

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

machine products industry Code No.011301

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	266	252	244	232	208	242	205	215	233	222	163	172	162	183	168	168	136	168	153	162	150	169	168	4,441	fall from height
falling to same level	216	208	191	156	214	194	205	227	205	222	147	171	163	181	162	180	160	153	163	220	166	200	200	4,304	falling to same level
crash	118	122	101	91	95	109	98	88	107	77	59	55	77	60	72	68	57	51	57	68	66	67	62	1,825	crash
struck by flying or falling object	392	356	396	314	295	333	360	344	294	290	204	207	230	240	216	248	187	191	180	188	166	157	156	5,944	struck by flying or falling object
collapse	100	82	87	67	70	71	85	90	85	71	47	49	44	61	58	52	57	45	49	48	52	37	48	1,455	collapse
crashed by	142	99	144	128	104	121	127	130	121	127	80	73	74	75	72	68	86	74	70	70	86	64	91	2,226	crashed by
caught in/between	938	854	804	741	763	755	693	751	638	621	442	511	545	444	431	435	445	415	438	406	406	297	418	13,191	caught in/between
cut	248	256	241	218	200	185	185	189	201	189	114	123	145	137	138	144	114	107	96	123	128	106	106	3,693	cut
injury to the sole of the foot	3	2	3	2	1	4	1	3	3		2	1	4	3	1	2	6	3	2	6			4	56	injury to the sole of the foot
drown													5					1				1		7	drown
contact to high/low-temperature	40	37	28	29	25	34	28	31	30	45	15	31	29	24	23	22	27	23	25	44	31	22	19	662	contact to high/low-temperature
contact to harmful	9	14	10	10	12	13	13	17	12	8	12	14	6	5	4	12	6	10	5	9	5	7	12	225	contact to harmful

substance																									substance
electric shock	2	3	6	6	6	5	3		3	5	2	6	2	2	2	2	4		1	4	3	2	6	75	electric shock
explosion	2	5	1	1	8		8		5	2	1	2				5	3	2	7	1	1	2		56	explosion
burst	4	2	3	2	3	1	4	5	2	2	2	1	2	4	2	2	2	2	3		1	2	2	53	burst
fire	1	3	3	7	1	2	2		1		3	5	6	1	2	2	1	2	1	1	2	1	3	50	fire
traffic accident (public road)	30	39	39	28	25	44	25	32	21	25	21	29	39	21	24	17	26	26	17	22	18	8	14	590	traffic accident (public road)
traffic accident (others)		2	1						3			1			1			1	1				1	11	traffic accident (others)
reaction to motion/improper motion	173	141	173	139	148	162	155	192	219	188	118	143	161	130	121	148	143	121	147	138	141	126	164	3,491	reaction to motion/improper motion
others	8	6	7	9	9	10	10	4	11	8	5	6	7	11	6	9	6	7	7	8	13	22	109	298	others
unclassifiable	3	3	3		6	2	4	2	1		1	2		3	5	3	7	3	5	2	2			57	unclassifiable
total	2,695	2,486	2,485	2,180	2,193	2,287	2,211	2,320	2,195	2,102	1,438	1,602	1,701	1,585	1,508	1,587	1,473	1,405	1,427	1,520	1,437	1,290	1,583	42,710	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	1,012	893	844	758	735	758	709	763	655	660	426	502	561	480	463	455	453	426	420	441	410	342	423	13,589	machine
crane, conveying machine	268	270	287	276	248	291	274	283	275	246	168	217	199	188	180	192	178	174	156	205	182	130	154	5,041	crane, conveying machine
other equipment	424	412	428	361	374	381	423	391	398	382	271	285	308	288	278	331	266	252	284	264	271	258	309	7,639	other

																										equipment
temporary buildings, establishments	286	273	249	223	247	264	213	262	240	257	166	185	190	213	191	193	196	193	186	224	191	227	207	5,076	temporary buildings, establishments	
substance, material	452	411	440	365	389	369	381	404	390	323	260	234	254	251	238	258	227	219	228	201	208	170	202	6,874	substance, material	
load	158	135	153	133	109	124	112	128	141	118	83	79	85	66	75	65	58	56	65	78	64	58	84	2,227	load	
environment	20	8	15	8	13	15	20	11	9	19	9	19	30	30	21	23	16	21	15	39	22	16	22	421	environment	
others	75	84	69	56	78	85	79	78	87	97	55	81	74	69	62	70	79	64	73	68	89	89	182	1,843	others	
total	2,695	2,486	2,485	2,180	2,193	2,287	2,211	2,320	2,195	2,102	1,438	1,602	1,701	1,585	1,508	1,587	1,473	1,405	1,427	1,520	1,437	1,290	1,583	42,710	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	1	3	3	3	5	1	2	3		3	1	1	3	3	2		3	2	1	2	2	1	1	46	engine
power transmission mechanism	22	22	20	15	20	21	18	19	15	18	12	6	13	11	13	8	10	11	18	13	10	7	7	329	power transmission mechanism
woodworking machine	28	14	16	17	15	13	18	13	17	12	7	15	11	5	7	13	9	8	8	12	6	8	13	285	woodworking machine
construction machine	12	9	12	5	13	9	10	12	8	9	3	9	6	10	11	8	7	10	6	8	6	4	5	192	construction machine
metal manufacturing machine	752	684	624	585	532	564	518	555	460	504	323	374	420	354	336	335	334	310	295	310	300	249	299	10,017	metal manufacturing machine

general machine	197	161	169	133	150	150	143	161	155	114	80	97	108	97	94	91	90	85	92	96	86	73	98	2,720	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	128	116	130	132	118	134	127	137	125	116	75	101	75	90	82	101	78	88	74	93	97	67	69	2,353	crane	
conveying machine	98	124	104	114	104	116	116	114	116	109	74	88	86	82	76	67	72	64	61	79	68	52	67	2,051	conveying machine	
vehicle	42	30	53	30	26	41	31	32	34	21	19	28	38	16	22	24	28	22	21	33	17	11	18	637	vehicle	
pressure vessel	7	5	7	7	2	4	4	4	2	3	3	1	1	3	1		1	2	2	1	4	2	3	69	pressure vessel	
chemical facilities	1		2	1	1				2			1				1	2			1				12	chemical facilities	
welding equipment	23	22	23	15	19	20	23	21	22	23	20	9	12	13	11	17	13	17	15	8	13	10	14	383	welding equipment	
kiln, caldron	4	9	7	6	13	7	8	3	6	4	3	5	3	3	3	8	6	2	4	4	1	3	5	117	kiln, caldron	
electric equipment	7	6	9	6	7	5	3	3	9	9	4	12	1	5	2	1	9	1	3	6	5	2	8	123	electric equipment	
human power machine, tools	104	95	116	94	87	107	99	100	103	98	63	67	87	78	66	93	68	62	74	86	82	59	89	1,977	human power machine, tools	
tools	222	216	205	175	197	192	212	202	191	190	149	154	160	153	158	163	126	131	137	133	136	153	150	3,905	tools	
other equipments, facilities	56	59	59	57	48	46	74	58	63	55	29	36	44	33	37	48	41	37	49	25	30	29	40	1,053	other equipments, facilities	
temporary buildings, establishments	286	273	249	223	247	264	213	262	240	257	166	185	190	213	191	193	196	193	186	224	191	227	207	5,076	temporary buildings, establishments	

hazards, harmful substances	16	27	20	17	21	18	16	23	21	17	14	17	13	10	12	12	12	13	12	18	11	10	15	365	hazards, harmful substances
materials	436	384	420	348	368	351	365	381	369	306	246	217	241	241	226	246	215	206	216	183	197	160	187	6,509	materials
load	158	135	153	133	109	124	112	128	141	118	83	79	85	66	75	65	58	56	65	78	64	58	84	2,227	load
natural environment	20	8	15	8	13	15	20	11	9	19	9	19	30	30	21	23	16	21	15	39	22	16	22	421	natural environment
other causal agent	22	28	19	11	13	16	16	12	13	24	7	14	11	13	15	11	13	7	10	9	16	24	110	434	other causal agent
no causal agent	48	52	47	43	57	67	57	64	73	73	44	62	62	54	44	55	60	55	59	56	71	65	72	1,340	no causal agent
unclassifiable	5	4	3	2	8	2	6	2	1		4	5	1	2	3	4	6	2	4	3	2			69	unclassifiable
total	2,695	2,486	2,485	2,180	2,193	2,287	2,211	2,320	2,195	2,102	1,438	1,602	1,701	1,585	1,508	1,587	1,473	1,405	1,427	1,520	1,437	1,290	1,583	42,710	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	1	3	3	2		3	2	1	2	2	1	1	38	engine	
power transmission mechanism			20		20		18	19	15	18	12	6	13	11	13	8	10	11	18	13	10	7	7	249	power transmission mechanism	
circular sawing machine			11		8		9	6	6	6	4	7	5	3	2	7	6	4	6	5	4	4	2	105	circular sawing machine	
band sawing machine			1		1		1	1	2		2	3	2		2			1		2		1	1	20	band sawing machine	
wood planer machine							3	2	1	2		2		1								1		1	13	wood planer machine





machine																									machine
other mobile silviculture machine																									other mobile silviculture machine
crane			107		98		109	114	105	104	63	84	63	82	69	88	68	75	65	76	84	60	57	1,571	crane
mobile crane			8		11		6	8	7	2	5	3	8	2	4	8	6	6	4	6	3	1	8	106	mobile crane
derrick crane																									derrick crane
elevator, lift			8		6		4	6	9	4	2	9	1	2	3	1	3		3	3	7	3	1	75	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		8	9	4	5	5	5	3	4	4	4	1	7	2	8	3	2	2	84	other powered crane
truck			39		25		37	32	42	39	23	37	34	26	36	24	25	22	19	32	29	17	24	562	truck
forklift			31		43		47	56	41	43	28	21	29	30	26	20	30	25	26	24	24	23	27	594	forklift
railway equipment					1		1	2	1	2	1		3	1	1					1				14	railway equipment
conveyor			27		24		22	17	25	21	22	22	13	18	10	17	10	11	11	14	9	11	11	315	conveyor
loader			2													1								3	loader
straddle carrier																									straddle carrier
rough terrain hauler								1																1	rough terrain hauler
other powered			5		11		9	6	7	4		8	7	7	3	5	7	6	5	8	6	1	5	110	other powered



conveying machines																									conveying machines
cars, bus, motorcycle			49		23		25	32	30	21	18	28	38	14	20	20	27	20	20	32	16	10	16	459	cars, bus, motorcycle
railway vehicle			1												1				1					3	railway vehicle
other vehicles			3		3		6		4		1			2	1	4	1	2		1	1	1	2	32	other vehicles
boiler					1		2				1			2						1				7	boiler
pressure vessel			2		1			1	1	2	1	1						1	2		2	1	2	17	pressure vessel
other pressure vessels			5				2	3	1	1	1		1	1	1		1	1			2	1	1	22	other pressure vessels
chemical facilities			2		1				2			1				1	2			1				10	chemical facilities
gas welding equipment			5		4		4	4	3	3	7	3		2	4	3	3	3	7	1	2	1		59	gas welding equipment
arc welding equipment			5		9		11	10	12	11	10	3	7	3	4	9	7	6	3	5	7	6	7	135	arc welding equipment
other welding equipment			13		6		8	7	7	9	3	3	5	8	3	5	3	8	5	2	4	3	7	109	other welding equipment
kiln, caldron			5		10		4	1	5	2	1	5	2	2	1	7	5	1	2	3		3	4	63	kiln, caldron
industrial dryer			2				4	1		1	1		1		1	1	1	1	2		1		1	18	industrial dryer
other kiln, caldron					3			1	1	1	1			1	1					1				10	other kiln, caldron
transmission			2		1			1	6	2	1	3		4			5	1	3	1	2		2	34	transmission
electric power facilities			1		5		1	2	2	6	3	6			1		1			2	2	2	2	36	electric power facilities
other electrical equipment			6		1		2		1	1		3	1	1	1	1	3			3	1		4	29	other electrical equipment
human power			4		3		3	3	5	3	6	1	5	3	6	4		1	2	1	3	3	8	64	human power

cranes																									cranes
human power hauling equipment			31		34		40	35	36	35	18	26	36	27	24	43	34	31	25	32	29	26	35	597	human power hauling equipment
human power machine			1		5		4	5	1	3	2	3	1	2	3	5	4	2	3	7	5	2	4	62	human power machine
hand tool			80		45		52	57	61	57	37	37	45	46	33	41	30	28	44	46	45	28	42	854	hand tool
ladder			87		94		91	76	85	75	75	67	63	71	59	71	47	60	59	56	53	72	64	1,325	ladder
slinging tool			65		60		59	67	48	51	33	42	42	39	53	39	37	40	40	28	36	30	30	839	slinging tool
other tools			53		43		62	59	58	64	41	45	55	43	46	53	42	31	38	49	47	51	56	936	other tools
other equipment, facilities			59		48		74	58	63	55	29	36	44	33	37	48	41	37	49	25	30	29	40	835	other equipment, facilities
scaffolding			13		6		11	6	9	14	10	5	4	5	3	6	6	9	9	3	2	8	3	132	scaffolding
timbering																									timbering
stairs, landing stage			42		45		33	52	30	51	25	39	35	38	38	34	41	38	35	40	32	46	52	746	stairs, landing stage
opening			9		2		6	4	8	1	7		5	5	6	5	5	3	4	7	4	2	5	88	opening
roof, beam, haze, crossbeam, principal rafter			5		3		5	4	3	5	1	2	5	5	1	3	1	5	1	7	4	2	2	64	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			44		46		37	51	45	47	28	34	25	40	34	29	32	30	29	35	26	24	30	666	working platform, boot board
passage			82		84		71	86	81	76	59	69	67	65	66	77	67	70	75	87	73	103	79	1,437	passage
building, establishment			30		35		26	29	42	39	18	26	29	31	25	26	21	21	20	29	30	20	21	518	building, establishment
other temporary buildings, establishments			24		26		24	30	22	24	18	10	20	24	18	13	23	17	13	16	20	22	15	379	other temporary buildings, establishments

explosive substance						1								1	1						1	4	explosive substance	
inflammable substance			6		8	1	4	4	7	3	5	7	2	1	1	2	3	6	3	4	2	1	70	inflammable substance
inflammable gas					2	2	3	3	1				1	1		1	1	3		1		20	inflammable gas	
harmful substance			8		7	10	6	7	3	10	8	3	2	4	3	4	6	3	6	4	3	5	102	harmful substance
radiation																							radiation	
other hazards, harmful substances			6		4	2	10	7	6	1	4	3	5	5	8	4	3	2	6	3	4	8	91	other hazards, harmful substances
metal material			393		339	344	351	343	282	229	201	221	222	207	231	198	200	200	171	190	145	175	4,642	metal material
lumber, bamboo			9		13	9	12	11	9	4	5	3	11	10	2	9	3	7	3	4	8	2	134	lumber, bamboo
stone, sand, substance			3		1	2	4	2	2	2		2	1		1	1	1	2	1		1		26	stone, sand, substance
other materials			15		15	10	14	13	13	11	11	15	7	9	12	7	2	7	8	3	6	10	188	other materials
load			106		63	74	84	98	75	56	52	60	47	49	50	40	39	51	56	41	42	64	1,147	load
machine/equipment as load			47		46	38	44	43	43	27	27	25	19	26	15	18	17	14	22	23	16	20	530	machine/equipment as load
natural ground, rock			1			2		2	2				4	2	2	2		1	1	2	1		22	natural ground, rock
standing tree			1						2			2	4		1	1		1	2	1	1	2	18	standing tree
water					1	2		2	1	1	1	6					1	1		1	1		18	water
abnormal environment							1										1		1				3	abnormal environment
high/cold temperature environment			6			3	2	3	5	1	10	10	4	10	5	6	7	6	20	13	6	7	124	high/cold temperature environment

other environments			7		12		13	8	2	9	7	8	12	18	9	15	7	12	6	15	5	7	13	185	other environments
other causal agent			19		13		16	12	13	24	7	14	11	13	15	11	13	7	10	9	16	24	110	357	other causal agent
no causal agent			47		57		57	64	73	73	44	62	62	54	44	55	60	55	59	56	71	65	72	1,130	no causal agent
unclassifiable			3		8		6	2	1		4	5	1	2	3	4	6	2	4	3	2			56	unclassifiable
total			2,485		2,193		2,211	2,320	2,195	2,102	1,438	1,602	1,701	1,585	1,508	1,587	1,473	1,405	1,427	1,520	1,437	1,290	1,583	33,062	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	91	78	69	75	70	67	57	80	74	46	36	41	29	28	39	41	34	34	40	31	28	20	26	1,134	19 years old or less
20-29	519	490	488	373	426	441	409	447	404	408	258	292	324	282	278	308	260	254	260	253	243	214	243	7,874	20-29
30-39	401	383	443	394	434	446	458	497	502	422	337	337	359	348	318	314	301	278	291	325	270	213	310	8,381	30-39
40-49	520	463	433	376	376	385	355	389	378	359	264	290	373	335	328	331	345	310	320	335	312	287	360	8,224	40-49
50-59	860	778	763	672	595	621	583	555	504	482	286	330	315	296	263	325	266	264	251	281	315	310	356	10,271	50-59
60 years old or more	304	294	289	290	292	327	349	352	333	385	257	312	301	296	282	268	267	265	265	295	269	246	288	6,826	60 years old or more
total	2,695	2,486	2,485	2,180	2,193	2,287	2,211	2,320	2,195	2,102	1,438	1,602	1,701	1,585	1,508	1,587	1,473	1,405	1,427	1,520	1,437	1,290	1,583	42,710	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	772	730	787	694	681	697	594	616	502	466	378	372	382	399	324	364	294	315	249	276	253	212	268	10,625	9 workers or less
10-29	824	769	729	657	651	658	661	677	578	592	391	432	446	420	428	408	423	377	374	371	371	339	425	12,001	10-29
30-49	334	283	303	269	291	303	304	313	315	280	178	213	235	196	230	209	205	190	238	241	220	188	199	5,737	30-49





Mie	73	56	53		45		51	60	62	50	32	41	58	37	28	43	41	42	38	54	46	25	42	977	Mie
Shiga	42	47	32		33		53	50	47	39	24	26	43	23	34	27	34	28	27	35	23	30	76	773	Shiga
Kyoto	43	38	31		25		31	32	37	31	20	26	35	26	22	27	30	17	23	24	29	24	46	617	Kyoto
Osaka	286	247	241		256		225	249	206	209	139	179	173	170	169	181	143	141	135	144	132	100	144	3,869	Osaka
Hyogo	173	140	152		138		125	136	131	126	86	95	102	90	87	85	61	76	79	77	85	82	85	2,211	Hyogo
Nara	17	13	18		14		18	19	18	20	10	12	18	11	7	11	16	15	5	10	15	12	21	300	Nara
Wakayama	19	29	22		21		20	20	24	22	14	13	21	14	22	16	14	15	13	5	20	9	14	367	Wakayama
Tottori	10	12	4		5		5	7	5	2	3		3	3	5	5	1	1	2	2	8	5	4	92	Tottori
Shimane	13	13	5		15		13	10	10	13	4	12	3	8	11	7	8	10	8	11	6	5	8	193	Shimane
Okayama	37	48	57		35		36	51	46	43	22	25	38	36	35	40	25	29	35	43	26	35	36	778	Okayama
Hiroshima	92	104	100		91		94	82	97	95	61	62	58	66	59	69	66	56	74	69	62	41	58	1,556	Hiroshima
Yamaguchi	57	34	37		33		25	32	41	34	26	21	22	9	16	18	20	17	18	25	18	23	13	539	Yamaguchi
Tokushima	18	13	18		20		16	23	12	11	8	16	15	11	11	12	13	4	9	9	9	7	7	262	Tokushima
Kagawa	22	28	24		18		39	30	25	29	17	16	23	23	23	24	12	17	20	31	25	17	21	484	Kagawa
Ehime	67	57	66		57		50	53	41	47	44	40	46	40	32	35	28	42	43	33	32	28	26	907	Ehime
Kochi	27	18	32		18		15	22	19	16	21	18	14	22	18	12	24	16	15	15	13	21	10	386	Kochi
Fukuoka	87	80	75		73		71	57	61	62	44	55	59	48	63	48	55	45	48	57	52	49	57	1,246	Fukuoka
Saga	11	23	21		15		21	28	29	20	15	14	12	14	15	18	15	11	14	13	15	12	12	348	Saga
Nagasaki	25	34	36		22		28	30	20	31	21	22	22	27	20	37	30	18	17	25	20	13	15	513	Nagasaki
Kumamoto	21	11	14		10		19	14	25	17	9	11	5	4	7	14	12	10	14	10	9	5	5	246	Kumamoto
Oita	10	4	11		11		7	10	8	16	13	10	4	5	10	8	4	2	2	1	3	6	10	155	Oita
Miyazaki	12	13	13		12		10	5	6	9	5	3	7	4	9	6	6	10	4	9	8	2	13	166	Miyazaki
Kagoshima	18	14	12		11		9	9	4	10	9	4	7	4	4	6	8	6	5	10	6	9	3	168	Kagoshima
Okinawa	1	2			1		1				1								1	1				8	Okinawa











load			1		1	1	1	2															8	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			1	3	1	1		2	3					1	15	no causal agent
unclassifiable																									unclassifiable
total	21	20	18	15	16	18	16	19	21	8	10	15	18	12	20	12	7	14	12	11	6	12	10	331	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	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								3	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															2	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





other hazards, harmful substances																									other hazards, harmful substances
metal material		2	1		1		1	2	1	1	1	1			1		1		2	2			2	19	metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance							1																1	stone, sand, substance	
other materials						1											1						2	other materials	
load						1	1	2												1			5	load	
machine/equipment as load			1		1										1								3	machine/equipment as load	
natural ground, rock																								natural ground, rock	
standing tree																								standing tree	
water												6										1	7	water	
abnormal environment			1					1															2	abnormal environment	
high/cold temperature environment											1				1								2	high/cold temperature environment	
other environments																								other environments	
other causal agent						1				1													2	other causal agent	
no causal agent				2					1			1	3	1	1		2	3					1	15	no causal agent
unclassifiable																								unclassifiable	
total	21	20	18	15	16	18	16	19	21	8	10	15	18	12	20	12	7	14	12	11	6	12	10	331	total



January	1		3	3	2	2	1	2	4	1	1			2	1			1	1		1	1		27	January
February	2	2	1	1	2	2	2	3	3		1		2		3	1			3	1			2	31	February
March	1	3	2	1		2	3		4		1	1	9	2		1		4	2	2	1		2	41	March
April	1		2	2	1	1	1		1		2	2			1	1	1	1			1	3		21	April
May		2	1	3			1	3		1	2	1	3	1	1	1		1		1		1	1	24	May
June		2		1	3	3	1	1		2			1	1			1	2	2	1	1	2	2	26	June
July	2	2	1	1	3	1	1	4	1		1	1	1	1	2	1	1			1		2	1	28	July
August	1	4	4		1	2	3	1	1	1		2		1	2	3			1			1	2	30	August
September	7	2	1	1	1	1	2		2	1					1	3	2	2	1	1				28	September
October	1			1	1				1	1	1	2		1	4		2	1		2		1		19	October
November	1	1	2		1		1	3	2	1	1	3	2	2	2	1		1		1				25	November
December	4	2	1	1	1	4		2	2			3		1	3			1	2	1	2	1		31	December
total	21	20	18	15	16	18	16	19	21	8	10	15	18	12	20	12	7	14	12	11	6	12	10	331	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	Aomori
Iwate	1					2							1		1									5	Iwate
Miyagi		1	1					1					5											8	Miyagi
Akita			1																					1	Akita
Yamagata	1		1	1								1			1			1					1	7	Yamagata
Fukushima										1			1	1							1			4	Fukushima
Ibaraki	1		1	1	1	1		1	1					1				1						9	Ibaraki

Tochigi		1			1						1						1			1			5	Tochigi		
Gunma		1		1				1	1			1				1	1	1				1		9	Gunma	
Saitama			1	1							1	1		1	2	1				2		1		11	Saitama	
Chiba	1	1	1		1		2					1							2			1	1	11	Chiba	
Tokyo	1	1	1	1			1											1			1		2	9	Tokyo	
Kanagawa	1	2			3				2			1	1	3	1	1	1					2		18	Kanagawa	
Niigata		1						1										1						3	Niigata	
Toyama					1			2		1						2					1			7	Toyama	
Ishikawa				1						2	1	1	1		1						1			8	Ishikawa	
Fukui									2															2	Fukui	
Yamanashi								1																1	Yamanashi	
Nagano				1		2						1		1	1				1		1			8	Nagano	
Gifu				1	1	2		1		1					2									11	Gifu	
Shizuoka	2	1	1		1							1		1		1	1							9	Shizuoka	
Aichi	3	3	2		1	1	1	2	4			2	1		1	1			1			2	2	27	Aichi	
Mie						1								1										2	Mie	
Shiga	1	1									1	1									1	1	1	1	8	Shiga
Kyoto				1		1		2				1			1									6	Kyoto	
Osaka	2			1	1	2	2	3	2		1	1	1	2	3	1	1		1			1		25	Osaka	
Hyogo	1	2	3	3	1		3	1	3						2					2	1	1		23	Hyogo	
Nara																									Nara	
Wakayama		1					1														1	1		4	Wakayama	
Tottori							1																	1	Tottori	
Shimane															2									2	Shimane	

Okayama			1		1			1		1			1		1								6	Okayama	
Hiroshima	3	1	2		1	2			1	1		1			1			1	4		1		19	Hiroshima	
Yamaguchi				1		1				1	1							1					5	Yamaguchi	
Tokushima						1							1										2	Tokushima	
Kagawa									1														1	Kagawa	
Ehime		1		1			3		1		1		1			1		2					11	Ehime	
Kochi	1																					1	2	Kochi	
Fukuoka	1					1	1				2	1			1						3	1	11	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	21	20	18	15	16	18	16	19	21	8	10	15	18	12	20	12	7	14	12	11	6	12	10	331	total

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](https://www.jisha.or.jp/english/statistics/2021e_industry.html)