Fatal and non-fatal accidents in other nonferrous metal products in Japan in 1999-2021

other nonferrous metal products industry Code No.011109

Type of accidents in other nonferrous metal 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	11	14	14	15	10	15	20	17	17	19	13	12	12	17	13	14	10	13	16	13	10	12	9	316	fall from height
falling to same level	19	16	20	21	12	16	16	16	18	26	19	14	11	19	11	11	16	10	10	17	16	14	15	363	falling to same
crash	5	5	13	6	6	8	7	8	10	7	4	3	4	5	3	3	2	6	3	11	3	7	3	132	crash
struck by flying or falling object	21	29	18	14	16	28	18	16	27	17	13	9	9	22	10	14	5	13	8	10	4	7	11	339	struck by flying or falling object
collapse	3	8	6	4	5	1	6	3	5	5	4	2	1	5	2	3	3	2		3	4	2	2	79	collapse
crashed by	12	8	9	14	4	4	7	5	7	6	6	9	11	8	7	7	4	11	2	9	4	10	2	166	crashed by
caught in/between	73	63	74	73	75	71	65	60	56	69	46	52	48	53	50	36	46	51	38	49	41	34	41	1,264	caught in/between
cut	23	21	12	19	21	17	23	13	9	11	12	8	13	12	11	7	11	10	10	8	4	8	8	291	cut
injury to the sole of the foot	1	1	2		1	1		1	2					1			2						1	13	injury to the sole of the foot
drown			1									1												2	drown
contact to high/low- temperature	13	15	9	5	14	22	9	14	17	13	5	12	7	14	11	11	9	5	5	12	7	6	10	245	contact to high/low- temperature

contact to harmful																									contact to
substance	5	1	3	6	4	2	2	4	1	4	4	3	6	3		2		3	1	2		1	1	58	harmful
substance																									substance
electric shock		2	1	1		1				1	1	1												8	electric shock
explosion	3	3	2	2	4		2	1	1	3	1		2										3	27	explosion
burst				1	1			1	2									3		1				9	burst
fire								1		1				1		2					2		1	8	fire
traffic accident (public	1	2	2	1	4	2	6	1	1	2						3	1	2			1			29	traffic accident
road)			2	1	4		6	1	1	2						3		2			I			29	(public road)
traffic accident																	1							1	traffic accident
(others)																									(others)
reaction to																									reaction to
motion/improper	11	13	17	16	10	11	18	14	23	23	15	8	10	7	18	6	9	7	16	14	17	14	10	307	motion/improper
motion																									motion
others	1	2			2		1			1		2		3			2	1	1		1	1	4	22	others
unclassifiable					1		1			1						2		1				1		7	unclassifiable
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

Causal agents (large) of fatal and non-fatal accidents in other nonferrous metal products in 1999-2021

Causal (L) agents	1000	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)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	I I	agents
machine	83	58	64	65	74	72	60	57	61	59	45	48	45	48	43	40	42	45	35	48	33	31	38	1,194	machine
crane, conveying																									crane,

machine	24	28	24	37	20	23	34	20	23	21	12	16	17	26	21	14	15	21	19	23	19	15	11	483	conveying
Пастите																									machine
other equipment	27	35	36	30	32	34	30	24	48	38	22	21	22	39	22	26	15	29	14	26	23	22	20	635	other
other equipment	27	33	30	30	32	34	30	24	40	36	22	21	22	39	22	20	13	29	14	20	23		20	033	equipment
tomporary buildings																									temporary
temporary buildings, establishments	16	19	17	21	18	15	18	18	13	28	22	10	18	16	13	12	15	10	16	20	9	10	15	369	buildings,
establishments																									establishments
substance, material	35	40	36	29	31	33	36	38	28	33	23	22	24	24	25	19	16	20	12	14	8	15	15	576	substance,
substance, material		40		29	J 1		30	36	20	33	23	22	24	24	25					14				370	material
load	11	13	15	11	10	14	12	6	13	17	13	6	6	5	2	2	9	7	3	5	9	12	10	211	load
environment	4	2	2	1	3	4	1	3	2	4	1	6	1	6	2	3	4	1	3	3	4	1	4	65	environment
others	2	8	9	4	2	4	10	9	8	9	5	7	1	6	8	5	5	5	8	10	9	11	8	153	others
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

Causal agents (middle) of fatal and non-fatal accidents in other nonferrous metal 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																									engine
power transmission mechanism	3	4	5	2	2	2	3	1	1	1	2	1	1	2	1	1	1	2	1	3	3	1	1	44	power transmission mechanism
woodworking machine	3	1	1	4	4	2	2	2	1	1		1	3	3		3	2		1			1		35	woodworking machine

construction machine	2		1		1				1					1			2	1		1		2	1	13	construction machine
metal manufacturing	51	29	30	36	35	41	33	30	37	31	30	24	26	26	19	20	22	26	22	28	14	11	21	642	metal manufacturing machine
general machine	24	24	27	23	32	27	22	24	21	26	13	22	15	16	23	16	15	16	11	16	16	16	15	460	general machine
mobile silviculture machine																									mobile silviculture machine
crane	6	4	2	8	5	4	9	7	5	4	2	5	7	10	4	2	1	6	4	6	3	1	1	106	crane
conveying machine	17	23	20	28	11	17	18	12	17	16	9	11	9	15	17	9	12	14	15	14	14	14	10	342	conveying machine
vehicle	1	1	2	1	4	2	7	1	1	1	1		1	1		3	2	1		3	2			35	vehicle
pressure vessel	1		1				1		2					1		1								7	pressure vessel
chemical facilities		1		2			3	2		1								4	1	2			1	17	chemical facilities
welding equipment	1		1			1			1		2		1	3	1			3			1			15	welding equipment
kiln, caldron	3	3	4	4	6	2	2	5	10	7	2	6	3	5	2	3	3	4	2	2	6	3	8	95	kiln, caldron
electric equipment	1	2	2	1	1	3			1	1	1	2					1			1				17	electric equipment
human power machine, tools	8	7	8	5	11	11	5	5	6	10	5	3	3	8	7	7		4	2	3	4	3	4	129	human power machine, tools
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tools	8	16	17	12	11	12	12	10	23	13	7	7	11	17	6	9	10	10	6	14	8	12	5	256	tools
other equipments,	5	6	3	6	3	5	7	2	5	6	5	3	4	5	6	6	1	4	3	4	4	4	2	99	other equipments, facilities
temporary buildings, establishments	16	19	17	21	18	15	18	18	13	28	22	10	18	16	13	12	15	10	16	20	9	10	15	369	temporary buildings, establishments
hazards, harmful substances	7	4	5	5	6	5	4	6		6	6	2	8	5	2	6	2	3		3	1	1	3	90	hazards, harmful substances
materials	28	36	31	24	25	28	32	32	28	27	17	20	16	19	23	13	14	17	12	11	7	14	12	486	materials
load	11	13	15	11	10	14	12	6	13	17	13	6	6	5	2	2	9	7	3	5	9	12	10	211	load
natural environment	4	2	2	1	3	4	1	3	2	4	1	6	1	6	2	3	4	1	3	3	4	1	4	65	natural environment
other causal agent		2		2	1	2	4			2		2		2		2	2	1	2	3	1	2	4	34	other causal
no causal agent	2	6	9	1		2	5	8	8	7	5	5	1	4	8	2	3	3	6	7	8	9	4	113	no causal agent
unclassifiable				1	1		1	1								1		1						6	unclassifiable
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

Causal agents (small) of fatal and non-fatal accidents in other nonferrous metal 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																						engine
power transmission mechanism		5	2	3	1	1	1	2	1	1	2	1	1	1	2	1	3	3	1	1	33	power transmission mechanism
circular sawing machine		1	2	2	2		1		1	2	1		1	1							14	circular sawing machine
band sawing machine										1			1	1							3	band sawing machine
wood planer machine			1																		1	wood planer machine
hollow chisel mortiser, wood borer			1																		1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine											1										1	chamfering machine, router, woodworking milling machine
chain saw																			1		1	chain saw
other woodworking machines						1					1		1			1					4	other woodworking machines
leveling, transporting or loading machine		1	1											1					1		4	leveling, transporting or loading machine
excavating machine											1			1							2	excavating machine
foundation work																						foundation work

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hardening machine																						hardening machine
demolition machine						1									1		1			1	4	demolition machine
vehicle for high lift work																						vehicle for high lift work
other construction machines																			1		1	other construction machines
lathe	5	5	1		1		2	2	1	3		1	1		2	1	4	1	4	2	31	lathe
drill press, milling	3	3	7	1	2	4	3	2	3	1		3	2	2	2	1	3	3		1	43	drill press, milling machine
grinding machine, buffing machine			3	5	5	2	5	3	2	2	4	3	2	3	3	5	3	1	1	5	57	grinding machine, buffing machine
power press	6	5	9	2	8	10	7	5	3	6	4	2	4	4	2	6	2	3		1	84	power press
forging pressure hammer					1				1												2	forging pressure hammer
shearing machine	1	l	1	2		2	2	3	3	2	2				3		2	1	1	2	27	shearing machine
other metal manufacturing machines	1	15	14	23	13	19	12	15	11	12	16	10	11	13	14	9	14	5	5	10	241	other metal manufacturing machines
centrifugal machine																1					1	centrifugal machine
mixer, grinder	2	2	2			2	2		1	1		1		1	1	3		1	2		19	mixer, grinder
roll machine (except printingroll machine)	4	1	4	7	7		6	3	7	2	6	6	1	5	3	2	2		1		66	roll machine (except printingroll machine)
injection molding																						injection molding

machine			1	2								1	1					1			6	machine
food manufacturing machine		1	1																		2	food manufacturing
printing machine					1													1			2	printing machine
industrial robot		1	2	1					1	1		1								1	8	industrial robot
other general power machines		19	22	12	16	19	18	10	13	11	10	14	14	9	12	5	14	13	13	14	258	other general power machines
felling machine																						felling machine
mobile logging machine																						mobile logging
skyline yarding machine																						skyline yarding machine
other mobile																						other mobile
silviculture machine																						silviculture machine
crane		2	5	5	3	4	4	1	4	7	7	4	2	1	6	4	5	3	1	1	69	crane
mobile crane				1	1						1										3	mobile crane
derrick crane																						derrick crane
elevator, lift				1	2	1					1										5	elevator, lift
cargo lifting appliance																	1				1	cargo lifting appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

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simple skyline																							simple skyline
yarding equipment																							yarding equipment
other powered					2	1			1	1		1										6	other powered
crane																							crane
truck		6		1	7	2	5	2	4	3	2	4	7	2	3	5	6	2	2	1	4	68	truck
forklift		9		5	7	6	6	12	1	5	3	9	6	4	7	4	4	9	6	7	3	113	forklift
railway equipment																			1	1		2	railway equipment
conveyor		4		3	4	2	4	1	2	3	4	2	3	1	2	3	4	1	2	4	2	51	conveyor
loader														1				1				2	loader
straddle carrier																							straddle carrier
rough terrain hauler																							rough terrain hauler
other powered		1		2		2	2	1	2				1	1		2	1		3		1	21	other powered
conveying machines		1						ľ						ľ					3			21	conveying machines
cars, bus,		1		4	7	1	1	1	1		1	1		3	2	1		3	2			29	cars, bus,
motorcycle		'			,	<u> </u>			<u> </u>		<u> </u>			5		<u> </u>						29	motorcycle
railway vehicle																							railway vehicle
other vehicles		1																				1	other vehicles
boiler							1							1								2	boiler
pressure vessel												1										1	pressure vessel
other pressure		1			1		1															3	other pressure
vessels		1			1																	3	vessels
chemical facilities					3	2		1								4	1	2			1	14	chemical facilities
gas welding							1		2		1	2										6	gas welding

equipment																						equipment
arc welding equipment											1				3						4	arc welding equipment
other welding equipment		1										1						1			3	other welding equipment
kiln, caldron		3	5	2	4	8	6	2	6	3	4	2	3	1	4	2	2	4	2	8	71	kiln, caldron
industrial dryer		1				2								2				1			6	industrial dryer
other kiln, caldron			1		1		1				1							1	1		6	other kiln, caldron
transmission			1					1	1								1				4	transmission
electric power facilities		1				1	1		1												4	electric power
other electrical equipment		1												1							2	other electrical equipment
human power cranes					1								1							1	3	human power cranes
human power		5	4	2	1	3	6	2	1	2	5	3	2		3	2	2	2	2	2	49	human power hauling equipment
human power			1	1			1						2								5	human power machine
hand tool		3	6	2	3	3	3	3	2	1	3	4	2		1		1	2	1	1	41	hand tool
ladder		5	1	6	6	8	6	3	6	4	3	1	3	3	2	2	7	4	4		74	ladder
slinging tool		3	3	2		3		3		2	3	1	1	1			2	1	1	2	28	slinging tool
other tools		9	7	4	4	12	7	1	1	5	11	4	5	6	8	4	5	3	7	3	106	other tools
other equipment,																						other equipment,

facilities		3	3	7	2	5	6	5	3	4	5	6	6	1	4	3	4	4	4	2	77	facilities
scaffolding					1						1				1						3	scaffolding
timbering																						timbering
stairs, landing stage		3	3	5	4	2	4	6		1	1	3	3	5	2	6	3	3	2	2	58	stairs, landing stage
opening						1					1										2	opening
roof, beam, haze, crossbeam, principal rafter										2										1		roof, beam, haze, crossbeam, principal rafter
working platform, boot board		4	3	1	4	3	3	1	3	2	4	2	2	3	4	2	2	2		2	47	working platform, boot board
passage		8	6	6	8	6	15	11	5	7	6	5	4	5	3	5	7	4	4	6	121	passage
building, establishment		2	3	3		1	4	2	2	5	1	3	1	2		3	3		2	2	39	building, establishment
other temporary buildings, establishments			3	3	1		2	2		1	2		2				5		2	2	25	other temporary buildings, establishments
explosive substance							1	1													2	explosive substance
inflammable substance			1		3		1			1		1	3				2			1	13	inflammable substance
inflammable gas		1																1		1	3	inflammable gas
harmful substance		3	2	1	1		2	3		3	1		2		3				1	1	23	harmful substance
radiation																						radiation
other hazards,		1	3	3	2		2	2	2	4	4	1	1	2			1				28	other hazards, harmful substances

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metal material	2	27		21	28	27	23	19	14	16	14	13	20	12	13	16	9	11	7	13	11	314	metal material
lumber, bamboo	1	l				1		1	1			3	2								1	10	lumber, bamboo
stone, sand, substance				1			1															2	stone, sand, substance
other materials	3	3		3	4	4	4	7	2	4	2	3	1	1	1	1	3			1		44	other materials
load	1	10		10	12	5	13	16	11	6	5	5	2	2	9	6	2	5	8	12	10	149	load
machine/equipment as load	5	5				1		1	2		1					1	1		1			13	machine/equipment as load
natural ground,												1					1				2	4	natural ground, rock
standing tree																							standing tree
water	1	l								2	1						1					5	water
abnormal environment																		1				1	abnormal environment
high/cold temperature environment				1		2	1	2	1	3		5		2	2	1		1	2		1		high/cold temperature environment
other environments	1	ı		2	1	1	1	2		1			2	1	2		1	1	2	1	1	20	other environments
other causal agent				1	4			2		2		2		2	2	1	2	3	1	2	4	28	other causal agent
no causal agent	9	•			5	8	8	7	5	5	1	4	8	2	3	3	6	7	8	9	4	102	no causal agent
unclassifiable				1	1	1								1		1						5	unclassifiable
total	2	203		190	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	2,884	total

Workers age of fatal and non-fatal accidents in other nonferrous metal 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	4	5	6	5	8	6	9	4	5	4	3	3	3	6	5	1	5	5	2	5	3	1	3	101	19 years old or less
20-29	35	48	45	33	37	40	40	28	33	45	26	22	23	40	26	22	20	32	25	27	21	15	19	702	20-29
30-39	38	42	35	40	49	46	42	49	41	45	33	38	41	38	31	24	30	30	16	28	24	24	24	808	30-39
40-49	48	43	42	31	32	41	30	30	42	38	35	31	38	34	27	41	28	40	29	45	28	31	29	813	40-49
50-59	57	57	57	67	41	47	53	36	43	53	30	29	12	32	29	18	22	15	26	25	21	33	26	829	50-59
60 years old or	20	8	18	22	23	19	27	28	32	24	16	13	17	20	18	15	16	16	12	19	17	13	20	433	60 years old or
more																							20	133	more
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

Workers' number of workplace of fatal and non-fatal accidents in other nonferrous metal 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	47	43	38	33	41	38	43	27	33	25	28	16	20	25	17	13	12	21	17	21	13	16	17	604	9 workers or less
10-29	49	49	53	57	49	62	49	46	45	49	34	36	31	48	43	31	35	27	34	28	19	27	32	933	10-29
30-49	29	19	29	26	27	20	30	33	27	28	16	15	16	26	18	20	17	21	13	27	20	11	15	503	30-49
50-99	31	30	28	35	32	31	34	23	37	37	22	28	17	26	21	21	29	34	16	21	25	22	21	621	50-99
100-299	34	44	42	33	34	28	30	24	29	45	27	30	26	31	26	24	22	29	22	39	27	30	26	702	100-299
300 workers or	12	18	13	14	7	20	15	22	25	25	16	11	24	14	11	12	6	6	8	13	10	11	10	323	300 workers or
more																12								323	more
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

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	18	23	16	22	13	16	18	11	23	20	8	7	7	16	13	7	8	14	9	14	5	12	11	311	January
February	20	15	20	15	6	19	18	13	25	18	7	9	13	12	6	10	11	17	9	10	10	13	8	304	February
March	13	13	12	17	17	16	16	13	20	18	17	15	14	16	8	10	12	16	11	12	10	10	13	319	March
April	13	14	22	19	19	13	14	18	21	14	11	8	10	15	8	7	9	11	12	9	9	5	14	295	April
May	24	21	13	19	20	13	15	9	16	17	11	13	9	12	17	9	9	15	15	14	12	9	8	320	May
June	19	17	16	9	18	12	16	15	12	19	15	14	12	9	13	8	15	11	10	11	8	12	5	296	June
July	21	12	20	20	18	17	21	7	12	24	12	14	20	18	10	8	13	9	6	18	11	8	11	330	July
August	18	13	16	18	18	18	14	14	14	10	14	13	5	19	14	15	3	11	7	5	9	6	9	283	August
September	18	22	16	18	16	27	24	20	15	24	10	6	12	9	14	12	9	11	8	15	10	8	13	337	September
October	6	15	14	16	15	16	19	24	15	16	12	17	10	19	19	13	10	6	6	8	13	16	13	318	October
November	21	18	26	15	16	17	14	11	13	13	10	7	14	16	10	12	13	11	10	16	13	13	4	313	November
December	11	20	12	10	14	15	12	20	10	16	16	13	8	9	4	10	9	6	7	17	4	5	12	260	December
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,686	total

Prefecture of fatal and non-fatal accidents in other nonferrous metal 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				2		2		1	1	2	2	1	4	1	1		1	1		1	1		22	Hokkaido
Aomori	3	2					2	1	3	4	3	1	1		2	1	1		3	5	1	1	1	35	Aomori
lwate	2	1	1		2		1	2	1	3		3	1	2		2			3					24	lwate

Miyagi	2		1	4	1	4		3	3	6	3	2	4	1	2	3		2	2	4	1	48	Miyagi
Akita				1					2				1	2	2	1					1	10	Akita
Yamagata	3		2		2	2		1	1	1	2	1				1	2	2		1	2	23	Yamagata
Fukushima	7	3	6	4	4	2	1	4				3	9	2	2	2	2	2	3	1	2	59	Fukushima
Ibaraki	12	12	11	10	10	9	21	14	7	10	5	7	8	5	10	6	8	9	5	6	6	191	lbaraki
Tochigi	7	12	8	4	10	9	6	1	3	2	4	6	4	5	2	1	3	3	6	5	1	102	Tochigi
Gunma	8	1	5	4	6	4	9	9	1	2	2	5	4	2	5	3	2	7	3	5	3	90	Gunma
Saitama	20	27	12	19	18	11	19	20	7	10	8	12	7	8	4	7	8	9	5	8	7	246	Saitama
Chiba	9	8	5	6	3	5	5	10	9	9	10	8	8	8	5	5	8	6	4	6	8	145	Chiba
Tokyo	11	2	7	8	3	3	2	5	5	2	3	1	3	4	2	2		3	2	2	1	71	Tokyo
Kanagawa	10	9	7	8	9	9	12	7	5	2	11	8	6	9	4	12	5	6	10	4	6	159	Kanagawa
Niigata	2	2	4	3	3	1	2	3	4	3	3	1	1	4	4	3	2	2	1	3	2	53	Niigata
Toyama	14	12	7	12	13	19	13	8	12	8	9	17	4	6	6	12	8	12	12	9	7	220	Toyama
Ishikawa		3		3			1		1		1	1	2		1	1	1		1			16	Ishikawa
Fukui	2	1	3	1	1	2	2	2	6	4	1	2	4	1	2	2	3		1			40	Fukui
Yamanashi		2	5	2	1	1		2	3	1				1	1	1	2	1	1		1	25	Yamanashi
Nagano	3	8	1	4	2	3	2	2	2	3	6	2	5	1	1	5	1	3	2	2	3	61	Nagano
Gifu	2	4	7	6	3	3	3	7	5	2	1	5	5	5	3	3	2	3	4	6	9	88	Gifu
Shizuoka	14	21	16	6	13	8	11	12	3	3	3	5	5	4	5	7	2	10	6	3	7	164	Shizuoka
Aichi	11	11	17	9	11	16	9	7	9	8	8	7	5	9	9	9	6	9	7	11	12	200	Aichi
Mie	2	6	9	9	7	5	11	4	3	6	4	7	5	6	5	6	5	3	3	2	5	113	Mie
Shiga	3	4	5	3	13	8	10	14	2	4	5	9	4	2	2	6	1	6	3	1	5	110	Shiga
Kyoto	3	2	5	4	6	3	4	11	3	4	2	3	4	2	2	2	1	1	1		2	65	Kyoto

Osaka	25	16	26	25	18	19	20	28	13	13	20	21	11	11	24	16	12	19	8	10	11	366	Osaka
Hyogo	13	6	4	8	8	5	12	8	9	7	5	7	8	6	3	2	3	4	4	6	5	133	Hyogo
Nara	1	1	1	2	1	3	1	1	4	5			1		2	1		2				26	Nara
Wakayama		1	1		1		1		1			1			1		1	1				9	Wakayama
Tottori				1	1	1	1			1	1				1	1				1		9	Tottori
Shimane										1									1			2	Shimane
Okayama		1	1	1	3	2			1	1	1	2		1	1	1	4	3	3	2	3	31	Okayama
Hiroshima	4	2	5	3	1	4	1	6	2	6	3	2	1		2	3	1		1	2	2	51	Hiroshima
Yamaguchi	1	1	1		2		2	1	2										1			11	Yamaguchi
Tokushima				1		1											1					3	Tokushima
Kagawa	2	3	2	5	1	1	1		1		1	4	1	1		3		2		2	1	31	Kagawa
Ehime			3	1	3	1	1	2	1	1	2	1		2		2	1	2	2			25	Ehime
Kochi															1		1			2		4	Kochi
Fukuoka	1	1	8	2	4	3	6	5	6	4	2	5	8	7	5	5	3	10	7	8	6	106	Fukuoka
Saga		1	3		2	1						1	1				1				1	11	Saga
Nagasaki			1	1	1			1	1		1		1			1	1	1				10	Nagasaki
Kumamoto	2	14	2	2	5	2	1		1		1	3		2		1	2		2	2		42	Kumamoto
Oita	1	1			1		1	1			1	2										8	Oita
Miyazaki		1	1	4	2	2		1			2	3	3			1		1				21	Miyazaki
Kagoshima		1			1					1					1				1	1		6	Kagoshima
Okinawa	1				2			1														4	Okinawa
total	202	203	203	190	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	3,289	total

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 other nonferrous metal products in Japan in 1999-2021

other nonferrous metal products industry Code No.011109

Type of fatal accidents in other nonferrous metal 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					1							1											1	3	fall from height
falling to same level																									falling to same
3																									level
crash						1																		1	crash
struck by flying or								1								1								2	struck by flying
falling object																1									or falling object
collapse			1																					1	collapse
crashed by			1															1						2	crashed by
caught in/between	1	1	3	1	1	1			2	1	1	1						1			1			15	caught
																									in/between
cut																									cut

injury to the sole of the foot																				injury to the sole
drown			1																1	drown
contact to high/low- temperature	2						1	2											5	contact to high/low- temperature
contact to harmful substance	1																		1	contact to harmful substance
electric shock									1										1	electric shock
explosion	2																		2	explosion
burst															2				2	burst
fire																				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														1					1	others
unclassifiable																				unclassifiable
total	6	1	7	1	2	2	3	4	2	1	2		1	1	4		1	1	39	total

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	1		3			2		1	1	1		1				1		1			1			13	machine
crane, conveying machine		1	2		1			1	1		1							1						8	crane, conveying machine
other equipment	2			1					2	1								2						8	other equipment
temporary buildings, establishments					1							1											1	3	temporary buildings, establishments
substance, material	1							1																2	substance, material
load			1																					1	load
environment	2		1																					3	environment
others																	1							1	others
total	6	1	7	1	2	2		3	4	2	1	2				1	1	4			1		1	39	total

Causal agents (middle) of fatal accidents in other nonferrous metal products in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
ausai (M) ageilts	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	agents

engine																		engine
power transmission mechanism													1				1	power transmission mechanism
woodworking machine																		woodworking machine
construction machine			1														1	construction machine
metal manufacturing machine						1						1					2	metal manufacturing machine
general machine	1		2		2		1	1		1					1		9	general machine
mobile silviculture machine																		mobile silviculture machine
crane													1				1	crane
conveying machine		1	1	1			1		1								5	conveying machine
vehicle			1			1											2	vehicle
pressure vessel																		pressure vessel
chemical facilities													2				2	chemical facilities
welding equipment																		welding equipment

<u> </u>		 						<u>IL</u>]				 					
kiln, caldron							2										2	kiln, caldron
electric equipment								1									1	electric equipment
human power machine, tools			1														1	human power
tools																		tools
other equipments,	2																2	other equipments, facilities
temporary buildings, establishments				1						1						1	3	temporary buildings, establishments
hazards, harmful substances	1																1	hazards, harmful substances
materials						1											1	materials
load		1															1	load
natural environment	2	1															3	natural environment
other causal agent																		other causal
no causal agent													1				1	no causal agent
unclassifiable																		unclassifiable
		 			 1	1	1	1	1			$\overline{}$		1			1	

total	6	1	7	1	2	2			4	2	1	2				1	1	4			1		1	39	total	
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Causal agents (small) of fatal accidents in other nonferrous metal 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																									engine
power transmission mechanism																		1						1	power transmission mechanism
circular sawing machine																									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
chain saw																									chain saw
other woodworking																									other woodworking

leveling,														leveling,
transporting or		1											1	transporting or
loading machine														loading machine
excavating machine														excavating machine
foundation work														foundation work
machine														machine
hardening machine														hardening machine
demolition machine														demolition machine
vehicle for high lift														vehicle for high lift
work														work
other construction														other construction
machines														machines
lathe														lathe
drill press, milling														drill press, milling
machine														machine
grinding machine,														grinding machine,
buffing machine														buffing machine
power press														power press
forging pressure														forging pressure
hammer														hammer
shearing machine														shearing machine
other metal														other metal
manufacturing					1				1				2	manufacturing
machines														machines

centrifugal machine																centrifugal machine
mixer, grinder						1									1	mixer, grinder
roll machine (except printingroll machine)		1		1												roll machine (except printingroll machine)
injection molding																injection molding
food manufacturing																food manufacturing
printing machine																printing machine
industrial robot								1							1	industrial robot
other general power machines	1	1		1			1						1		5	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											1				1	crane
mobile crane																mobile crane
derrick crane																derrick crane
elevator, lift																elevator, lift

cargo lifting															cargo lifting
appliance															appliance
gondola															gondola
lumberyard															lumberyard
equipment, logging															equipment, logging
cableway															cableway
simple skyline															simple skyline
yarding equipment															yarding equipment
other powered															other powered
crane															crane
truck															truck
forklift		1												1	forklift
railway equipment															railway equipment
conveyor															conveyor
loader															loader
straddle carrier															straddle carrier
rough terrain hauler															rough terrain hauler
other powered	1		1			1	1							4	other powered
conveying machines	1		'			'	'							4	conveying machines
cars, bus,		1			1									2	cars, bus,
motorcycle		ı			1									2	motorcycle
railway vehicle															railway vehicle
other vehicles															other vehicles
boiler															boiler

	 	 ==		 		=	 =	=	 	=		 =	 	1	
pressure vessel															pressure vessel
other pressure															other pressure
vessels															vessels
chemical facilities											2			2	chemical facilities
gas welding															gas welding
equipment															equipment
arc welding															arc welding
equipment															equipment
other welding															other welding
equipment															equipment
kiln, caldron					2									2	kiln, caldron
industrial dryer															industrial dryer
other kiln, caldron															other kiln, caldron
transmission															transmission
electric power						1								1	electric power
facilities						I								1	facilities
other electrical															other electrical
equipment															equipment
human power															human power
cranes															cranes
human power															human power
hauling equipment															hauling equipment
human power		1												1	human power
machine															machine

hand tool															hand tool
ladder															ladder
slinging tool															slinging tool
other tools															other tools
other equipment,	2													2	other equipment,
scaffolding															scaffolding
timbering															timbering
stairs, landing stage															stairs, landing stage
opening															opening
roof, beam, haze, crossbeam, principal rafter													1	1	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															inflammable substance

inflammable gas														inflammable gas
harmful substance														harmful substance
radiation	1												1	radiation
other hazards,														other hazards,
harmful substances														harmful substances
metal material					1								1	metal material
lumber, bamboo														lumber, bamboo
stone, sand,														stone, sand,
substance														substance
other materials														other materials
load		1											1	load
machine/equipment														machine/equipment
as load														as load
natural ground,														natural ground,
rock														rock
standing tree														standing tree
water		1											1	water
abnormal														abnormal
environment														environment
high/cold														high/cold
temperature	2												2	temperature
environment														environment
other environments														other environments
other causal agent														other causal agent

no causal agent														1					1	no causal agent
unclassifiable																				unclassifiable
total	6	1	7	1	2	2	3	4	2	1	2		1	1	4		1	1	39	total

Workers age of fatal accidents in other nonferrous metal 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																									19 years old or less
20-29	1	1	1					1			1	1					1	1						8	20-29
30-39	1		1		1	1		1	1												1			7	30-39
40-49	2		1		1			1		1		1						2					1	10	40-49
50-59	2		2			1			2	1														8	50-59
60 years old or			2	1					1							1		1						6	60 years old or
more																		<u> </u>						-	more
total	6	1	7	1	2	2		3	4	2	1	2				1	1	4			1		1	39	total

Workers' number of workplace of fatal accidents in other nonferrous metal 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		2						2									1					1	7	10-29
30-49			2					1								1	1	1						6	30-49
50-99	1		1			2		1													1			6	50-99

100-299	3		2		2		1			1	1				2				12	100-299
300 workers or	1	1						2	2		1								7	300 workers or
more																				more
total	6	1	7	1	2	2	3	4	2	1	2		1	1	4		1	1	39	total

Month of fatal accidents in other nonferrous metal 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	2						4	January
February			2						1							1		1						5	February
March			1															1						2	March
April			1																					1	April
May	2	1						1		1		1											1	7	May
June				1				1			1	1												4	June
July	2		1																					3	July
August			1		1																1			3	August
September	1					2				1														4	September
October			1		1																			2	October
November	1							1	2															4	November
December																									December
total	6	1	7	1	2	2		3	4	2	1	2				1	1	4			1		1	39	total

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																									Hokkaido
Aomori												1												1	Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima																									Fukushima
lbaraki	2																				1			3	Ibaraki
Tochigi		1						1																2	Tochigi
Gunma				1																				1	Gunma
Saitama									2								1	2						5	Saitama
Chiba						1			1	1								1						4	Chiba
Tokyo																									Tokyo
Kanagawa	1		1																					2	Kanagawa
Niigata																									Niigata
Toyama	2		1									1												4	Toyama
Ishikawa					1																			1	Ishikawa
Fukui											1													1	Fukui
Yamanashi			1																					1	Yamanash
Nagano																									Nagano
Gifu																							1	1	Gifu

Shizuoka		2		1										3	Shizuoka
Aichi															Aichi
Mie		1												1	Mie
Shiga															Shiga
Kyoto															Kyoto
Osaka					1					1				2	Osaka
Hyogo	1				1		1				1			4	Hyogo
Nara															Nara
Wakayama															Wakayama
Tottori															Tottori
Shimane															Shimane
Okayama															Okayama
Hiroshima															Hiroshima
Yamaguchi						1								1	Yamaguchi
Tokushima															Tokushima
Kagawa															Kagawa
Ehime															Ehime
Kochi															Kochi
Fukuoka															Fukuoka
Saga		1												1	Saga
Nagasaki															Nagasaki
Kumamoto															Kumamoto
Oita															Oita

Miyazaki					1														1	Miyazaki
Kagoshima																				Kagoshima
Okinawa																				Okinawa
total	6	1	7	1	2	2	3	4	2	1	2		1	1	4		1	1	39	total

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

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