

## Industrial accidents in machine products in Japan in 1999-2020

machine products industry Code No.0113

### Type of accidents in machine products in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	305	285	289	269	239	274	251	254	275	255	184	198	191	216	189	189	163	195	185	189	181	193
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
crash	137	143	122	112	113	124	119	99	130	90	69	65	97	73	78	78	70	61	65	81	79	78
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
collapse	110	94	93	78	77	83	95	101	90	82	50	56	50	72	65	56	60	53	51	54	56	41
crashed by	158	120	167	143	130	138	142	149	141	146	91	85	91	90	79	78	98	80	80	85	104	73
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
cut	307	310	297	275	256	227	240	235	259	221	140	156	172	166	159	167	135	125	112	146	148	115
injury to the sole of the foot	3	3	3	2	1	6	1	3	5	0	2	1	4	3	1	2	6	4	3	6	0	0
drown	0	0	0	-	0	-	0	0	0	0	0	1	5	0	0	0	0	1	0	0	0	1

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
contact to harmful substance	13	20	14	15	17	16	19	20	19	11	14	18	12	5	6	18	9	11	8	10	7	8
electric shock	3	4	10	7	8	6	4	0	5	5	3	7	2	2	2	2	4	0	2	5	5	2
explosion	2	6	1	1	9	-	8	0	6	2	1	2	1	1	1	5	3	2	7	2	1	2
burst	4	2	3	2	5	1	5	5	2	2	2	1	2	4	3	2	2	2	3	0	1	3
fire	3	4	5	7	1	3	3	1	3	0	3	5	7	1	3	4	3	3	1	1	2	1
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
traffic accident (others)	1	2	1	-	0	-	0	0	3	0	0	1	0	0	1	1	0	1	2	0	1	0
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
others	12	6	7	10	10	10	13	7	13	11	7	8	26	12	8	11	9	10	9	11	17	33
unclassifiable	3	7	4	-	7	2	4	2	2	0	1	2	2	3	5	3	7	3	5	2	2	1
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

Causal agents (middle) of industrial accidents in machine products in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	2	4	3	4	5	1	2	3	0	3	1	2	3	3	2	0	3	2	1	2	2	1
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
woodworking machine	29	17	17	20	19	14	21	16	21	15	10	17	12	7	7	13	10	9	9	12	11	10
construction machine	12	9	12	6	13	11	10	12	9	9	3	10	6	11	12	8	7	10	6	8	7	4
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
general machine	244	208	213	191	196	182	181	202	194	164	106	122	136	125	110	109	108	102	112	113	116	95
mobile silviculture machine																	0	0	0	0	0	0
crane	143	133	142	144	130	150	137	146	139	128	81	108	82	97	93	107	85	90	78	98	102	69
conveying	121	141	124	126	121	130	135	135	137	124	78	101	98	95	86	73	82	76	70	95	80	61





machine			0	0		4	2	1	2	0	2	0	1	0	0	0	0	0	0	1	0
hollow chisel mortiser, wood borer			0	3		1	5	1	0	1	1	1	1	0	2	0	1	0	2	1	2
chamfering machine, router, woodworking milling machine			0	0		1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
chain saw			0	0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
other woodworking machines			4	3		4	0	7	3	1	1	3	1	3	4	3	2	2	3	4	1
leveling, transporting or loading machine			2	3		1	1	0	0	0	1	2	2	4	1	0	0	2	1	3	0
excavating machine			4	2		4	6	5	2	3	6	3	4	4	3	2	3	4	3	2	2
foundation work machine			1	0		0	0	0	1	0	1	0	2	2	0	0	1	0	0	0	0
hardening machine			0	1		0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
demolition machine			2	0		0	1	1	0	0	0	0	0	0	0	0	2	0	0	1	0
vehicle for high lift work			1	3		2	1	2	1	0	1	1	2	2	1	1	0	0	0	1	0

other construction machines			2	4		3	3	1	4	0	0	0	1	0	3	4	4	0	4	0	1
lathe			211	162		174	163	133	151	109	134	138	142	96	86	106	91	82	99	90	56
drill press, milling machine			168	156		148	138	133	142	83	87	93	67	79	82	77	75	60	64	70	49
grinding machine, buffing machine			117	97		98	103	105	95	69	70	81	71	76	71	54	67	52	78	64	65
power press			85	85		72	90	71	58	37	39	57	54	46	57	52	55	56	45	44	43
forging pressure hammer			0	0		0	0	0	0	0	2	0	1	0	0	1	0	0	0	1	0
shearing machine			21	20		11	8	11	18	8	14	11	7	7	9	9	8	8	6	2	5
other metal manufacturing machines			146	143		128	149	126	129	70	85	112	82	95	89	85	67	75	70	75	68
centrifugal machine			2	0		2	1	1	2	0	1	1	1	2	0	1	1	3	0	1	0
mixer, grinder			5	4		2	1	4	4	6	4	4	2	8	5	1	2	1	2	3	7
roll machine (except printingroll machine)			12	14		13	14	9	7	5	6	8	14	6	6	10	8	8	9	6	8
injection molding machine			4	5		6	5	4	6	2	3	3	0	4	2	2	1	2	7	3	4









hauling equipment			37		43		49	41	44	44	27	31	43	36	27	46	46	36	34	42	36	28
human power machine			3		7		4	6	2	4	2	5	2	2	4	6	4	3	3	8	5	2
hand tool			94		55		63	66	73	63	46	41	53	50	38	47	36	37	49	53	53	31
ladder			98		104		106	99	95	86	80	72	76	81	69	75	55	71	68	69	70	82
slinging tool			77		62		64	70	51	55	39	46	45	42	56	40	41	43	42	31	38	33
other tools			66		57		72	70	72	79	49	53	66	59	53	58	54	36	48	61	59	61
other equipment, facilities			73		60		85	70	75	68	35	44	51	34	46	55	51	48	64	32	42	36
scaffolding			15		8		11	7	10	14	10	6	6	7	3	8	6	9	9	3	3	9
timbering			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			61		61		44	63	52	65	37	55	47	53	44	46	54	48	49	51	45	56
opening			10		2		6	7	9	1	8	0	5	5	6	6	6	4	5	7	4	2
roof, beam, haze, crossbeam, principal rafter			9		3		5	4	5	6	1	3	5	5	2	5	2	5	1	7	4	2
working platform, boot board			53		58		57	54	51	56	30	40	31	44	35	35	39	37	42	42	30	28
passage			113		114		95	116	102	101	77	88	86	89	89	103	96	98	96	127	98	134
building,			36		43		32	32	52	41	22	29	40	33	33	29	25	26	29	33	34	23





30-39	483	461	532	471	525	530	550	597	616	533	393	398	449	426	370	369	352	334	350	380	331	261
40-49	608	563	506	457	466	470	422	459	456	433	314	359	456	408	392	405	406	376	399	419	389	337
50-59	995	928	932	787	722	710	707	640	601	570	331	397	373	357	316	367	322	320	310	348	379	390
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
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

#### Workers' number of workplace of industrial accidents in machine products in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	891	852	904	795	790	776	686	701	578	532	428	425	427	463	364	401	350	349	288	321	288	242
10-29	954	890	877	774	776	759	783	766	690	687	446	495	523	498	492	472	465	434	428	425	429	385
30-49	395	347	363	335	358	356	369	374	372	321	205	241	286	228	258	239	241	220	266	272	258	209
50-99	352	363	330	258	294	295	301	305	327	299	212	250	272	228	221	254	239	242	252	252	244	227
100-299	373	326	335	288	277	290	314	354	373	383	229	274	279	273	231	260	252	236	240	290	274	257
300 workers or more	212	213	180	175	166	191	207	232	317	298	167	207	271	208	197	224	205	195	227	260	249	212
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

#### Month of industrial accidents in machine products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	234	203	260	212	215	200	212	236	211	210	159	146	176	179	144	128	144	132	129	167	135	140
February	311	250	248	224	202	213	210	230	219	262	138	162	151	188	163	185	140	150	126	142	164	128
March	273	299	266	230	243	256	231	246	268	199	154	163	181	189	144	150	177	146	151	143	158	125
April	237	225	266	236	208	217	232	220	211	228	149	156	163	140	135	136	144	142	147	132	125	142
May	255	257	273	244	216	218	207	227	215	205	132	150	161	142	135	178	118	132	119	154	148	106
June	257	268	262	211	263	255	206	224	226	204	156	183	198	151	156	150	153	164	173	169	161	156
July	262	246	288	240	245	258	253	239	250	235	155	174	182	167	167	198	175	142	153	171	170	140
August	270	250	234	198	215	217	233	229	241	194	131	135	175	172	138	150	130	146	144	165	117	122
September	278	260	231	231	241	226	247	218	210	229	120	168	185	158	160	165	163	123	156	155	145	121
October	271	268	264	220	202	212	221	240	210	213	141	157	181	154	168	151	148	129	147	158	135	133
November	293	225	198	179	196	194	208	208	176	188	110	149	165	133	131	144	131	143	133	161	143	114
December	236	240	199	200	215	201	200	215	220	153	142	149	140	125	122	115	129	127	123	103	141	105
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

Prefecture of industrial accidents in machine products in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	57	59	52		55		50	36	42	37	34	42	29	38	35	28	25	37	26	25	32	34
Aomori	13	6	14		13		6	14	13	10	9	9	8	11	5	10	10	11	6	6	7	10

Iwate	32	15	26		20		30	10	26	14	18	23	17	20	16	13	12	8	11	12	10	15
Miyagi	44	42	18		24		24	25	19	24	20	12	23	19	15	9	19	20	18	17	15	18
Akita	25	31	23		27		19	18	20	19	14	22	12	16	15	14	13	11	14	20	17	14
Yamagata	33	44	30		24		32	36	35	38	23	16	18	27	25	29	21	31	27	29	22	21
Fukushima	41	28	32		21		40	32	41	41	25	18	45	22	32	26	15	34	21	25	17	18
Ibaraki	51	68	58		59		53	59	75	67	31	69	55	52	32	55	50	51	54	53	73	60
Tochigi	51	67	39		42		52	49	58	49	23	29	39	40	29	36	28	23	45	37	40	42
Gunma	83	84	81		61		50	80	75	58	42	44	39	50	33	46	53	36	55	53	52	41
Saitama	144	146	154		142		133	125	113	104	88	94	83	85	63	67	66	73	75	73	80	63
Chiba	101	88	65		71		49	67	58	59	51	59	46	61	39	43	43	44	38	38	57	49
Tokyo	145	122	145		103		106	90	91	80	61	54	58	57	54	49	52	32	38	44	40	32
Kanagawa	185	149	142		102		102	115	116	110	84	90	95	105	93	75	75	72	58	68	68	50
Niigata	89	92	114		92		93	84	83	72	27	49	68	48	50	58	59	54	72	48	65	49
Toyama	44	38	45		36		46	40	48	47	36	34	31	24	20	22	24	31	30	27	29	25
Ishikawa	61	49	54		53		70	73	68	78	33	47	54	48	44	48	43	41	45	47	29	28
Fukui	35	31	25		19		18	23	31	22	13	9	20	25	13	23	21	13	10	20	16	18
Yamanashi	21	14	17		13		27	29	27	32	17	21	19	16	14	18	11	13	20	21	17	12
Nagano	52	67	79		63		69	78	50	69	35	40	76	50	59	57	63	53	49	57	51	36
Gifu	98	90	82		78		69	84	75	81	46	50	56	57	58	51	61	53	54	52	50	37
Shizuoka	155	142	161		152		129	157	155	141	100	86	85	92	75	81	94	80	85	106	85	80



Aichi	286	287	277		271		261	231	234	188	125	171	194	158	159	163	144	143	130	138	126	144
Mie	85	64	64		58		65	76	68	61	34	47	69	47	37	51	47	48	42	57	59	31
Shiga	53	58	47		45		65	60	54	44	28	31	46	24	38	30	38	38	31	45	29	37
Kyoto	60	54	56		49		50	43	55	50	31	35	51	33	36	34	47	23	37	45	44	42
Osaka	321	297	290		277		250	283	233	243	158	201	197	187	193	199	161	161	144	161	145	113
Hyogo	186	160	168		153		136	145	146	133	94	103	111	98	92	92	74	90	93	88	90	91
Nara	18	13	20		16		24	19	19	20	11	12	19	11	8	11	16	16	5	12	15	12
Wakayama	23	30	24		25		25	22	26	27	16	14	23	17	23	18	15	16	14	6	21	10
Tottori	10	13	4		5		6	7	5	2	3	0	3	4	5	5	1	1	2	2	8	5
Shimane	14	13	7		19		16	12	11	15	4	13	4	9	12	7	8	13	8	13	7	5
Okayama	41	53	61		40		39	57	53	48	23	27	40	40	35	41	26	30	37	44	28	38
Hiroshima	104	119	115		103		108	90	104	103	70	70	61	70	66	74	73	59	79	71	65	45
Yamaguchi	57	36	39		36		26	39	43	37	29	22	24	11	16	21	21	17	18	25	20	26
Tokushima	18	13	18		20		17	23	13	13	8	16	17	11	12	13	13	4	10	10	9	7
Kagawa	27	35	34		23		44	35	28	30	20	21	28	24	23	28	16	22	21	36	26	17
Ehime	67	57	68		57		50	55	43	51	48	40	50	41	33	38	29	42	43	36	32	28
Kochi	30	20	33		20		21	25	24	17	23	20	16	25	18	18	24	18	17	18	14	22
Fukuoka	99	85	89		79		80	68	68	68	47	61	62	55	66	52	59	50	54	61	57	51
Saga	13	25	22		16		23	28	29	22	17	14	12	15	16	19	15	11	15	13	16	12
Nagasaki	32	36	37		22		29	33	22	33	22	24	23	27	20	38	30	20	17	25	21	14





traffic accident (others)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	0	0	0	2	0	1	0	0	1	1	0	2	6	1	2	2	2	3	0	0	0	1
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13

Causal agents (middle) of fatal accidents in machine products in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
construction machine	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
metal manufacturing machine	3	5	3	2	3	3	3	4	2	2	2	3	2	2	7	4	0	4	1	0	3	3
general machine	2	1	0	1	1	0	1	1	2	1	0	0	0	2	1	0	0	2	3	1	2	1
mobile silviculture machine																	0	0	0	0	0	0
crane	1	1	2	1	1	4	1	1	7	1	0	4	0	1	0	0	1	1	1	1	1	0
conveying machine	5	6	2	2	3	2	3	2	2	0	2	0	2	2	0	0	0	3	1	2	1	2

vehicle	6	2	2	1	3	3	1	1	0	0	2	0	1	1	0	0	0	0	1	1	0	0
pressure vessel	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0
kiln, caldron	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
electric equipment	0	0	0	1	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0
human power machine, tools	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0
tools	0	2	2	1	0	0	0	2	1	1	0	1	2	1	2	2	0	0	1	2	0	5
other equipments, facilities	0	2	2	2	2	0	0	1	0	0	1	0	0	1	3	2	1	0	2	1	0	0
temporary buildings, establishments	4	1	1	0	1	2	1	2	2	0	0	2	2	3	1	1	1	0	1	0	1	0
hazards, harmful substances	1	0	0	1	0	2	2	0	1	0	1	2	1	0	1	0	0	0	0	0	0	0
materials	0	2	1	0	1	1	2	2	1	1	1	1	0	0	1	0	1	1	2	2	0	0
load	0	0	1	0	1	2	1	2	0	0	0	0	0	1	1	0	0	0	0	1	0	0
natural environment	0	0	1	0	0	0	0	1	0	0	0	1	6	0	1	0	0	0	0	0	0	1
other causal agent	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	2	0	0	0	0	1	0	0	2	5	1	2	2	2	3	0	0	0	1
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13











other kiln, caldron	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
other electrical equipment	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
human power machine	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
hand tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1
slinging tool	0	1	1	0	0	0	0	1	0	0	0	1	2	0	2	2	0	0	0	2	0	4
other tools	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
other equipment, facilities	0	2	2	2	2	0	0	1	0	0	1	0	0	1	3	2	1	0	2	1	0	0
scaffolding	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
opening	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roof, beam, haze, crossbeam, principal rafter	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
working platform, boot	0	1	0	0	1	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0



water	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	1
abnormal environment	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	2	0	0	0	0	1	0	0	2	5	1	2	2	2	3	0	0	0	0	1
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	

Workers age of fatal accidents in machine products in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	1	0	1	2	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
20-29	4	1	4	1	4	3	1	4	1	0	1	1	3	2	4	2	1	2	2	1	1	2
30-39	4	6	3	2	1	4	5	3	6	1	0	4	3	4	7	2	1	3	2	4	2	1
40-49	5	1	5	4	1	6	4	3	5	0	2	5	2	1	4	3	1	5	4	1	0	3
50-59	4	7	4	5	7	7	1	3	6	6	2	1	6	8	3	5	1	0	1	5	2	3
60 years old or more	5	8	3	2	3	2	4	7	4	2	5	5	7	0	2	2	3	4	4	2	3	4
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13

## Workers' number of workplace of fatal accidents in machine products in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	2	5	8	5	6	3	4	4	5	1	5	3	7	7	4	2	2	4	1	2	2	7
10-29	5	7	3	2	2	8	5	3	0	1	2	5	1	3	6	6	2	3	1	6	2	3
30-49	2	2	2	3	1	4	4	2	4	1	1	2	3	1	3	2	2	1	5	2	1	2
50-99	2	5	3	1	2	0	1	5	4	2	1	5	5	1	2	1	1	5	3	2	1	0
100-299	3	1	2	0	2	6	0	3	4	3	1	1	2	1	2	2	0	0	1	0	1	1
300 workers or more	9	3	2	5	3	1	2	3	5	1	0	1	3	3	4	1	0	1	2	1	1	0
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13

## Month of fatal accidents in machine products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	1	1	3	3	2	4	1	3	5	1	1	0	1	4	1	0	0	1	1	1	1	1
February	2	3	1	1	2	2	2	3	3	0	1	1	2	0	3	2	0	0	3	2	0	0
March	1	3	2	2	0	2	3	0	4	0	1	1	9	2	0	2	0	4	2	2	2	0
April	2	0	2	2	1	1	1	0	1	0	2	3	2	0	1	1	1	1	0	0	1	3
May	0	2	1	3	0	0	1	3	0	1	2	1	3	1	1	1	0	1	0	1	0	1
June	0	3	0	1	3	3	1	1	0	2	0	0	1	1	0	0	1	2	2	1	1	2

July	2	2	2	1	3	1	1	4	1	0	1	1	1	1	2	1	1	0	0	1	0	3
August	1	4	4	0	1	2	3	1	1	2	0	2	0	3	2	3	0	0	1	0	0	1
September	7	2	2	1	1	1	2	0	2	1	0	0	0	0	2	3	2	2	1	1	0	0
October	1	0	0	1	1	2	0	0	1	1	1	2	0	1	4	0	2	1	1	2	1	1
November	2	1	2	0	1	0	1	3	2	1	1	3	2	2	2	1	0	1	0	1	0	0
December	4	2	1	1	1	4	0	2	2	0	0	3	0	1	3	0	0	1	2	1	2	1
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13

Prefecture of fatal accidents in machine products in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	1	2	0	1	0	0	0	1	0	0	1	0	1	0	0	0	1	1	0	0	0
Aomori	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Iwate	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Miyagi	0	1	1	0	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0
Akita	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	1	0	1	1	0	0	0	0	0	0	0	1	0	0	2	0	0	1	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0
Ibaraki	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	1	0	0	1	0
Tochigi	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0



Wakayama	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Tottori	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Okayama	0	0	1	0	1	0	0	1	0	1	0	1	1	0	1	0	0	0	0	0	0	0
Hiroshima	3	1	2	0	1	2	0	0	1	1	0	1	0	0	1	0	0	0	1	4	0	1
Yamaguchi	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0
Tokushima	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Ehime	0	1	0	1	0	0	3	0	1	0	1	0	1	0	0	1	1	0	2	0	0	0
Kochi	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	1	0	0	0	0	1	1	0	0	0	2	1	0	2	0	1	0	0	0	0	0	3
Saga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Nagasaki	1	1	0	0	0	1	0	2	0	0	0	1	0	0	1	2	1	0	0	0	0	0
Kumamoto	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0
Oita	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13



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

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