

Fatal and non-fatal accidents in nonferrous metals casting products in Japan in 1999-2021

nonferrous metals casting products industry Code No.011102

Type of accidents in nonferrous metals casting 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	8	7	9	10	6	11	7	8	8	11	9	7	6	6	7	5	5	7	10	11	5	4	3	170	fall from height	
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	240	falling to same level	
crash	11	9	7	6	4	6	4	9	3	8	5	7	4	5	4	2	4	3	3	4	4	2	4	118	crash	
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	358	struck by flying or falling object	
collapse	1	2	4	1	4	1	3	2	9	5	1	6	1	4	3		5	4	2		4	1	1	64	collapse	
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	122	crashed by	
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	1,027	caught in/between	
cut	13	16	22	13	11	18	15	17	10	13	11	9	5	11	6	18	10	11	9	9	6	9	9	271	cut	
injury to the sole of the foot	1		1		1		1					1						1						6	injury to the sole of the foot	
drown																										drown
contact to high/low-temperature	21	24	34	22	20	20	20	27	28	18	12	25	17	12	18	15	18	17	23	28	16	12	5	452	contact to high/low-temperature	













machine			3		3		2	3	4	5	2	1	1	2	2		1		2	5				36	machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot			1		1			2	2					1			1	2	2				1	13	industrial robot
other general power machines			18		19		16	8	12	19	7	9	4	7	10	3	12	11	12	13	7	6	7	200	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture 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	88	crane
mobile crane																									mobile crane
derrick crane																									derrick crane
elevator, lift			2														1			1				4	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway







facilities			6		3		4	5	3	4	6	4	4	4	2	5	2	1	5	5	4	3	3	73	facilities	
scaffolding																1								1	scaffolding	
timbering																							1	1	timbering	
stairs, landing stage			2		1				1	5		1		4	1	1		2	4	6	1	1		30	stairs, landing stage	
opening			1					1					1						1			1		5	opening	
roof, beam, haze, crossbeam, principal rafter			1																					3	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			3		5		1	5	2	2	1	2	3	2	1		1		2	2	2		3	37	working platform, boot board	
passage			7		3		1	5	4	3	5	8	3	6	5	5	3	6	4	4	4	5	6	87	passage	
building, establishment			4		2		1	2	1	4		3	2	1	1	2	1		2	1			1	28	building, establishment	
other temporary buildings, establishments					2			2		2	1	2	1	1	1			1	1		2		1	17	other temporary buildings, establishments	
explosive substance			5																	1				6	explosive substance	
inflammable substance								2		1		1				1			1	1				7	inflammable substance	
inflammable gas								1								1			1	1			1	5	inflammable gas	
harmful substance							3	1	2	1					1	1	1						1	11	harmful substance	
radiation																										radiation
other hazards, harmful substances			3		2			3	3	1				2	1			2	3	1	1	2		24	other hazards, harmful substances	

metal material			29		16		27	26	28	19	11	22	26	14	18	16	15	21	13	20	12	8	13	354	metal material
lumber, bamboo										2														2	lumber, bamboo
stone, sand, substance			1		2								1		1	1	2	2	1	1			1	13	stone, sand, substance
other materials					3		2	1	2	2					1	2	2		3		1	1	1	21	other materials
load			9		2		6	8	10	5	5	3	2	1	6	3	3	2	1	3	7	2	7	85	load
machine/equipment as load			4				1		1				2		2			1		1	1	1	1	15	machine/equipment as load
natural ground, rock																							1	1	natural ground, rock
standing tree																						1		1	standing tree
water													1											1	water
abnormal environment																									abnormal environment
high/cold temperature environment			2						2		2	1			2		2	1	1	5	3			21	high/cold temperature environment
other environments							1	1					1	2				1						6	other environments
other causal agent			5					2	1	1			1					2			1		2	15	other causal agent
no causal agent			6		2		6	5	3	2	2	2	1	4		2		4		4	3	8	4	58	no causal agent
unclassifiable																	1							1	unclassifiable
total			210		132		149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	2,429	total

Workers age of fatal and non-fatal accidents in nonferrous metals casting 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	6	4	6	13	7	10	5	8	3	9	3	5	6	1	3	1	4	2	2	3	2	2	1	106	19 years old or less
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	656	20-29
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	610	30-39
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	613	40-49
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	699	50-59
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	422	60 years old or more
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	3,106	total

Workers' number of workplace of fatal and non-fatal accidents in nonferrous metals casting 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	33	36	50	25	28	35	36	24	25	25	11	20	21	25	18	17	19	17	10	16	12	18	9	530	9 workers or less
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	942	10-29
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	548	30-49
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	523	50-99
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	449	100-299
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	114	300 workers or more
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	3,106	total

Month of fatal and non-fatal accidents in nonferrous metals casting 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	10	12	12	14	8	22	15	19	9	15	5	6	8	12	7	9	14	12	8	9	12	7	7	252	January
February	14	13	15	6	11	15	13	8	20	14	9	10	12	15	10	10	8	15	13	11	15	7	7	271	February
March	24	23	15	18	9	17	13	15	21	15	12	8	14	10	10	9	4	9	15	17	9	13	10	310	March
April	13	17	16	27	16	7	14	17	12	12	12	8	7	7	15	8	10	3	10	8	7	9	7	262	April
May	17	19	16	10	12	15	9	10	11	10	9	13	9	9	11	5	18	5	6	10	7	6	10	247	May
June	13	13	27	13	17	15	13	14	19	12	11	14	10	11	7	10	6	9	10	10	8	4	14	280	June
July	14	8	20	21	12	12	5	19	20	13	7	9	9	8	12	10	12	17	13	15	5	5	10	276	July
August	12	14	20	4	10	15	17	13	15	16	9	8	8	5	8	11	8	15	13	11	13	5	12	262	August
September	13	13	22	16	14	15	10	14	12	14	6	7	2	5	14	6	7	8	8	9	7	9	7	238	September
October	8	12	18	10	10	14	14	16	12	18	7	13	12	7	12	10	4	10	10	10	10	6	5	248	October
November	16	18	18	13	6	11	19	15	9	9	11	9	12	13	7	7	8	7	7	8	11	9	5	248	November
December	14	16	11	11	7	10	7	7	10	11	5	17	8	10	7	7	8	8	8	10	5	5	10	212	December
total	168	178	210	163	132	168	149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	3,106	total

Prefecture of fatal and non-fatal accidents in nonferrous metals casting 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				2		1		1								6	2		1	2	17	Hokkaido	
Aomori								1																	1	Aomori
Iwate		2			1		1		4	2		1	2		2	1		2	3	2	1	2	3	29	Iwate	

Miyagi	1	2	5		5		4	5	2	1	2	1	1		1		2	3			2	1	1	39	Miyagi
Akita	2							3	1	1			2	2				2	1		2			16	Akita
Yamagata	6	1	5		3		5	3	4	4	1	3		1	3	3	1	3	1	4	3	3	1	58	Yamagata
Fukushima	3	4	1		7		2	5	6	1		1	1	1	2	3	3	1	1	1	1		3	47	Fukushima
Ibaraki	4	9	14		6		5	6	6	4	1		5	1	1	2	2	3	4	2	3	1	1	80	Ibaraki
Tochigi	2		3		2		1	6	3	2	1		1	2		3	2	3	1	3	2	1	4	42	Tochigi
Gunma	2	2	4				1						1	2	1	2	1	3		1	1		1	22	Gunma
Saitama	18	17	21		13		11	14	10	14	8	11	8	12	12	11	12	6	10	10	8	10	6	242	Saitama
Chiba	1		2				1	1	3	3	2	2	2	1	2	1	3	1	2		1	1	4	33	Chiba
Tokyo	8	6	5		2		3	6	4	6	3	1	3	4	1	5	1	4		5	3	4		74	Tokyo
Kanagawa	4	6	9		2		7	1	3	4	1	2	3	1	1	1	8	2	2	4	4		1	66	Kanagawa
Niigata	4	6	1		1		5	4	4	7	1	4	2	6	3		7	1	2	1	6	1	1	67	Niigata
Toyama	10	7	4		4		8	3	9	5	3	7	5	6	3	5	3	5	5	1	1	3	6	103	Toyama
Ishikawa		2	2				1			1		2	2	1			2					1	2	16	Ishikawa
Fukui		2	1		1			1	1			2		2		1				2		2		15	Fukui
Yamanashi	1	4	1		4		4	3	1	1		2	3	2	2	1		3	1		1	1	1	36	Yamanashi
Nagano	8	13	7		15		11	9	11	9	5	7	7	6	6	6	7	5	7	8	3	5	7	162	Nagano
Gifu	8	11	6		4		5	9	9	12	4	7	3	5	6	4	6	7	7	9	5	10	8	145	Gifu
Shizuoka	9	5	11		4		9	9	21	10	10	9	5	7	8	11	4	8	6	12	7	6	7	178	Shizuoka
Aichi	18	18	28		15		14	13	19	13	13	12	10	15	14	5	12	17	9	7	10	10	10	282	Aichi
Mie	8	6	5		6				2	7	2	5	2	3	4	1	2	1	3	1	1	4	3	66	Mie
Shiga	2	1	3		3		1	3		5	1	1	1	2	1		2	1	4	1	2	1		35	Shiga
Kyoto	1	3	6		1		2		2	1	2	2	2	2	1	2			1	2	2		3	35	Kyoto

Osaka	19	20	19		6		17	24	18	14	12	12	13	10	15	5	6	13	12	15	11	5	11	277	Osaka
Hyogo	6	9	12		5		8	5	9	8	8	3	6	6	5	9	7	10	4	9	5	2		136	Hyogo
Nara							1	1			1		1	1	4		2	3	2	1		1	18	Nara	
Wakayama																									Wakayama
Tottori																									Tottori
Shimane							2	1				1					2							6	Shimane
Okayama	4	5	14		5		5	10	5	11	9	7	4	4	7	5	3	4	9	14	3	5	7	140	Okayama
Hiroshima	3	4	3		4		7	10	3	2	3	6	3	4	8	2	1	3	4	1	6	3	3	83	Hiroshima
Yamaguchi	3	1						2			1	2	2		2	1	1		1	1	2			19	Yamaguchi
Tokushima	1	1						1	1	1			1			1				1		1	1	10	Tokushima
Kagawa			1							1					1									3	Kagawa
Ehime		1	1				1					1	2			1								7	Ehime
Kochi																			1					1	Kochi
Fukuoka	6	7	9		9		2	5	4	5	8	6	6	3	5	3	4	3	9	1	5	1	6	107	Fukuoka
Saga							2																	2	Saga
Nagasaki	2		4		2			1	1	1		1				1	1	1		1	3			19	Nagasaki
Kumamoto	3	2	2		1											1				1	1			11	Kumamoto
Oita	1				1				1	1					1		1	1	1	1				9	Oita
Miyazaki							1	2	2	2		1				1				2				11	Miyazaki
Kagoshima													3		1		1		1	1	3			10	Kagoshima
Okinawa																									Okinawa
total	168	178	210		132		149	167	170	159	103	122	111	112	120	102	107	118	121	128	109	85	104	2,775	total





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



















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



no causal agent																												no causal agent	
unclassifiable																													unclassifiable
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1				31	total		

Workers age of fatal accidents in nonferrous metals casting 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	19 years old or less
20-29													1				1						1		3	20-29
30-39		1					1	1						1	1										5	30-39
40-49	1		1					1		1					1										5	40-49
50-59			1		1	1		2						2	2	1					1				11	50-59
60 years old or more	1						1		1								1								6	60 years old or more
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31	total

Workers' number of workplace of fatal accidents in nonferrous metals casting 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								1																	1	9 workers or less
10-29	1	1			1	1		1						2	1								1		9	10-29
30-49	1					1		1						1		1	1								6	30-49
50-99			2	1				2		1					2		1				1				10	50-99

100-299										1			1		1										3	100-299	
300 workers or more								1		1																2	300 workers or more
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2				1		1		31	total	

Month of fatal accidents in nonferrous metals casting 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															1										1	January
February								1		1						1	1								4	February
March								2						1	1										4	March
April		1						1		1			1		1										5	April
May	1													1											2	May
June										1															1	June
July				1											1										2	July
August						1								1											2	August
September			1		1			1																	3	September
October			1			1											1								3	October
November							1																1		2	November
December	1																				1				2	December
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2				1		1		31	total

Prefecture of fatal accidents in nonferrous metals casting products in 1999-2021







Miyazaki																										Miyazaki	
Kagoshima																1										1	Kagoshima
Okinawa																											Okinawa
total	2	1	2	1	1	2	1	5		3			1	3	4	1	2			1		1			31	total	

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

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