

Fatal and non-fatal accidents in transport equipment products in Japan in 1999-2021

transport equipment products industry Code No.0115

Type of accidents in transport equipment 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	339	317	332	340	345	356	334	352	351	335	282	257	207	236	202	216	265	253	238	258	236	224	208	6,483	fall from height
falling to same level	232	231	247	252	264	264	332	295	293	285	214	224	225	243	223	249	251	251	269	327	283	236	285	5,975	falling to same level
crash	114	147	121	96	147	129	118	143	157	136	103	87	105	79	90	87	102	93	96	119	116	96	127	2,608	crash
struck by flying or falling object	291	310	305	284	303	304	292	295	300	299	186	215	194	187	166	178	151	171	169	169	170	156	155	5,250	struck by flying or falling object
collapse	57	75	73	75	86	70	79	84	89	80	57	54	54	63	46	55	57	51	50	55	43	38	32	1,423	collapse
crashed by	165	147	176	139	133	159	150	173	185	189	111	124	113	97	90	146	109	109	88	125	106	81	95	3,010	crashed by
caught in/between	918	929	898	851	891	951	914	900	897	741	507	526	546	547	533	462	475	437	517	484	450	400	434	15,208	caught in/between
cut	191	211	197	158	182	178	184	166	190	158	91	102	111	122	92	105	87	110	111	104	121	90	97	3,158	cut
injury to the sole of the foot	5	5	3	7	1	1	4	5	4	5	3	2	1		1	3	5	7	2	4	5	2	5	80	injury to the sole of the foot
drown		1			2	1	2		2				19	1	1	1								30	drown
contact to high/low-temperature	58	66	62	64	76	64	66	65	61	68	48	63	56	54	62	52	47	53	62	76	54	62	56	1,395	contact to high/low-temperature
contact to harmful	15	11	11	24	13	23	26	30	20	14	8	9	11	8	10	13	20	9	20	9	9	17	14	344	contact to harmful

substance																									substance
electric shock	8	9	10	4	1	5	4	8	9	9	2	3	4	3	2	2	7	2	2	3	3	7	5	112	electric shock
explosion	13	7	5	6	8	11	9	2	11	11	2	1	4	8	2	10	2	5	4	1	5	1	6	134	explosion
burst	3	2	2	6	3	4	4	2	3	3	2		3		1	3	2	1	2	1	5	1	3	56	burst
fire	10	7	3	6	3	4	10	12	4	9	13	2	8	7	6	6	5	4	2	5	5	7	3	141	fire
traffic accident (public road)	37	34	27	19	31	37	20	34	38	25	24	31	12	18	20	9	19	23	14	30	17	23	16	558	traffic accident (public road)
traffic accident (others)	1	8	2	2	2	1	1	3	1	2			1	2	1		3	1	1	4			2	38	traffic accident (others)
reaction to motion/improper motion	159	182	191	157	198	185	262	265	289	263	172	204	180	189	174	183	188	193	217	254	268	211	253	4,837	reaction to motion/improper motion
others	16	42	13	8	11	22	13	17	29	12	13	10	12	11	10	8	14	8	9	10	15	64	276	643	others
unclassifiable	5	2	1	4	5	4	3	7	10	3	2			3	1	4	3		4	5		1	4	71	unclassifiable
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Causal agents (large) of fatal and non-fatal accidents in transport equipment 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	812	827	773	734	757	779	768	716	790	635	395	439	476	458	435	412	364	376	422	383	366	319	356	12,792	machine
crane, conveying machine	342	347	383	338	404	409	370	424	442	397	289	291	254	244	219	235	248	223	241	281	254	233	248	7,116	crane, conveying machine
other equipment	482	519	535	485	516	562	564	538	532	575	389	337	369	398	379	385	368	377	379	422	411	360	391	10,273	other

																									equipment
temporary buildings, establishments	398	429	397	409	456	441	446	449	447	439	327	358	306	339	293	307	373	357	354	408	354	346	372	8,805	temporary buildings, establishments
substance, material	370	360	350	360	351	337	393	429	411	342	241	239	234	216	209	229	250	238	248	214	236	171	204	6,632	substance, material
load	97	103	123	88	102	131	140	152	140	130	86	87	84	64	71	80	73	81	82	112	101	74	79	2,280	load
environment	18	18	22	16	22	12	23	22	16	14	11	38	45	37	31	31	18	32	38	78	30	52	18	642	environment
others	118	140	96	72	97	102	123	128	165	115	102	125	98	122	96	113	118	97	113	145	159	162	408	3,014	others
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Causal agents (middle) of fatal and non-fatal accidents in transport equipment 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	4	3	2	3	3	2	1	1	4				1	2	1	1	1			3		1	1	34	engine
power transmission mechanism	16	20	11	22	18	17	26	17	15	18	9	18	11	9	5	12	9	9	12	8	9	11	8	310	power transmission mechanism
woodworking machine	35	24	23	26	22	16	21	19	14	13	12	9	6	6	8	11	10	11	8	12	14	11	14	345	woodworking machine
construction machine	12	10	13	6	7	14	6	13	9	10	9	10	4	5	5	2	4	5	4	7	10	9	5	179	construction machine
metal manufacturing machine	550	547	543	477	500	513	524	455	505	418	255	261	312	310	288	276	229	237	270	229	225	204	220	8,348	metal manufacturing machine

general machine	195	223	181	200	207	217	190	211	243	176	110	141	142	126	128	110	111	114	128	124	108	83	108	3,576	general machine
mobile silviculture machine																									mobile silviculture machine
crane	89	100	108	111	95	100	94	124	130	118	90	92	81	81	59	68	60	52	66	57	67	62	59	1,963	crane
conveying machine	175	177	195	168	238	225	207	225	226	201	131	131	137	124	123	131	137	118	135	159	134	121	133	3,751	conveying machine
vehicle	78	70	80	59	71	84	69	75	86	78	68	68	36	39	37	36	51	53	40	65	53	50	56	1,402	vehicle
pressure vessel	4	6	5	6	4	4	5	1	3	3	2	1	1	2	2	1			5	1	4		2	62	pressure vessel
chemical facilities		1				3		2	1	1	1							1	1			1	3	15	chemical facilities
welding equipment	81	80	82	79	63	80	93	71	72	70	46	39	44	47	64	49	49	39	45	49	39	30	35	1,346	welding equipment
kiln, caldron	8	10	9	9	15	16	8	10	9	14	3	3	4	8	8	5	8	6	3	3	7	6	8	180	kiln, caldron
electric equipment	7	8	12	8	5	10	7	7	10	14	3	5	10	6	4	8	4	5	4	2	7	4	4	154	electric equipment
human power machine, tools	116	125	125	120	146	142	157	147	150	158	89	73	114	109	98	93	87	106	104	121	121	91	106	2,698	human power machine, tools
tools	203	223	233	189	222	224	208	225	235	248	191	166	158	174	142	169	162	179	162	195	173	171	159	4,411	tools
other equipments, facilities	63	66	69	74	61	83	86	75	52	67	54	50	38	52	61	60	58	41	55	51	60	57	74	1,407	other equipments, facilities
temporary buildings, establishments	398	429	397	409	456	441	446	449	447	439	327	358	306	339	293	307	373	357	354	408	354	346	372	8,805	temporary buildings, establishments

hazards, harmful substances	37	30	20	48	33	34	41	47	38	20	18	17	29	11	19	28	28	19	26	15	17	19	29	623	hazards, harmful substances
materials	333	330	330	312	318	303	352	382	373	322	223	222	205	205	190	201	222	219	222	199	219	152	175	6,009	materials
load	97	103	123	88	102	131	140	152	140	130	86	87	84	64	71	80	73	81	82	112	101	74	79	2,280	load
natural environment	18	18	22	16	22	12	23	22	16	14	11	38	45	37	31	31	18	32	38	78	30	52	18	642	natural environment
other causal agent	35	63	26	14	13	31	33	26	26	23	14	9	20	24	25	27	17	17	21	23	21	62	290	860	other causal agent
no causal agent	72	74	66	53	79	67	88	96	127	84	85	114	74	94	70	82	99	77	88	115	136	98	112	2,050	no causal agent
unclassifiable	11	3	4	5	5	4	2	6	12	8	3	2	4	4	1	4	2	3	4	7	2	2	6	104	unclassifiable
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Causal agents (small) of fatal and non-fatal accidents in transport equipment 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			2		3		1	1	4				1	2	1	1	1			3		1	1	22	engine
power transmission mechanism			11		18		26	17	15	18	9	18	11	9	5	12	9	9	12	8	9	11	8	235	power transmission mechanism
circular sawing machine			10		13		14	14	7	7	8	4	2	3	2	8	5	5	5	7	13	10	12	149	circular sawing machine
band sawing machine			4				1	1	3	2	1	1		2	1	2	1	2						21	band sawing machine
wood planer machine			5		4		4	3	2	2	1	3	1		1	1	2	1	1	1	1		2	35	wood planer machine

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[illegible]

machine																									machine
other mobile silviculture machine																									other mobile silviculture machine
crane			84		76		76	103	106	105	76	74	62	68	48	51	47	40	52	46	44	42	45	1,245	crane
mobile crane			6		5		5	4	7	2	5	7	4	3	5	7	4	4	2	1	4	6	2	83	mobile crane
derrick crane			1		1																			2	derrick crane
elevator, lift			7		2		5	7	6	4	2	7	1	3	1	4	2	1	2	3	7	5	2	71	elevator, lift
cargo lifting appliance			2				2		1			1				1		1			1			9	cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																			1					1	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			8		11		6	10	10	7	7	3	14	7	5	5	7	6	9	7	11	9	10	152	other powered crane
truck			47		69		50	56	52	39	43	40	23	25	24	42	40	32	32	38	34	27	27	740	truck
forklift			91		97		91	97	110	111	55	54	74	70	59	55	57	52	58	68	61	50	71	1,381	forklift
railway equipment			2		5		1	5		2	2		1		2	1	2	2	1	1		1		28	railway equipment
conveyor			32		41		28	43	44	29	13	20	26	22	25	27	22	12	23	35	26	24	23	515	conveyor
loader			1												1								1	3	loader
straddle carrier								1																1	straddle carrier
rough terrain hauler											1													1	rough terrain hauler
other powered			22		26		37	23	20	20	17	17	13	7	12	6	16	20	21	17	13	19	11	337	other powered

conveying machines																									conveying machines
cars, bus, motorcycle			51		46		44	55	63	45	37	48	24	23	27	14	34	35	26	44	39	36	37	728	cars, bus, motorcycle
railway vehicle			1		2		3	2	2	4	1	1	1	3	2	1	2	3	1		2	3	4	38	railway vehicle
other vehicles			28		23		22	18	21	29	30	19	11	13	8	21	15	15	13	21	12	11	15	345	other vehicles
boiler							2	1							1				1					5	boiler
pressure vessel			1		1		1		2	1						1					3			10	pressure vessel
other pressure vessels			4		3		2		1	2	2	1	1	2	1				4	1	1		2	27	other pressure vessels
chemical facilities								2	1	1	1							1	1			1	3	11	chemical facilities
gas welding equipment			8		12		19	12	8	15	11	6	13	11	10	7	11	2	12	12	6	6	3	184	gas welding equipment
arc welding equipment			29		17		33	29	33	18	21	17	18	18	20	20	12	21	12	20	14	9	11	372	arc welding equipment
other welding equipment			45		34		41	30	31	37	14	16	13	18	34	22	26	16	21	17	19	15	21	470	other welding equipment
kiln, caldron			7		15		7	9	7	13	2	3	4	7	8	4	7	5	3	2	6	5	8	122	kiln, caldron
industrial dryer							1	1	1	1						1	1				1	1		8	industrial dryer
other kiln, caldron			2						1		1			1				1		1				7	other kiln, caldron
transmission			1		1		2	2	5	5	2		4	3	2	1	1	3	2		2	1	3	40	transmission
electric power facilities			4		2		1	3	4	5		3	2	1	1	3	1		1	1	2	2		36	electric power facilities
other electrical equipment			7		2		4	2	1	4	1	2	4	2	1	4	2	2	1	1	3	1	1	45	other electrical equipment
human power			12		10		9	4	1	6	2	3	5	4	3	4	3	5	4	5	17	16	24	137	human power

cranes																									cranes
human power hauling equipment			37		66		86	84	86	98	44	36	55	55	54	46	39	59	64	63	61	42	49	1,124	human power hauling equipment
human power machine			5		5		4	4	4	3	3	5	6	4	1	2	5	6	1	1	1			60	human power machine
hand tool			71		65		58	55	59	51	40	29	48	46	40	41	40	36	35	52	42	33	33	874	hand tool
ladder			93		97		94	90	106	105	78	61	65	70	61	74	78	87	75	84	60	73	75	1,526	ladder
slinging tool			47		37		29	40	40	46	42	23	26	30	19	26	13	21	16	29	23	29	13	549	slinging tool
other tools			93		88		85	95	89	97	71	82	67	74	62	69	71	71	71	82	90	69	71	1,497	other tools
other equipment, facilities			69		61		86	75	52	67	54	50	38	52	61	60	58	41	55	51	60	57	74	1,121	other equipment, facilities
scaffolding			45		35		45	42	39	42	30	26	15	24	19	26	27	32	30	26	28	22	14	567	scaffolding
timbering					1		1															1		3	timbering
stairs, landing stage			50		63		54	53	77	66	58	51	52	48	52	54	67	56	47	71	66	49	51	1,085	stairs, landing stage
opening			14		21		14	14	12	12	10	15	10	15	8	10	11	6	7	15	7	16	9	226	opening
roof, beam, haze, crossbeam, principal rafter			6		5		4	8	1	2	2	9	3	3	2	3	1	4	3	3	2	2	2	65	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			54		66		65	77	71	73	42	50	30	54	32	52	47	51	44	58	50	38	53	1,007	working platform, boot board
passage			88		115		122	107	99	110	84	91	101	109	94	96	128	143	139	131	127	130	156	2,170	passage
building, establishment			107		116		102	94	106	94	74	81	64	50	53	47	64	33	61	59	45	58	54	1,362	building, establishment
other temporary buildings, establishments			33		34		39	54	42	40	27	35	31	36	33	19	28	32	23	45	29	30	33	643	other temporary buildings, establishments

explosive substance				2	1	1					2			1			1					8	explosive substance
inflammable substance			6	14	14	10	6	4	8	5	8	2	7	12	8	5	5	5	5	2	9	135	inflammable substance
inflammable gas			4	2	1	3	7	3		1	7	3		2		3	2	3	2	2	3	48	inflammable gas
harmful substance			7	7	16	21	12	9	5	6	6	4	6	7	13	6	11	4	4	7	10	161	harmful substance
radiation								1														1	radiation
other hazards, harmful substances			3	8	9	12	13	3	5	5	6	2	6	6	7	5	7	3	6	8	7	121	other hazards, harmful substances
metal material			291	288	320	341	335	290	199	206	188	186	173	184	197	203	200	173	204	137	160	4,275	metal material
lumber, bamboo			21	12	17	17	16	12	10	6	5	5	4	7	11	6	3	7	5	6	6	176	lumber, bamboo
stone, sand, substance			3	2		1	2	2	2		1	1		1	3					1		19	stone, sand, substance
other materials			15	16	15	23	20	18	12	10	11	13	13	9	11	10	19	19	10	8	9	261	other materials
load			96	74	110	115	107	104	64	66	72	50	55	62	57	63	71	94	93	61	67	1,481	load
machine/equipment as load			27	28	30	37	33	26	22	21	12	14	16	18	16	18	11	18	8	13	12	380	machine/equipment as load
natural ground, rock			2			2				1	1	1		1				7	1	1		17	natural ground, rock
standing tree			2	3	1	1					1					1		1	1			11	standing tree
water			2	3		1	1		1		20	1	4	2		2	2		2			41	water
abnormal environment						1	1	1	2	1	1		1	2			3	3		3		19	abnormal environment
high/cold temperature environment			10	6	9	12	8	8	4	25	7	21	13	10	7	17	22	33	19	38	12	281	high/cold temperature environment

other environments			6		10		13	5	6	5	4	11	15	14	13	16	11	12	11	34	7	10	6	209	other environments
other causal agent			26		13		33	26	26	23	14	9	20	24	25	27	17	17	21	23	21	62	290	717	other causal agent
no causal agent			66		79		88	96	127	84	85	114	74	94	70	82	99	77	88	115	136	98	112	1,784	no causal agent
unclassifiable			4		5		2	6	12	8	3	2	4	4	1	4	2	3	4	7	2	2	6	81	unclassifiable
total			2,679		2,705		2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	40,899	total

Workers age of fatal and non-fatal accidents in transport equipment 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	92	113	89	89	97	102	104	90	106	80	59	51	61	58	45	45	48	45	41	39	43	37	45	1,579	19 years old or less
20-29	526	559	558	519	587	590	636	646	624	558	331	413	396	367	346	339	346	339	362	374	331	315	383	10,445	20-29
30-39	422	467	505	466	551	565	594	686	707	615	422	448	437	469	407	399	412	395	408	447	444	368	453	11,087	30-39
40-49	525	527	489	493	479	553	513	492	530	479	336	377	385	416	376	444	423	446	433	493	456	394	462	10,521	40-49
50-59	803	806	737	647	703	660	662	641	621	573	417	367	367	334	309	320	309	306	365	399	361	347	460	11,514	50-59
60 years old or more	269	271	301	288	288	303	318	303	355	342	275	258	220	234	250	245	274	250	268	291	276	256	273	6,408	60 years old or more
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Workers' number of workplace of fatal and non-fatal accidents in transport equipment products in 1999-2021

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50-99	267	360	293	282	315	310	322	314	340	316	188	201	252	243	195	233	232	227	258	262	243	223	285	6,161	50-99
100-299	323	286	284	283	331	321	336	409	496	450	274	303	323	329	309	305	338	302	352	373	345	267	383	7,722	100-299
300 workers or more	400	411	357	355	360	428	485	527	568	530	329	392	367	362	344	362	342	373	441	504	462	423	638	9,760	300 workers or more
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Month of fatal and non-fatal accidents in transport equipment products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	204	198	229	203	222	232	212	229	241	222	185	140	159	150	142	159	143	160	159	178	160	156	156	4,239	January
February	205	236	205	202	224	225	225	230	231	254	146	157	145	187	146	165	160	139	154	185	161	158	152	4,292	February
March	220	249	250	198	222	212	266	248	270	277	157	149	165	181	164	141	150	178	168	142	154	149	180	4,490	March
April	206	186	224	181	184	219	217	257	207	197	153	141	130	136	119	114	144	132	136	150	142	123	244	3,942	April
May	205	205	196	196	209	206	209	210	251	206	135	139	109	147	135	136	159	135	140	148	151	102	168	3,897	May
June	249	245	239	199	235	241	256	263	235	222	141	187	176	164	136	143	178	154	159	191	173	139	183	4,508	June
July	264	239	243	248	264	277	228	236	286	259	159	187	175	202	157	175	171	154	168	215	196	160	184	4,847	July
August	218	241	219	190	213	221	254	250	263	223	145	177	157	167	149	154	134	135	170	176	129	144	191	4,320	August
September	253	245	250	215	265	263	274	280	246	240	155	188	185	148	147	177	150	173	175	154	183	157	157	4,680	September
October	210	248	251	235	251	252	224	231	279	222	161	153	165	146	171	157	162	157	161	183	181	134	136	4,470	October
November	212	228	181	229	210	214	236	223	232	185	168	156	149	129	146	135	124	148	143	162	139	137	171	4,057	November
December	191	223	192	206	206	211	226	201	202	140	135	140	151	121	121	136	137	116	144	159	142	158	154	3,812	December
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	51,554	total

Prefecture of fatal and non-fatal accidents in transport equipment products in 1999-2021

[illegible]

Mie	94	83	102		68		84	136	125	116	59	69	57	82	69	53	81	65	66	75	74	46	150	1,754	Mie
Shiga	24	16	16		19		33	28	22	24	19	16	16	23	25	21	29	21	20	23	18	23	60	496	Shiga
Kyoto	26	27	33		22		15	25	29	22	17	8	17	11	13	8	16	13	18	21	13	9	12	375	Kyoto
Osaka	117	119	112		113		78	103	115	76	67	51	59	59	53	57	52	59	80	58	47	65	68	1,608	Osaka
Hyogo	79	91	79		95		88	75	103	85	60	66	49	61	49	42	57	47	47	56	62	67	66	1,424	Hyogo
Nara	6	8	12		6		8	9	12	12	10	7	11	5	7	9	6	5	7	8	5	1	11	165	Nara
Wakayama	10	11	11		7		10	10	12	13	5	2	3	8	5	5	8	6	7	6	6	11	5	161	Wakayama
Tottori	2	4	6		5		1	5	4	7	3	3	3	4	1	2	1	2	3	7	2	4	4	73	Tottori
Shimane	11	5	12		7		7	9	6	13	5	7	10	8	8	5	9	4	6	7	7	2	2	150	Shimane
Okayama	43	34	41		34		55	59	53	47	35	40	40	44	36	47	25	21	48	44	37	28	25	836	Okayama
Hiroshima	205	223	198		222		228	229	214	235	153	186	143	157	129	136	135	140	156	163	163	137	130	3,682	Hiroshima
Yamaguchi	56	54	53		56		47	50	53	61	50	27	24	25	39	37	42	30	45	38	41	21	34	883	Yamaguchi
Tokushima	27	15	14		12		14	20	16	18	23	16	11	8	14	5	10	13	9	12	10	6	8	281	Tokushima
Kagawa	49	51	39		39		42	45	56	44	48	33	25	29	22	25	20	26	18	26	27	29	22	715	Kagawa
Ehime	65	83	91		101		97	69	96	95	63	67	60	54	42	53	61	51	55	47	52	54	50	1,406	Ehime
Kochi	23	24	29		25		21	24	19	26	19	23	13	11	9	18	16	14	12	18	16	16	9	385	Kochi
Fukuoka	56	58	46		68		69	58	78	53	45	42	46	40	40	48	46	68	75	74	63	47	46	1,166	Fukuoka
Saga	9	13	11		11		17	20	17	21	11	14	13	22	15	16	16	19	20	28	24	15	17	349	Saga
Nagasaki	91	85	68		79		60	72	66	50	69	75	56	58	42	56	64	57	65	57	54	66	59	1,349	Nagasaki
Kumamoto	41	32	40		39		38	43	34	30	21	29	23	19	21	20	35	29	32	31	24	46	39	666	Kumamoto
Oita	50	57	51		54		59	76	68	70	83	66	51	52	43	34	47	47	47	48	43	35	39	1,120	Oita
Miyazaki	4	1	3		1		4	4	7	3	3	5	4	6	3	1	4	5	5	6	6	6	16	97	Miyazaki
Kagoshima	15	16	17		11		12	15	14	11	17	8	9	8	6	7	6	8	8	6	7	13	5	219	Kagoshima
Okinawa		3	2				5	2	2	3	2	2	3	3	1	3	1	1		1			5	39	Okinawa

total	2,637	2,743	2,679		2,705		2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	46,279	total
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Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm> (MHLW, Japan)

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Fatal accidents in transport equipment products in Japan in 1999-2021

transport equipment products industry Code No.0115

Type of fatal accidents in transport equipment products in 1999-2021

[illegible]

injury to the sole of the foot																									injury to the sole of the foot
drown		2			2	1	1	1	1		1		16	1		1								27	drown
contact to high/low-temperature					1				2	6		2		1	3			1	1	2	1	2	1	23	contact to high/low-temperature
contact to harmful substance		3	1	1	4		1	2	1	1	1		1	1	1	1			1	1		4		25	contact to harmful substance
electric shock		1	2				1	2	2			1	2	1			1			1				14	electric shock
explosion	1		1	1	1	3			4	4			2	3		1								21	explosion
burst																			1					1	burst
fire	2				1		1	1	1	1			1			1	2		1	1		2		15	fire
traffic accident (public road)	1	2	2	1		2				1	1			2				1		4	1			18	traffic accident (public road)
traffic accident (others)		1		1																				2	traffic accident (others)
reaction to motion/improper motion																		1						1	reaction to motion/improper motion
others						1	1	1		1		2	2	1			1	1	1		1	1		14	others
unclassifiable																									unclassifiable
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Causal agents (large) of fatal accidents in transport equipment 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
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machine	9	3	4	7	5	6	4	2	5	9	3	6	2	4	5	6	2	3	5	3	2	1	1	97	machine
crane, conveying machine	6	8	8	6	9	11	6	8	9	8	3	4	5	8	4	8	3	6	3	11	4	3	5	146	crane, conveying machine
other equipment	2	3	4	2	3	3	3	5	5	8	5	1	3	7	2	1	3	2	3	5	1	4		75	other equipment
temporary buildings, establishments	6	5	10	5	6	6	6	9	6	4	5	6	4	5	6	3	2	2	2	4	2	5	2	111	temporary buildings, establishments
substance, material	3	3	7	3	8	4	2	6	7	9	1		5	3	1	2	3			1		2		70	substance, material
load				1	1		1	1	2	1	1	1					2				2	1	1	15	load
environment		2			2	1				4		2	18	3	4				1	6	1	3	1	48	environment
others	1					1	1	2	1	1		2	1	1		1	1	1	1		1	3		19	others
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Causal agents (middle) of fatal accidents in transport equipment products in 1999-2021

[illegible]

[illegible]

load				1	1		1	1	2	1	1	1					2				2	1	1	15	load
natural environment		2			2	1				4		2	18	3	4				1	6	1	3	1	48	natural environment
other causal agent	1					1		1								1						1		5	other causal agent
no causal agent							1		1	1		2	1	1			1	1	1		1			11	no causal agent
unclassifiable								1														2		3	unclassifiable
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Causal agents (small) of fatal accidents in transport equipment 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	2				1																			3	engine
power transmission mechanism											1													1	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 milling machine

[illegible]

[illegible]

[illegible]

pressure vessel																									pressure vessel
other pressure vessels																		1						1	other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment									1	2				3			2		1			1		10	gas welding equipment
arc welding equipment			1				1	1	3			1					1	1	1	1				11	arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer										1														1	industrial dryer
other kiln, caldron																									other kiln, caldron
transmission							1							1							1			3	transmission
electric power facilities			1					1																2	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	human power hauling equipment
human power machine																									human power machine
hand tool																									hand tool
ladder				2			1	1												1				5	ladder

[illegible]

other hazards, harmful substances								1		2												2		5	other hazards, harmful substances
metal material		1	5	1	2	1	1	3		6			2	3	1		3							29	metal material
lumber, bamboo									1															1	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load				1	1			1	2			1					2				1	1		10	load
machine/equipment as load								1		1	1										1		1	5	machine/equipment as load
natural ground, rock																				3				3	natural ground, rock
standing tree																									standing tree
water		1			1	1							16	1										20	water
abnormal environment		1								1			1		1				1			2		7	abnormal environment
high/cold temperature environment					1					3		2		2	3					2	1	1	1	16	high/cold temperature environment
other environments													1							1				2	other environments
other causal agent	1					1		1							1							1		5	other causal agent
no causal agent							1		1	1		2	1	1			1	1	1		1			11	no causal agent
unclassifiable								1														2		3	unclassifiable
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Workers age of fatal accidents in transport equipment 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			1			1	1	1			1	1		1			1					1		9	19 years old or less
20-29	5	1	7	4	2	2	4	7	4	11	1	2	5	2	4	6	3	1	2	3	2	1	1	80	20-29
30-39	2	1	5	4	5	6	7	4	4	7	3	4	3	7	4	3	5	1	3	5	3	4	1	91	30-39
40-49	3	6	1	5	2	8	4	5	3	2	3	6	6	5	4	4	1	3	1	5	2	6	3	88	40-49
50-59	10	7	15	8	18	10	4	12	16	12	7	5	17	8	4	4	2	5	2	9	2	5	3	185	50-59
60 years old or more	7	9	4	3	7	5	3	4	8	12	3	4	7	8	6	4	4	4	7	8	4	5	2	128	60 years old or more
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Workers' number of workplace of fatal accidents in transport equipment 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	6	4	8	3	8	7	6	6	6	4	2	2	7	5	3	4	6	3	2	6	3	6	3	110	9 workers or less
10-29	6	7	11	4	6	7	6	10	10	11	9	5	13	11	5	4	2	2	2	7	4	6	1	149	10-29
30-49	2	3	3	2	5	1		5	5	3		5	4	4	2	2		3	1	4		2		56	30-49
50-99	2	3	3	3	5	2	3	1	4	4	1	1	3	2	1	3	2		4	1		1	1	50	50-99
100-299	6	5	3	6	3	6	3	6	4	7	1	2	4	4	5	4	3	2	3	5	3	3	1	89	100-299
300 workers or more	5	2	5	6	7	9	5	5	6	15	5	7	7	5	6	4	3	4	3	7	3	4	4	127	300 workers or more
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Month of fatal accidents in transport equipment products in 1999-2021

[illegible]

January	1		5	3	2	2	5	2	3	3	4	2	2	4	1	1	2		1	2	1	1	2	49	January
February	4	3	4		2	1	1	3	1	3		2	2			2	1		3	3	1	1	1	38	February
March	2	1		2	1	2	1	4	2	4	2		18	2	2		3	3		1		4	1	55	March
April	1	1		1	2	2	3	4		3	2	1	3	1	2	4	2	2	3	1	2		1	41	April
May	3	1	5	1	1	2	2	4	3	9		1	2	3	1	3	2		4					47	May
June	3	3	4	4	3	1	3	1	2	4		4	2	1	3	1		1	1	2	2	2		47	June
July	3	4	3	1	2	8	1	4	4	2			2	4	7	1	2	1	1	7	1	4	2	64	July
August	3	3	3	3	2	5	5	5	9	6	2	5	3	6	2	2	2	1		3		1	1	72	August
September	2	2	2		3	3		2	5	2	5	1		3	2	2	1	3		2		3		43	September
October	1	3	2	2	7	2		1	6	3		1	1	2	1	1		1	1	5	2	2		44	October
November	2	2	3	4	3	3	1	2		2	1	2	1	2		2		1	1	3			2	37	November
December	2	1	2	3	6	1	1	1		3	2	3	2	3	1	2	1	1		1	4	4		44	December
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total

Prefecture of fatal accidents in transport equipment 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		1	1	2					1							1			1		1		9	Hokkaido
Aomori			1																					1	Aomori
Iwate						4		1					1	2		1								9	Iwate
Miyagi					1			3		1			14		2					3				24	Miyagi
Akita																		2						2	Akita
Yamagata			1				1			2					1									5	Yamagata
Fukushima			1			1	1			1		1	2			1								8	Fukushima
Ibaraki	1								1							2							1	5	Ibaraki

[illegible]

Okayama			2	1	2					3		1		1	1	1	1		3	3		1			20	Okayama
Hiroshima	3	4	3	1	7	7	3	5	3	10	2	6	3	3	3	1	2	3	4	3	5	1			82	Hiroshima
Yamaguchi	1	1		1			1	1	3	2	2		1	1	2		1	1		1	1				20	Yamaguchi
Tokushima	1				1							1				1		1							5	Tokushima
Kagawa	1		2	3	1	3	1	2	2	2	1		3	3	1								3	1	29	Kagawa
Ehime	6		7		3	3	2	2	3	3	3	2	2		2		1	1					4	1	45	Ehime
Kochi												1													1	Kochi
Fukuoka		1		1	2					2				1		1				1			1		10	Fukuoka
Saga					1								1							1		1			4	Saga
Nagasaki		1	1	1			1	3	2		2		3	2	1	1	1		1	2	1	4			27	Nagasaki
Kumamoto			1	1		1	1	1	1				1		1				1	1					10	Kumamoto
Oita	2	2		2	1		1	3	1		4	1				1	1				2				21	Oita
Miyazaki								1																	1	Miyazaki
Kagoshima					1																				1	Kagoshima
Okinawa																										Okinawa
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	581	total	

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

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