

Fatal and non-fatal accidents in fittings in Japan in 1999-2021

fittings industry Code No.010503

Type of accidents in fittings 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	18	15	17	17	11	18	17	12	20	11	7	10	2	3	9	1	7	5	6	7	8	6	7	234	fall from height	
falling to same level	18	16	16	16	11	10	11	13	9	9	11	3	4	5	6	5	9	8	8	6	5	3	3	205	falling to same level	
crash	4	7	8	7	4	5	5	3	2	3	2	3	1	3	2	2	1	1	2	2		4		71	crash	
struck by flying or falling object	30	15	15	20	17	15	16	12	9	14	10	10	5	2	6	8	3	3	3	4		7	3	227	struck by flying or falling object	
collapse	5	8	9	5	4	5	10	4	4	4	1	4	1	4	3	1	2	2	2	2		3	2	85	collapse	
crashed by	9	7	7	11	8	3	8	3	6	4	1	1	5	2	4	2	1	5		1	1	3		92	crashed by	
caught in/between	41	37	30	28	25	23	32	17	21	34	15	15	18	12	20	15	19	16	16	12	16	16	12	490	caught in/between	
cut	209	193	185	182	161	158	122	100	111	109	74	107	87	75	71	63	50	56	50	56	45	44	43	2,351	cut	
injury to the sole of the foot					1										1									2	injury to the sole of the foot	
drown																										drown
contact to high/low-temperature	1	2		3	2		1		1			1	3	1						1		1		17	contact to high/low-temperature	

engine																									engine
power transmission mechanism				1		1							1						1	1				5	power transmission mechanism
circular sawing machine			103		99		75	65	64	72	49	71	54	41	46	46	33	35	29	36	30	30	29	1,007	circular sawing machine
band sawing machine			3				1		1		1		1	1				1			1	1		11	band sawing machine
wood planer machine			42		35		24	22	25	22	21	13	16	14	19	12	7	16	6	4	7	13	7	325	wood planer machine
hollow chisel mortiser, wood borer			6		5			3	2	2	3		1	1	3		1	3	4	2		1		37	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine			9		7		9	2	5	8	3	4	2	2	2		2		2	6	2	2	1	68	chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines			21		27		26	18	20	21	8	15	19	16	16	10	18	15	13	14	3	12	9	301	other woodworking machines
leveling, transporting or loading machine																									leveling, transporting or loading machine
excavating machine																									excavating machine
foundation work machine							1																	1	foundation work machine

machine																									machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																		1						1	industrial robot
other general power machines			7		6		6	2	5	8	3	3	3	2	2	3	3	1	6	6	5	2	1	74	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						2	crane
mobile crane																									mobile crane
derrick crane																									derrick crane
elevator, lift									1													1		2	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

facilities			1		2		3		1	3							2		1		1	16	facilities				
scaffolding			1				1	1											1			1	5	scaffolding			
timbering																								timbering			
stairs, landing stage			2		5		4	1	3	4	1	1	1	1	1		2	1	2		2	3		34	stairs, landing stage		
opening							2																2		5	opening	
roof, beam, haze, crossbeam, principal rafter			2				2	1									2		1	2			1		11	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			2		2		3	2	3	2	2	3					3	1	3	1	1	1		1	30	working platform, boot board	
passage			10		5		3	5	3	4	6	2	4	4	1		4	3	4	4	2	1	1		66	passage	
building, establishment			1		3		4	1	1	3	1	3	1	1	2					2			1		24	building, establishment	
other temporary buildings, establishments			1		2																			1	12	other temporary buildings, establishments	
explosive substance																										explosive substance	
inflammable substance													1												1	3	inflammable substance
inflammable gas					1																				1	inflammable gas	
harmful substance										1															1	harmful substance	
radiation																										radiation	
other hazards, harmful substances					1																				1	other hazards, harmful substances	

metal material			5		2		2	2	3	1	1	2	2	2			1		1		1	1		26	metal material		
lumber, bamboo			19		15		20	8	13	8	5	10	8	3	6	8	5	8	5	4	1	7	3	156	lumber, bamboo		
stone, sand, substance			2													1								5	stone, sand, substance		
other materials			3		8		3	4	1	4	2	5	1	3		1	1		1		2			39	other materials		
load			5		7		2	3	2	4	1					1	2	2	3	2		2	6	2	44	load	
machine/equipment as load					1		1			1															3	machine/equipment as load	
natural ground, rock																									1	natural ground, rock	
standing tree													1												1	standing tree	
water																											water
abnormal environment																											abnormal environment
high/cold temperature environment																										5	high/cold temperature environment
other environments					1		1			1							1		1						5	other environments	
other causal agent					2			2				1				1		1		1					8	other causal agent	
no causal agent			3		4		2			4	4	3	3		1	1	4	1	6	3			1	40	no causal agent		
unclassifiable																											unclassifiable
total			305		263		230	169	193	203	129	163	134	112	126	104	98	103	97	100	82	95	71	2,777	total		

Workers age of fatal and non-fatal accidents in fittings 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	12	11	8	9	8	8	9	2	2	3	2	2	2	1	1	2		1		2	2	1	1	89	19 years old or less
20-29	60	51	61	48	53	34	32	27	35	41	25	20	21	19	14	11	22	12	16	12	9	13	12	648	20-29
30-39	40	34	34	42	35	35	40	33	26	33	23	21	25	25	23	29	13	19	19	11	17	11	10	598	30-39
40-49	52	51	40	39	37	33	26	14	18	32	22	25	16	14	23	16	16	18	17	13	13	19	15	569	40-49
50-59	94	84	87	80	71	75	70	54	56	47	22	49	30	17	27	17	8	10	18	14	12	22	14	978	50-59
60 years old or more	86	84	75	80	59	62	53	39	56	47	35	46	40	36	38	29	39	43	27	48	29	29	19	1,099	60 years old or more
total	344	315	305	298	263	247	230	169	193	203	129	163	134	112	126	104	98	103	97	100	82	95	71	3,981	total

Workers' number of workplace of fatal and non-fatal accidents in fittings 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	222	213	190	193	165	162	150	105	113	129	87	107	85	72	80	72	49	68	62	53	41	56	39	2,513	9 workers or less
10-29	97	81	83	72	61	57	42	40	52	56	30	38	27	32	27	19	21	19	17	26	23	19	20	959	10-29
30-49	21	12	21	18	16	10	16	8	13	8	8	12	13	4	5	7	12	4	12	8	8	13	6	255	30-49
50-99	3	6	10	9	17	12	18	14	9	9	4	3	5	2	6	2	8	7		3	3	2	1	153	50-99
100-299		3		5	4	4	1	2	6	1		3	4	2	8	4	7	5	6	10	4	4	3	86	100-299
300 workers or more	1		1	1		2	3										1				3	1	2	15	300 workers or more
total	344	315	305	298	263	247	230	169	193	203	129	163	134	112	126	104	98	103	97	100	82	95	71	3,981	total

Month of fatal and non-fatal accidents in fittings 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	24	25	35	26	15	15	23	11	14	15	9	10	11	10	8	9	12	11	5	14	7	10	7	326	January
February	29	37	18	29	16	11	20	11	17	23	9	21	4	8	10	8	6	9	10	11	5	7	11	330	February
March	34	35	20	35	18	35	16	15	15	23	15	16	11	8	8	16	13	9	9	8	7	7	7	380	March
April	25	23	20	24	19	16	21	16	19	21	10	15	11	7	12	6	5	7	12	6	6	6	2	309	April
May	21	30	30	27	22	16	18	13	17	14	6	14	12	21	12	15	10	8	5	7	3	6	7	334	May
June	37	25	24	24	20	22	20	17	13	15	19	14	16	15	10	11	10	8	7	10	4	9	8	358	June
July	27	25	21	24	27	28	17	20	22	17	7	12	7	8	8	6	7	10	5	9	15	8	7	337	July
August	26	28	40	25	27	18	21	18	19	11	9	11	16	7	14	9	8	4	14	7	6	7	4	349	August
September	33	22	29	24	22	26	17	12	8	11	7	11	11	9	6	7	4	13	2	1	9	9	4	297	September
October	33	24	26	21	35	26	22	10	16	18	13	16	14	8	10	7	6	8	9	10	9	8	3	352	October
November	31	21	27	25	23	16	22	15	11	15	7	14	12	5	18	9	10	4	10	11	10	8	5	329	November
December	24	20	15	14	19	18	13	11	22	20	18	9	9	6	10	1	7	12	9	6	1	10	6	280	December
total	344	315	305	298	263	247	230	169	193	203	129	163	134	112	126	104	98	103	97	100	82	95	71	3,981	total

Prefecture of fatal and non-fatal accidents in fittings 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	20	21	18		17		13	14	12	8	7	17	12	5	7	5	4	5	4	4	1		2	196	Hokkaido
Aomori	1	1	5		4		2	1	1	1	1	1	2			1		1		2				24	Aomori
Iwate	4	2	6		3		4	2		3	1	2		1	1		1		1	2		1	1	35	Iwate

Miyagi	4	7	3		3		5	4	3	2	1	3	2	1	4	1	1	2		1	1			48	Miyagi	
Akita	5	6	8		3		2	3	6	5	3	5	3	3	2	4	3	2	2	2		1	1		69	Akita
Yamagata	10	6	2		9		7	5	7	3	2	2	1	2	2	2	3	2	1	3	3	2	2		76	Yamagata
Fukushima	4	6	2		7		4	1	4	3	2	1		2		3	3	4		2	6	4	2		60	Fukushima
Ibaraki	5	1			1				2	1		1	2		1	1		1		1	1				18	Ibaraki
Tochigi	15	15	21		16		12	4	7	6	2	4	5	5	7	3	2	4	4	3	2	6	3		146	Tochigi
Gunma	9	7	4		5		3	1	1	5	4	4			5		4	4	2	2	1	2	2		65	Gunma
Saitama	16	9	22		10		13	6	18	14	10	9	6	10	5	9	7	5	6	12	8	4	2		201	Saitama
Chiba	4	6	4		1		1	1	1	1	2	2	2	2	3	2	1	1		1					35	Chiba
Tokyo	8	5	10		4		6	5	5	4	6	4	1	1	3	2		2	4	1	1	4			76	Tokyo
Kanagawa	13	13	9		5		6	1	3	4	1	1	2	2	4		2	1			3		1		71	Kanagawa
Niigata	9	11	11				10	6	9	10	5	6	5	5	5	5	2	3	7	4	2	1	5		121	Niigata
Toyama	2	2	7		6				1	2	1		2	4	5	1		2	2		1		2		40	Toyama
Ishikawa	4	8	4				2	2		1		3		1	1								2		28	Ishikawa
Fukui					2			1	3	1	2	1	1			1				2					14	Fukui
Yamanashi		1	1						1	2					2		1	1		1					10	Yamanashi
Nagano	7	9	9		4		8	4	1	3	1	3	2	4	1	3	4	5	1	5	4	2	3		83	Nagano
Gifu	8	11	10		3		7	7	3	4	4	4	3	7	2	3	3	2	3	4	4	4	4		100	Gifu
Shizuoka	10	5	10		10		5	7	6	8	6	3	6	3	6	9	9	8	6	7	1	5	1		131	Shizuoka
Aichi	18	6	8		3		6	8	7	7	6	3	8	2	2	1	2	3	4	1	2	4	1		102	Aichi
Mie	7	5	5		5		3	5	5	8	3	5				1		1		2	2	1	2		60	Mie
Shiga	5	1			1		1	2	4	1	1	1	1	2	1								3		24	Shiga
Kyoto	2	2	7		2		5	1	3	1	3		2	1	1	1		1	1	1					34	Kyoto

Osaka	17	10	6		8		11	2	3	6	2	7	1	6	8	3	2	2	6	2	4	3	5	114	Osaka
Hyogo	13	14	8		6		3	9	7	7	6	8	3	4	1	1	2	2	4	1	3	4	2	108	Hyogo
Nara	2	8	4		4		4		3	1	3	2	5	2	3		6	4			2			53	Nara
Wakayama	22	20	18		18		17	15	17	14	10	7	17	9	12	7	8	7	10	12	2	11	6	259	Wakayama
Tottori	3	1	2		3			1		1			1	1		1	1							15	Tottori
Shimane	12	7	8		11		3	3	4	3	1	2		2		4			3	2	2	2		69	Shimane
Okayama	9	6	7		11		3	5	8	11	5	4	2	2	4	2	3	3	2		1	2	3	93	Okayama
Hiroshima	9	9	9		9		4	4	6	4	5	8	6	2	1	6	3	1	1	2	2	2	2	95	Hiroshima
Yamaguchi	5	9	6		7		9	3	2	4	3	2	3	1	3	2	4	2	2		3	3	2	75	Yamaguchi
Tokushima	15	8	10		13		8	6	4	8	1	8	5	3	5	1	4	4	6	7	2	5	3	126	Tokushima
Kagawa	6	5	1		4		3	4	3	3	3	5	1	1	2	3					1	1	1	47	Kagawa
Ehime	8	5	3		3		5	1		1	1		3	2			1	2	2			2	1	40	Ehime
Kochi	2	4	4		6			1	1	4	2	3	1	2		2		1	2	1		2		38	Kochi
Fukuoka	11	20	13		14		16	10	8	15	7	9	8	3	9	6	5	2	3	3	9	8	3	182	Fukuoka
Saga	4	3	1		1		3	2	2	2		3	2		2	3	1	3	2		1	1	1	37	Saga
Nagasaki	1	2	4		3		2	1	3	3	1	2	4	2			2	2	1	2	2	4		41	Nagasaki
Kumamoto	1	7	2		4		1	2	2	3		1				2	1	2	1				1	30	Kumamoto
Oita	5	6	7		3		5	3	3	2	2	4	3	3	1	1	2		3	3	1	3	1	61	Oita
Miyazaki	3	1			1		3		1	1	1	1		2				3			3	1		21	Miyazaki
Kagoshima	3		2		3		3		2	1	1				4	1		2	1	1				24	Kagoshima
Okinawa	3	4	4		7		2	6	1	1	1	2	1	2	1	1	1	1		1	1		1	41	Okinawa
total	344	315	305		263		230	169	193	203	129	163	134	112	126	104	98	103	97	100	82	95	71	3,436	total

total			1		1	1	1			3	1												1	9	total
-------	--	--	---	--	---	---	---	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--	---	---	-------

Causal agents (small) of fatal accidents in fittings 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																									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			1																					1	chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines																									other woodworking machines

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

hand tool																								hand tool
ladder																								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																								other temporary buildings, establishments
explosive substance																								explosive substance
inflammable substance																								inflammable substance

no causal agent																								no causal agent
unclassifiable																								unclassifiable
total			1	1	1	1		3	1													1	9	total

Workers age of fatal accidents in fittings 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																									20-29
30-39									1															1	30-39
40-49										1														1	40-49
50-59					1				1													1		3	50-59
60 years old or more			1				1		1															3	60 years old or more
total			1	1	1	1		3	1													1	9	total	

Workers' number of workplace of fatal accidents in fittings 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		1	1														4	9 workers or less
10-29									2															2	10-29
30-49			1																			1		2	30-49
50-99					1																			1	50-99

100-299																										100-299	
300 workers or more																											300 workers or more
total			1		1	1	1		3	1														1		9	total

Month of fatal accidents in fittings 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																										January	
February																											February
March									1																1	March	
April										1															1	April	
May						1																			1	May	
June					1				1																2	June	
July																											July
August																											August
September																											September
October							1																	1	2	October	
November			1																						1	November	
December									1																1	December	
total			1		1	1	1		3	1														1		9	total

Prefecture of fatal accidents in fittings in 1999-2021

Miyazaki																									Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total			1		1	1	1		3	1												1		9	total

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html