

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

machine products industry Code No.0113

Type of accidents in 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	305	285	289	269	239	274	251	254	275	255	184	198	191	216	189	189	163	195	185	189	181	193	190	5,159	fall from height
falling to same level	278	261	252	210	265	241	253	281	258	277	178	211	214	228	210	234	222	209	221	277	225	258	257	5,520	falling to same level
crash	137	143	122	112	113	124	119	99	130	90	69	65	97	73	78	78	70	61	65	81	79	78	82	2,165	crash
struck by flying or falling object	431	426	466	358	352	384	404	386	332	333	234	224	257	278	238	265	213	217	202	205	190	175	174	6,744	struck by flying or falling object
collapse	110	94	93	78	77	83	95	101	90	82	50	56	50	72	65	56	60	53	51	54	56	41	53	1,620	collapse
crashed by	158	120	167	143	130	138	142	149	141	146	91	85	91	90	79	78	98	80	80	85	104	73	103	2,571	crashed by
caught in/between	1,116	1,028	964	894	917	868	831	867	775	759	513	588	642	531	506	503	510	481	500	481	473	357	472	15,576	caught in/between
cut	307	310	297	275	256	227	240	235	259	221	140	156	172	166	159	167	135	125	112	146	148	115	130	4,498	cut
injury to the sole of the foot	3	3	3	2	1	6	1	3	5		2	1	4	3	1	2	6	4	3	6			4	63	injury to the sole of the foot
drown												1	5					1				1		8	drown
contact to high/low-temperature	46	45	34	37	31	39	35	42	36	50	17	36	33	26	27	27	31	28	30	48	34	24	27	783	contact to high/low-temperature
contact to harmful	13	20	14	15	17	16	19	20	19	11	14	18	12	5	6	18	9	11	8	10	7	8	16	306	contact to harmful

substance																										substance
electric shock	3	4	10	7	8	6	4		5	5	3	7	2	2	2	2	4		2	5	5	2	7	95	electric shock	
explosion	2	6	1	1	9		8		6	2	1	2	1	1	1	5	3	2	7	2	1	2		63	explosion	
burst	4	2	3	2	5	1	5	5	2	2	2	1	2	4	3	2	2	2	3		1	3	2	58	burst	
fire	3	4	5	7	1	3	3	1	3		3	5	7	1	3	4	3	3	1	1	2	1	3	67	fire	
traffic accident (public road)	38	44	55	33	36	50	31	49	30	33	25	43	47	25	28	23	28	27	24	28	22	9	21	749	traffic accident (public road)	
traffic accident (others)	1	2	1						3			1			1	1		1	2		1		1	15	traffic accident (others)	
reaction to motion/improper motion	207	181	202	172	187	195	202	231	273	243	153	184	203	162	154	182	179	163	191	189	194	158	202	4,407	reaction to motion/improper motion	
others	12	6	7	10	10	10	13	7	13	11	7	8	26	12	8	11	9	10	9	11	17	33	137	397	others	
unclassifiable	3	7	4		7	2	4	2	2		1	2	2	3	5	3	7	3	5	2	2	1		67	unclassifiable	
total	3,177	2,991	2,989	2,625	2,661	2,667	2,660	2,732	2,657	2,520	1,687	1,892	2,058	1,898	1,763	1,850	1,752	1,676	1,701	1,820	1,742	1,532	1,881	50,931	total	

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

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	1,204	1,085	1,015	945	918	885	868	907	821	803	510	590	665	587	545	535	523	499	480	513	495	407	478	16,278	machine
crane, conveying machine	317	309	334	305	285	330	312	328	321	281	182	255	226	215	204	213	199	190	181	233	206	142	189	5,757	crane, conveying machine
other equipment	496	487	507	421	446	446	492	462	464	451	318	326	361	334	318	360	323	299	337	322	333	296	365	8,964	other

																										equipment
temporary buildings, establishments	350	334	326	294	317	325	280	317	309	314	205	233	246	264	236	250	257	248	248	291	243	282	267	6,436	temporary buildings, establishments	
substance, material	509	479	512	423	447	419	444	461	439	378	286	265	303	286	263	290	258	251	254	225	231	190	231	7,844	substance, material	
load	183	174	189	154	135	144	140	146	171	148	102	95	108	94	88	84	74	71	83	94	87	74	100	2,738	load	
environment	26	11	18	10	13	20	22	14	12	23	11	23	36	38	25	32	22	29	23	44	29	18	26	525	environment	
others	92	112	88	73	100	98	102	97	120	122	73	105	113	80	84	86	96	89	95	98	118	123	225	2,389	others	
total	3,177	2,991	2,989	2,625	2,661	2,667	2,660	2,732	2,657	2,520	1,687	1,892	2,058	1,898	1,763	1,850	1,752	1,676	1,701	1,820	1,742	1,532	1,881	50,931	total	

Causal agents (middle) of fatal and non-fatal accidents in 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	2	4	3	4	5	1	2	3		3	1	2	3	3	2		3	2	1	2	2	1	1	50	engine
power transmission mechanism	23	30	22	19	22	24	23	23	18	19	14	8	16	17	15	11	11	13	19	16	13	11	8	395	power transmission mechanism
woodworking machine	29	17	17	20	19	14	21	16	21	15	10	17	12	7	7	13	10	9	9	12	11	10	14	330	woodworking machine
construction machine	12	9	12	6	13	11	10	12	9	9	3	10	6	11	12	8	7	10	6	8	7	4	5	200	construction machine
metal manufacturing machine	894	817	748	705	663	653	631	651	579	593	376	431	492	424	399	394	384	363	333	362	346	286	335	11,859	metal manufacturing machine

general machine	244	208	213	191	196	182	181	202	194	164	106	122	136	125	110	109	108	102	112	113	116	95	115	3,444	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	143	133	142	144	130	150	137	146	139	128	81	108	82	97	93	107	85	90	78	98	102	69	77	2,559	crane	
conveying machine	121	141	124	126	121	130	135	135	137	124	78	101	98	95	86	73	82	76	70	95	80	61	86	2,375	conveying machine	
vehicle	53	35	68	35	34	50	40	47	45	29	23	46	46	23	25	33	32	24	33	40	24	12	26	823	vehicle	
pressure vessel	8	5	8	8	5	5	7	5	3	3	4	2	1	3	1		1	2	3	3	6	2	4	89	pressure vessel	
chemical facilities	1		2	2	1		1		2	1		1	2			1	2			1				17	chemical facilities	
welding equipment	27	24	26	19	22	21	26	22	25	26	21	11	12	13	13	18	14	18	15	8	13	11	15	420	welding equipment	
kiln, caldron	5	12	8	7	15	9	8	3	7	6	3	6	4	3	3	8	8	2	4	6	1	4	5	137	kiln, caldron	
electric equipment	8	10	11	7	10	6	4	5	10	13	5	12	1	7	2	2	11	2	5	7	6	3	9	156	electric equipment	
human power machine, tools	129	117	138	109	110	125	119	118	124	114	82	79	103	92	75	103	86	77	88	104	98	64	111	2,365	human power machine, tools	
tools	253	246	241	199	223	220	242	239	218	220	168	171	187	182	178	173	150	150	158	161	167	176	166	4,488	tools	
other equipments, facilities	65	73	73	70	60	60	85	70	75	68	35	44	51	34	46	55	51	48	64	32	42	36	55	1,292	other equipments, facilities	
temporary buildings, establishments	350	334	326	294	317	325	280	317	309	314	205	233	246	264	236	250	257	248	248	291	243	282	267	6,436	temporary buildings, establishments	

hazards, harmful substances	19	37	27	26	29	24	24	31	33	20	17	23	21	13	17	18	20	15	15	20	16	13	22	500	hazards, harmful substances
materials	490	442	485	397	418	395	420	430	406	358	269	242	282	273	246	272	238	236	239	205	215	177	209	7,344	materials
load	183	174	189	154	135	144	140	146	171	148	102	95	108	94	88	84	74	71	83	94	87	74	100	2,738	load
natural environment	26	11	18	10	13	20	22	14	12	23	11	23	36	38	25	32	22	29	23	44	29	18	26	525	natural environment
other causal agent	26	34	25	16	16	18	21	17	17	31	10	18	29	15	18	13	15	12	13	10	23	37	139	573	other causal agent
no causal agent	60	72	57	53	74	78	74	76	101	91	57	81	82	63	63	68	74	75	78	85	93	85	86	1,726	no causal agent
unclassifiable	6	6	6	4	10	2	7	4	2		6	6	2	2	3	5	7	2	4	3	2	1		90	unclassifiable
total	3,177	2,991	2,989	2,625	2,661	2,667	2,660	2,732	2,657	2,520	1,687	1,892	2,058	1,898	1,763	1,850	1,752	1,676	1,701	1,820	1,742	1,532	1,881	50,931	total

Causal agents (small) of fatal and non-fatal accidents in 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			3		5		2	3		3	1	2	3	3	2		3	2	1	2	2	1	1	39	engine
power transmission mechanism			22		22		23	23	18	19	14	8	16	17	15	11	11	13	19	16	13	11	8	299	power transmission mechanism
circular sawing machine			12		12		10	8	8	8	5	9	6	4	2	7	7	5	7	5	4	6	3	128	circular sawing machine
band sawing machine			1		1		1	1	3	1	3	3	2		2			1		2		1	1	23	band sawing machine
wood planer machine							4	2	1	2		2		1							1		1	14	wood planer machine

machine																									machine
other mobile silviculture machine																									other mobile silviculture machine
crane			118		109		116	122	117	114	69	89	69	86	76	91	75	77	69	79	88	62	64	1,690	crane
mobile crane			9		11		6	8	8	2	5	3	8	3	5	9	6	6	4	7	4	1	8	113	mobile crane
derrick crane																									derrick crane
elevator, lift			8		7		5	6	10	5	2	10	1	3	4	2	3		3	4	7	3	2	85	elevator, lift
cargo lifting appliance			1																			1	1	3	cargo lifting appliance
gondola					1					1					2									4	gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			6		2		10	10	4	6	5	6	4	5	6	5	1	7	2	8	3	2	2	94	other powered crane
truck			49		32		46	37	48	43	23	38	37	32	41	26	29	29	23	39	32	25	29	658	truck
forklift			37		48		53	63	51	47	30	29	36	32	27	20	33	28	29	30	32	24	33	682	forklift
railway equipment					1		1	2	1	4	1		3	1	1					1				16	railway equipment
conveyor			31		29		26	24	29	26	24	25	14	20	13	19	12	13	11	16	10	11	18	371	conveyor
loader			2													1				1				4	loader
straddle carrier																									straddle carrier
rough terrain hauler								1																1	rough terrain hauler
other powered			5		11		9	8	8	4		9	8	10	4	7	8	6	7	8	6	1	6	125	other powered

conveying machines																								conveying machines	
cars, bus, motorcycle			64		31		34	47	41	28	22	45	46	20	23	29	31	22	32	39	23	11	24	612	cars, bus, motorcycle
railway vehicle			1									1			1			1						4	railway vehicle
other vehicles			3		3		6		4	1	1		3	1	4	1	2		1	1	1	2	34	other vehicles	
boiler					2		3		1		1		2						1			1	11	boiler	
pressure vessel			3		2		2	2	1	2	2	1						1	2	1	2	1	2	24	pressure vessel
other pressure vessels			5		1		2	3	1	1	1	1	1	1	1		1	1	1	4	1	1	28	other pressure vessels	
chemical facilities			2		1		1		2	1		1	2			1	2			1			14	chemical facilities	
gas welding equipment			5		4		4	5	4	3	7	4		2	5	3	3	4	7	1	2	1		64	gas welding equipment
arc welding equipment			6		10		11	10	13	14	10	4	7	3	4	9	8	6	3	5	7	7	7	144	arc welding equipment
other welding equipment			15		8		11	7	8	9	4	3	5	8	4	6	3	8	5	2	4	3	8	121	other welding equipment
kiln, caldron			5		11		4	1	6	3	1	6	2	2	1	7	6	1	2	4		4	4	70	kiln, caldron
industrial dryer			2				4	1		2	1		2		1	1	2	1	2	1	1		1	22	industrial dryer
other kiln, caldron			1		4			1	1	1	1			1	1					1				12	other kiln, caldron
transmission			2		1			1	7	2	1	3		5			7	2	3	1	2	1	3	41	transmission
electric power facilities			2		5		2	2	2	7	4	6			1		1		1	2	2	2	2	41	electric power facilities
other electrical equipment			7		4		2	2	1	4		3	1	2	1	2	3		1	4	2		4	43	other electrical equipment
human power			4		5		3	5	5	3	7	2	5	4	6	4		1	2	1	4	3	11	75	human power

cranes																								cranes	
human power hauling equipment			37		43		49	41	44	44	27	31	43	36	27	46	46	36	34	42	36	28	43	733	human power hauling equipment
human power machine			3		7		4	6	2	4	2	5	2	2	4	6	4	3	3	8	5	2	4	76	human power machine
hand tool			94		55		63	66	73	63	46	41	53	50	38	47	36	37	49	53	53	31	53	1,001	hand tool
ladder			98		104		106	99	95	86	80	72	76	81	69	75	55	71	68	69	70	82	71	1,527	ladder
slinging tool			77		62		64	70	51	55	39	46	45	42	56	40	41	43	42	31	38	33	30	905	slinging tool
other tools			66		57		72	70	72	79	49	53	66	59	53	58	54	36	48	61	59	61	65	1,138	other tools
other equipment, facilities			73		60		85	70	75	68	35	44	51	34	46	55	51	48	64	32	42	36	55	1,024	other equipment, facilities
scaffolding			15		8		11	7	10	14	10	6	6	7	3	8	6	9	9	3	3	9	3	147	scaffolding
timbering																									timbering
stairs, landing stage			61		61		44	63	52	65	37	55	47	53	44	46	54	48	49	51	45	56	62	993	stairs, landing stage
opening			10		2		6	7	9	1	8		5	5	6	6	6	4	5	7	4	2	6	99	opening
roof, beam, haze, crossbeam, principal rafter			9		3		5	4	5	6	1	3	5	5	2	5	2	5	1	7	4	2	4	78	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			53		58		57	54	51	56	30	40	31	44	35	35	39	37	42	42	30	28	35	797	working platform, boot board
passage			113		114		95	116	102	101	77	88	86	89	89	103	96	98	96	127	98	134	116	1,938	passage
building, establishment			36		43		32	32	52	41	22	29	40	33	33	29	25	26	29	33	34	23	23	615	building, establishment
other temporary buildings, establishments			29		28		30	34	28	30	20	12	26	28	24	18	29	21	17	21	25	28	18	466	other temporary buildings, establishments

explosive substance				2		1								1		1						1	6	explosive substance	
inflammable substance			10		9		3	5	8	7	4	6	8	4	2	2	4	3	6	3	6	2	2	94	inflammable substance
inflammable gas					5		2	3	3	1			1	1	1	1	1	1	1	4		1		26	inflammable gas
harmful substance			10		8		14	11	14	4	12	12	8	3	5	7	7	7	5	6	5	5	7	150	harmful substance
radiation																									radiation
other hazards, harmful substances			7		5		4	12	8	8	1	5	4	5	8	8	7	4	3	7	5	5	12	118	other hazards, harmful substances
metal material			453		380		390	391	376	329	248	225	251	248	222	251	217	225	220	190	205	161	194	5,176	metal material
lumber, bamboo			9		15		9	15	11	11	4	5	3	11	10	3	10	4	7	3	5	8	2	145	lumber, bamboo
stone, sand, substance			3		2		2	5	2	2	2		4	1		1	1	1	3	1		1		31	stone, sand, substance
other materials			20		21		19	19	17	16	15	12	24	13	14	17	10	6	9	11	5	7	13	268	other materials
load			132		86		95	98	119	95	70	64	76	63	59	68	55	49	68	70	59	53	78	1,457	load
machine/equipment as load			57		49		45	48	52	53	32	31	32	31	29	16	19	22	15	24	28	21	22	626	machine/equipment as load
natural ground, rock			1				3		2	2		2		4	3	2	2		2	1	2	1		27	natural ground, rock
standing tree			1						1	2			2	5		2	1		1	2	1	1	2	21	standing tree
water					1		2		2	1	1	1	6					1	1		1	1	1	19	water
abnormal environment								1										1		1				3	abnormal environment
high/cold temperature environment			7				3	2	3	7	1	12	12	4	10	5	6	10	8	21	13	7	9	140	high/cold temperature environment

other environments			9		12		14	11	4	11	9	8	16	25	12	23	13	17	11	19	12	8	14	248	other environments
other causal agent			25		16		21	17	17	31	10	18	29	15	18	13	15	12	13	10	23	37	139	479	other causal agent
no causal agent			57		74		74	76	101	91	57	81	82	63	63	68	74	75	78	85	93	85	86	1,463	no causal agent
unclassifiable			6		10		7	4	2		6	6	2	2	3	5	7	2	4	3	2	1		72	unclassifiable
total			2,989		2,661		2,660	2,732	2,657	2,520	1,687	1,892	2,058	1,898	1,763	1,850	1,752	1,676	1,701	1,820	1,742	1,532	1,881	39,471	total

Workers age of fatal and non-fatal accidents in 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	110	97	84	90	89	77	75	92	82	57	43	47	35	33	45	49	39	41	48	34	32	23	28	1,350	19 years old or less
20-29	628	595	600	467	508	506	508	538	505	485	306	347	400	338	319	347	315	295	288	303	283	242	289	9,412	20-29
30-39	483	461	532	471	525	530	550	597	616	533	393	398	449	426	370	369	352	334	350	380	331	261	364	10,075	30-39
40-49	608	563	506	457	466	470	422	459	456	433	314	359	456	408	392	405	406	376	399	419	389	337	431	9,931	40-49
50-59	995	928	932	787	722	710	707	640	601	570	331	397	373	357	316	367	322	320	310	348	379	390	433	12,235	50-59
60 years old or more	353	347	335	353	351	374	398	406	397	442	300	344	345	336	321	313	318	310	306	336	328	279	336	7,928	60 years old or more
total	3,177	2,991	2,989	2,625	2,661	2,667	2,660	2,732	2,657	2,520	1,687	1,892	2,058	1,898	1,763	1,850	1,752	1,676	1,701	1,820	1,742	1,532	1,881	50,931	total

Workers' number of workplace of fatal and non-fatal accidents in 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	891	852	904	795	790	776	686	701	578	532	428	425	427	463	364	401	350	349	288	321	288	242	301	12,152	9 workers or less
10-29	954	890	877	774	776	759	783	766	690	687	446	495	523	498	492	472	465	434	428	425	429	385	483	13,931	10-29
30-49	395	347	363	335	358	356	369	374	372	321	205	241	286	228	258	239	241	220	266	272	258	209	234	6,747	30-49

Mie	85	64	64		58		65	76	68	61	34	47	69	47	37	51	47	48	42	57	59	31	51	1,161	Mie
Shiga	53	58	47		45		65	60	54	44	28	31	46	24	38	30	38	38	31	45	29	37	84	925	Shiga
Kyoto	60	54	56		49		50	43	55	50	31	35	51	33	36	34	47	23	37	45	44	42	56	931	Kyoto
Osaka	321	297	290		277		250	283	233	243	158	201	197	187	193	199	161	161	144	161	145	113	158	4,372	Osaka
Hyogo	186	160	168		153		136	145	146	133	94	103	111	98	92	92	74	90	93	88	90	91	93	2,436	Hyogo
Nara	18	13	20		16		24	19	19	20	11	12	19	11	8	11	16	16	5	12	15	12	21	318	Nara
Wakayama	23	30	24		25		25	22	26	27	16	14	23	17	23	18	15	16	14	6	21	10	15	410	Wakayama
Tottori	10	13	4		5		6	7	5	2	3		3	4	5	5	1	1	2	2	8	5	4	95	Tottori
Shimane	14	13	7		19		16	12	11	15	4	13	4	9	12	7	8	13	8	13	7	5	9	219	Shimane
Okayama	41	53	61		40		39	57	53	48	23	27	40	40	35	41	26	30	37	44	28	38	40	841	Okayama
Hiroshima	104	119	115		103		108	90	104	103	70	70	61	70	66	74	73	59	79	71	65	45	64	1,713	Hiroshima
Yamaguchi	57	36	39		36		26	39	43	37	29	22	24	11	16	21	21	17	18	25	20	26	14	577	Yamaguchi
Tokushima	18	13	18		20		17	23	13	13	8	16	17	11	12	13	13	4	10	10	9	7	7	272	Tokushima
Kagawa	27	35	34		23		44	35	28	30	20	21	28	24	23	28	16	22	21	36	26	17	22	560	Kagawa
Ehime	67	57	68		57		50	55	43	51	48	40	50	41	33	38	29	42	43	36	32	28	26	934	Ehime
Kochi	30	20	33		20		21	25	24	17	23	20	16	25	18	18	24	18	17	18	14	22	12	435	Kochi
Fukuoka	99	85	89		79		80	68	68	68	47	61	62	55	66	52	59	50	54	61	57	51	64	1,375	Fukuoka
Saga	13	25	22		16		23	28	29	22	17	14	12	15	16	19	15	11	15	13	16	12	12	365	Saga
Nagasaki	32	36	37		22		29	33	22	33	22	24	23	27	20	38	30	20	17	25	21	14	15	540	Nagasaki
Kumamoto	23	14	15		12		22	16	26	19	11	11	10	6	10	17	14	11	15	12	10	7	7	288	Kumamoto
Oita	12	5	17		19		11	23	18	22	17	12	7	10	10	10	6	3	4	2	8	9	15	240	Oita
Miyazaki	16	14	15		14		12	8	10	12	7	5	8	7	11	6	8	12	7	11	14	2	14	213	Miyazaki
Kagoshima	20	15	13		11		12	9	6	10	10	5	7	5	5	7	9	7	6	10	6	12	7	192	Kagoshima
Okinawa	2	3			1		1	1			1								1	1			1	12	Okinawa

load			1		1	2	1	2						1	1								10	load	
natural environment			1					1				1	6		1							1		11	natural environment
other causal agent						1				1														2	other causal agent
no causal agent				2					1			2	5	1	2	2	2	3				1	2	23	no causal agent
unclassifiable																									unclassifiable
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	367	total

Causal agents (small) of fatal accidents in 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																										power transmission mechanism
circular sawing machine				1																					1	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking

pressure vessel			1			1																2	pressure vessel		
other pressure vessels									1														1	other pressure vessels	
chemical facilities																								chemical facilities	
gas welding equipment																								gas welding equipment	
arc welding equipment		1				1			1					1			1						5	arc welding equipment	
other welding equipment																								other welding equipment	
kiln, caldron														1									1	kiln, caldron	
industrial dryer			1																				1	industrial dryer	
other kiln, caldron			1																				1	other kiln, caldron	
transmission										1													1	transmission	
electric power facilities									1	1				1								1	4	electric power facilities	
other electrical equipment				1																			1	other electrical equipment	
human power cranes	1									1													2	human power cranes	
human power hauling equipment				1				1														1	3	human power hauling equipment	
human power machine													1										1	human power machine	
hand tool																								hand tool	
ladder		1	1						1	1												1	1	6	ladder

January	1	1	3	3	2	4	1	3	5	1	1		1	4	1			1	1	1	1	1		36	January
February	2	3	1	1	2	2	2	3	3		1	1	2		3	2			3	2			3	36	February
March	1	3	2	2		2	3		4		1	1	9	2		2		4	2	2	2		3	45	March
April	2		2	2	1	1	1		1		2	3	2		1	1	1	1		1	3		25	April	
May		2	1	3			1	3		1	2	1	3	1	1	1		1		1		1	1	24	May
June		3		1	3	3	1	1		2			1	1			1	2	2	1	1	2	3	28	June
July	2	2	2	1	3	1	1	4	1		1	1	1	1	2	1	1			1		3	1	30	July
August	1	4	4		1	2	3	1	1	2		2		3	2	3			1			1	2	33	August
September	7	2	2	1	1	1	2		2	1				2	3	2	2	1	1					30	September
October	1			1	1	2			1	1	1	2		1	4		2	1	1	2	1	1		23	October
November	2	1	2		1		1	3	2	1	1	3	2	2	2	1		1		1				26	November
December	4	2	1	1	1	4		2	2			3		1	3			1	2	1	2	1		31	December
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	367	total

Prefecture of fatal accidents in 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		1	2		1				1			1		1				1	1					9	Hokkaido
Aomori						1						1												2	Aomori
Iwate	1					2							1		1									5	Iwate
Miyagi		1	1					1					5											8	Miyagi
Akita			1																					1	Akita
Yamagata	1		1	1								1			2			1					1	8	Yamagata
Fukushima										1			1	1							1			4	Fukushima
Ibaraki	1	1	1	1	1	1		1	1					1				1			1			11	Ibaraki

Okayama			1		1			1		1		1											7	Okayama		
Hiroshima	3	1	2		1	2			1	1		1					1	4		1			19	Hiroshima		
Yamaguchi				1		1				1	1								1					5	Yamaguchi	
Tokushima						1							1												2	Tokushima
Kagawa									1				1												2	Kagawa
Ehime		1		1			3		1		1		1			1	1		2						12	Ehime
Kochi	1																						1	2	Kochi	
Fukuoka	1					1	1				2	1		2		1						3	1	13	Fukuoka	
Saga																2									2	Saga
Nagasaki	1	1				1		2				1			1	2	1								10	Nagasaki
Kumamoto											1	1							1						3	Kumamoto
Oita									1																1	Oita
Miyazaki							1		1																2	Miyazaki
Kagoshima													1												1	Kagoshima
Okinawa					1																				1	Okinawa
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	367	total	

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

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