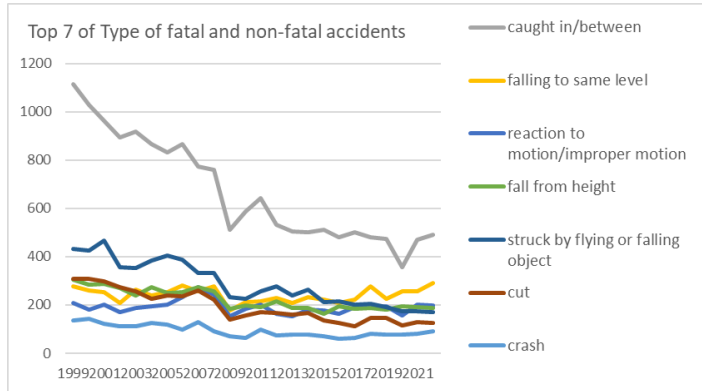
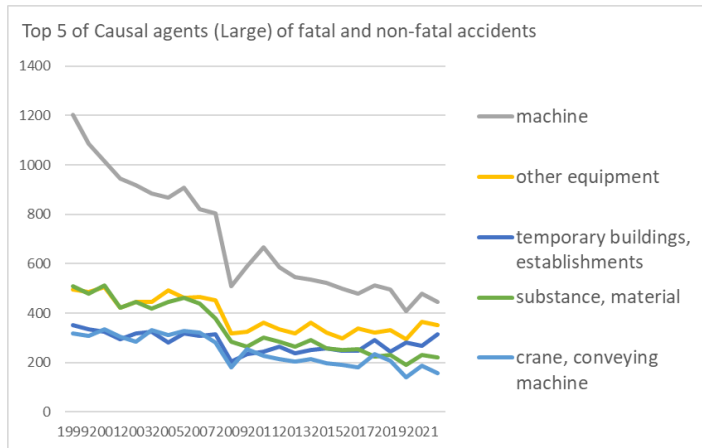


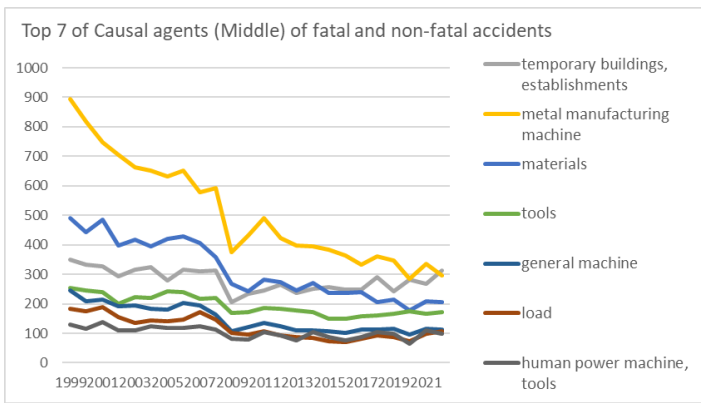
Transition of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



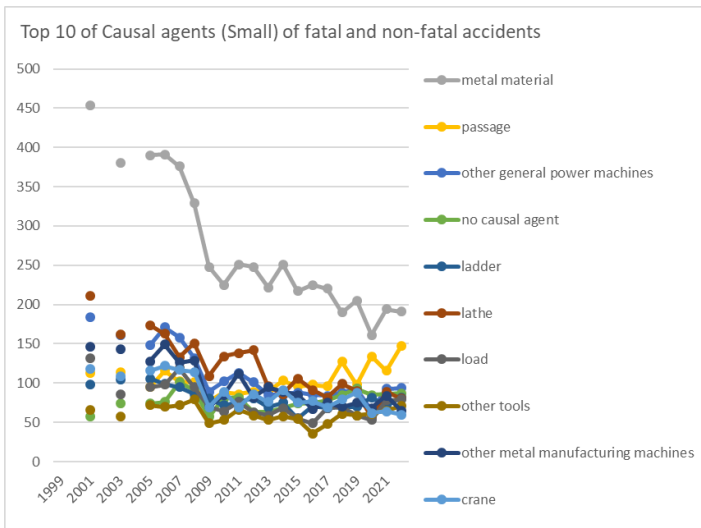
Transition of Top 7 of Type of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



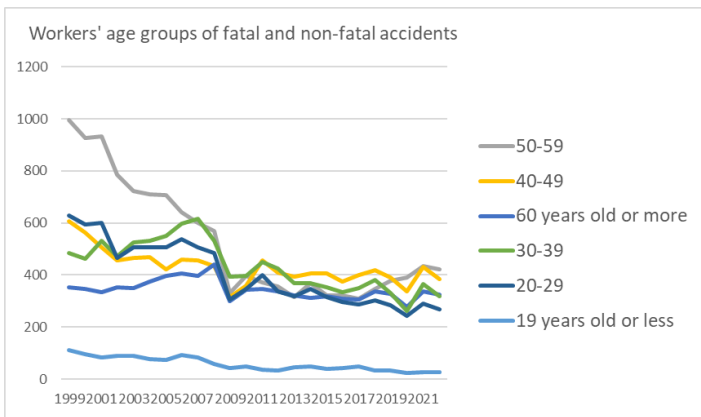
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



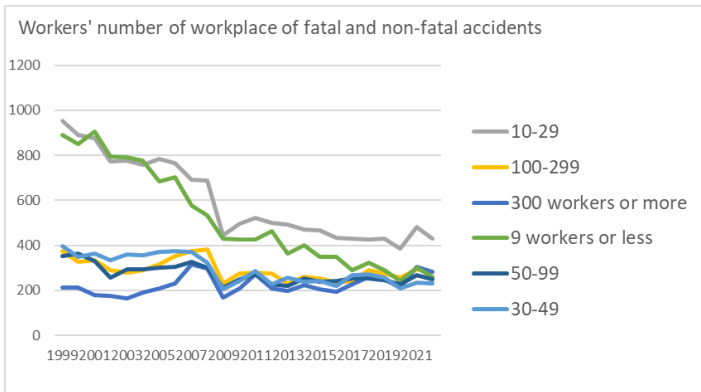
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



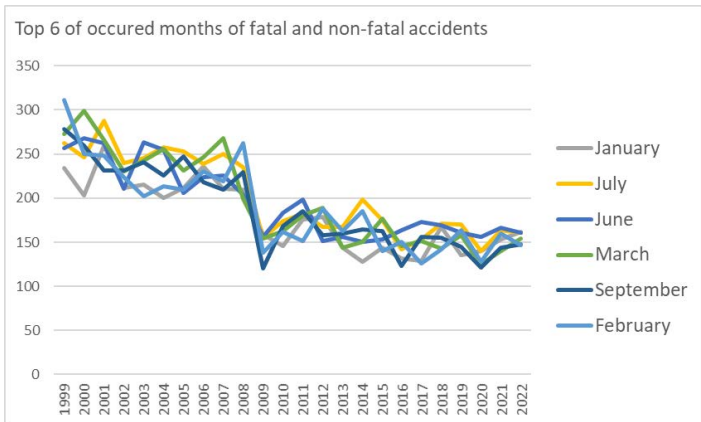
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



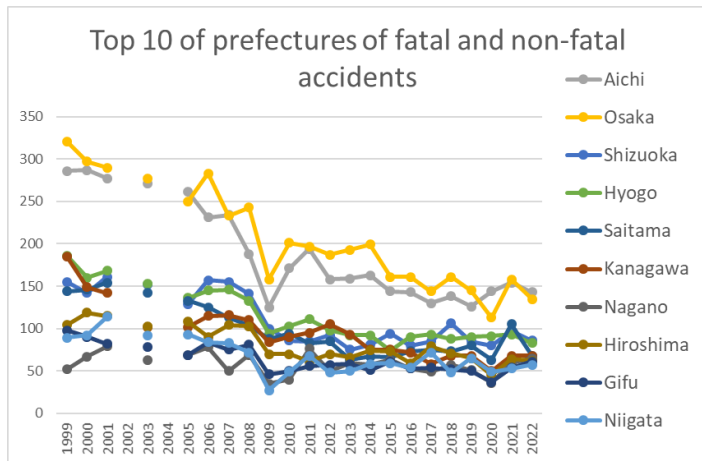
Transition of workers' age groups of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)

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	2022	total	Type of accidents
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	490	16,066	caught in/between
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	290	5,810	falling to same level
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	197	4,604	reaction to motion/improper motion
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	188	5,347	fall from height
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	170	6,914	struck by flying or falling object
cut	307	310	297	275	256	227	240	235	259	221	140	156	172	166	159	167	135	125	112	146	148	115	130	126	4,624	cut
crash	137	143	122	112	113	124	119	99	130	90	69	65	97	73	78	78	70	61	65	81	79	78	82	90	2,255	crash
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	71	2,642	crashed by
collapse	110	94	93	78	77	83	95	101	90	82	50	56	50	72	65	56	60	53	51	54	56	41	53	43	1,663	collapse

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	37	820	contact to high/low-temperature
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	16	10	316	contact to harmful substance
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	7	756	traffic accident (public road)
electric shock	3	4	10	7	8	6	4		5	5	3	7	2	2	2	2	4		2	5	5	2	7	7	102	electric shock
others	12	6	7	10	10	10	13	7	13	11	7	8	26	12	8	11	9	10	9	11	17	33	137	6	403	others
unclassifiable	3	7	4		7	2	4	2	2		1	2	2	3	5	3	7	3	5	2	2	1		3	70	unclassifiable
fire	3	4	5	7	1	3	3	1	3		3	5	7	1	3	4	3	3	1	1	2	1	3	2	69	fire
burst	4	2	3	2	5	1	5	5	2	2	2	1	2	4	3	2	2	2	3		1	3	2	2	60	burst
explosion	2	6	1	1	9		8		6	2	1	2	1	1	1	5	3	2	7	2	1	2		1	64	explosion
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
traffic accident (others)	1	2	1						3			1			1	1		1	2		1		1		15	traffic accident (others)
drown												1	5					1				1			8	drown
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	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 0113 machine products in Japan (1999-2022)

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	2022	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	446	16,724	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	353	9,317	other

load	183	174	189	154	135	144	140	146	171	148	102	95	108	94	88	84	74	71	83	94	87	74	100	108	2,846	load
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	human power machine, tools
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	87	1,813	no causal agent
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	conveying 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	crane
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	other equipments, facilities
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	45	570	natural environment
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	hazards, harmful substances
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	14	409	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	14	344	woodworking machine
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	welding equipment
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	electric equipment
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	vehicle
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	8	581	other causal agent

manufacturing machines			146		143		128	149	126	129	70	85	112	82	95	89	85	67	75	70	75	68	84	65	1,943	manufacturing machines
crane			118		109		116	122	117	114	69	89	69	86	76	91	75	77	69	79	88	62	64	60	1,750	crane
stairs, landing stage			61		61		44	63	52	65	37	55	47	53	44	46	54	48	49	51	45	56	62	58	1,051	stairs, landing stage
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	drill press, milling machine
other equipment, facilities			73		60		85	70	75	68	35	44	51	34	46	55	51	48	64	32	42	36	55	52	1,076	other equipment, facilities
hand tool			94		55		63	66	73	63	46	41	53	50	38	47	36	37	49	53	53	31	53	50	1,051	hand tool
power press			85		85		72	90	71	58	37	39	57	54	46	57	52	55	56	45	44	43	34	49	1,129	power press
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	grinding machine, buffing machine
working platform, boot board			53		58		57	54	51	56	30	40	31	44	35	35	39	37	42	42	30	28	35	42	839	working platform, boot board
human power hauling equipment			37		43		49	41	44	44	27	31	43	36	27	46	46	36	34	42	36	28	43	30	763	human power hauling equipment
machine/equipment as load			57		49		45	48	52	53	32	31	32	31	29	16	19	22	15	24	28	21	22	29	655	machine/equipment as load
other temporary buildings, establishments			29		28		30	34	28	30	20	12	26	28	24	18	29	21	17	21	25	28	18	27	493	other temporary buildings, establishments
truck			49		32		46	37	48	43	23	38	37	32	41	26	29	29	23	39	32	25	29	25	683	truck
building, establishment			36		43		32	32	52	41	22	29	40	33	33	29	25	26	29	33	34	23	23	25	640	building, establishment
other environments			9		12		14	11	4	11	9	8	16	25	12	23	13	17	11	19	12	8	14	25	273	other environments
conveyor			31		29		26	24	29	26	24	25	14	20	13	19	12	13	11	16	10	11	18	22	393	conveyor
slinging tool			77		62		64	70	51	55	39	46	45	42	56	40	41	43	42	31	38	33	30	20	925	slinging tool

forklift			37		48		53	63	51	47	30	29	36	32	27	20	33	28	29	30	32	24	33	20	702	forklift
high/cold temperature environment			7				3	2	3	7	1	12	12	4	10	5	6	10	8	21	13	7	9	18	158	high/cold temperature environment
human power cranes			4		5		3	5	5	3	7	2	5	4	6	4		1	2	1	4	3	11	17	92	human power cranes
power transmission mechanism			22		22		23	23	18	19	14	8	16	17	15	11	11	13	19	16	13	11	8	14	313	power transmission mechanism
other materials			20		21		19	19	17	16	15	12	24	13	14	17	10	6	9	11	5	7	13	9	277	other materials
other causal agent			25		16		21	17	17	31	10	18	29	15	18	13	15	12	13	10	23	37	139	8	487	other causal agent
circular sawing machine			12		12		10	8	8	8	5	9	6	4	2	7	7	5	7	5	4	6	3	8	136	circular sawing machine
other powered conveying machines			5		11		9	8	8	4		9	8	10	4	7	8	6	7	8	6	1	6	8	133	other powered conveying machines
roll machine (except printingroll machine)			12		14		13	14	9	7	5	6	8	14	6	6	10	8	8	9	6	8	6	7	176	roll machine (except printingroll machine)
arc welding equipment			6		10		11	10	13	14	10	4	7	3	4	9	8	6	3	5	7	7	7	7	151	arc welding equipment
cars, bus, motorcycle			64		31		34	47	41	28	22	45	46	20	23	29	31	22	32	39	23	11	24	6	618	cars, bus, motorcycle
harmful substance			10		8		14	11	14	4	12	12	8	3	5	7	7	7	5	6	5	5	7	6	156	harmful substance
scaffolding			15		8		11	7	10	14	10	6	6	7	3	8	6	9	9	3	3	9	3	6	153	scaffolding
other hazards, harmful substances			7		5		4	12	8	8	1	5	4	5	8	8	7	4	3	7	5	5	12	6	124	other hazards, harmful substances
opening			10		2		6	7	9	1	8		5	5	6	6	6	4	5	7	4	2	6	6	105	opening
transmission			2		1			1	7	2	1	3		5			7	2	3	1	2	1	3	6	47	transmission

lumber, bamboo			9		15		9	15	11	11	4	5	3	11	10	3	10	4	7	3	5	8	2	5	150	lumber, bamboo
shearing machine			21		20		11	8	11	18	8	14	11	7	7	9	9	8	8	6	2	5	3	4	190	shearing machine
other welding equipment			15		8		11	7	8	9	4	3	5	8	4	6	3	8	5	2	4	3	8	4	125	other welding equipment
mobile crane			9		11		6	8	8	2	5	3	8	3	5	9	6	6	4	7	4	1	8	4	117	mobile crane
elevator, lift			8		7		5	6	10	5	2	10	1	3	4	2	3		3	4	7	3	2	4	89	elevator, lift
other powered crane			6		2		10	10	4	6	5	6	4	5	6	5	1	7	2	8	3	2	2	3	97	other powered crane
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	3	81	roof, beam, haze, crossbeam, principal rafter
human power machine			3		7		4	6	2	4	2	5	2	2	4	6	4	3	3	8	5	2	4	3	79	human power machine
unclassifiable			6		10		7	4	2		6	6	2	2	3	5	7	2	4	3	2	1		3	75	unclassifiable
food manufacturing machine			3		5		4	2	4	3	3	2	2	3		6	4		10	4	2	4	7	3	71	food manufacturing machine
injection molding machine			4		5		6	5	4	6	2	3	3		4	2	2	1	2	7	3	4		3	66	injection molding machine
other vehicles			3		3		6		4	1	1			3	1	4	1	2		1	1	1	2	3	37	other vehicles
hollow chisel mortiser, wood borer					3		1	5	1		1	1	1	1		2		1		2	1	2	1	3	26	hollow chisel mortiser, wood borer
mixer, grinder			5		4		2	1	4	4	6	4	4	2	8	5	1	2	1	2	3	7	5	2	72	mixer, grinder
kiln, caldron			5		11		4	1	6	3	1	6	2	2	1	7	6	1	2	4		4	4	2	72	kiln, caldron
industrial robot					1		6	3	10	5		3	3	2	4	3		2	4	2	4	6	2	2	62	industrial robot
other woodworking			4		3		4		7	3	1	1	3	1	3	4	3	2	2	3	4	1	3	2	54	other woodworking

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	40-49
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	60 years old or more
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	30-39
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	20-29
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	19 years old or less
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	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0113 machine products in Japan (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	Workers scale
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	10-29
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	100-299
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	300 workers or more
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	9 workers or less
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	50-99
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	30-49
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	total

Transition of occurred months of fatal and non-fatal accidents in 0113 machine products in Japan (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	Month
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	January
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	July
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	June
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	March
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	September

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	February
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	April
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	November
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	December
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	August
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	May
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	October
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	total

Transition of prefectures of fatal and non-fatal accidents in 0113 machine products in Japan (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	Prefecture
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	Aichi
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	Osaka
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	Shizuoka
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	Hyogo
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	Saitama
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	Kanagawa
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	Nagano
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	Hiroshima
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	Gifu
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	Niigata
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	Mie
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	Fukuoka
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	Ibaraki
Shiga	53	58	47		45		65	60	54	44	28	31	46	24	38	30	38	38	31	45	29	37	84	46	971	Shiga

Yamaguchi	57	36	39		36		26	39	43	37	29	22	24	11	16	21	21	17	18	25	20	26	14	10	587	Yamaguchi
Oita	12	5	17		19		11	23	18	22	17	12	7	10	10	10	6	3	4	2	8	9	15	10	250	Oita
Kagoshima	20	15	13		11		12	9	6	10	10	5	7	5	5	7	9	7	6	10	6	12	7	10	202	Kagoshima
Aomori	13	6	14		13		6	14	13	10	9	9	8	11	5	10	10	11	6	6	7	10	5	9	205	Aomori
Tokushima	18	13	18		20		17	23	13	13	8	16	17	11	12	13	13	4	10	10	9	7	7	8	280	Tokushima
Miyazaki	16	14	15		14		12	8	10	12	7	5	8	7	11	6	8	12	7	11	14	2	14	5	218	Miyazaki
Tottori	10	13	4		5		6	7	5	2	3		3	4	5	5	1	1	2	2	8	5	4	4	99	Tottori
Okinawa	2	3			1		1	1			1								1	1			1	1	13	Okinawa
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	total

Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> MHLW, Jaan

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