Fatal and non-fatal accidents in screw products in Japan in 1999-2021

screw products industry Code No.011202

Type of accidents in screw 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	7	2	7	7	6	8	5	6	8	6	5	6	4	8	1	5	5	8	9	5	5	4	7	134	fall from height
falling to same level	4	14	14	5	5	4	8	3	10	10	5	4	8	7	4	8	2	4	9	14	4	4	17	167	falling to same
crash	3	5	5	6	6	4	5	3	3	4		6	3	5	5	3	5	2	4	4	1	6	1	89	crash
struck by flying or falling object	9	14	8	9	8	7	5	9	9	10	7	8	6	4	7	6	8	8	4	4	6	3	3	162	struck by flying or falling object
collapse	2	1	2	1	2	2	4		3	4	2	2		3	2	1		1	4	1	1	1	1	40	collapse
crashed by	6	3	5	2	7	8	3	4	4	3	3	1	1	2	1	3	3	5	2	4	6	2	4	82	crashed by
caught in/between	48	36	55	34	34	36	45	47	51	47	29	35	37	30	30	27	24	24	42	31	28	15	24	809	caught in/between
cut	5	8	6	14	13	10	8	8	6	7	1	3	4	11	5	4	5	2	5	2	4	2	6	139	cut
injury to the sole of the foot			1				2														2			5	injury to the sole of the foot
drown																									drown
contact to high/low- temperature		1	1	2	1		3				1	1	3			1		1	1	1	1	1		19	contact to high/low- temperature

contact to harmful																									contact to
substance			1		1	1							2							1	1		2	9	harmful
substance																									substance
electric shock																									electric shock
explosion															1									1	explosion
burst									1															1	burst
fire																									fire
traffic accident (public										1									1						traffic accident
road)					I	I				ı	I		2	2				ľ	I	I	2			14	(public road)
traffic accident																									traffic accident
(others)																									(others)
reaction to																									reaction to
motion/improper	6	4	12	3	13	3	8	10	4	12	7	9	3	2	6	5	5		2	6	5	3	4	132	motion/improper
motion																									motion
others		1								1		1					1		1	1				6	others
unclassifiable	1	1							1															3	unclassifiable
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	total

Causal agents (large) of fatal and non-fatal accidents in screw products in 1999-2021

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)
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	ll l	agents
machine	48	37	54	38	43	38	44	42	50	45	28	40	30	36	35	27	25	24	45	30	30	16	25	830	machine
crane, conveying																									crane,

machine	8	8	6	5	12	13	13	9	6	5	6	5	11	12	4	8	7	6	9	7	6	6	9	181	conveying
macrime																									machine
other equipment	11	5	12	17	9	15	7	6	12	15	7	7	13	7	8	8	12	12	12	11	9	7	12	234	other
other equipment			12			13	/	6	12	13		/	13		0		12	12	12	11	9		12	234	equipment
to manage my buildings																									temporary
temporary buildings, establishments	6	13	12	6	5	5	10	5	14	8	6	6	9	4	2	9	1	5	5	14	5	3	14	167	buildings,
establishments																									establishments
substance material	5	14	17	11	15	9	10	16	11	15	5	8	7	9	6	2	7	_	9	6	8	3	6	204	substance,
substance, material		14	17		13		10	10		13		0		9					9		0	3		204	material
load	10	10	12	3	7	3	7	10	6	10	7	1	1	3	4	8	2	4	1	4	7	1	3	124	load
environment		1	1							1	1	1	1		1	1			1	1		2		12	environment
others	3	3	3	3	6	1	5	2	1	6	1	8	1	3	2		4		2	2	1	3		60	others
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	total

Causal agents (middle) of fatal and non-fatal accidents in screw 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										1										1				2	engine
power transmission mechanism			1	1	3	2		1		1		4	3	3	2	1		2	1	1	3	1		30	power transmission mechanism
woodworking machine											1			2										3	woodworking machine

construction machine																									construction
																									machine
metal manufacturing	45	32	41	27	30	32	37	36	43	38	26	26	21	26	27	21	21	20	31	17	20	13	20	650	metal manufacturing
																									machine
ganaral mashina	2	_	12	10	10	1	7	5	7	5	1	10	_	5	_	_	4		13	11	7		5	145	general
general machine	3	5	12	10	10	4))	I	10	6	3	6	5	4	2	13			2	٥	145	machine
mobile silviculture																									mobile
machine																									silviculture
																									machine
crane	4	3	1	3	8	7	4	5	2	1	3	3	6	4	1	5	1	3	2	1		1	5	73	crane
conveying machine	3	4	5	2	2	5	8	4	4	3	3	2	4	7	3	3	6	2	6	5	5	4	4	94	conveying
conveying machine														,											machine
vehicle	1	1			2	1	1			1			1	1				1	1	1	1	1		14	vehicle
pressure vessel																									pressure vessel
chemical facilities													1							1				2	chemical
chemical facilities																				<u> </u>					facilities
aldin a naviana ant										1			,											12	welding
welding equipment				3						 			3					2						12	equipment
kiln, caldron			1															1			1			3	kiln, caldron
																									electric
electric equipment										 														3	equipment
human power machine,	_	2	1	_	2	2	,	,		E	1		4		4	1	2	2	2	2	2	2	1	62	human power
tools	6	3	4	5	3	3	2	2	4	5			4		4	1	2	2	3	3	2	2	1	02	machine, tools

tools	5	2	6	9	5	5	4	3	6	7	5	6	4	6	3	4	6	4	9	7	6	4	9	125	tools
other equipments,						7	1			1	1	1	1	1	1	3	4	3				1	2		other equipments, facilities
temporary buildings, establishments	6	13	12	6	5	5	10	5	14	8	6	6	9	4	2	9	1	5	5	14	5	3	14	167	temporary buildings, establishments
hazards, harmful substances			1		1	1	2	1	2				2								1		2	13	hazards, harmful substances
materials	5	14	16	11	14	8	8	15	9	15	5	8	5	9	6	2	7	5	9	6	7	3	4	191	materials
load	10	10	12	3	7	3	7	10	6	10	7	1	1	3	4	8	2	4	1	4	7	1	3	124	load
natural environment		1	1							1	1	1	1		1	1			1	1		2		12	natural environment
other causal agent	2	1			1	1						1					1		1		1			9	other causal agent
no causal agent	1	1	2	3	5		5	2		6	1	6	1	3	2		3		1	1		2		45	no causal agent
unclassifiable		1	1						1			1								1		1		6	unclassifiable
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	total

Causal agents (small) of fatal and non-fatal accidents in screw 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						1									1			2	engine
power transmission mechanism		1	3		1	1		4	3	3	2	1	2	1	1	3	1	27	power transmission mechanism
circular sawing machine										1								1	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										1								1	other woodworking machines
leveling, transporting or loading machine																			leveling, transporting or loading machine
excavating machine																			excavating machine
foundation work																			foundation work 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	(5	5	10	4	9	13	5	5	5	10	7	4	7	6	5	6	5	4	5	121	lathe
drill press, milling		4	4	4	4	5	6	2	2	1	2		2	3	2	5		1			47	drill press, milling
machine		+	4	4	4	3	0							3		3						machine
grinding machine,	3	2	1	2	4	3	2	3	4	2	2	3	1	2			1		1	2	36	grinding machine,
buffing machine																					50	buffing machine
power press	8	8	4	5	1	8	7	5	2	3	1	1	2	4	2	5	3	3	2	2	68	power press
forging pressure					1							1				1					3	forging pressure
hammer																						hammer
shearing machine												1								1	2	shearing machine
other metal																						other metal
manufacturing		20	16	16	22	18	10	11	13	10	11	14	12	5	10	15	7	11	6	10	237	manufacturing
machines																						machines
centrifugal machine						1	1	1		1											4	centrifugal machine
mixer, grinder			1														1		1		3	mixer, grinder
roll machine (except																						roll machine (except
printingroll				2	1	1					1	1			1	3		1			11	printingroll
machine)																						machine)
injection molding																						injection molding

machine		1																			1	machine
food manufacturing																						food manufacturing
printing machine																						printing machine
industrial robot		1	1													1					3	industrial robot
other general power machines		10	8	5	4	5	4		10	5	4	5	5	4	1	9	10	6	1	5	101	other general power machines
felling machine																						felling machine
mobile logging machine																						mobile logging
skyline yarding machine																						skyline yarding machine
other mobile silviculture machine																						other mobile silviculture machine
crane		1	8	3	5	2	1	2	3	5	4	1	5	1	3	2	1		1	5	53	crane
mobile crane																						mobile crane
derrick crane																						derrick crane
elevator, lift				1				1		1											3	elevator, lift
cargo lifting appliance																						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																							other powered
crane																							crane
truck		2			2	1			1		1	2	1			1	4	1	1	2		19	truck
forklift		2		2	5	2	4	1	1	2	1	4	2	2	3	1	2	4	3	2	1	44	forklift
railway equipment																							railway equipment
conveyor		1			1	1		1	1					1	3				1		2	12	conveyor
loader																							loader
straddle carrier																							straddle carrier
rough terrain hauler																							rough terrain hauler
other powered								1				1										5	other powered
conveying machines											2	ľ)	conveying machines
cars, bus,																						11	cars, bus,
motorcycle				2	I			ľ			I					I	I						motorcycle
railway vehicle																							railway vehicle
other vehicles																							other vehicles
boiler																							boiler
pressure vessel																							pressure vessel
other pressure																							other pressure
vessels																							vessels
chemical facilities											1							1				2	chemical facilities
gas welding											1											1	gas welding

equipment																						equipment
arc welding equipment					1		1			1					1						4	arc welding equipment
other welding equipment			1			1				1					1						4	other welding equipment
kiln, caldron		1													1			1			3	kiln, caldron
industrial dryer																						industrial dryer
other kiln, caldron																						other kiln, caldron
transmission		1				1	1														3	transmission
electric power facilities																						electric power facilities
other electrical equipment																						other electrical equipment
human power																						human power cranes
human power hauling equipment		1	2	1		3				2		2	1	1	2	1	2	2	1	1	22	human power hauling equipment
human power							2														2	human power machine
hand tool		3	1	1	2	1	3	1		2		2		1		2	1		1		21	hand tool
ladder		4	3	2	1	3	3	2	3	4	2	1	2	2	3	8	3	3	3	4	56	ladder
slinging tool		1		1		1	1	1	1		1	1	1		1			2		3	15	slinging tool
other tools		1	2	1	2	2	3	2	2		3	1	1	4		1	4	1	1	2	33	other tools
other equipment,																						other equipment,

facilities				1			1	1	1	1	1	1	3	4	3				1	2	20	facilities
scaffolding																						scaffolding
timbering																						timbering
stairs, landing stage		2		2	4	1	3	1	1				3	1	2	1	4	2		3	30	stairs, landing stage
opening				1		1				1		1									4	opening
roof, beam, haze, crossbeam, principal rafter											1										1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		3	1	2		4	3	1	3	1	2		1		2				2		25	working platform, boot board
passage		6	2	3	1	3	2	3	2	6	1	1	4		1	4	7	3	1	11	61	passage
building, establishment		1	1	2		3							1								8	building, establishment
other temporary buildings, establishments			1			2		1		1							3				8	other temporary buildings, establishments
explosive substance						1															1	explosive substance
inflammable substance				1																	1	inflammable substance
inflammable gas										1											1	inflammable gas
harmful substance		1								1								1		1	4	harmful substance
radiation																						radiation
other hazards,			1	1	1	1														1	5	other hazards, harmful substances

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metal material		15	13	8	15	9	13	4	8	4	9	6	1	5	5	8	6	6	3	4	142	metal material
lumber, bamboo			1					1					1	1		1		1			6	lumber, bamboo
stone, sand,														1							1	stone, sand,
substance														•								substance
other materials		1					2			1											4	other materials
load		11	7	7	10	6	9	7	1	1	2	4	8	1	4	1	4	7	1	1	92	load
machine/equipment		1					1				1			1							6	machine/equipment
as load		1												I						2		as load
natural ground,																						natural ground,
rock																						rock
standing tree																						standing tree
water																						water
abnormal																						abnormal
environment																						environment
high/cold																						high/cold
temperature		1						1	1								1		1		5	temperature
environment																						environment
other environments							1			1		1	1			1			1		6	other environments
other causal agent			1						1					1		1		1			5	other causal agent
no causal agent		2	5	5	2		6	1	6	1	3	2		3		1	1		2		40	no causal agent
unclassifiable		1				1			1								1		1		5	unclassifiable
total		117	97	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,463	total

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	3	2	2	2	2	6	4	3	1	4	1	1		3	1	2	3		2	1	3	1	1	48	19 years old or less
20-29	20	13	21	19	22	19	21	16	26	27	9	23	20	13	12	14	8	13	14	10	12	7	7	366	20-29
30-39	11	13	26	17	19	13	13	22	14	19	8	15	13	15	18	16	19	9	15	16	14	7	12	344	30-39
40-49	19	22	20	11	16	10	20	12	11	22	12	11	11	16	12	10	9	12	24	16	16	9	19	340	40-49
50-59	27	30	34	20	23	23	22	21	20	17	13	16	12	10	6	10	6	11	18	17	9	12	14	391	50-59
60 years old or	11	11	14	14	15	13	16	16	28	16	18	10	17	17	13	11	13	11	11	15	12	5	16	323	60 years old or
more									20															323	more
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	total

Workers' number of workplace of fatal and non-fatal accidents in screw 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	22	23	27	24	28	18	22	22	29	21	15	18	13	15	10	16	16	11	17	14	9	4	9	403	9 workers or less
10-29	28	30	36	29	35	25	33	26	27	28	16	18	17	25	16	17	23	17	20	18	13	15	20	532	10-29
30-49	13	16	21	14	16	17	14	16	16	18	12	16	16	10	19	13	7	9	15	12	17	4	9	320	30-49
50-99	18	17	25	14	5	14	19	13	15	27	11	12	15	14	11	8	8	12	18	11	15	8	11	321	50-99
100-299	8	5	8	1	11	9	6	10	11	9	6	11	7	8	6	8	4	5	14	18	9	9	18	201	100-299
300 workers or	2			1	2	1	2	3	2	2	1	1	5	2		1		2		2	3	1	2	35	300 workers or
more				_							•											'			more
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	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	4	5	11	5	10	6	4	5	9	8	7	5	5	9	5	5	5	7	13	6	4		2	140	January
February	10	6	7	8	6	8	6	9	9	8	10	7	3	6	3	7	4	6	7	8	8	6	4	156	February
March	13	10	12	8	10	11	11	7	6	14	5	6	6	6	8	5	5	4	6	6	7	4	5	175	March
April	7	10	6	6	4	6	9	8	11	14	4	6	5	4	5	6	4	4	6	5	5	3	5	143	April
May	8	5	10	8	8	5	8	7	9	11	4	4	7	8	6	5	1	2	6	8	5	3	5	143	May
June	10	13	13	12	9	9	11	6	8	13	6	8	8	9	5	4	9	4	4	7	9	4	7	188	June
July	8	6	16	7	7	9	9	5	7	4	2	9	5	8	5	4	8	8	6	4	5	3	7	152	July
August	3	10	6	5	5	4	8	5	6	7	4	10	5	7	7	3	3	2	10	4	7	6	8	135	August
September	9	9	11	6	12	6	9	11	12	8	6	3	4	6	8	5	8	4	4	6	6	6	8	167	September
October	4	8	10	5	6	6	8	15	5	9	7	5	6	2	4	8	3	7	8	9	2	1	7	145	October
November	6	4	9	8	11	7	9	9	8	3	5	6	9	6	2	4	4	4	6	9	4	3	3	139	November
December	9	5	6	5	9	7	4	3	10	6	1	7	10	3	4	7	4	4	8	3	4	2	8	129	December
total	91	91	117	83	97	84	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,812	total

Prefecture of fatal and non-fatal accidents in screw products in 1999-2021

Prefectu	ıre	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
Hokkaid	do								1																1	Hokkaido
Aomori												1													1	Aomori
lwate		1													1			1							3	lwate

Miyagi	1	1		2	1				1	4	1	1					1					13	Miyagi
Akita				1																		1	Akita
Yamagata			1		2	1	1				1										2	8	Yamagata
Fukushima		2	4	1		2	1	4	1	1		2	1		1	1	1	1	1		2	26	Fukushima
Ibaraki	2	2	2	1		2	1		1	2			3		3		1	2			3	25	Ibaraki
Tochigi	1	1				2									1		2	1			1	9	Tochigi
Gunma			1	1	1	1		1		1				2					1			9	Gunma
Saitama	3	4	14	10	8	8	3	7	2	4	3	5	5	2	5	1	1	4	2		6	97	Saitama
Chiba		2	4	2			3	7	2	1	1	1	2	1	2			2	1			31	Chiba
Tokyo	4	3	6	4	5	6	3	11	6	3	3	5	4	1	3	5	3	2	3	1	4	85	Tokyo
Kanagawa	2		1	1	2	3	2	4	2	2		1	2	2	1	1	5				1	32	Kanagawa
Niigata		3	3	1	3	2	1	3		2	3		2	2		1	1		1	1		29	Niigata
Toyama				1		1		1		1				3						1	1	9	Toyama
Ishikawa	2		1	2	2	2	1	2		2			1	1							1	17	Ishikawa
Fukui	1		3						1	1	1			3			1	3				14	Fukui
Yamanashi		1	1		1	1	1			1			1	1			1		1			10	Yamanashi
Nagano			1		1								3								1	6	Nagano
Gifu	2	6	5	6	2		5	3		2		3		3	2	1	2	2	2	1	1	48	Gifu
Shizuoka	6	4	3	4	2	3	10	3	3	2	6	3	3	1	2		3	3	5	7	1	74	Shizuoka
Aichi	13	8	6	12	8	4	11	11	4	7	7	12	4	3	6	8	11	9	7	5	6	162	Aichi
Mie		2	2	1		1		2	1	1	2	3	4	1		1	1	1		1		24	Mie
Shiga			2	2				2			1		1		1	2	3	3	1		3	21	Shiga
Kyoto	2	1	6	4	4	4	6	2	1	1	5	2		5		1	2	3	1	4	1	55	Kyoto

Osaka	36	31	27	23	31	29	35	24	20	21	25	23	16	20	20	20	20	20	26	11	20	498	Osaka
Hyogo	1	3	7	3	12	8	3	4	7	2	1	2	1	6		1	5	1	2	1	4	74	Hyogo
Nara		5	2	2	1		2				1	1					7	3	5	1	1	31	Nara
Wakayama		1	2	3	1		1	2			1	1	1		1	2	2	2	2	1		23	Wakayama
Tottori		1	1	1	1	1	2	1						1								9	Tottori
Shimane																							Shimane
Okayama	2	1		1	1		1	2				1		1		1	1			1	2	15	Okayama
Hiroshima	1	3	4	3	1	1	3	1	2	2	3	1	4	1	4	1		4	1	2	2	44	Hiroshima
Yamaguchi	1	1	1					1		2	1		1				1	1		1		11	Yamaguchi
Tokushima	1		1	1	4					2	1		1			1	3	1	1			17	Tokushima
Kagawa	1						1				1		1		1			1				6	Kagawa
Ehime							1	1														2	Ehime
Kochi																							Kochi
Fukuoka	1	2	1	2	2	3		2	3	3		2		2	3	2	1	1				30	Fukuoka
Saga	2		1	1		1		1	2		1	1			1	2		1	1		2	17	Saga
Nagasaki	2	2	2	1		2	2	2	1	4	4	2	1	1		4	4	3	1	1	2	41	Nagasaki
Kumamoto	2																					2	Kumamoto
Oita								1														1	Oita
Miyazaki	1		2			1														1	1	6	Miyazaki
Kagoshima		1								2							1	1	1		1	7	Kagoshima
Okinawa												1										1	Okinawa
total	91	91	117	97	96	90	100	105	61	76	73	74	62	63	58	56	84	75	66	41	69	1,645	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 screw products in Japan in 1999-2021

screw products industry Code No.011202

Type of fatal accidents in screw 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																									fall from height
falling to same level																									falling to same
laining to same level																									level
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse																									collapse
crashed by																									crashed by
caught in/between	1							1	1				1	1				1						6	caught
caugiit iii/ between									ľ				ľ					1							in/between
cut																									cut

		 	 	 			 	 		 	 		 	 	-	
injury to the sole of																injury to the sole
the foot																of the foot
drown																drown
contact to high/low-																contact to
temperature												1			1	high/low-
temperature																temperature
contact to harmful																contact to
substance														1	1	harmful
Substance																substance
electric shock																electric shock
explosion																explosion
burst																burst
fire																fire
traffic accident (public																traffic accident
road)																(public road)
traffic accident (others)																traffic accident
traffic accident (others)																(others)
reaction to																reaction to
motion/improper																motion/improper
motion																motion
others																others
unclassifiable																unclassifiable
total	1				1	1		1	1		1	1		1	8	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)
machine	1							1	1					1				1						5	machine
crane, conveying machine													1											1	crane, conveying machine
other equipment																									other equipment
temporary buildings, establishments																									temporary buildings, establishments
substance, material																			1				1	2	substance, material
load																									load
environment																									environment
others																									others
total	1							1	1				1	1				1	1				1	8	total

Causal agents (middle) of fatal accidents in screw products in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
causai (ivi) agents	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															power transmission mechanism
woodworking machine															woodworking machine
construction machine															construction machine
metal manufacturing machine	1				1	1			1		1			5	metal manufacturing machine
general machine															general machine
mobile silviculture machine															mobile silviculture machine
crane															crane
conveying machine								1						1	conveying machine
vehicle															vehicle
pressure vessel															pressure vessel
chemical facilities															chemical facilities
welding equipment															welding equipment

kiln, caldron														kiln, caldron
electric equipment														electric
electric equipment														equipment
human power machine,														human power
tools														machine, tools
tools														tools
other equipments,														other
facilities														equipments,
														facilities
temporary buildings,														temporary
establishments														buildings,
														establishments
hazards, harmful														hazards,
substances										1		1	2	harmful
														substances
materials														materials
load														load
natural environment														natural
natural environment														environment
other causal agent														other causal
other causar agent														agent
no causal agent														no causal
nio causai agent														agent
unclassifiable														unclassifiable
	===	 		 	 									

total	1							1	1				1	1				1	1				1	8	total	
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Causal agents (small) of fatal accidents in screw 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																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine
chain saw																									chain saw
other woodworking																									other woodworking
machines																									machines

leveling,															leveling,
transporting or															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	1										1			2	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			1					3	manufacturing
machines															machines

centrifugal machine															centrifugal machine
mixer, grinder															mixer, grinder
roll machine (except printingroll machine)															roll machine (except printingroll machine)
injection molding machine															injection molding machine
food manufacturing machine															food manufacturing machine
printing machine															printing machine
industrial robot															industrial robot
other general power machines															other general power machines
felling machine															felling machine
mobile logging															mobile logging
skyline yarding machine															skyline yarding machine
other mobile silviculture machine															other mobile silviculture machine
crane															crane
mobile crane															mobile crane
derrick crane															derrick crane
elevator, lift															elevator, lift
	11		11	11	1								11		

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														forklift
railway equipment														railway equipment
conveyor														conveyor
loader														loader
straddle carrier														straddle carrier
rough terrain hauler														rough terrain hauler
other powered							1						1	other powered
conveying machines													ı	conveying machines
cars, bus,														cars, bus,
motorcycle														motorcycle
railway vehicle														railway vehicle
other vehicles														other vehicles
boiler														boiler

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

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

<u> </u>	 			4										
inflammable gas														inflammable gas
harmful substance												1	1	harmful substance
radiation														radiation
other hazards,														other hazards,
harmful substances														harmful substances
metal material														metal material
lumber, bamboo														lumber, bamboo
stone, sand,														stone, sand,
substance														substance
other materials														other materials
load														load
machine/equipment														machine/equipment
as load														as load
natural ground,														natural ground,
rock														rock
standing tree														standing tree
water														water
abnormal														abnormal
environment														environment
high/cold														high/cold
temperature														temperature
environment														environment
other environments														other environments
other causal agent														other causal agent

			\Box													
no causal agent																no causal agent
unclassifiable																unclassifiable
total	1				1	1		1	1		1	1		1	8	total

Workers age of fatal accidents in screw 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																									20-29
30-39								1					1	1										3	30-39
40-49	1																							1	40-49
50-59																							1	1	50-59
60 years old or									1									1	1					3	60 years old or
more									•									'	'					-	more
total	1							1	1				1	1				1	1				1	8	total

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

100-299																100-299
300 workers or																300 workers or
more																more
total	1				1	1		1	1		1	1		1	8	total

Month of fatal accidents in screw 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																									January
February								1					1											2	February
March														1					1					2	March
April																							1	1	April
May																									May
June	1																							1	June
July																									July
August																									August
September																									September
October																									October
November																		1						1	November
December									1															1	December
total	1							1	1				1	1				1	1				1	8	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																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima																									Fukushim
Ibaraki																									Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama	1													1										2	Saitama
Chiba																									Chiba
Tokyo																		1					1	2	Tokyo
Kanagawa																									Kanagaw
Niigata																									Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																									Yamanas
Nagano																									Nagano
Gifu																									Gifu

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

Miyazaki																Miyazaki
Kagoshima																Kagoshima
Okinawa																Okinawa
total	1				1	1		1	1		1	1		1	8	total

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

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