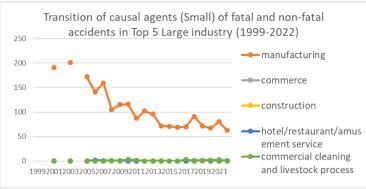
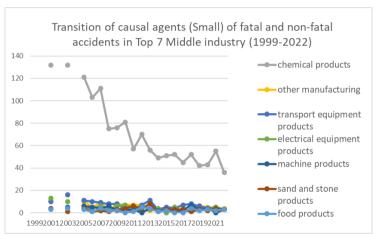
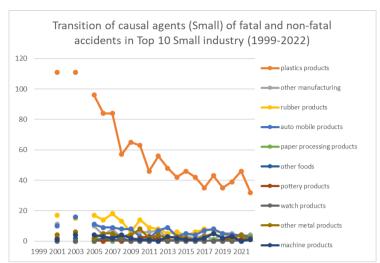
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Large industry (1999-2022)

Tans	ition of causal agents (Small) of fat																									
code	Large industry	1999	2000	2001	2002	2003		$\overline{}$						$\overline{}$				2016	2017	2018	2019	2020	2021	2022	total	Large industry
01	manufacturing			191		201	172	141	159	105	115	116	87	102	96	72	71	69	70	91	72	67	80	63	2,140	manufacturing
08	commerce			1		1	1	2	1	1		1							1	2	2	2	3	1	19	commerce
03	construction					1		1			1	1				1			1					1	7	construction
14	hotel/restaurant/amusement service							2	1	1	1										1			1	7	hotel/restaurant/amusement service
15	commercial cleaning and livestock process									1	1	3	2		1				3	1	1	2	1		16	commercial cleaning and livestock process
17	others					1	1						1	1			1								5	others
06	agriculture			2																1					3	agriculture
04	transportation service										1			1											2	transportation service
12	education/research service								1																1	education/research service
13	health and hygiene service																1								1	health and hygiene service
02	mining																									mining
05	cargo handling service																									cargo handling service
07	livestock/fishery																									livestock/fishery
09	financial business/advertisement																									financial business/advertisement
10	movie/play service																									movie/play service
11	telecommunication service																									telecommunication service
16	public office																									public office
	total			194		204	174	146	162	108	119	121	90	104	97	73	73	69	75	95	76	71	84	66	2,201	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Middle industry (1999-2022)

code Middle industry	1999	2000 2001	2002	2003		005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		Middle industry
0108 chemical products		132		132	1:	21 1	103	111	75	76	81	57	70	56	49	51	52	45	52	42	43	55	36	1,439	chemical products

0117	other manufacturing		11	16	10	5	9	2	8	7	7	7	2	3	4	2	4	1	6	5	4	4	117	other manufacturing
0115	transport equipment products		10	16	11	10	9	8	8	3	2	7	11	3	5	4	7	8	6	4	5	3	140	transport equipment products
0114	electrical equipment products		13	10	4	4	6	2	6	7	4	1	3	4		5	1	2	3	3	5	3	86	electrical equipment products
0113	machine products		4	5	6	5	4	6	2	3	3		4	2	2	1	2	7	3	4		3	66	machine products
0109	sand and stone products		4	1	4	1	2	1	3	4	6	4	8	1	3	3	3	1	3	2	4	3	61	sand and stone products
0101	food products		3	4	3	1	4	2	2		1	5	4	1	2			4	2	3	2	3	46	food products
	pulp/paper processing products		2	3	2	1	3		1	1				1				1	1			3	19	pulp/paper processing products
0112	metal products		5	8	2	6	6	4	4	9	2	4	2	4	3	1	4	5	2	2	5	2	80	metal products
	nonferrous metal making		3	5	4	3	4	5	2	1	2	2	4	2	1		2	5	2			1	48	nonferrous metal making
	printing/bookbinding		1			1			1									1	1	1		1	7	printing/bookbinding
0801	wholesale						1										1	1	1		2	1	7	wholesale
1402	restaurant					1	1	1	1										1			1	6	restaurant
0104	wood products										1			1				1				1	4	wood products
0302	construction work			1										1			1					1	4	construction work
0110	steel making		2	1	2		1		1		1	1		1		1	2	3					16	steel making
1501	commercial cleaning and livestock process							1	1	3	2		1				3	1	1	2	1		16	commercial cleaning and livestock process
0802	retail		1	1	1	2		1										1	1	2	1		11	retail
0103	fiber products		1		2	1			1		1	1											7	fiber products
1702	others				1						1	1			1								4	others
0102	textile products				1								2										3	textile products
0303	other construction works					1			1														2	other construction works
0403	road cargo transportation service								1			1											2	road cargo transportation service
0601	agriculture		2																				2	agriculture
0105	furniture																		1				1	furniture
0301	civil engineering work									1													1	civil engineering work
0602	forestry																	1					1	forestry
0804	other commerce									1													1	other commerce
1201	education/research service						1																1	education/research service
1302	social welfare facility														1								1	social welfare facility
1401	hotel					1	ĺ						i	Ī									1	hotel
1701	dispatch service			1																			1	dispatch service
0116	electric/gas/water service																							electric/gas/water service
0201	coal mining																							coal mining
0202	quarrying																							quarrying

0203	other mining																							other mining
0401	railroad/water transportation/airline service																							railroad/water transportation/airline service
0402	road passenger transport service																							road passenger transport service
0404	other transportation service																							other transportation service
0501	land cargo handling service																							land cargo handling service
0502	harbor transportation service																							harbor transportation service
0701	livestock																							livestock
0702	fishery																							fishery
0803	haircut/beauty salon																							haircut/beauty salon
0901	financial business																							financial business
0902	advertisement and mediator																							advertisement and mediator
1001	movie/play service																							movie/play service
1101	telecommunication service																							telecommunication service
1301	medical treatment service																							medical treatment service
1303	other health and hygiene service																							other health and hygiene service
1403	other amusement service																							other amusement service
1601	public office																							public office
	total		194	204	174	146	162	108	119	121	90	104	97	73	73	69	75	95	76	71	84	66	2,201	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Small industry (1999-2022)

code	Small industry	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	Small industry
	plastics products			111		111	=	96	84	84	57	65	63	46	56	-	42	46	42	35	43	35		46	32		plastics products
011709	other manufacturing			11		15		10	4	8	2	5	6	6	7	2	3	3	2	4	1	5	5	3	4	106	other manufacturing
010806	rubber products			17		15		17	14	18	13	6	14	9	8	5	6	4	6	8	7	5	2	4	3	181	rubber products
011502	auto mobile products			10		16		11	9	9	8	8	3	2	7	9	3	5	4	7	8	5	4	4	3	135	auto mobile products
010602	paper processing products			1				2	1			1					1				1	1			3	11	paper processing products
010109	other foods			1		2		1	1	3	2				2		1	1				1	2	1	2	20	other foods
010903	pottery products			2						1			2	3	1	1		2	1				2	1	2	18	pottery products
011304	watch products								2	1	1														2	6	watch products
011209	other metal products			4		6		2	5	5	3	4	8	2	4	2	3	2	1	3	5	2	2	4	1	68	other metal products
011301	machine products			1		4		4	3	2	4	2	1	1		3	2	1	1	2	5	2	3		1	42	machine products
	electronics equipment and telecommunications apparatus			1		2		1	3	1		4	2	2	1		1		3			2	1	2	1	27	electronics equipment and telecommunications apparatus

010901 cement products	1	1	2		1	1		1	1		4	1					2		2	1	18	cement products
011402 electrical appliance	2	2	1	1	1		2	1		Ti-	2	1			İ	1		1		1	16	electrical appliance
011109 other nonferrous metal products		1	2								1	1					1			1	7	other nonferrous metal products
080109 other wholesale		$\overline{\Box}$			1										1	1	1		2	1	7	other wholesale
010102 fishery products	1		1		1											2				1	6	fishery products
010807 leather products	1		1	1							1								1	1	6	leather products
140201 general restaurant				1	1	1	1										1			1	6	general restaurant
010409 other lumber and wood products									1			1								1	3	other lumber and wood products
011401 heavy electrical equipment	1							1												1	3	heavy electrical equipment
011202 screw products	1																			1	2	screw products
030209 other building construction work															1					1	2	other building construction work
010702 bookbinding																				1	1	bookbinding
011409 other electrical equipment	9	6	2		4	2		3	2		1	2		2	1	1	1	1	3		40	other electrical equipment
010899 other chemical products	1	2	3	2	6	3	3	4	1	2	2			2	2	1		1	2		37	other chemical products
011102 nonferrous metals casting products	3	3	2	3	4	5	2	1	1	2	2		1		2	5					36	nonferrous metals casting products
010801 non organic or organic chemical products		1	2	1	2	1	1		1	3			1	1			1	1	1		17	non organic or organic chemical products
011002 casting products	2	1	2		1		1			1		1			2	3					14	casting products
011305 other precision machine products	2	1	1		1	1		2	1		1		1				1	1			13	other precision machine products
150102 industrial waste management service						1	1	3	1		1				2		1		1		11	industrial waste management service
010106 soft drinks	1	1	1							1	1		1			1	1	1	1		10	soft drinks
010909 other sand and stone products			1	1			2	1	1				1	1		1					9	other sand and stone products
010104 bread/cake products							1		1	2	3					1					8	bread/cake products
010804 petroleum/coal products	1	2	1		1		1									1	1				8	petroleum/coal products
010309 other fiber products			2	1			1		1	1											6	other fiber products
010904 fire resisting products	1									2	1				1		1				6	fire resisting products
011203 metal press products		1		1				1				1	1		1						6	metal press products
080209 other retails				1		1										1	1	2			6	other retails
010609 other pulp/paper processing products		2			2			1													5	other pulp/paper processing products
010902 glass products			1								1			1	1				1		5	glass products
010905 other ceramic products							1		1	1	1				1						5	other ceramic products
011101 nonferrous metals/rolling products		1							1		1	1					1				5	nonferrous metals/rolling products
011703 cleaning		1					1						1				1		1		5	cleaning
080201 all kinds of retail	1	1	1	1															1		5	all kinds of retail
010809 chemical fertilizer products		1	1	1															1		4	chemical fertilizer products

011509 other transport equipment products							1							1						1		1		4	other transport equipment products
011702 machine repair							1	1		1		1												4	machine repair
150103 other waste disposal service																		1	1		2			4	other waste disposal service
170209 others						1						1	1			1								4	others
010601 pulp/paper		1		1				1																3	pulp/paper
010701 printing service		1																		1	1			3	printing service
010709 other printing and bookbinding							1			1									1					3	other printing and bookbinding
010803 pharmaceuticals		1											1		1									3	pharmaceuticals
011204 metal plating products				1					1													1		3	metal plating products
011302 measuring instruments						1						1							1					3	measuring instruments
010101 meat/dairy products				1						1														2	meat/dairy products
010209 other textile products						1								1										2	other textile products
010808 painting products									1								1							2	painting products
011303 optical instruments		1																	1					2	optical instruments
011701 auto mobile servicing										1	1													2	auto mobile servicing
030302 machinery/apparatus setting work							1			1														2	machinery/apparatus setting work
040301 general truck transportation service										1			1											2	general truck transportation service
060101 agriculture		2																						2	agriculture
010203 weaving														1										1	weaving
010301 over/under wear		1																						1	over/under wear
010402 plywood												İ							1					1	plywood
010501 wood furniture								İ	İ			İ				一				1				1	wood furniture
011001 steel/iron/rolling products								İ	İ			1												1	steel/iron/rolling products
011009 other steel products										İ	İ	İ					1							1	other steel products
011201 western tableware/cutting tool products								1																1	western tableware/cutting tool products
011501 ship building														1										1	ship building
030199 other civil engineering work											1													1	other civil engineering work
030202 wooden house construction work				1																				1	wooden house construction work
030203 building facility construction work															1									1	building facility construction work
060201 lumbering																			1					1	lumbering
080409 other commerce											1													1	other commerce
other education/research service								1																1	other education/research service
130201 social welfare facility																1								1	social welfare facility
140101 hotel	Ti						1									一								1	hotel
150101 building maintenance service	Ti-										ĺ	1				$\Box$	$\Box$							1	building maintenance service
170101 dispatch service				1		i		i		i	i					$\overline{\Box}$						Ī		1	dispatch service
			ii	i	i	i	i	i	i	i	i	i	i			=	$\equiv$		i		1	i	7	i	i

010103 agricultural food products																				agricultural food products
010105 alcoholic drinks										$\Box$				i				i		alcoholic drinks
010201 silk-reeling			Ti			Ti				$\overline{}$		i						Ĭ		silk-reeling
010202 cotton-spinning						i												j		cotton-spinning
010204 dyeing										П										dyeing
010401 lumbering	Ti-					T i	$\equiv$		$\Box$	П										lumbering
010502 metal furniture	Ti								$\Box$	П										metal furniture
010503 fittings										Н										fittings
010509 other furniture										H										other furniture
010802 chemical fiber										H										chemical fiber
011503 railway vehicle products		<del></del>								$\vdash$										railway vehicle products
011601 electric utility service		<del></del>								Н										electric utility service
011602 city gas service	<del></del>									H	$\vdash$							<del> </del>	= -	city gas service
011603 city water service		<del></del>		<del></del>			=		H	H	$\vdash$						<del></del>		= -	city water service
011609 other electric/gas/water										H									= -	other electric/gas/water
011609 service																				service
011704 tobacco products			Ti			Ti				$\Box$		i				i		Ĭ		tobacco products
020101 general coal mining						Ti				$\overline{}$								Ĭ		general coal mining
020109 other coal mining						Ti														other coal mining
020201 quarrying	Ti		i		Ti-	i				$\Box$			j	Ti-		i		Ti-		quarrying
020202 gravel digging	Ti		i		Ti	i				$\Box$						i				gravel digging
020209 other quarrying						Ti-												Ĭ		other quarrying
020301 metal mining	T				i					一										metal mining
020302 petroleum mining	Ti		i		T i	i				$\Box$			j	i		i				petroleum mining
020309 other mining	Ti		i			Ti				$\overline{}$		i				i		Ĭ		other mining
030101 hydroelectric plant construction work																				hydroelectric plant construction work
030102 tunnel construction work					Ti-	i				一						Ti				tunnel construction work
030103 subway construction work	i									П										subway construction work
030104 railway construction work		Ti		Ti-						П									= -	railway construction work
030105 bridge construction work		Ti-	i	Ti-	Ti-	Ti				H	H				$\equiv$		Ti-		= -	bridge construction work
030106 road construction work		Ti-					$\overline{}$			H	$\Box$									road construction work
030107 river civil engineering work							$\overline{}$			H										river civil engineering work
030108 sand collapse prevention civil engineering work																				sand collapse prevention civil engineering work
030109 land consolidation civil engineering work																				land consolidation civil engineering work
030110 water supply/sewage construction work																				water supply/sewage construction work
030111 port/seaside construction work																				port/seaside construction work
steel frame/reinforced concrete house construction work																				steel frame/reinforced concrete house construction work

030301 electricity/telecommunication work											electricity/telecommunication work
030309 other construction works											other construction works
040101 railroad service											railroad service
040102 water transportation service											water transportation service
040103 airline service											airline service
040201 taxi service											taxi service
040202 bus service											bus service
040209 other passenger transport service											other passenger transport service
040302 specific truck transportation service											specific truck transportation service
040303 cargo/ light automobile transportation service											cargo/ light automobile transportation service
040309 other land cargo transportation service											other land cargo transportation service
040409 other transportation service											other transportation service
050101 land cargo handling service											land cargo handling service
050201 general harbor transportation service											general harbor transportation service
050202 port cargo handling service											port cargo handling service
050209 other harbor transportation service											other harbor transportation service
060209 other forestry											other forestry
070101 livestock											livestock
070201 fishery											fishery
070209 other fishery											other fishery
080101 all kinds of wholesale											all kinds of wholesale
080102 furniture/fittings wholesale											furniture/fittings wholesale
080202 auto mobile retail											auto mobile retail
080203 furniture/fittings retail											furniture/fittings retail
080204 fuel retail											fuel retail
080205 newspaper retail											newspaper retail
080301 haircut											haircut
080302 beauty salon											beauty salon
080401 warehousing											warehousing
090101 banking/trust business											banking/trust business
090102 stock/commodity trade business											stock/commodity trade business
090103 insurance business											insurance business
090109 other financial business											other financial business
090201 traveling service											traveling service
090209 other advertisement and mediator											other advertisement and mediator

100101	movie production and delivery service																							movie production and delivery service
100102	movie theatre																							movie theatre
100109	other movie/play service																							other movie/play service
110101	telecommunication service																							telecommunication service
120101	auto mobile practical training																							auto mobile practical training
120102	software service																							software service
130101	hospital																							hospital
130102	general clinic																							general clinic
130109	other medical treatment service																							other medical treatment service
130301	bathhouse																							bathhouse
130309	other health and hygiene service																							other health and hygiene service
140209	other restaurants																							other restaurants
140301	golf course																							golf course
140302	park and amusement park																							park and amusement park
140309	other amusement service																							other amusement service
150104	cremation service																							cremation service
150105	livestock process service																							livestock process service
150109	other cleaning and livestock process service																							other cleaning and livestock process service
160101	public office																							public office
170201	security service																							security service
170202	information processing service																							information processing service
	total		194	204	174	146	162	108	119	121	90	104	97	73	73	69	75	95	76	71	84	66	2,201	total

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

https://www.jisha.or.jp/english/statistics/202311\_12.html