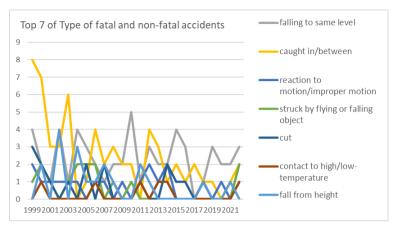
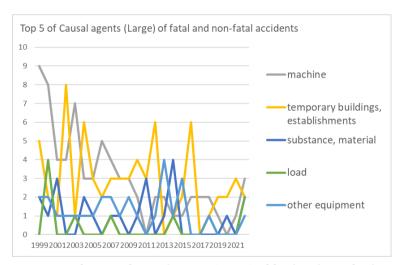
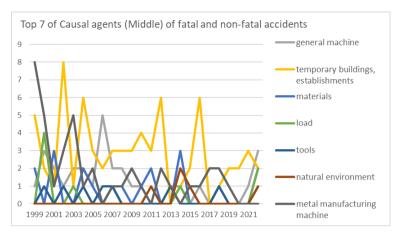
## Transition of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



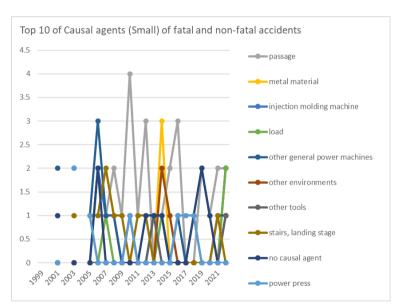
Transition of Top 7 of Type of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



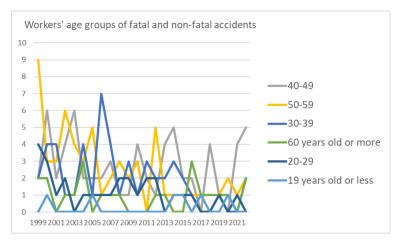
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



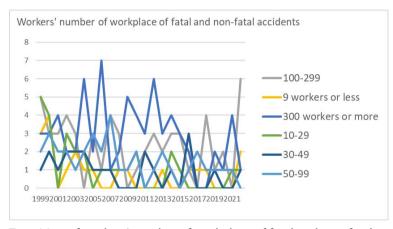
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



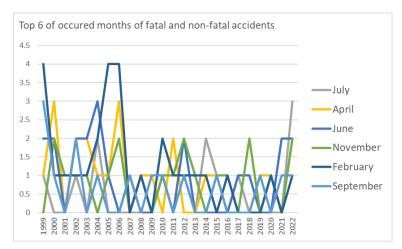
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



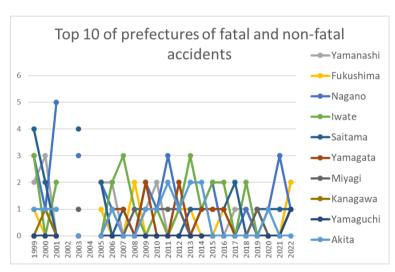
Transition of workers' age groups of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Type of accidents
falling to same level	4	2	1	4	1	4	3	2	1	2	2	5	1	3	2	2	4	3		1	3	2	2	3	57	falling to same level
caught in/between	8	7	3	3	6		1	4	2	3	2	2		4	3	1	2	1	2	1	1		1	2	59	caught

																										in/between
reaction to motion/improper motion	2	1	1	1	1	1		1	1		1		1	2	1	2				1		1		2	20	reaction to motion/improper motion
struck by flying or falling object	1	2	1		1	2	2	2		1		1			1	1				1				2	18	struck by flying or falling object
cut	3	2	1		1		2		2				1			2	1	1		1				1	18	cut
contact to high/low- temperature		1						1					1		1	1								1	6	contact to high/low- temperature
fall from height		2		4		3	1	1	2	1			2	1						1			1		19	fall from height
crash	1		1	2		2			2					1				1			1				11	crash
crashed by		1	1		1	1				1	2							1							8	crashed by
traffic accident (public					1		1					1							1						4	traffic accident (public road)
others								1								1							2		4	others
contact to harmful substance													1			1									2	contact to harmful substance
electric shock									1		1														2	electric shock
collapse			1																						1	collapse
injury to the sole of the foot																		1							1	injury to the sole of the foot
burst																						1			1	burst
fire		1																							1	fire

drown																										drown
explosion																										explosion
traffic accident																										traffic accident
(others)																										(others)
unclassifiable																										unclassifiable
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (L) agents
machine	9	8	4	4	7	3	3	5	4	3	3	2		2	2	1	1	2	2	2	1		1	3	72	machine
temporary buildings, establishments	5	2	1	8	1	6	3	2	3	3	3	4	3	6		1	2	6		1	2	2	3	2	69	temporary buildings, establishments
substance, material	2	1	3			2	1		1	1		1	3		1	4						1		2	23	substance, material
load		4			1				1							1				1				2	10	load
other equipment	2	2	1	1	1	1	1	2	2	1	2	1		1	4	1	3			1				1	28	other equipment
environment													1			2	1							1	5	environment
others			1		1	1	1	2						1	1	1				1	2	1	2		15	others
crane, conveying machine	1	2		1	1		1	1				1		1					1						10	crane, conveying machine

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		Causal (M)
general machine	1	3	2	1	2	2	1	5	2	2	1	1			1	1		1					1	3	30	general machine
temporary buildings, establishments	5	2	1	8	1	6	3	2	3	3	3	4	3	6		1	2	6		1	2	2	3	2	69	temporary buildings, establishments
materials	2		3			2	1		1	1		1	2			3								2	18	materials
load		4			1				1							1				1				2	10	load
tools		1		1		1		1	1						1					1				1	8	tools
natural environment													1			2	1							1	5	natural environment
metal manufacturing machine	8	5	1	3	5	1	2		1	1	2	1		2	1		1	1	2	2	1				40	metal manufacturing machine
human power machine,	1		1				1			1		1		1	2	1	3								12	human power machine, tools
no causal agent			1					2						1	1	1				1	2	1			10	no causal agent
vehicle					1		1					1		1					1						5	vehicle
other equipments,	1				1			1			1				1										5	other equipments,

																			facilities
hazards, harmful substances		1									1	1	1			1		5	hazards, harmful substances
other causal agent					1	1	1										2	5	other causal agent
crane	1	2																3	crane
conveying machine				1				1										2	conveying machine
electric equipment									1	1								2	electric equipment
power transmission mechanism			1															1	power transmission mechanism
woodworking machine									1									1	woodworking machine
kiln, caldron		1																1	kiln, caldron
engine																			engine
construction machine																			construction machine
mobile silviculture																			mobile silviculture machine
pressure vessel																			pressure vessel
chemical facilities																			chemical

																										facilities
wolding aguinment																										welding
welding equipment																										equipment
unclassifiable																										unclassifiable
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (S) agents
passage			1				1	1	1	2	1	4	1	3		1	2	3			2	1	2	2	28	passage
metal material			2				1		1	1		1				3								2	11	metal material
injection molding								2	1	1														2	6	injection molding
load					1				1							1				1				2	6	load
other general power machines			2		2		1	3	1	1		1			1	1		1					1	1	16	other general power machines
other environments																2	1							1	4	other environments
other tools															1									1	2	other tools
stairs, landing stage					1		1	1	2	1	1		1	1									1		10	stairs, landing stage
no causal agent			1					2						1	1	1				1	2	1			10	no causal agent
power press					2		1					1						1	1	1					7	power press
lathe					1		1				2			1			1								6	lathe
other metal manufacturing machines					2					1					1					1					5	other metal manufacturing machines

hand tool		1		1								1		2							5	hand tool
building, establishment								1		1	2				1						5	building, establishment
cars, bus, motorcycle			1	1					1							1					4	cars, bus, motorcycle
other equipment,			1		1			1				1									4	other equipment,
other causal agent			1	1																2	4	other causal agent
grinding machine, buffing machine		1				1					1										3	grinding machine, buffing machine
human power machine							1					1	1								3	human power machine
ladder					1	1											1				3	ladder
working platform,				1											1		1				3	working platform, boot board
harmful substance										1			1						1		3	harmful substance
other materials		1								2											3	other materials
drill press, milling machine																1		1			2	drill press, milling machine
human power hauling equipment									1					1							2	human power hauling equipment
other temporary buildings, establishments															1				1		2	other temporary buildings, establishments
power transmission																						power transmission

mechanism		1													1	mechanism
chamfering machine, router, woodworking milling machine						1									1	chamfering machine, router, woodworking milling machine
mixer, grinder							1								1	mixer, grinder
forklift					1										1	forklift
other vehicles									1						1	other vehicles
transmission						1									1	transmission
electric power facilities							1								1	electric power facilities
human power cranes									1						1	human power
inflammable substance										1					1	inflammable substance
high/cold temperature environment								1							1	high/cold temperature environment
engine																engine
circular sawing machine																circular sawing
band sawing machine																band sawing machine
wood planer machine																wood planer machine

	 	 	 	 	$\Box$	$\Box$	 	 	 	 	 	 $\sqsubseteq$	 	
hollow chisel													h	nollow chisel
mortiser, wood													n	mortiser, wood
borer													b	oorer
chain saw													c	chain saw
other woodworking													o	other woodworking
machines													n	machines
leveling,													le	eveling,
transporting or													tı	ransporting or
loading machine													lo	oading machine
excavating machine													e	excavating machine
foundation work													fo	oundation work
machine													n	machine
hardening machine													h	nardening machine
demolition machine													d	demolition machine
vehicle for high lift													v	ehicle for high lift
work													M	work
other construction													o	other construction
machines													n	machines
forging pressure													fo	orging pressure
hammer													h	nammer
shearing machine													s	hearing machine
centrifugal machine													c	centrifugal machine
roll machine (except													re	oll machine (except
printingroll													р	orintingroll
machine)													n	machine)

<u> </u>		 $\sqsubseteq$	$\square$	$\Box$	$\square$	 $\square$	$\square$	$\square$	إــــــا	$\square$	إــــــا	 $\square$	$\square$	 $\square$	$\sqsubseteq$	 $\sqsubseteq$	_
food manufacturing																	food manufacturing machine
printing machine																	printing machine
industrial robot																	industrial robot
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																	crane
mobile crane																	mobile crane
derrick crane																	derrick crane
elevator, lift																	elevator, lift
cargo lifting appliance																	cargo lifting appliance
gondola																	gondola
lumberyard equipment, logging cableway																	lumberyard equipment, logging cableway
simple skyline yarding equipment																	simple skyline yarding equipment
other powered																	other powered

crane														crane
truck														truck
railway equipment														railway equipment
conveyor														conveyor
loader														loader
straddle carrier														straddle carrier
rough terrain hauler														rough terrain hauler
other powered														other powered
conveying machines														conveying machines
railway vehicle														railway vehicle
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

other electrical											other electrical
equipment											equipment
slinging tool											slinging tool
scaffolding											scaffolding
timbering											timbering
opening											opening
roof, beam, haze,											roof, beam, haze,
crossbeam,											crossbeam,
principal rafter											principal rafter
explosive substance											explosive substance
inflammable gas											inflammable gas
radiation											radiation
other hazards,											other hazards,
harmful substances											harmful substances
lumber, bamboo											lumber, bamboo
stone, sand,											stone, sand,
substance											substance
machine/equipment											machine/equipment
as load											as load
natural ground,											natural ground,
rock											rock
standing tree											standing tree
water											water
abnormal											abnormal
environment											environment

			<u> </u>		<u> </u>		$\Box$			L		L							L					<u> </u>		
unclassifiable																										unclassifiable
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

Transition of workers' age groups of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Age
40-49	2	6	2	4	6	2	2	2	3	1	1	4	2	1	4	5	2	2		4	1		4	5	65	40-49
50-59	9	3	3	6	4	3	5	1	2	3	2	3		5	1	1	1	1	1	1	1	2	1	2	61	50-59
30-39	2	4	4	1	1	4	1	7	4	1	3	1	3	2	2	3	2	1			1			2	49	30-39
60 years old or	2	2		1	1	3		1	1	1				1	1			3	1	1	1	1		2	23	60 years old or
more					•																					more
20-29	4	3	1	2		1	1	1	1	2	2	1	2	2		1	1	1			1		1		28	20-29
19 years old or less		1					1									1	1		1			1			6	19 years old or less
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Workers scale
100-299	5	3	3	4	3		3	1	4	3		1	2	3	2	3	3	1		4	1	2		6	57	100-299
9 workers or less	3	4		1	2	1	1			1	1				1			1	1	1				2	20	9 workers or less
300 workers or more	3	3	4	2	2	6	2	7	1	2	5	4	3	6	3	4	3	2			2	1	4	1	70	300 workers or more
10-29	5	4		3	2	2		1	1	1	1	2				2	1						1	1	27	10-29
30-49	1	2	1	2	2	2	1	1	1				2	1		1		3			1			1	22	30-49
50-99	2	3	2	2	1	2	3	2	4	1	1	2		1	2	1		1	2	1	1	1	1		36	50-99
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

## Transition of occured months of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Month
July	1			1		2						1	1	1		2	1		1					3	14	July
April	1	3		2	2	1	1	3		1	1		2			1	1				1	1		2	23	April
June	2	2		2	2	3	1		1			1		2					1	1			2	2	22	June
November		2	1	1	1		1	2		1		1	1	2	1		1	1		2		1		2	21	November
February	4	1	1	1	1	2	4	4		1		2	1	1	1	1		1				1		1	28	February
September	3	1		2		1			1		1	1		1			1				1		1	1	15	September
January	1				2	1	1	1	2		3			2	1		2	2				1	2		21	January
December	1	3	2	2					1	2	2	2	1		1	2			1		1				21	December
August	1	2		1	1	1	1	2		1			1	1	2	1		2		1					18	August
March	2	1	2	1	1	2			2	2	1							1			1		1		17	March
October	2	2	2				1		2			1			1	3	1	1		1					17	October
May	1	2	2	1	2				2					1	1	1				1	1				15	May
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

## Transition of prefectures of fatal and non-fatal accidents in 011304 watch products in Japan (1999-2022)

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Prefecture
Yamanashi	2	3					2	2			1	2		1					1	1				2	17	Yamanashi
Fukushima	1				1		1			2		1		1	1			1						2	11	Fukushima
Nagano	3	1	5		3		2	1	1		2	1	3	1		1	2			1		1	3	1	32	Nagano
lwate	3		2					2	3	1		1		1	3	1	2	2		2		1	1	1	26	lwate

Saitama	4	2		4	2		1						1	1	1	1	2		1	1	1	1	23	Saitama
Yamagata						1	1		2			2		1	1	1			1			1	11	Yamagata
Miyagi	1	1		1				1	1	1	1	1							1			1	10	Miyagi
Kanagawa		1																				1	2	Kanagawa
Yamaguchi																						1	1	Yamaguchi
Akita	1	1	1			1			1	1	2	1	2	2						1			14	Akita
Ibaraki	1	3	1			1	1	1		1			1			2			1				13	Ibaraki
Tokyo	1	1		2		1					1	2		3									11	Tokyo
Chiba		1			1	1		2	1						1			1	1				9	Chiba
Gifu	1	1					2			1													5	Gifu
Aichi		2			1	1								1									5	Aichi
Hokkaido	1				1			1															3	Hokkaido
Tochigi							1									1		1					3	Tochigi
Niigata		2												1									3	Niigata
Shizuoka				1			1														1		3	Shizuoka
Gunma			1																				1	Gunma
Mie						1																	1	Mie
Kagoshima												1											1	Kagoshima
Aomori																								Aomori
Toyama																								Toyama
Ishikawa																								Ishikawa
Fukui																								Fukui
Shiga																								Shiga

Kyoto																										Kyoto
Osaka																										Osaka
Hyogo																										Hyogo
Nara																										Nara
Wakayama																										Wakayama
Tottori																										Tottori
Shimane																										Shimane
Okayama																										Okayama
Hiroshima																										Hiroshima
Tokushima																										Tokushima
Kagawa																										Kagawa
Ehime																										Ehime
Kochi																										Kochi
Fukuoka																										Fukuoka
Saga																										Saga
Nagasaki																										Nagasaki
Kumamoto																										Kumamoto
Oita																										Oita
Miyazaki																										Miyazaki
Okinawa																										Okinawa
total	19	19	10	14	12	13	10	12	11	8	8	9	7	11	8	11	7	8	3	6	5	4	6	11	232	total

 ${\sf Data\ Source: \underline{https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html\ MHLW, Jaan}}$ 

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