Fatal and non-fatal accidents in other steel products in Japan in 1999-2022

other steel products industry Code No.011009

Type of accidents in other steel products in 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
fall from height	37	56	38	32	47	36	40	32	40	32	29	23	29	25	24	23	29	24	21	32	29	23	20	23	744
falling to same level	22	30	22	24	24	21	29	20	26	19	12	20	23	11	21	12	15	13	12	10	14	24	15	20	459
crash	18	12	16	14	12	14	10	10	11	16	6	8	8	5	7	7	10	10	8	7	7	7	3	8	234
struck by flying or falling object	63	76	62	58	50	69	53	57	45	55	34	45	30	30	22	30	23	19	33	24	34	21	22	20	975
collapse	18	22	24	17	17	18	16	7	13	17	6	9	8	12	3	6	3	8	3	7	9	6	7	7	263
crashed by	39	28	29	19	13	24	22	17	16	22	18	15	14	16	13	15	16	10	23	6	20	14	18	9	436
caught in/between	112	119	84	111	78	107	91	86	87	84	57	67	62	57	69	83	55	49	53	61	54	47	50	42	1,765
cut	20	26	25	23	17	17	14	14	17	18	19	12	12	10	9	8	14	12	9	4	6	9	10	9	334
injury to the sole of the foot		1	2			1	1			2	2	1		1		2		1	1						15
drown													1												1
contact to high/low-	12	8	12	6	10	12	14	8	12	11	7	11	6	14	8	13	7	7	10	5	5	10	7	6	221

temperature																									
contact to harmful substance	1			1		3	2	3	1	1	2			1	1		1				2		1		20
electric shock	1		1	2			1				1		1		1	1							1		10
explosion	3	1				1		1		2	1					2				1					12
burst						1		1		1			1												4
fire	1		1	1	2			1					2	2											10
traffic accident (public road)	2	2		4	1	1	6	1	2	1	2	4	3	1	4	3	2	7		3	2	2	4	1	58
traffic accident (others)			1											1											2
reaction to motion/improper motion	11	14	21	15	17	12	19	15	18	14	10	11	10	15	6	9	11	8	9	26	16	15	8	12	322
others	2	1	2	2	1	2		4	1	1			2		1	1	1	3		2	2		11	1	40
unclassifiable			1				1									1		1							4
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Causal agents (large) of fatal and non-fatal accidents in other steel products in 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
machine	88	72	69	91	56	67	60	56	69	71	34	49	37	43	37	49	41	40	41	37	42	32	33	38	1,252

crane, conveying machine	62	102	62	59	58	76	69	55	61	63	62	54	49	44	45	49	39	35	53	41	46	44	31	28	1,287
other equipment	49	39	42	38	35	66	64	41	38	39	37	28	33	34	23	34	27	14	30	26	28	28	31	25	849
temporary buildings, establishments	23	35	31	26	25	19	29	27	28	27	17	24	25	13	22	14	24	19	8	22	20	25	19	22	544
substance, material	110	118	106	85	81	82	67	70	73	69	44	56	51	48	52	46	37	41	33	37	44	33	43	32	1,458
load	20	23	19	16	20	23	18	16	13	17	8	8	9	10	6	12	12	10	6	13	8	9	6	3	305
environment	2	1	1	4	1		1	3	2	3		5	5		1	5	2	3	5	2	2	4	3	4	59
others	8	6	11	10	13	6	11	9	5	7	4	2	3	9	3	7	5	10	6	10	10	3	11	6	175
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Causal agents (middle) of fatal and non-fatal accidents in other steel products in 1999-2022

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	2022	total
engine	1	1						1												1	1				5
power transmission mechanism	4	1		3		1	3		6	1	1	3	1	1	1	2	2		1			2	1	2	36
woodworking machine		2	1	4	2		2	1		3	1	1	2	1			1	2				1		2	26

construction machine	1	2	1	6	4	5	5	2	3	4	4	5	2	2	1	5	3	5	2	5	5	6	2	4	84
metal manufacturing machine	63	49	48	60	35	43	34	40	39	50	23	29	22	29	20	28	26	20	29	24	26	12	19	19	787
general machine	19	17	19	18	15	18	16	12	21	13	5	11	10	10	15	14	9	13	9	7	10	11	11	11	314
mobile silviculture machine																									
crane	30	48	25	35	25	39	29	21	27	25	24	18	25	18	11	23	17	12	15	15	21	14	10	10	537
conveying machine	32	52	37	22	31	35	35	32	32	34	36	31	22	24	32	24	20	17	37	23	23	28	16	17	692
vehicle		2		2	2	2	5	2	2	4	2	5	2	2	2	2	2	6	1	3	2	2	5	1	58
pressure vessel		1	1			2		1		1			1						1						8
chemical facilities							1																		1
welding equipment	3	3	5	2	4	4	7	3	6	3	5	5	2	9	1	4	1	3	2	1	3	1	7	4	88
kiln, caldron	5	1	3		2	7	2	4		3		2	2	1	1	3	2		2	2		2			44
electric equipment	2	1	1	1				1					1												7
human power machine, tools	8	11	5	11	7	11	10	9	3	3	5	1	5	6	5	7	4	3	8	3	5	5	5	4	144
tools	27	18	25	17	17	32	34	11	24	22	15	17	15	13	15	12	18	7	12	16	19	16	10	15	427
other equipments,																									

facilities	4	4	2	7	5	10	10	12	5	7	12	3	7	5	1	8	2	1	5	4	1	4	9	2	130
temporary buildings, establishments	23	35	31	26	25	19	29	27	28	27	17	24	25	13	22	14	24	19	8	22	20	25	19	22	544
hazards, harmful substances	5		2	2	1	5	3	2	2	3	3		1	4	3	3	2	1		1	3	1	1	2	50
materials	105	118	104	83	80	77	64	68	71	66	41	56	50	44	49	43	35	40	33	36	41	32	42	30	1,408
load	20	23	19	16	20	23	18	16	13	17	8	8	9	10	6	12	12	10	6	13	8	9	6	3	305
natural environment	2	1	1	4	1		1	3	2	3		5	5		1	5	2	3	5	2	2	4	3	4	59
other causal agent	3	1	1	1		3	1	2		1	1			2	1	2		3	2	1	2		11		38
no causal agent	4	5	10	9	13	2	9	7	5	5	3	2	3	7	2	5	5	6	4	9	8	3		5	131
unclassifiable	1					1	1			1								1						1	6
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Causal agents (small) of fatal and non-fatal accidents in other steel products in 1999-2022

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	2022	total
engine								1												1	1				3
power transmission mechanism							3		6	1	1	3	1	1	1	2	2		1			2	1	2	27

circular sawing machine			1		2		2			1	1	1	2					1						2	13
band sawing machine																									
wood planer machine																	1								1
hollow chisel mortiser, wood borer														1											1
chamfering machine, router, woodworking milling machine																									
chain saw																						1			1
other woodworking machines								1		2								1							4
leveling, transporting or loading machine			1		2		1				1	1	1		1		1	3		2	1	2		1	18
excavating machine					1		2	2	1	1	3	3				1	1			1		1	1	1	19
foundation work machine													1						1						2
hardening machine																									

demolition machine										1						2		2	1	1	2	2	1	2	14
vehicle for high lift work							2		1	1															4
other construction machines					1				1	1		1		2		2	1			1	2	1			13
lathe			3		1			2	2	3	1		1	1		1				1	1	1	1	1	20
drill press, milling machine			4		2		2	4	1	3		3	1	1	4		1	1	2	2	1	1		2	35
grinding machine, buffing machine			5		1		5	3	9	7	2	2	2	5	1	2	4	2	3	1	2	3		3	62
power press			2		1		1	2	1	4		1	4	3	1	1	2	3	2	2		1	2		33
forging pressure hammer			3		2		4			3	5	4		1	1		1	1		1	1				27
shearing machine			7		5		4	10	6	5	8	3	4	3	1	9	5	5	9	3	6	1	7		101
other metal manufacturing machines			24		23		18	19	20	25	7	16	10	15	12	15	13	8	13	14	15	5	9	13	294
centrifugal machine																									
mixer, grinder								1	3	2				1	1				2			1	2		13
roll machine (except printingroll machine)			8		4		6	6	7	5	2	5	5	5	6	6	2	1	2	4	3	1	2	1	81

injection molding machine																		1							1
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			11		11		10	5	11	6	3	6	5	4	8	8	7	11	5	3	7	9	7	10	147
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			21		23		27	20	23	22	23	18	20	16	9	20	15	11	10	12	18	10	9	9	336
mobile crane			4		2		1		2	3	1		5	1	1	1	2	1	3	2	1	4	1		35
derrick crane																									
elevator, lift																1									1
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane							1	1	2					1	1	1			2	1	2			1	13
truck			16		21		19	16	19	20	18	10	19	12	19	12	10	13	16	14	16	15	6	11	302
forklift			10		2		8	6	4	9	11	8		7	5	5	5	2	9	5	4	6	3	3	112
railway equipment												1													1
conveyor			7		5		8	9	5	2	5	10	3	5	6	5	5	2	10	3	3	7	6	2	108
loader			2																1	1					4
straddle carrier												1													1
rough terrain hauler																									
other powered conveying machines			2		3			1	4	3	2	1			2	2			1				1	1	23
cars, bus, motorcycle					2		5	2	1	3	2	5	2	2	2	1	1	6		3	2	1	5		45
railway vehicle										1															1
other vehicles									1							1	1		1			1		1	6
boiler																									

pressure vessel																									
other pressure vessels			1					1		1			1						1						5
chemical facilities							1																		1
gas welding equipment			2		2		4	1	6	2	5	2	2	9	1		1	2	2	1	3	1	5	2	53
arc welding equipment			2		2		3	1				3				2		1					1	1	16
other welding equipment			1					1		1						2							1	1	7
kiln, caldron			2		2		1	4		3		2	2	1	1	2	2		2	2		1			27
industrial dryer							1																		1
other kiln, caldron			1													1						1			3
transmission								1																	1
electric power facilities													1												1
other electrical equipment			1																						1
human power cranes															1			1							2
human power hauling equipment			1		2		2	2	1		1		1	3	1	3	1	2	1	1	1	3	3	1	30

human power machine								1					1			1			3		1				7
hand tool			4		5		8	6	2	3	4	1	3	3	3	3	3		4	2	3	2	2	3	64
ladder			9		9		7	3	5	7	7	4	7	3	6	4	5		6	6	4	7	4	5	108
slinging tool			10		3		19	3	14	7	3	6	5	5	3	5	6	5	5	6	9	5	4	6	129
other tools			6		5		8	5	5	8	5	7	3	5	6	3	7	2	1	4	6	4	2	4	96
other equipment, facilities			2		5		10	12	5	7	12	3	7	5	1	8	2	1	5	4	1	4	9	2	105
scaffolding					2		1	2	2		1	2			1		1			1				2	15
timbering																									
stairs, landing stage			6		2		4	3	1	4			1	3	5	3	4	4	1	3	1	3	4	2	54
opening			1		1		1	1	1			2	2	1	1		1	1		1					14
roof, beam, haze, crossbeam, principal rafter					1								1							3					5
working platform, boot board			3		3		6	2	5	10	1	5	8	5	8	3	6	4	2	4	4	8	5	5	97
passage			8		10		9	11	10	6	6	7	8	4	4	5	7	9	2	5	11	10	8	9	149
building, establishment			10		4		1	4	7	4	6	5	3		2	2	3		3	2	3	2	2	2	65
other temporary buildings,			3		2		7	4	2	3	3	3	2		1	1	2	1		3	1	2		2	42

establishments																									
explosive substance																									
inflammable substance			1				1	1			2		1		1	1						1		1	10
inflammable gas															1	1	1				1				4
harmful substance							1		1	2	1			1	1		1				1				9
radiation																									
other hazards, harmful substances			1		1		1	1	1	1				3		1		1		1	1		1	1	15
metal material			98		73		60	65	68	64	39	55	46	42	46	38	33	38	32	33	39	27	39	28	963
lumber, bamboo			1		3		3		2	1	1		1		1	2	1	2		1		2	1	2	24
stone, sand, substance			1					1	1							1									4
other materials			4		4		1	2		1	1	1	3	2	2	2	1		1	2	2	3	2		34
load			14		18		15	13	13	15	8	7	8	9	6	12	9	10	5	12	6	8	6	2	196
machine/equipment as load			5		2		3	3		2		1	1	1			3		1	1	2	1		1	27
natural ground, rock										1															1
standing tree								1		1											1				3
water													2						1				1		4
abnormal																									

environment								1														1			2
high/cold temperature environment			1		1		1	1	2	1		5	3		1	3	2	2	4	2		2	1	1	33
other environments																2		1			1	1	1	3	9
other causal agent			1				1	2		1	1			2	1	2		3	2	1	2		11		30
no causal agent			10		13		9	7	5	5	3	2	3	7	2	5	5	6	4	9	8	3		5	111
unclassifiable							1			1								1						1	4
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Workers age of fatal and non-fatal accidents in other steel 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	5	9	6	7	8	9	12	4	7	8	3	6	4	7	6	7	1	2	5	7	5		3	1	132
20-29	67	79	69	72	42	69	60	57	45	54	27	36	37	39	35	36	32	27	33	25	31	25	26	26	1,049
30-39	60	65	50	66	45	66	72	55	59	56	48	52	52	39	44	46	39	45	45	35	35	41	36	24	1,175
40-49	83	62	65	45	51	51	50	54	53	52	45	44	48	50	43	66	45	48	45	57	59	51	43	38	1,248
50-59	119	138	112	104	105	109	89	66	68	70	57	46	46	38	27	35	38	24	32	35	36	33	38	48	1,513
60 years old or more	28	43	39	35	38	35	36	41	57	56	26	42	25	28	34	26	32	26	22	29	34	28	31	21	812
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Workers' number of workplace of fatal and non-fatal accidents in other steel 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	121	114	108	109	98	107	78	72	86	74	38	45	47	46	49	44	44	28	33	36	42	29	34	24	1,506
10-29	110	135	115	111	97	103	97	100	89	84	83	71	67	69	69	74	64	55	74	60	83	60	55	54	1,979
30-49	36	59	48	36	33	42	47	40	48	66	31	36	41	29	28	42	31	38	26	35	29	32	31	31	915
50-99	49	45	43	36	35	48	56	38	37	41	26	39	33	37	25	28	26	28	24	28	22	30	27	21	822
100-299	35	31	21	28	19	31	28	22	26	22	16	29	19	16	13	25	19	20	20	27	20	21	25	22	555
300 workers or more	11	12	6	9	7	8	13	5	3	9	12	6	5	4	5	3	3	3	5	2	4	6	5	6	152
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Month of fatal and non-fatal accidents in other steel 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	25	27	20	24	21	22	26	11	29	29	18	19	15	13	11	15	15	11	6	8	15	13	18	13	424
February	25	45	27	27	22	26	30	26	25	21	11	10	18	13	9	13	14	21	16	18	16	10	14	12	469
March	20	30	35	24	25	35	33	26	30	30	20	20	24	23	14	22	16	19	18	12	16	17	13	11	533
April	28	27	26	25	29	28	24	23	20	21	14	14	13	12	19	15	15	11	15	13	20	22	12	11	457
May	28	44	36	29	21	36	18	29	35	22	19	17	20	17	19	19	19	12	17	18	18	10	16	12	531
June	24	27	39	22	19	21	18	30	22	15	20	21	15	26	12	15	19	13	19	21	13	19	14	16	480

July	45	28	33	31	27	33	33	19	24	40	19	22	22	18	19	19	16	11	18	15	20	17	10	17	556
August	33	33	23	27	26	27	33	20	20	22	14	17	17	20	17	29	18	14	11	22	11	16	26	10	506
September	39	30	29	27	26	33	32	20	26	28	17	20	24	17	24	25	14	13	17	11	19	17	15	16	539
October	30	40	35	31	23	29	24	24	28	25	22	21	16	17	20	13	17	13	17	16	16	11	16	16	520
November	36	34	23	36	27	27	26	24	13	29	11	25	14	17	9	17	9	22	12	14	18	14	13	16	486
December	29	31	15	26	23	22	22	25	17	14	21	20	14	8	16	14	15	12	16	20	18	12	10	8	428
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

Prefecture of fatal and non-fatal accidents in other steel 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		3	4		1		2	5	4	2		4	10	2	1	8	6	6	6	4	2	6	5	5	86
Aomori	1		1							1	1	2		2		3	2	3	1	3	3	1	2	2	28
Iwate	2	2	2		1		1	1	3	1	2	1	2	1	1	1	1		2			1	1		26
Miyagi	3	1	4		3		6	4	5	1	2	2	3	2	1			2		1	1	5	5	2	53
Akita		1			2			2	1	5	1	3	2	1			2		2	1		5	1	1	30
Yamagata	3	2	4		2		4	3	3		2	2	2	3	3		1	1	1	2	1	2	1	2	44
Fukushima	11	2	3		7		10	7	3	7	4	6	1	9	2	4	2	6	7	5	3	6	5	4	114
Ibaraki	8	4	7		5		6	11	3	7	6	7	3	5	2	5	11	3	8	11	4	5	6	5	132
Tochigi	10	11			3		5	1	5	6	4	5	2	3	8	9	3	1	4	3	8	2	2	3	98
Gunma	15	13	6		6		7	14	7	4	5	4	6	3	6	3	8	7	7	8	6	2	5	3	145

Saitama	10	34	17		12		8	3	4	3	6	5	7	4	5	7	5	6	6	8	10	7	2	4	173
Chiba	43	34	46		13		17	12	13	23	15	9	12	13	5	10	10	6	9	8	10	10	18	17	353
Tokyo	13	14	20		14		10	9	19	6	7	7	8	3	9	5	6	8	6	4	4	6	2	3	183
Kanagawa	16	15	12		9		16	21	15	12	11	12	7	9	10	7	8	10	12	9	13	6	7	4	241
Niigata	11	14	4		7		9	9	10	15	6	12	7	10	6	6	7	8	9	10	6	7	6	5	184
Toyama	5	8	4		8		2	2	3	5	3	1	1	1	8	4	3	2		2	2	2	2	2	70
Ishikawa	3		3		2		3	7	1	5		2	4	2	3	4	1		1	3	6	1	5	2	58
Fukui	1		1		1			2	1	2	3		1	2	3	2		1	4	2	3	1	1		31
Yamanashi	2	2			1		2	1		1			1		2	5	1			1				2	21
Nagano	9	4	4		2		4	5	4	2	1	6	1	2	4	1				1	1			1	52
Gifu	5	9	6		7		8	3	4	4	4	3	4	5	5	3	3	2	1	4	3	3	3	3	92
Shizuoka	22	18	6		7		4	8	7	6	7	6	10	6	3	5	3	3	2	8	5	4	9	7	156
Aichi	48	36	44		42		29	29	38	40	25	32	25	24	25	26	15	21	22	16	29	14	22	13	615
Mie	1	3	2		3		5	1	2	1		5	2	3	3	6	5		2	2	2	2	2	1	53
Shiga	2	5	5		9		11	7	6	5	3	4	3	2	3	3	5	5	4			3	5		90
Kyoto	7	2	1		5		5	4	4		2	2	5	3	3	3	4	2	3		3	2	1	1	62
Osaka	25	34	30		36		29	24	29	31	14	20	23	26	20	20	19	15	17	19	18	17	8	21	495
Hyogo	19	23	9		22		21	12	13	14	13	14	13	15	9	15	12	11	12	17	13	18	12	10	317
Nara	4	11	11				4	3	4	1	1	4	3	4	3	3	1	1	2	2	3	1	2	4	72
Wakayama	1	8	9		4		1	5	3	6	2	1	2	1	2	3	3	1	1	3			3	1	60
Tottori	3										1														4

Shimane	3	2	2		1							2	2	2	1	1		1							17
Okayama	4	7	15		10		12	13	11	12	10	8	7	2	5	8	9	10	9	5	7	9	9	4	186
Hiroshima	17	20	17		10		17	11	12	21	11	14	9	9	11	10	9	13	7	16	13	6	5	9	267
Yamaguchi	4	4	2		6		7	7	6	6	2	3	2	7	2		2	2	3	4	1	3	4	2	79
Tokushima	1		3				3	2	2			2		1							1				15
Kagawa	1	1			1		3	2	2	2	5	3	5		1	3		1			1		1	1	33
Ehime		2	1		1				1	1			1			3	2	3	2			3	2		22
Kochi	2	5	2		6		13	7	7	9	3	3	3	3	1	7	1		3	1	3	1	2		82
Fukuoka	13	23	18		6		17	8	13	10	7	5	4	4	5	3	3	9	5	1	7	6	6	3	176
Saga	2	7	3		2		2		3	3	2	1		1		1	1	2	1		1	3	1	2	38
Nagasaki	1	3	1		3		4	1	2	3	2		2	2	3	1									28
Kumamoto	3	4	4		2		3	5	6	5	5	3	2	2	2	3	6			1	1	1	1	3	62
Oita	1	2	1		2		1				1		1			1	1		1	1		1			14
Miyazaki	3	1	4		5		2	2	6	3	3			1	1		3				5	3	1	2	45
Kagoshima	3		1				3	3	1	2	1			1			1			2				3	21
Okinawa	1	2	2				3	1	3	3	3	1	4		2	4	2				1	3	2	1	38
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	158	5,929

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)

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Fatal accidents in other steel products in Japan in 1999-2022

other steel products industry Code No.011009

Type of fatal accidents in other steel products in 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
fall from height		1		1		1				1		2	2								1				9
falling to same level																									
crash																									
struck by flying or falling object			1		1	1	1	1		1		2					1	1	2						12
collapse	1	1	1				1		1	1						1									7
crashed by	2				1	1				1			1		1		2	1	1	1	1	1	2		16
caught in/between	1	2		1	3	1	1	3	1	1			1	2	1	2			2	1			1	1	25
cut					1								1												2
injury to the sole of the foot																									

drown																									
contact to high/low-temperature				1	2		1								1								1		6
contact to harmful substance															1										1
electric shock																				1					1
explosion													1			1									2
burst																									
fire					2																				2
traffic accident (public road)												1				1									2
traffic accident (others)																									
reaction to motion/improper motion																									
others						1							1			1							1		4
unclassifiable																									
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Causal agents (large) of fatal accidents in other steel products in 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
machine	1	1	1		4	2		2	1	1			1	2	1	1			2	1			1	1	23
crane, conveying machine	1	2	1		1		1		1	3		2	1		1	2	1	1		2	1	1	1		23
other equipment					1	1		1		1		1						1	2				1		9
temporary buildings, establishments				1		1						2	2												6
substance, material	1			1	2		1						2		1	2			1				1		12
load	1	1		1	1		2	1									2								9
environment					1								1		1						1				4
others						1										1							1		3
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Causal agents (middle) of fatal accidents in other steel products in 1999-2022

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	2022	total
engine																									
power transmission mechanism								1																	1

woodworking machine													1												1
construction machine									1	1					1				1						4
metal manufacturing machine			1		2			1						1						1			1	1	8
general machine	1	1			2	2								1		1			1						9
mobile silviculture machine																									
crane		1	1				1		1	1		1						1		1		1	1		10
conveying machine	1	1			1					2			1		1	2	1			1	1				12
vehicle												1													1
pressure vessel								1																	1
chemical facilities																									
welding equipment					1																		1		2
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools						1				1		1						1	2						6
other equipments,																									

facilities																									
temporary buildings, establishments				1		1						2	2												6
hazards, harmful substances					2								1		1	1									5
materials	1			1			1						1			1			1				1		7
load	1	1		1	1		2	1									2								9
natural environment					1								1		1						1				4
other causal agent						1																	1		2
no causal agent																1									1
unclassifiable																									
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Causal agents (small) of fatal accidents in other steel products in 1999-2022

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	2022	total
engine																									
power transmission mechanism								1																	1

circular sawing machine													1												1
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine															1										1
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine										1									1						2
vehicle for high lift work									1																1
other construction machines																									
lathe																									
drill press, milling machine																								1	1
grinding machine, buffing machine					1																				1
power press																									
forging pressure hammer																									
shearing machine								1															1		2
other metal manufacturing machines			1		1									1						1					4
centrifugal machine																									
mixer, grinder																			1						1
roll machine (except printingroll machine)	1				1	2								1		1									6

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines		1			1																				2
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane		1	1				1		1	1		1						1		1		1	1		10
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck		1			1					1			1			1									5
forklift	1															1	1			1	1				5
railway equipment																									
conveyor										1					1										2
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle												1													1
railway vehicle																									
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels								1																	1
chemical facilities																									
gas welding equipment																							1		1
arc welding equipment					1																				1
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder										1															1
slinging tool						1						1						1	2						5
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening												1	1												2
roof, beam, haze, crossbeam, principal rafter													1												1
working platform, boot board																									
passage												1													1
building, establishment				1		1																			2
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance					2																				2
inflammable gas																1									1
harmful substance															1										1
radiation																									
other hazards, harmful substances													1												1
metal material	1			1			1						1			1			1				1		7
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load	1	1		1	1		1										1								6
machine/equipment as load							1	1									1								3
natural ground, rock																									
standing tree																					1				1
water													1												1
abnormal																									

environment																									
high/cold temperature environment					1										1										2
other environments																									
other causal agent						1																	1		2
no causal agent																1									1
unclassifiable																									
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Workers age of fatal accidents in other steel 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
20-29	1	1			1			3		1		1	1					1	1	1	1	1		1	15
30-39				1		2	1					2	1	1	2	1	1	1		1	1		1		16
40-49		1	1		2	1	1	1					1	1		3	1		2				1		16
50-59	2	1	1	2	3	1	1		2	2		2	3		1	1	1						1		24
60 years old or more	1	1			4	1	1			2			1			1			1	1			2		16
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Workers' number of workplace of fatal accidents in other steel 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		1		5	1	1	3	1	1		1	2		2		1				1		1		23
10-29		2			3		2		1			1	2			3	2		2	1	1		1		21
30-49		1		1	1					2		1	1			1		1	1	1		1	1	1	14
50-99			1		1	2				1		1	1	1	1			1	1	1			1		13
100-299				1		2		1		1		1	1		1	2			1						11
300 workers or more	2	1		1			1							1									1		7
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Month of fatal accidents in other steel 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	2		1			1			1			1		1			1				9
February			1	1	1								2			1				1		1			8
March	1				1		1			1			2												6
April		1				1										2	1		1						6
May					1	2	1	1							1		1	1	1				2		11
June	1					1	1		1			1	1										1		7

July		1			2	1				2		1	1		2	1	1				1				13
August	1		1		1			1												1					5
September	1								1					1											3
October		1			1			1		1					1									1	6
November				1	1			1				1		1					1				2		8
December		1										2				1			2	1					7
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

Prefecture of fatal accidents in other steel 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																									
Aomori																									
Iwate													1										1		2
Miyagi																						1		1	2
Akita																									
Yamagata								1																	1
Fukushima							1		1							1									3
Ibaraki						1											1		1						3
Tochigi																				1					1
Gunma																							1		1

Saitama					2		1					1													4
Chiba		1				2		1					1			1		1							7
Tokyo					1	1	1																		3
Kanagawa	1			1											1				1	1					5
Niigata													1												1
Toyama		1																							1
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano								1																	1
Gifu		1																							1
Shizuoka												1													1
Aichi				1	2					2			1			3			1		1		1		12
Mie																									
Shiga					2	1							1												4
Kyoto															1										1
Osaka					1					1		1		1	1		1						1		7
Hyogo							1										1				1				3
Nara			1									1													2
Wakayama		1																							1
Tottori																									

Shimane																									
Okayama										1					1										2
Hiroshima	2			1						1			1			1			1	1					8
Yamaguchi	1				1									1					1						4
Tokushima																									
Kagawa																									
Ehime																		1							1
Kochi									1																1
Fukuoka			1		1			1				1											1		5
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa													1												1
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	1	89

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

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