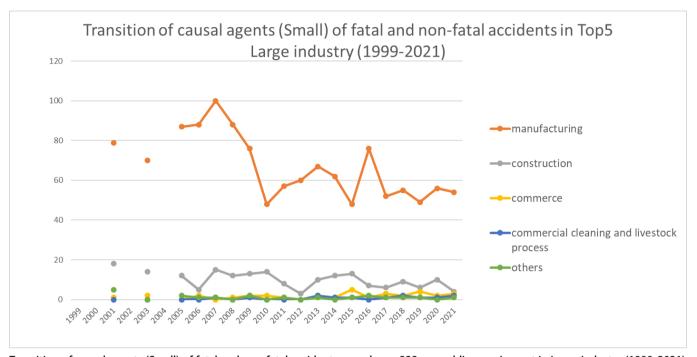
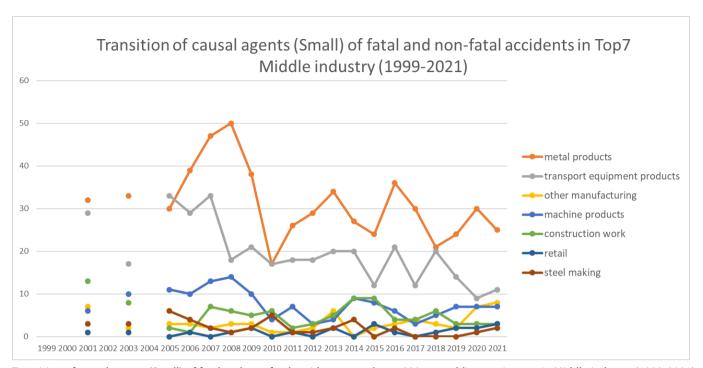
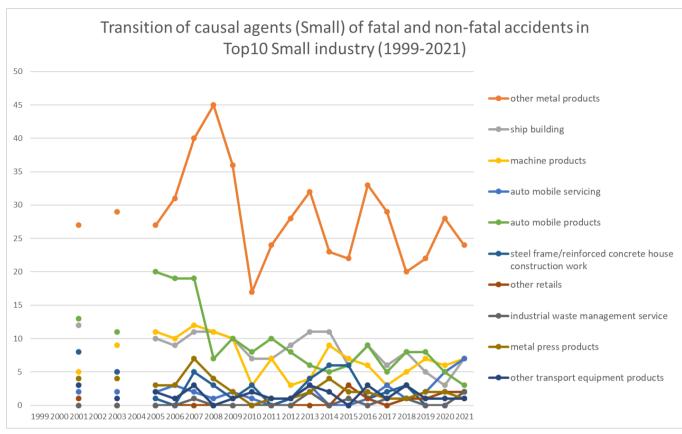
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Large industry (1999-2021)

code	Large industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Large industry
01	manufacturing			79		70		87	88	100	88	76	48	57	60	67	62	48	76	52	55	49	56	54	1,272	manufacturing
03	construction			18		14		12	5	15	12	13	14	8	3	10	12	13	7	6	9	6	10	4	191	construction
08	commerce			1		2			2		1	2	2	1		2	1	5	1	3	2	4	2	3	34	commerce
15	commercial cleaning and livestock process									1		1				2	1	1		1	2	1	1	2	13	commercial cleaning and livestock process
17	others			5				2	1	1		2		1		1		1	2	1	1	1		1	20	others
07	livestock/fishery					1						1	1	1		2					1			1	8	livestock/fishery
02	mining			1					1															1	3	mining

04	transportation service		1				3	1	1		1	1		2	1			2	1			14	transportation service
05	cargo handling service													1					2			3	cargo handling service
14	hotel/restaurant/amusement		2		1																	3	hotel/restaurant/amusement
	service																					11 -	service
06	agriculture																	1				1	agriculture
13	health and hygiene service															1						1	health and hygiene service
09	financial																						financial
09	business/advertisement																						business/advertisement
10	movie/play service																						movie/play service
11	telecommunication service																						telecommunication service
12	education/research service																						education/research service
16	public office																						public office
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	1,563	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Middle industry (1999-2021)

code	Middle industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Middle industry
0112	metal products			32		33		30	39	47	50	38	17	26	29	34	27	24	36	30	21	24	30	25	592	metal products
0115	transport equipment products			29		17		33	29	33	18	21	17	18	18	20	20	12	21	12	20	14	9	11	372	transport equipment products
0117	other manufacturing			7		2		3	3	2	3	3	1	1	2	6		2	3	4	3	2	7	8	62	other manufacturing
0113	machine products			6		10		11	10	13	14	10	4	7	3	4	9	8	6	3	5	7	7	7	144	machine products
0302	construction work			13		8		2	1	7	6	5	6	2	3	5	9	9	4	4	6	3	3	3	99	construction work
0802	retail			1		1			1		1	2		1		2		3	1		1	2	2	3	21	retail
0110	steel making			3		3		6	4	2	1	2	5	1	1	2	4		2				1	2	39	steel making
1501	commercial cleaning and livestock process									1		1				2	1	1		1	2	1	1	2	13	commercial cleaning and livestock process

0303	other construction works		4	4	7	2	3	5	8	6	6		5	2	2	3	1	1	2	2	1	64	other construction works
0114	electrical equipment products			1		1	2	1		1	2	3	1	1		1	1	1			1	17	electrical equipment products
1702	others		4		2	1	1		1		1				1	2		1			1	15	others
0701	livestock			1					1	1			2					1			1	7	livestock
0202	quarrying		1			1															1	3	quarrying
0301	civil engineering work		1	2	3	2	5	1		2				1	2		1	2	1	5		28	civil engineering work
0109	sand and stone products		1	1	2	1		1	1	1	1	1		1	1	1		2	1	1		17	sand and stone products
0403	road cargo transportation service		1				3		1			1		1	1			2				10	road cargo transportation service
0108	chemical products				1					1						2		3				7	chemical products
0801	wholesale					1				2				1			2		1			7	wholesale
0101	food products		1	1			1		1		1	1										6	food products
0111	nonferrous metal making			1								1				4						6	nonferrous metal
0804	other commerce			1											2		1	1	1			6	other commerce
1701	dispatch service		1						1				1				1		1			5	dispatch service
0102	textile products			1															1	1		3	textile products
0104	wood products											1					2					3	wood products
0105	furniture					1				1					1							3	furniture
0402	road passenger transport service							1			1								1			3	road passenger transport service
0501	land cargo handling service													1					2			3	land cargo handling service
1403	other amusement service		2		1																	3	other amusement

														service
0107	printing/bookbinding			1									1	printing/bookbinding
0401	railroad/water transportation/airline service								1				1	railroad/water transportation/airline service
0601	agriculture										1		1	agriculture
0702	fishery						1						1	fishery
1301	medical treatment service									1			1	medical treatment service
0103	fiber products													fiber products
0106	pulp/paper processing products													pulp/paper processing products
0116	electric/gas/water service													electric/gas/water service
0201	coal mining													coal mining
0203	other mining													other mining
0404	other transportation service													other transportation service
0502	harbor transportation service													harbor transportation service
0602	forestry													forestry
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
1201	education/research service																						education/research
1201	education/research service																						service
1302	social welfare facility																						social welfare facility
1202	other health and hygiene service																						other health and
1303	other neath and hygiene service																						hygiene service
1401	hotel																						hotel
1402	restaurant																						restaurant
1601	public office																						public office
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	1,563	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Small industry (1999-2021)

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	total	Small industry
011209	other metal products			27		29		27	31	40	45	36	17	24	28	32	23	22	33	29	20	22	28	24	537	other metal products
011501	ship building			12		5		10	9	11	11	10	7	7	9	11	11	6	9	6	8	5	3	7	157	ship building
011301	machine products			5		9		11	10	12	11	10	3	7	3	4	9	7	6	3	5	7	6	7	135	machine products
011701	auto mobile servicing			2		2		2	3	2	1	2	1		1	3			1	3	1	2	5	7	38	auto mobile servicing
011502	auto mobile products			13		11		20	19	19	7	10	8	10	8	6	5	6	9	5	8	8	5	3	180	auto mobile products
	steel frame/reinforced																									steel frame/reinforced
030201	concrete house construction			8		5		1		5	3	1	3		1	4	6	6	1	2	3			2	51	concrete house construction
	work																									work
080209	other retails			1														3	1		1	1	2	2	11	other retails
150102	industrial waste management									1						2		1		1	1			2	8	industrial waste management
11	service																									service
011203	metal press products			4		4		3	3	7	4	2		1	1	2	4	2	2	1	1	2	2	1	46	metal press products
011509	other transport equipment			3		1		2	1	3		1	2	1	1	3	2		3	1	3	1	1	1	30	other transport equipment

	products																						products
030209	other building construction work		2	1		1	1	2	1	2	1	2		2	3	1	1	1	1	2	1	25	other building construction work
030309	other construction works			4	1		1	3	4	1	1		1	1	2	1	1		1	1	1	24	other construction works
011009	other steel products		2	2	3	1				3				2		1					1	15	other steel products
170209	others		4		2	1	1		1		1				1	2		1			1	15	others
011702	machine repair		4		1			1	1				2		1	2				1	1	14	machine repair
080202	auto mobile retail			1		1		1	2		1		1						1		1	9	auto mobile retail
011002	casting products		1	1	1		1		1		1					1					1	8	casting products
070101	livestock			1					1	1			2					1			1	7	livestock
020201	quarrying		1			1															1	3	quarrying
	electronics equipment and telecommunications apparatus																				1	1	electronics equipment and telecommunications apparatus
030302	machinery/apparatus setting work		2		4	1	1	1	3	5	4		3			2			1	1		28	machinery/apparatus setting work
030203	building facility construction work		2	2	1		1	1	3	1	1			1		1	1	2	1	1		19	building facility construction work
011001	steel/iron/rolling products				2	3	1	1	1	2		1	2	2						1		16	steel/iron/rolling products
030199	other civil engineering work		1		2		4	1		1					2		1			2		14	other civil engineering work
010901	cement products				2	1		1	1	1		1		1		1		2	1			12	cement products
030301	electricity/telecommunication work		2		2	1	1	1	1		1		1	1				1				12	electricity/telecommunication work
040301	general truck transportation service		1				3		1			1		1	1			2				10	general truck transportation service
011709	other manufacturing		1					1			1		1		1		1	2		1		9	other manufacturing
011409	other electrical equipment					1	1				1	3				1		1				8	other electrical equipment

011305	other precision machine products		1	1			1	2							1					1	7	other precision machine products
080109	other wholesale					1				2				1			2		1		7	other wholesale
080409	other commerce			1											2		1	1	1		6	other commerce
011204	metal plating products		1			4															5	metal plating products
011401	heavy electrical equipment						1	1		1	1			1							5	heavy electrical equipment
011503	railway vehicle products		1		1									2				1			5	railway vehicle products
170101	dispatch service		1						1				1				1		1		5	dispatch service
010805	plastics products				1											1		2			4	plastics products
011109	other nonferrous metal products											1				3					4	other nonferrous metal products
011202	screw products					1		1			1					1					4	screw products
030202	wooden house construction work		1										1			1			1		4	wooden house construction work
010109	other foods						1		1		1										3	other foods
010909	other sand and stone products			1							1				1						3	other sand and stone products
011402	electrical appliance			1									1				1				3	electrical appliance
030109	land consolidation civil engineering work						1			1								1			3	land consolidation civil engineering work
050101	land cargo handling service													1					2		3	land cargo handling service
010209	other textile products																		1	1	2	other textile products
010402	plywood																2				2	plywood
010502	metal furniture									1					1						2	metal furniture
010899	other chemical products									1								1			2	other chemical products
011102	nonferrous metals casting products			1												1					2	nonferrous metals casting products

030101	hydroelectric plant construction work														2	2	hydroelectric plant construction work
030110	water supply/sewage construction work					1									1	2	water supply/sewage construction work
030111	port/seaside construction work				1	1										2	port/seaside construction work
040202	bus service								1					1		2	bus service
140301	golf course		1		1											2	golf course
150103	other waste disposal service												1	1		2	other waste disposal service
150109	other cleaning and livestock process service										1				1	2	other cleaning and livestock process service
010102	fishery products									1						1	fishery products
010103	agricultural food products		1													1	agricultural food products
010105	alcoholic drinks			1												1	alcoholic drinks
010204	dyeing			1												1	dyeing
010401	lumbering									1						1	lumbering
010509	other furniture					1										1	other furniture
010701	printing service				1											1	printing service
010809	chemical fertilizer products											1				1	chemical fertilizer products
010902	glass products														1	1	glass products
010903	pottery products		1													1	pottery products
011302	measuring instruments							1								1	measuring instruments
011303	optical instruments						1									1	optical instruments
011703	cleaning									1						1	cleaning
030102	tunnel construction work			1												1	tunnel construction work
030104	railway construction work													1		1	railway construction work
030105	bridge construction work												1			1	bridge construction work

030106	road construction work			1																1	road construction work
030107	river civil engineering work												1							1	river civil engineering work
040102	water transportation service												1							1	water transportation service
040201	taxi service							1												1	taxi service
060101	agriculture																1			1	agriculture
070209	other fishery									1										1	other fishery
080204	fuel retail											1								1	fuel retail
130101	hospital														1					1	hospital
140309	other amusement service		1																	1	other amusement service
150101	building maintenance service								1											1	building maintenance service
010101	meat/dairy products																				meat/dairy products
010104	bread/cake products																				bread/cake products
010106	soft drinks																				soft drinks
010201	silk-reeling																				silk-reeling
010202	cotton-spinning																				cotton-spinning
010203	weaving																				weaving
010301	over/under wear																				over/under wear
010309	other fiber products																				other fiber products
010409	other lumber and wood																				other lumber and wood
010103	products																				products
010501	wood furniture																				wood furniture
010503	fittings																				fittings
010601	pulp/paper																				pulp/paper
010602	paper processing products																				paper processing products
010609	other pulp/paper processing																				other pulp/paper processing
3.3003	products																				products
							I							I				l			1

010702	bookbinding													bookbinding
010709	other printing and bookbinding													other printing and bookbinding
010801	non organic or organic chemical products													non organic or organic
010802	chemical fiber													chemical fiber
010803	pharmaceuticals													pharmaceuticals
010804	petroleum/coal products													petroleum/coal products
010806	rubber products													rubber products
010807	leather products													leather products
010808	painting products													painting products
010904	fire resisting products													fire resisting products
010905	other ceramic products													other ceramic products
011101	nonferrous metals/rolling products													nonferrous metals/rolling products
011201	western tableware/cutting tool products													western tableware/cutting tool products
011304	watch products													watch products
011601	electric utility service													electric utility service
011602	city gas service													city gas service
011603	city water service													city water service
011609	other electric/gas/water service													other electric/gas/water service
011704	tobacco products													tobacco products
020101	general coal mining													general coal mining
020109	other coal mining													other coal mining
020202	gravel digging													gravel digging
			 		 	 	 $\overline{}$		 	 	 	 		

020209	other quarrying													other quarrying
020301	metal mining													metal mining
020302	petroleum mining													petroleum mining
020309	other mining													other mining
030103	subway construction work													subway construction work
030108	sand collapse prevention civil													sand collapse prevention civil
	engineering work													engineering work
040101	railroad service													railroad service
040103	airline service													airline service
040209	other passenger transport service													other passenger transport service
040302	specific truck transportation service													specific truck transportation service
040303	cargo/ light automobile													cargo/ light automobile
	transportation service													transportation service
040309	other land cargo transportation service													other land cargo transportation service
040409	other transportation service													other transportation service
050201	general harbor transportation													general harbor transportation service
050202	port cargo handling service													port cargo handling service
050209	other harbor transportation service													other harbor transportation service
060201	lumbering													lumbering
060209	other forestry													other forestry
070201	fishery													fishery
080101	all kinds of wholesale													all kinds of wholesale
								i i				T)		

080102	furniture/fittings wholesale													furniture/fittings wholesale
080201	all kinds of retail													all kinds of retail
080203	furniture/fittings retail													furniture/fittings 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													stock/commodity trade
090102	business													business
090103	insurance business													insurance business
090109	other financial business													other financial business
090201	traveling service													traveling service
090209	other advertisement and													other advertisement and
050205	mediator													mediator
100101	movie production and													movie production and
	delivery service													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
120109	other education/research													other education/research
120103	service													service
130102	general clinic													general clinic
130109	other medical treatment													other medical treatment
	service													service

130201	social welfare facility																						social welfare facility
130301	bathhouse																						bathhouse
130309	other health and hygiene service																						other health and hygiene service
140101	hotel																						hotel
140201	general restaurant																						general restaurant
140209	other restaurants																						other restaurants
140302	park and amusement park																						park and amusement park
150104	cremation service																						cremation service
150105	livestock process service																						livestock process service
160101	public office																						public office
170201	security service																						security service
170202	information processing																						information processing
	service																						service
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	1,563	total

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

https://www.jisha.or.jp/english/statistics/202212_03.html