

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	114	3,558
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	71	2,630
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	76	2,451
vehicle	53	35	68	35	34	50	40	47	45	29	23	46	46	23	25	33	32	24	33	40	24	12	26	9	832
pressure vessel	8	5	8	8	5	5	7	5	3	3	4	2	1	3	1		1	2	3	3	6	2	4	3	92
chemical facilities	1		2	2	1		1		2	1		1	2			1	2			1				1	18
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	12	432
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	2	139
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	10	166
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	100	2,465
tools	253	246	241	199	223	220	242	239	218	220	168	171	187	182	178	173	150	150	158	161	167	176	166	173	4,661
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	52	1,344
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	314	6,750
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	14	514
materials	490	442	485	397	418	395	420	430	406	358	269	242	282	273	246	272	238	236	239	205	215	177	209	206	7,550

machine, router, woodworking milling machine						1		1			1												2		5
chain saw										1											1		3		5
other woodworking machines			4		3		4		7	3	1	1	3	1	3	4	3	2	2	3	4	1	3	2	54
leveling, transporting or loading machine			2		3		1	1				1	2	2	4	1			2	1	3		1	2	26
excavating machine			4		2		4	6	5	2	3	6	3	4	4	3	2	3	4	3	2	2	1	1	64
foundation work machine			1							1		1		2	2			1							8
hardening machine					1					1		1										1	1		5
demolition machine			2					1	1									2			1			1	8
vehicle for high lift work			1		3		2	1	2	1		1	1	2	2	1	1				1			2	21
other construction machines			2		4		3	3	1	4			1		3	4	4			4		1	2	1	37
lathe			211		162		174	163	133	151	109	134	138	142	96	86	106	91	82	99	90	56	89	80	2,392
drill press, milling machine			168		156		148	138	133	142	83	87	93	67	79	82	77	75	60	64	70	49	55	53	1,879
grinding machine, buffing machine			117		97		98	103	105	95	69	70	81	71	76	71	54	67	52	78	64	65	70	45	1,548
power press			85		85		72	90	71	58	37	39	57	54	46	57	52	55	56	45	44	43	34	49	1,129

conveying machines			5		11		9	8	8	4		9	8	10	4	7	8	6	7	8	6	1	6	8	133
cars, bus, motorcycle			64		31		34	47	41	28	22	45	46	20	23	29	31	22	32	39	23	11	24	6	618
railway vehicle			1									1			1				1						4
other vehicles			3		3		6		4	1	1			3	1	4	1	2		1	1	1	2	3	37
boiler					2		3		1		1			2						1			1		11
pressure vessel			3		2		2	2	1	2	2	1						1	2	1	2	1	2	1	25
other pressure vessels			5		1		2	3	1	1	1	1	1	1	1		1	1	1	1	4	1	1	2	30
chemical facilities			2		1		1		2	1		1	2			1	2			1				1	15
gas welding equipment			5		4		4	5	4	3	7	4		2	5	3	3	4	7	1	2	1		1	65
arc welding equipment			6		10		11	10	13	14	10	4	7	3	4	9	8	6	3	5	7	7	7	7	151
other welding equipment			15		8		11	7	8	9	4	3	5	8	4	6	3	8	5	2	4	3	8	4	125
kiln, caldron			5		11		4	1	6	3	1	6	2	2	1	7	6	1	2	4		4	4	2	72
industrial dryer			2				4	1		2	1		2		1	1	2	1	2	1	1		1		22
other kiln, caldron			1		4			1	1	1	1			1	1					1					12
transmission			2		1			1	7	2	1	3		5			7	2	3	1	2	1	3	6	47
electric power facilities			2		5		2	2	2	7	4	6			1		1		1	2	2	2	2	2	43
other electrical			7		4		2	2	1	4		3	1	2	1	2	3		1	4	2		4	2	45

water					1		2		2	1	1	1	6					1	1		1	1	1		19
abnormal environment								1										1		1					3
high/cold temperature environment			7				3	2	3	7	1	12	12	4	10	5	6	10	8	21	13	7	9	18	158
other environments			9		12		14	11	4	11	9	8	16	25	12	23	13	17	11	19	12	8	14	25	273
other causal agent			25		16		21	17	17	31	10	18	29	15	18	13	15	12	13	10	23	37	139	8	487
no causal agent			57		74		74	76	101	91	57	81	82	63	63	68	74	75	78	85	93	85	86	87	1,550
unclassifiable			6		10		7	4	2		6	6	2	2	3	5	7	2	4	3	2	1		3	75
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	1,740	52,671

Workers age of fatal and non-fatal accidents in machine products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
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	26	1,376
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	267	9,679
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	318	10,393
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	384	10,315
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	421	12,656
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	324	8,252
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	1,740	52,671

Workers' number of workplace of fatal and non-fatal accidents in machine products in 1999-2022

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	2022	total
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	261	12,413
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	431	14,362
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	231	6,978
50-99	352	363	330	258	294	295	301	305	327	299	212	250	272	228	221	254	239	242	252	252	244	227	266	249	6,532
100-299	373	326	335	288	277	290	314	354	373	383	229	274	279	273	231	260	252	236	240	290	274	257	294	284	6,986
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	303	284	5,400
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	1,740	52,671

Month of fatal and non-fatal accidents in machine products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	234	203	260	212	215	200	212	236	211	210	159	146	176	179	144	128	144	132	129	167	135	140	153	162	4,287
February	311	250	248	224	202	213	210	230	219	262	138	162	151	188	163	185	140	150	126	142	164	128	160	147	4,513
March	273	299	266	230	243	256	231	246	268	199	154	163	181	189	144	150	177	146	151	143	158	125	140	154	4,686
April	237	225	266	236	208	217	232	220	211	228	149	156	163	140	135	136	144	142	147	132	125	142	145	145	4,281
May	255	257	273	244	216	218	207	227	215	205	132	150	161	142	135	178	118	132	119	154	148	106	158	129	4,279
June	257	268	262	211	263	255	206	224	226	204	156	183	198	151	156	150	153	164	173	169	161	156	166	161	4,673
July	262	246	288	240	245	258	253	239	250	235	155	174	182	167	167	198	175	142	153	171	170	140	164	161	4,835
August	270	250	234	198	215	217	233	229	241	194	131	135	175	172	138	150	130	146	144	165	117	122	186	132	4,324

September	278	260	231	231	241	226	247	218	210	229	120	168	185	158	160	165	163	123	156	155	145	121	144	148	4,482
October	271	268	264	220	202	212	221	240	210	213	141	157	181	154	168	151	148	129	147	158	135	133	176	123	4,422
November	293	225	198	179	196	194	208	208	176	188	110	149	165	133	131	144	131	143	133	161	143	114	136	142	4,000
December	236	240	199	200	215	201	200	215	220	153	142	149	140	125	122	115	129	127	123	103	141	105	153	136	3,889
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	1,740	52,671

Prefecture of fatal and non-fatal accidents in machine products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	57	59	52		55		50	36	42	37	34	42	29	38	35	28	25	37	26	25	32	34	25	40	838
Aomori	13	6	14		13		6	14	13	10	9	9	8	11	5	10	10	11	6	6	7	10	5	9	205
Iwate	32	15	26		20		30	10	26	14	18	23	17	20	16	13	12	8	11	12	10	15	23	23	394
Miyagi	44	42	18		24		24	25	19	24	20	12	23	19	15	9	19	20	18	17	15	18	22	17	464
Akita	25	31	23		27		19	18	20	19	14	22	12	16	15	14	13	11	14	20	17	14	14	18	396
Yamagata	33	44	30		24		32	36	35	38	23	16	18	27	25	29	21	31	27	29	22	21	28	22	611
Fukushima	41	28	32		21		40	32	41	41	25	18	45	22	32	26	15	34	21	25	17	18	31	31	636
Ibaraki	51	68	58		59		53	59	75	67	31	69	55	52	32	55	50	51	54	53	73	60	60	50	1,235
Tochigi	51	67	39		42		52	49	58	49	23	29	39	40	29	36	28	23	45	37	40	42	27	28	873
Gunma	83	84	81		61		50	80	75	58	42	44	39	50	33	46	53	36	55	53	52	41	39	43	1,198
Saitama	144	146	154		142		133	125	113	104	88	94	83	85	63	67	66	73	75	73	80	63	105	68	2,144
Chiba	101	88	65		71		49	67	58	59	51	59	46	61	39	43	43	44	38	38	57	49	58	39	1,223
Tokyo	145	122	145		103		106	90	91	80	61	54	58	57	54	49	52	32	38	44	40	32	30	30	1,513
Kanagawa	185	149	142		102		102	115	116	110	84	90	95	105	93	75	75	72	58	68	68	50	68	68	2,090

Niigata	89	92	114		92		93	84	83	72	27	49	68	48	50	58	59	54	72	48	65	49	53	57	1,476
Toyama	44	38	45		36		46	40	48	47	36	34	31	24	20	22	24	31	30	27	29	25	27	29	733
Ishikawa	61	49	54		53		70	73	68	78	33	47	54	48	44	48	43	41	45	47	29	28	53	43	1,109
Fukui	35	31	25		19		18	23	31	22	13	9	20	25	13	23	21	13	10	20	16	18	16	19	440
Yamanashi	21	14	17		13		27	29	27	32	17	21	19	16	14	18	11	13	20	21	17	12	22	27	428
Nagano	52	67	79		63		69	78	50	69	35	40	76	50	59	57	63	53	49	57	51	36	59	65	1,277
Gifu	98	90	82		78		69	84	75	81	46	50	56	57	58	51	61	53	54	52	50	37	54	61	1,397
Shizuoka	155	142	161		152		129	157	155	141	100	86	85	92	75	81	94	80	85	106	85	80	97	86	2,424
Aichi	286	287	277		271		261	231	234	188	125	171	194	158	159	163	144	143	130	138	126	144	154	143	4,127
Mie	85	64	64		58		65	76	68	61	34	47	69	47	37	51	47	48	42	57	59	31	51	54	1,215
Shiga	53	58	47		45		65	60	54	44	28	31	46	24	38	30	38	38	31	45	29	37	84	46	971
Kyoto	60	54	56		49		50	43	55	50	31	35	51	33	36	34	47	23	37	45	44	42	56	41	972
Osaka	321	297	290		277		250	283	233	243	158	201	197	187	193	199	161	161	144	161	145	113	158	135	4,507
Hyogo	186	160	168		153		136	145	146	133	94	103	111	98	92	92	74	90	93	88	90	91	93	83	2,519
Nara	18	13	20		16		24	19	19	20	11	12	19	11	8	11	16	16	5	12	15	12	21	15	333
Wakayama	23	30	24		25		25	22	26	27	16	14	23	17	23	18	15	16	14	6	21	10	15	12	422
Tottori	10	13	4		5		6	7	5	2	3		3	4	5	5	1	1	2	2	8	5	4	4	99
Shimane	14	13	7		19		16	12	11	15	4	13	4	9	12	7	8	13	8	13	7	5	9	13	232
Okayama	41	53	61		40		39	57	53	48	23	27	40	40	35	41	26	30	37	44	28	38	40	40	881
Hiroshima	104	119	115		103		108	90	104	103	70	70	61	70	66	74	73	59	79	71	65	45	64	62	1,775
Yamaguchi	57	36	39		36		26	39	43	37	29	22	24	11	16	21	21	17	18	25	20	26	14	10	587
Tokushima	18	13	18		20		17	23	13	13	8	16	17	11	12	13	13	4	10	10	9	7	7	8	280
Kagawa	27	35	34		23		44	35	28	30	20	21	28	24	23	28	16	22	21	36	26	17	22	26	586

Ehime	67	57	68		57		50	55	43	51	48	40	50	41	33	38	29	42	43	36	32	28	26	34	968
Kochi	30	20	33		20		21	25	24	17	23	20	16	25	18	18	24	18	17	18	14	22	12	18	453
Fukuoka	99	85	89		79		80	68	68	68	47	61	62	55	66	52	59	50	54	61	57	51	64	52	1,427
Saga	13	25	22		16		23	28	29	22	17	14	12	15	16	19	15	11	15	13	16	12	12	22	387
Nagasaki	32	36	37		22		29	33	22	33	22	24	23	27	20	38	30	20	17	25	21	14	15	12	552
Kumamoto	23	14	15		12		22	16	26	19	11	11	10	6	10	17	14	11	15	12	10	7	7	11	299
Oita	12	5	17		19		11	23	18	22	17	12	7	10	10	10	6	3	4	2	8	9	15	10	250
Miyazaki	16	14	15		14		12	8	10	12	7	5	8	7	11	6	8	12	7	11	14	2	14	5	218
Kagoshima	20	15	13		11		12	9	6	10	10	5	7	5	5	7	9	7	6	10	6	12	7	10	202
Okinawa	2	3			1		1	1			1								1	1			1	1	13
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	1,740	52,671

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html> (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in machine products in Japan in 1999-2022

machine products industry Code No.0113

standing tree																									
water												6										1			7
abnormal environment			1					1																	2
high/cold temperature environment												1			1										2
other environments																									
other causal agent						1				1															2
no causal agent				2					1			2	5	1	2	2	2	3					1	2	23
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	10	377

Workers age of fatal accidents in machine products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	
19 years old or less	1		1	2			1					1		1	1											8
20-29	4	1	4	1	4	3	1	4	1		1	1	3	2	4	2	1	2	2	1	1	2	1	3		49
30-39	4	6	3	2	1	4	5	3	6	1		4	3	4	7	2	1	3	2	4	2	1		1		69
40-49	5	1	5	4	1	6	4	3	5		2	5	2	1	4	3	1	5	4	1		3	5	2		72
50-59	4	7	4	5	7	7	1	3	6	6	2	1	6	8	3	5	1		1	5	2	3	2	1		90
60 years old or more	5	8	3	2	3	2	4	7	4	2	5	5	7		2	2	3	4	4	2	3	4	5	3		89
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	10		377

Workers' number of workplace of fatal accidents in machine products in 1999-2022

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	2022	total
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	8	4	101
10-29	5	7	3	2	2	8	5	3		1	2	5	1	3	6	6	2	3	1	6	2	3		1	77
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
50-99	2	5	3	1	2		1	5	4	2	1	5	5	1	2	1	1	5	3	2	1		1	3	56
100-299	3	1	2		2	6		3	4	3	1	1	2	1	2	2			1		1	1	1	1	38
300 workers or more	9	3	2	5	3	1	2	3	5	1		1	3	3	4	1		1	2	1	1		3	1	55
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	10	377

Month of fatal accidents in machine products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	1	1	3	3	2	4	1	3	5	1	1		1	4	1			1	1	1	1	1			36
February	2	3	1	1	2	2	2	3	3		1	1	2		3	2			3	2			3	1	37
March	1	3	2	2		2	3		4		1	1	9	2		2		4	2	2	2		3	2	47
April	2		2	2	1	1	1		1		2	3	2		1	1	1	1			1	3		1	26
May		2	1	3			1	3		1	2	1	3	1	1	1		1		1		1	1		24
June		3		1	3	3	1	1		2			1	1			1	2	2	1	1	2	3		28
July	2	2	2	1	3	1	1	4	1		1	1	1	1	2	1	1			1		3	1	2	32
August	1	4	4		1	2	3	1	1	2		2		3	2	3			1			1	2	1	34
September	7	2	2	1	1	1	2		2	1					2	3	2	2	1	1					30
October	1			1	1	2			1	1	1	2		1	4		2	1	1	2	1	1		1	24

November	2	1	2		1		1	3	2	1	1	3	2	2	2	1		1		1			1	27	
December	4	2	1	1	1	4		2	2			3		1	3			1	2	1	2	1		1	32
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	10	377

Prefecture of fatal accidents in machine products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		1	2		1				1			1		1				1	1						9
Aomori						1						1													2
Iwate	1					2							1			1									5
Miyagi		1	1					1					5												8
Akita			1																						1
Yamagata	1		1	1								1			2			1					1		8
Fukushima										1			1	1							1				4
Ibaraki	1	1	1	1	1	1		1	1					1				1			1			1	12
Tochigi		1			1						1							1			1				5
Gunma		1		1				1	1			1					1	1	1				1		9
Saitama		1	2	2							1	1		2	2	1				2		1	1		16
Chiba	1	1	1		1		2						1						2			1	1		11
Tokyo	1	1	1	1			1							1		1		1			1		2		11
Kanagawa	1	2			3				3			2	1	3	1	1	1					2			20
Niigata		1						1										1					1		4
Toyama					1			2		1						2				2	1				9

Fukuoka	1					1	1				2	1		2		1						3	1	1	14
Saga																2									2
Nagasaki	1	1				1		2				1			1	2	1								10
Kumamoto											1	1						1							3
Oita									1															1	2
Miyazaki							1		1															1	3
Kagoshima													1												1
Okinawa					1																				1
total	23	23	20	16	16	22	16	20	22	9	10	17	21	16	21	14	7	14	13	13	8	13	13	10	377

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

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