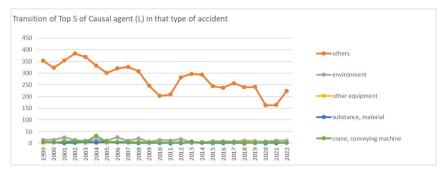
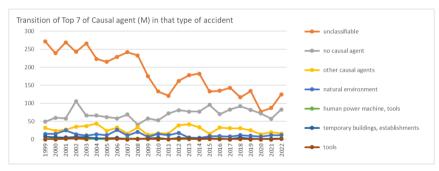
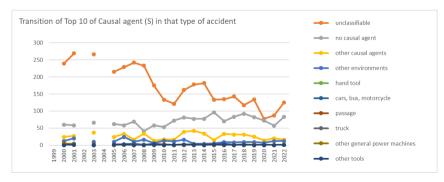
Transition of Causal agent (L, M, S) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (L) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (M) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (S) of fatal & non-fatal accident (unclassifiable) in 1999-2022

Causal agent (L)	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
others	353	323	354	384	369	333	301	320	327	308	246	203	209	282	297	293	244	238	257	240	241	163	164	224	6,673
environment	15	15	25	14	11	14	12	26	11	21	7	15	12	18	5	4	9	9	8	12	10	8	12	12	305
other equipment	3	4	10	7	3	3	3	4	4	6	5	1	2	2	4	2	3	4	2	5	3	1		5	86
substance, material	6	5	1	3	6	4	7	4	4	1	2	1		1	7	2	1	1	3		1		1	3	64
crane, conveying	7	4	8	9	7	32	6	7	7	4	4	3	3	4	3	5	4	5	3	3	1	2	5	2	138
temporary buildings, establishments	8	6	5	7	6	3	3	4		1	3	4	1	4	3	2	3	1	1	5	2	1	2	2	77
machine	5	8	4	6	3	4	5	3	5	3	2	2			2	1	2		1	1	4	1	1	1	64
load	6	4	6	8	2		2	4	2	4	1	1		4		1	3	1		1	4	1	1		56
total	403	369	413	438	407	393	339	372	360	348	270	230	227	315	321	310	269	259	275	267	266	177	186	249	7,463

Transition of Causal agent (M) of fatal & non-fatal accident (unclassifiable) in 1999-2022

Causal agent (M)	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
unclassifiable	272	239	269	243	266	223	215	229	242	233	175	133	121	162	178	182	133	135	143	117	134	77	87	125	4,333
no causal agent	49	60	58	106	66	66	62	58	69	41	58	53	72	81	77	77	96	70	83	92	82	72	57	83	1,688

other causal	32	24	27	35	37	44	24	33	16	34	13	17	16	39	42	34	15	33	31	31	25	14	20	16	652
agents	32	24	27	33	37	44	24	33	10	34	13	17		39	42	34		33	31	31		14			032
natural	15	15	25	14	11	14	12	26	11	21	7	15	12	18	5	4	9	9	8	12	10	8	12	12	305
environment							'-													-					
human power	1	3	5	3	1	2		2	3	2	1				1	1	1	3		2	1	1		3	36
machine, tools															•	<u> </u>	•					•			
temporary																									
buildings,	8	6	5	7	6	3	3	4		1	3	4	1	4	3	2	3	1	1	5	2	1	2	2	77
establishments																									
tools			2	3	1		2	2		2	2	1	1	2	2		2	1		1				2	26
hazards, harmful					1	1	4	1						1	2	1	1	1						2	15
substances							4							•			I	l I							
vehicle	1	1	5	9	5	30	4	3	4	1	4	2	1	2	1	1	1	4	2	1	1	2	4	1	90
materials	6	5	1	3	5	3	3	3	4	1	2	1			5	1			3		1		1	1	49
conveying	6	3	3		2	1	2	3	3	3		1	2	2	2	3	3	1	1	2				1	44
machine									3			ı						ı							
general machine	4	6	1	2			3	1	1		2				1		1		1		2		1	1	27
load	6	4	6	8	2		2	4	2	4	1	1		4		1	3	1		1	4	1	1		56
other equipments,		1	3	1	1		1		1	2	1		1			1			2	2	1				18
facilities			3										1												
metal																									
manufacturing		1	2	2					3	2		1			1	1				1	1				15

machine																					
woodworking machine	1		1	1	2	2	1		1	1											10
construction machine		1		1	1	2	1	2				1				1					10
crane						1		1							1					1	4
welding equipment	2													1							3
engine																		1	1		2
pressure vessel											1							1			2
chemical facilities						1															1
power transmission mechanism																					
mobile silviculture machine																					
kiln, caldron																					
electric equipment																					

Transition of Causal agent (S) of fatal & non-fatal accident (unclassifiable) in 1999-2022

	Causal agent (S)	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
II.																										

unclassifiable	239	269	266	215	229	242	233	175	133	121	162	178	182	133	135	143	117	134	77	87	125	3,595
no causal agent	60	58	66	62	58	69	41	58	53	72	81	77	77	96	70	83	92	82	72	57	83	1,467
other causal agents	24	27	37	24	33	16	34	13	17	16	39	42	34	15	33	31	31	25	14	20	16	541
other environments	12	20	10	10	24	10	16	6	13	11	16	4	4	5	9	8	9	9	7	12	12	227
hand tool	3	5	1		2	3	1	1				1		1	2		2	1			2	25
cars, bus, motorcycle	1	2		1	3	4	1	4	2	1	1		1	1	4	1	1		2		1	31
passage	2	3	3	2	1			1	2		1	2	2		1	1	2	1		1	1	26
truck	2	3	2		2	1	2				2	2	2	3			2				1	24
other general power machines	6	1		2	1	1		2				1		1		1		2		1	1	20
other tools		1		2	2			2		1	2	1		2	1		1				1	16
other materials	1		2	1			1	1				2	1							1	1	11
other temporary buildings, establishments		2			2									1			2	1		1	1	10
ladder		1	1				2		1												1	6
human power hauling equipment							1						1		1				1		1	5
other hazards, harmful substances			1	1										1	1						1	5
inflammable																						

substance					1						1										1	3
load	4	6	2	1	4	2	4	1	1		4		1	3	1		1	3	1	1		40
metal material	3	1	3	2	2	3		1	1			3				2		1				22
high/cold																						
temperature	3	5		2	1	1	1		1	1	1	1		4			1					22
environment																						
other vehicles		3	5	3							1	1				1		1		4		19
other equipments,	1					1		1		1			1									17
facilities	1	3	ľ			I	2	1		1						2	2					17
stairs, landing stage	2		1				1	2	1		2	1					1		1			12
other metal																						
manufacturing						3	2						1				1					7
machines																						
forklift				2		1	1			2					1							7
building,					_						_											
establishment	2																					6
harmful substance				3								2	1									6
grinding machine,																						
buffing machine	1	1							1			ľ						1				5
abnormal							1		1		1						1					
environment							I				I											5
other woodworking																						

machines		1		1		1	1											4
other powered conveying machines	1				1				1					1				4
standing tree			1				1	1								1		4
working platform, boot board			1						1				1					3
lumber, bamboo	1				1									1				3
natural ground, rock					1		2											3
engine															1	1		2
leveling, transporting or loading machine									1				1					2
excavating machine			1	1														2
other construction machines	1				1													2
crane					1												1	2
loader						1						1						2
pressure vessel								1							1			2
scaffolding			1							1								2
machine/equipment				1											1			2

as load															
circular sawing machine			1												1
chain saw			1												1
hardening machine					1										1
lathe		1													1
food manufacturing machine				1											1
mobile crane										1					1
other welding equipment									1						1
slinging tool									1						1
stone, sand, substance						1									1
water												1			1
power transmission mechanism															
band sawing machine															
wood planer machine															
hollow chisel															

mortisers, wood													
borer													
chamfering													
machine, router,													
woodworking													
milling machine													
foundation work													
machine													
demolition machine													
vehicle for high lift													
work													
drill press, milling													
machine													
power press													
forging pressure													
hammer													
shearing machine													
centrifugal machine													
mixer, grinder													
roll machine (except													
printingroll													
machine)													

injection molding													
machine													
printing machine													
industrial robot													
felling machine													
mobile logging machine													
skyline yarding machine													
other mobile silviculture machine													
derrick crane													
elevator, lift													
cargo lifting appliance													
gondola													
lumberyard													
equipment, logging													
cableway													
simple skyline yarding equipment													
other powered													

crane												
railway equipment												
conveyor												
straddle carrier												
rough terrain hauler												
railway vehicle												
boiler												
other pressure vessels												
chemical facilities												
gas welding equipment												
arc welding equipment												
kiln, caldron												
industrial dryer												
other kiln, caldron												
transmission												
electric power												
other electrical equipment												

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human power																			
cranes																			
human power																			
machine																			
timbering																			
opening																			
roof, beam, haze,																			
crossbeam,																			
principal rafter																			
explosive substance																			
inflammable gas																			
radiation																			

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