	1	143	power press
forging pressure																					forging pressure
hammer																					hammer
shearing machine	4	1	1	2	2	2	1	1			1	1	1							17	shearing machine
other metal																					other metal
manufacturing	24	26	14	12	22	17	5	10	12	8	13	10	11	6	5	4	6	4	15	224	manufacturing
machines																					machines
centrifugal machine									1	1				1						3	centrifugal machine
mixer, grinder			1		1		1		1		2					1			1	8	mixer, grinder
roll machine (except																					roll machine (except
printingroll	1		2			2	1		1		1		1		2		1	2	1	15	printingroll
machine)																					machine)
injection molding																					injection molding

machine		2	1	1		1	1		2	1		1		1				1	1		13	machine
food manufacturing machine							1				1										2	food manufacturing
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																						other mobile
silviculture machine																						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																						cargo lifting appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

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simple skyline																								simple skyline
yarding equipment																								yarding equipment
other powered															1								10	other powered
crane						2						ı	I	2	1								10	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							2															1	12	other powered
conveying machines							2						3					2					12	conveying machines
cars, bus,			9		4		10	7			7		6		7		1					6	95	cars, bus,
motorcycle			9		4	5	10		4	2		6	0	2	/	2	ľ	8	4	4		0	95	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					1						1							1	1				6	other pressure
vessels																				2			0	vessels
chemical facilities												2											2	chemical facilities
gas welding							1	1			1			1									4	gas welding

equipment																						equipment
arc welding equipment		1	1			1	2							1					1		7	arc welding equipment
other welding equipment		2	1	3		1		1				1	1							1	11	other welding equipment
kiln, caldron							1		1					1					1		4	kiln, caldron
industrial dryer							1			1				1			1				4	industrial dryer
other kiln, caldron			1																		1	other kiln, caldron
transmission											1			1	1					1	4	transmission
electric power facilities		1														1					2	electric power facilities
other electrical equipment		1	2		1						1					1	1				7	other electrical equipment
human power cranes			2		2			1	1									1		2	9	human power cranes
human power hauling equipment		3	4	4	4	6	6	9	2	6	4	2	3	6	4	4	4	4	1	6	82	human power hauling equipment
human power machine		2	1			1			2	1					1		1				9	human power machine
hand tool		11	6	8	4	8	4	8	3	6	2	2	5	1	6	5	5	6	2	6	98	hand tool
ladder		7	8	14	12	4	6	3	2	7	5	8	2	5	9	7	9	13	8	3	132	ladder
slinging tool		12	1	5	3	2	4	6	4	3	2	3	1	4	2	1	2	1	2		58	slinging tool
other tools		8	12	4	10	11	7	3	2	9	11	3	3	8	3	8	6	6	6	7	127	other tools
other equipment,																						other equipment,

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	1.	3	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	1	9	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,	1		1	2	2		1		1			3			1				1	4	17	other hazards, harmful substances

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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,				1							2											3	stone, sand,
substance				•																			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		7			7	2	5	5	2	2	7	7	2		1	4	1	1	2	4	1	64	machine/equipment
as load				2	/	2))	2	2			3		I	4		ľ	3	4	ľ	04	as load
natural ground,					1					2			1									4	natural ground,
rock					1					2			I									4	rock
standing tree							1					1		1								3	standing tree
water																					1	1	water
abnormal																							abnormal
environment																							environment
high/cold																							high/cold
temperature		1						1		1	1					3	1				1	9	temperature
environment																							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

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	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		72	J-7				J2					23			23	52		J-7			72		J-T	765	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	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																.,								ll l	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	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	Мау
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

			2005	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
lwate 2	6	6	10		12		8	6	3	7	5	4	5	1	2	1	3	3	1	2	4	91	lwate

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	lbaraki
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

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal 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/2021e_industry.html

Fatal accidents in other precision machine products in Japan in 1999-2021

other precision machine products industry Code No.011305

Type of fatal 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										1										1	1			3	fall from height
falling to same level													1											1	falling to same level
crash																									crash
struck by flying or falling object						1																		1	struck by flying or falling object
collapse																				1				1	collapse
crashed by		1																						1	crashed by
caught in/between	1																		1				1	3	caught in/between
cut																									cut

the foot drown of the foot dro	injury to the sole
drown contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 4 4 traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the foot
contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	drown
temperature contact to harmful substance	contact to
contact to harmful substance electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 4 1	high/low-
contact to harmful substance	temperature
substance electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	contact to
electric shock explosion burst fire traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 4 1 1 1 1 1 1	harmful harmful
explosion explosion burst burst fire fire traffic accident (public 1 1 1 1 1 1 1 4 4 traffic accident section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	substance
burst burst burst fire fire fire traffic accident (public 1 1 1 1 1 1 1 1 4 1 1 4 1 1 1 1 1 1 1	1 1 electric shock
fire fire traffic accident (public 1 1 1 1 1 1 4 traffic accident (public 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	explosion
traffic accident (public 1 1 1 1 1 1 1 1 4 traffic acci	
	fire
	traffic accident
traffic acci	traffic accident
traffic accident (others) (others)	(others)
reaction to reaction to	reaction to
motion/improper motion/imprope	motion/improper
motion motion	motion
others 1 1 others	1 0thers
unclassifiable unclassifia unclassifia	unclassifiable
total 2 1 1 1 1 1 1 1 2 1 2 16 total	1 2 1 1 2 1 total

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	1	1								1														3	machine
crane, conveying machine	1		1					1					1	1					1	1	1		1	9	crane, conveying machine
other equipment						1														1			1	3	other equipment
temporary buildings, establishments																									temporary buildings, establishments
substance, material																									substance, material
load																									load
environment																									environment
others													1											1	others
total	2	1	1			1		1		1			2	1					1	2	1		2	16	total

Causal agents (middle) of fatal accidents in other precision machine products in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
Causai (M) agents	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	agents

engine																		engine
power transmission mechanism																		power transmission mechanism
woodworking machine																		woodworking machine
construction machine																		construction machine
metal manufacturing machine	1	1					1										3	metal manufacturing machine
general machine																		general machine
mobile silviculture machine																		mobile silviculture machine
crane																		crane
conveying machine	1								1				1	1	1	1	6	conveying machine
vehicle			1			1				1							3	vehicle
pressure vessel					1												1	pressure vessel
chemical facilities																		chemical facilities
welding equipment																		welding equipment

												L]	
kiln, caldron																	kiln, caldron
electric equipment															1	1	electric equipment
human power machine, tools													1			1	human power
tools																	tools
other equipments,																	other equipments, facilities
temporary buildings, establishments																	temporary buildings, establishments
hazards, harmful substances																	hazards, harmful substances
materials																	materials
load																	load
natural environment																	natural environment
other causal agent																	other causal agent
no causal agent									1							1	no causal agent
unclassifiable																	unclassifiable
	 	11	 T-	11	1	1	1				 $\overline{}$		_	 -			11

	total	2	1	1			1		1		1			2	1					1	2	1		2	16	total	
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Causal agents (small) of fatal accidents in other precision machine products in 1999-2021

——ii		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine																								engine
power transmission																								power transmission
mechanism																								mechanism
circular sawing																								circular sawing
machine																								machine
band sawing																								band sawing
machine																								machine
wood planer																								wood planer
machine																								machine
hollow chisel																								hollow chisel
mortiser, wood																								mortiser, wood
borer																								borer
chamfering																								chamfering
machine, router,																								machine, router,
woodworking																								woodworking
milling machine																								milling machine
chain saw																								chain saw
other woodworking																								other woodworking
machines																								machines

leveling,														leveling,
transporting or														transporting or
loading machine														loading machine
excavating machine														excavating machine
foundation work														foundation work
machine														machine
hardening machine														hardening machine
demolition machine														demolition machine
vehicle for high lift														vehicle for high lift
work														work
other construction														other construction
machines														machines
lathe		1											1	lathe
drill press, milling														drill press, milling
machine														machine
grinding machine,														grinding machine,
buffing machine														buffing machine
power press														power press
forging pressure														forging pressure
hammer														hammer
shearing machine														shearing machine
other metal														other metal
manufacturing	1					1							2	manufacturing
machines														machines

centrifugal machine														centrifugal machine
mixer, grinder														mixer, grinder
roll machine (except printingroll machine)														roll machine (except printingroll machine)
injection molding machine														injection molding machine
food manufacturing machine														food manufacturing machine
printing machine														printing machine
industrial robot														industrial robot
other general power machines														other general power machines
felling machine														felling machine
mobile logging machine														mobile logging
skyline yarding machine														skyline yarding machine
other mobile silviculture machine														other mobile silviculture machine
crane														crane
mobile crane														mobile crane
derrick crane														derrick crane
elevator, lift														elevator, lift
	11		11	11								11		

cargo lifting																cargo lifting
appliance																appliance
gondola																gondola
lumberyard																lumberyard
equipment, logging																equipment, logging
cableway																cableway
simple skyline																simple skyline
yarding equipment																yarding equipment
other powered																other powered
crane																crane
truck	1														1	truck
forklift							1					1	1		3	forklift
railway equipment																railway equipment
conveyor														1	1	conveyor
loader																loader
straddle carrier																straddle carrier
rough terrain hauler																rough terrain hauler
other powered																other powered
conveying machines											ľ					conveying machines
cars, bus,																cars, bus,
motorcycle															3	motorcycle
railway vehicle																railway vehicle
other vehicles																other vehicles
boiler																boiler

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

hand tool													hand tool
ladder													ladder
slinging tool													slinging tool
other tools													other tools
other equipment,													other equipment,
facilities													facilities
scaffolding													scaffolding
timbering													timbering
stairs, landing stage													stairs, landing stage
opening													opening
roof, beam, haze,													roof, beam, haze,
crossbeam,													crossbeam,
principal rafter													principal rafter
working platform,													working platform,
boot board													boot board
passage													passage
building,													building,
establishment													establishment
other temporary													other temporary
buildings,													buildings,
establishments													establishments
explosive substance													explosive substance
inflammable													inflammable
substance													substance

inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
other hazards,													other hazards,
harmful substances													harmful substances
metal material													metal material
lumber, bamboo													lumber, bamboo
stone, sand,													stone, sand,
substance													substance
other materials													other materials
load													load
machine/equipment													machine/equipment
as load													as load
natural ground,													natural ground,
rock													rock
standing tree													standing tree
water													water
abnormal													abnormal
environment													environment
high/cold													high/cold
temperature													temperature
environment													environment
other environments													other environments
other causal agent													other causal agent

		\sqsubseteq		\sqsubseteq	\sqsubseteq	\square	\sqsubseteq	 \sqsubseteq	\sqsubseteq				\sqsubseteq	\sqsubseteq	\sqsubseteq		 		
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										1			1											2	60 years old or
more										•			'											II I	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						1				3	100-299
300 workers or	1					1			2	1					1	1	7	300 workers or
more	1					ı			2	1					I	I	,	more
total	2	1	1		1	1	1		2	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	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																									Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagat
Fukushima																									Fukushin
Ibaraki																					1			1	Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba																									Chiba
Tokyo														1										1	Tokyo
Kanagawa																									Kanagaw
Niigata																							1	1	Niigata
Toyama																				2				2	Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																			1					1	Yamanas
Nagano		1	1			1																		3	Nagano
Gifu																									Gifu

Shizuoka					1								1	2	Shizuoka
Aichi	2					1		1						4	Aichi
Mie															Mie
Shiga															Shiga
Kyoto															Kyoto
Osaka															Osaka
Hyogo															Hyogo
Nara															Nara
Wakayama															Wakayama
Tottori															Tottori
Shimane															Shimane
Okayama															Okayama
Hiroshima															Hiroshima
Yamaguchi															Yamaguchi
Tokushima															Tokushima
Kagawa								1						1	Kagawa
Ehime															Ehime
Kochi															Kochi
Fukuoka															Fukuoka
Saga															Saga
Nagasaki															Nagasaki
Kumamoto															Kumamoto
Oita															Oita

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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