Fatal and non-fatal accidents in nonferrous metals casting products in Japan in 1999-2022

nonferrous metals casting products industry Code No.011102

Type of accidents in nonferrous metals casting 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	8	7	9	10	6	11	7	8	8	11	9	7	6	6	7	5	5	7	10	11	5	4	3	7	177
falling to same level	10	8	13	10	12	13	7	12	15	11	8	8	6	17	9	7	7	7	10	12	15	8	15	9	249
crash	11	9	7	6	4	6	4	9	3	8	5	7	4	5	4	2	4	3	3	4	4	2	4	2	120
struck by flying or falling object	21	25	23	13	12	22	19	21	20	18	12	11	16	7	16	14	18	17	11	6	13	10	13	10	368
collapse	1	2	4	1	4	1	3	2	9	5	1	6	1	4	3		5	4	2		4	1	1	2	66
crashed by	5	8	9	7	5	6	3	6	8	5	6	4	6	6	5	4	1	6	3	4	5	4	6	3	125
caught in/between	60	61	66	72	49	59	54	44	58	60	36	36	43	33	41	31	32	32	40	43	30	18	29	31	1,058
cut	13	16	22	13	11	18	15	17	10	13	11	9	5	11	6	18	10	11	9	9	6	9	9	8	279
injury to the sole of the foot	1		1		1		1					1						1							6
drown																									
contact to high/low-	21	24	34	22	20	20	20	27	28	18	12	25	17	12	18	15	18	17	23	28	16	12	5	17	469

temperature																									
contact to harmful substance	1			2	1	2	3	2		1					1				1	2			1		17
electric shock																									
explosion	2	2	7			1	1		3	1		1	1	2		1	1	1	2			1		1	28
burst				1										1						1					3
fire								1	1								1						1	2	6
traffic accident (public road)	2	3	1			1	2					2		2	4			2		1	1				21
traffic accident (others)												1					1								2
reaction to motion/improper motion	11	12	13	6	7	6	10	18	7	8	3	4	6	6	6	5	3	10	7	7	9	16	15	14	209
others	1	1	1			1															1		2		7
unclassifiable						1											1								2
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Causal agents (large) of fatal and non-fatal accidents in nonferrous metals casting 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	59	64	74	73	53	58	56	54	64	68	33	37	31	38	36	37	42	36	43	38	32	30	35	31	1,122

crane, conveying machine	19	21	19	12	16	22	15	11	14	11	17	19	11	12	18	10	12	14	11	11	17	7	8	8	335
other equipment	29	33	35	27	23	24	29	36	32	30	26	19	24	24	28	20	19	24	29	28	21	18	18	27	623
temporary buildings, establishments	11	11	18	11	13	15	3	16	8	16	7	16	10	14	9	9	6	9	14	13	9	7	12	5	262
substance, material	38	26	38	28	23	32	32	34	35	26	11	23	29	15	21	21	21	25	21	25	15	11	17	19	586
load	5	14	13	6	2	6	7	8	11	5	5	5	2	3	6	3	4	2	2	4	8	3	7	4	135
environment	1	3	2	4		4	1	1	2		2	1	2	2	2		2	2	1	5	3	1	1	3	45
others	6	6	11	2	2	7	6	7	4	3	2	2	2	4		2	1	6		4	4	8	6	9	104
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Causal agents (middle) of fatal and non-fatal accidents in nonferrous metals casting 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	2	1	1	1		1		1	1	4		1	1	1	1	1		1							18
woodworking machine	1	3	4	2	3	5	2		2	2	1			1	1		1	2	1	2	1	4	1	1	40

construction machine		1																			1		1		3
metal manufacturing machine	41	41	43	45	25	30	35	37	41	35	23	25	25	23	20	30	24	20	24	17	22	18	23	16	683
general machine	15	18	26	25	25	22	19	16	20	27	9	11	5	13	14	6	17	13	18	19	8	8	10	14	378
mobile silviculture machine																									
crane	5	13	9	4	4	6	8	5	4	1	8	9	5	5	4	7	6	5	5	5	6	5	2	3	134
conveying machine	14	8	9	7	12	15	5	5	9	9	9	8	6	6	13	3	6	7	6	5	10	2	6	5	185
vehicle			1	1		1	2	1	1	1		2		1	1			2		1	1				16
pressure vessel																		1							1
chemical facilities																									
welding equipment		1			1											1		1							4
kiln, caldron	8	11	9	4	4	7	7	9	11	8	5	4	3	2	8	3	2	4	9	8	3	3	2	6	140
electric equipment		1	1								1										2	2			7
human power machine, tools	4	9	9	5	6	10	8	9	8	5	6	5	7	7	8	8	4	6	4	7	5	5	6	8	159
tools	11	6	10	9	9	4	10	13	10	13	8	6	10	11	10	3	11	11	11	8	7	5	7	6	209
other equipments,																									

facilities	6	5	6	9	3	3	4	5	3	4	6	4	4	4	2	5	2	1	5	5	4	3	3	7	103
temporary buildings, establishments	11	11	18	11	13	15	3	16	8	16	7	16	10	14	9	9	6	9	14	13	9	7	12	5	262
hazards, harmful substances	2	2	8	6	2	4	3	7	5	3		1	2	1	1	2	2	2	4	4	2	2	2	4	71
materials	36	24	30	22	21	28	29	27	30	23	11	22	27	14	20	19	19	23	17	21	13	9	15	15	515
load	5	14	13	6	2	6	7	8	11	5	5	5	2	3	6	3	4	2	2	4	8	3	7	4	135
natural environment	1	3	2	4		4	1	1	2		2	1	2	2	2		2	2	1	5	3	1	1	3	45
other causal agent	4		5			1		2	1	1			1					2			1		2	1	21
no causal agent	2	6	6	2	2	5	6	5	3	2	2	2	1	4		2		4		4	3	8	4	8	81
unclassifiable						1											1								2
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Causal agents (small) of fatal and non-fatal accidents in nonferrous metals casting 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	1	4		1	1	1	1	1		1							13

circular sawing machine			2															1			1	2			6
band sawing machine			2		1		2		1	2				1	1		1	1	1	1		1	1		16
wood planer machine									1													1			2
hollow chisel mortiser, wood borer																				1					1
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines					2						1													1	4
leveling, transporting or loading machine																									
excavating machine																					1				1
foundation work machine																									
hardening machine																							1		1

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe			2		3		3	1	1	3	3	1	1	1	1	1	1	1	1			1	2		27
drill press, milling machine			4		3		7	4	2	5	2		2		3	2	5	3	1	1	3	3	2		52
grinding machine, buffing machine			8		2		8	10	4	5	5	5	6	3	3	6	4	4	7	4	6	2	5	2	99
power press			4		4		6	4	8	8	4	3	5	4	4	3	2	1	5	3	2	2	4	3	79
forging pressure hammer			1		1			1	1	1			1				1								7
shearing machine							1						1												2
other metal manufacturing machines			24		12		10	17	25	13	9	16	9	15	9	18	11	11	10	9	11	10	10	11	260
centrifugal machine			1				1			1				1			1								5
mixer, grinder			3		1			3	2	2		1		2	2	3	2		2	1	1	2	1		28
roll machine (except printingroll machine)					1																		1		2

injection molding machine			3		3		2	3	4	5	2	1	1	2	2		1		2	5					36
food manufacturing machine																									
printing machine																									
industrial robot			1		1			2	2					1			1	2	2				1		13
other general power machines			18		19		16	8	12	19	7	9	4	7	10	3	12	11	12	13	7	6	7	14	214
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			7		3		7	4	3	1	7	9	5	5	3	6	5	3	5	5	4	5	1	3	91
mobile crane																									
derrick crane																									
elevator, lift			2															1			1				4
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					1		1	1	1		1				1	1	1	1			1		1		11
truck					1		1	1	1			1		2	3		1	1			1				13
forklift			2		6		1	3	4	5	5	1	4	3	3	2	4	4	3	3	5	1	3	4	66
railway equipment										1															1
conveyor			6		5		3	1	1	2	4	4	1	1	7		1	2	3	2	4	1	3	1	52
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1						3	1		2	1			1									9
cars, bus, motorcycle			1				2	1	1	1		2		1	1			1		1	1				13
railway vehicle																									
other vehicles																		1							1
boiler																									

pressure vessel																		1							1
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment					1													1							2
other welding equipment																1									1
kiln, caldron			9		3		6	9	10	8	5	4	3	2	8	3	2	1	8	8	3	2	2	6	102
industrial dryer																									
other kiln, caldron					1		1		1									3	1			1			8
transmission											1										2	1			4
electric power facilities																									
other electrical equipment			1																			1			2
human power cranes							1						1						1	1		1	1		6
human power hauling equipment			2		4		3	1	4	2	1	3	1	3	3	2	3	3		3	2	1	2	3	46

human power machine			1					1				2									1			1	6
hand tool			6		2		4	7	4	3	5		5	4	5	6	1	3	3	3	2	3	3	4	73
ladder			2				3	4	3	1	4	2	3	2	2		3	4	5	4	2	1	2	4	51
slinging tool			4		2		6	4	2	3		2	2		2	2		2	1			1	1	1	35
other tools			4		7		1	5	5	9	4	2	5	9	6	1	8	5	5	4	5	3	4	1	93
other equipment, facilities			6		3		4	5	3	4	6	4	4	4	2	5	2	1	5	5	4	3	3	7	80
scaffolding																	1								1
timbering																							1		1
stairs, landing stage			2		1				1	5		1		4	1	1		2	4	6	1	1		1	31
opening			1					1					1						1			1			5
roof, beam, haze, crossbeam, principal rafter			1					1								1									3
working platform, boot board			3		5		1	5	2	2	1	2	3	2	1		1		2	2	2		3	1	38
passage			7		3		1	5	4	3	5	8	3	6	5	5	3	6	4	4	4	5	6	2	89
building, establishment			4		2		1	2	1	4		3	2	1	1	2	1		2	1			1		28
other temporary buildings,					2			2		2	1	2	1	1	1			1	1		2		1	1	18

establishments																									
explosive substance			5																	1					6
inflammable substance								2		1		1				1			1	1				1	8
inflammable gas								1									1			1	1		1		5
harmful substance							3	1	2	1					1	1	1						1		11
radiation																									
other hazards, harmful substances			3		2			3	3	1			2	1				2	3	1	1	2		3	27
metal material			29		16		27	26	28	19	11	22	26	14	18	16	15	21	13	20	12	8	13	12	366
lumber, bamboo										2														1	3
stone, sand, substance			1		2								1		1	1	2	2	1	1			1	1	14
other materials					3		2	1	2	2					1	2	2		3		1	1	1	1	22
load			9		2		6	8	10	5	5	3	2	1	6	3	3	2	1	3	7	2	7	4	89
machine/equipment as load			4				1		1			2		2			1		1	1	1	1			15
natural ground, rock																							1		1
standing tree																						1			1
water													1												1
abnormal																									

environment																									
high/cold temperature environment			2						2		2	1			2		2	1	1	5	3			1	22
other environments							1	1					1	2				1						2	8
other causal agent			5					2	1	1			1					2			1		2	1	16
no causal agent			6		2		6	5	3	2	2	2	1	4		2		4		4	3	8	4	8	66
unclassifiable																	1								1
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Workers age of fatal and non-fatal accidents in nonferrous metals casting 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	6	4	6	13	7	10	5	8	3	9	3	5	6	1	3	1	4	2	2	3	2	2	1		106
20-29	35	41	38	25	33	35	34	29	39	38	30	20	24	23	20	23	29	24	30	32	22	15	17	17	673
30-39	19	30	50	35	20	34	32	30	34	30	21	29	25	24	24	19	24	28	26	17	23	12	24	18	628
40-49	34	30	35	23	25	26	25	33	44	26	13	33	30	16	34	20	19	27	28	27	24	17	24	22	635
50-59	50	50	59	46	35	39	29	46	29	30	24	17	16	25	22	20	16	21	21	37	22	22	23	37	736
60 years old or more	24	23	22	21	12	24	24	21	21	26	12	18	10	23	17	19	15	16	14	12	16	17	15	12	434
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Workers' number of workplace of fatal and non-fatal accidents in nonferrous metals casting 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	33	36	50	25	28	35	36	24	25	25	11	20	21	25	18	17	19	17	10	16	12	18	9	7	537
10-29	46	52	59	58	41	53	50	53	51	46	29	31	30	34	42	36	37	30	40	39	32	22	31	35	977
30-49	38	34	35	36	19	35	18	30	27	21	23	28	27	20	13	16	22	15	21	19	16	14	21	17	565
50-99	22	27	34	16	27	23	30	33	33	31	17	23	14	14	23	23	15	25	24	26	12	12	19	19	542
100-299	24	23	23	18	12	17	9	24	23	27	18	14	18	14	21	8	12	27	22	23	34	17	21	26	475
300 workers or more	5	6	9	10	5	5	6	3	11	9	5	6	1	5	3	2	2	4	4	5	3	2	3	2	116
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Month of fatal and non-fatal accidents in nonferrous metals casting 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	10	12	12	14	8	22	15	19	9	15	5	6	8	12	7	9	14	12	8	9	12	7	7	8	260
February	14	13	15	6	11	15	13	8	20	14	9	10	12	15	10	10	8	15	13	11	15	7	7	10	281
March	24	23	15	18	9	17	13	15	21	15	12	8	14	10	10	9	4	9	15	17	9	13	10	15	325
April	13	17	16	27	16	7	14	17	12	12	12	8	7	7	15	8	10	3	10	8	7	9	7	8	270
May	17	19	16	10	12	15	9	10	11	10	9	13	9	9	11	5	18	5	6	10	7	6	10	8	255
June	13	13	27	13	17	15	13	14	19	12	11	14	10	11	7	10	6	9	10	10	8	4	14	6	286

July	14	8	20	21	12	12	5	19	20	13	7	9	9	8	12	10	12	17	13	15	5	5	10	7	283
August	12	14	20	4	10	15	17	13	15	16	9	8	8	5	8	11	8	15	13	11	13	5	12	9	271
September	13	13	22	16	14	15	10	14	12	14	6	7	2	5	14	6	7	8	8	9	7	9	7	11	249
October	8	12	18	10	10	14	14	16	12	18	7	13	12	7	12	10	4	10	10	10	10	6	5	6	254
November	16	18	18	13	6	11	19	15	9	9	11	9	12	13	7	7	8	7	7	8	11	9	5	9	257
December	14	16	11	11	7	10	7	7	10	11	5	17	8	10	7	7	8	8	8	10	5	5	10	9	221
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

Prefecture of fatal and non-fatal accidents in nonferrous metals casting 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	1				2		1		1								6	2		1	2	3	20
Aomori								1																	1
Iwate		2			1		1		4	2		1	2		2	1		2	3	2	1	2	3		29
Miyagi	1	2	5		5		4	5	2	1	2	1	1		1		2	3			2	1	1		39
Akita	2							3	1	1			2	2				2	1		2				16
Yamagata	6	1	5		3		5	3	4	4	1	3		1	3	3	1	3	1	4	3	3	1	1	59
Fukushima	3	4	1		7		2	5	6	1		1	1	1	2	3	3	1	1	1	1		3	2	49
Ibaraki	4	9	14		6		5	6	6	4	1		5	1	1	2	2	3	4	2	3	1	1	2	82
Tochigi	2		3		2		1	6	3	2	1		1	2		3	2	3	1	3	2	1	4		42
Gunma	2	2	4				1						1	2	1	2	1	3		1	1		1	2	24

Saitama	18	17	21		13		11	14	10	14	8	11	8	12	12	11	12	6	10	10	8	10	6	10	252
Chiba	1		2				1	1	3	3	2	2	2	1	2	1	3	1	2		1	1	4	1	34
Tokyo	8	6	5		2		3	6	4	6	3	1	3	4	1	5	1	4		5	3	4		4	78
Kanagawa	4	6	9		2		7	1	3	4	1	2	3	1	1	1	8	2	2	4	4		1	2	68
Niigata	4	6	1		1		5	4	4	7	1	4	2	6	3		7	1	2	1	6	1	1	4	71
Toyama	10	7	4		4		8	3	9	5	3	7	5	6	3	5	3	5	5	1	1	3	6	2	105
Ishikawa		2	2				1			1		2	2	1			2					1	2		16
Fukui		2	1		1			1	1			2		2		1				2		2			15
Yamanashi	1	4	1		4		4	3	1	1		2	3	2	2	1		3	1		1	1	1	3	39
Nagano	8	13	7		15		11	9	11	9	5	7	7	6	6	6	7	5	7	8	3	5	7	5	167
Gifu	8	11	6		4		5	9	9	12	4	7	3	5	6	4	6	7	7	9	5	10	8	4	149
Shizuoka	9	5	11		4		9	9	21	10	10	9	5	7	8	11	4	8	6	12	7	6	7	4	182
Aichi	18	18	28		15		14	13	19	13	13	12	10	15	14	5	12	17	9	7	10	10	10	16	298
Mie	8	6	5		6				2	7	2	5	2	3	4	1	2	1	3	1	1	4	3	2	68
Shiga	2	1	3		3		1	3		5	1	1	1	2	1		2	1	4	1	2	1			35
Kyoto	1	3	6		1		2		2	1	2	2	2	2	1	2			1	2	2		3		35
Osaka	19	20	19		6		17	24	18	14	12	12	13	10	15	5	6	13	12	15	11	5	11	13	290
Hyogo	6	9	12		5		8	5	9	8	8	3	6	6	5	9	7	10	4	9	5	2		4	140
Nara							1	1			1			1	1	4		2	3	2	1		1		18
Wakayama																									
Tottori																									

Shimane							2	1				1					2								6
Okayama	4	5	14		5		5	10	5	11	9	7	4	4	7	5	3	4	9	14	3	5	7	9	149
Hiroshima	3	4	3		4		7	10	3	2	3	6	3	4	8	2	1	3	4	1	6	3	3	5	88
Yamaguchi	3	1						2			1	2	2		2	1	1		1	1	2				19
Tokushima	1	1						1	1	1			1			1				1		1	1		10
Kagawa			1							1					1										3
Ehime		1	1				1					1	2			1									7
Kochi																			1						1
Fukuoka	6	7	9		9		2	5	4	5	8	6	6	3	5	3	4	3	9	1	5	1	6	6	113
Saga							2																		2
Nagasaki	2		4		2			1	1	1		1				1	1	1		1	3			1	20
Kumamoto	3	2	2		1											1				1	1				11
Oita	1				1				1	1					1		1	1	1	1					9
Miyazaki							1	2	2	2		1				1				2					11
Kagoshima													3		1		1		1	1	3			1	11
Okinawa																									
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	106	3,212

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 nonferrous metals casting products in Japan in 1999-2022

nonferrous metals casting products industry Code No.011102

Type of fatal accidents in nonferrous metals casting 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					2
falling to same level	1													1											2
crash																									
struck by flying or falling object			1																						1
collapse																									
crashed by						1								1								1			3
caught in/between	1		1	1	1		1	4		2			1	1	3	1	2								19
cut																									
injury to the sole of the foot																									

drown																									
contact to high/low-temperature																									
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire						1		1																	2
traffic accident (public road)		1													1										2
traffic accident (others)																									
reaction to motion/improper motion																									
others																									
unclassifiable																									
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Causal agents (large) of fatal accidents in nonferrous metals casting 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		1	4		2			1	2	3	1	2					1			20
crane, conveying machine	1	1												1	1										4
other equipment						1														1					2
temporary buildings, establishments	1									1															2
substance, material			1			1		1																	3
load																									
environment																									
others																									
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Causal agents (middle) of fatal accidents in nonferrous metals casting 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																									
construction machine																									
metal manufacturing machine								2						1	1							1			5
general machine			1	1	1		1	2		2			1	1	1	1	2								14
mobile silviculture machine																									
crane																									
conveying machine	1	1												1	1										4
vehicle																									
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools						1																			1
tools																				1					1
other equipments,																									

facilities																									
temporary buildings, establishments	1									1															2
hazards, harmful substances						1		1																	2
materials			1																						1
load																									
natural environment																									
other causal agent																									
no causal agent																									
unclassifiable																									
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Causal agents (small) of fatal accidents in nonferrous metals casting 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																									
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																									
excavating machine																									
foundation work machine																									
hardening machine																									

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

injection molding machine			1				1			1			1		1										5
food manufacturing machine																									
printing machine																									
industrial robot								1						1		1									3
other general power machines				1	1			1		1							2								6
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

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

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

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

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

environment																									
high/cold temperature environment																									
other environments																									
other causal agent																									
no causal agent																									
unclassifiable																									
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Workers age of fatal accidents in nonferrous metals casting 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
20-29													1				1					1			3
30-39		1					1	1						1	1										5
40-49	1		1					1		1					1										5
50-59			1		1	1		2						2	2	1				1					11
60 years old or more	1					1		1		2							1								6
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Workers' number of workplace of fatal accidents in nonferrous metals casting 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								1																	1
10-29	1	1			1	1		1						2	1							1			9
30-49	1					1		1						1		1	1								6
50-99			2	1				2		1					2		1			1					10
100-299										1			1		1										3
300 workers or more							1			1															2
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Month of fatal accidents in nonferrous metals casting 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
February								1		1						1	1								4
March								2						1	1										4
April		1						1		1			1		1										5
May	1													1											2
June										1															1

July				1											1										2
August						1								1											2
September			1		1			1																	3
October			1			1											1								3
November							1															1			2
December	1																			1					2
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

Prefecture of fatal accidents in nonferrous metals casting 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
Miyagi																									
Akita																									
Yamagata																									
Fukushima			1																						1
Ibaraki	1																								1
Tochigi																									
Gunma																1									1

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

Shimane																									
Okayama			1												1										2
Hiroshima																									
Yamaguchi										1															1
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka								1																	1
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																	1								1
Okinawa																									
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31

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

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