		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	90	99	00
ode	small causal agents	fall from height	falling to same level	crash	struck by flying or falling object	collapse	crashed by	caught in/between	cut	injury to the sole of the foot	drown	contact to high/low- temperature	contact to harmful substance	electric shock	explosion	burst	fire		traffic accident (others)	reaction to motion/improper motion	others	unclassifiable	to
	engine																						0
121	power transmission mechanism							1															1
131	circular sawing machine																						0
32	band sawing machine																						0
133	wood planer machine																						0
134	hollow chisel mortiser, wood borer																						0
35	chamfering machine, router, woodworking milling machine																						0
36	chain saw																						0
139	other woodworking machines																						0
141	leveling, transporting or loading machine																						0
42	excavating machine																						0
143	foundation work machine																						0
44	hardening machine																						0
45	demolition machine																						0
140	vehicle for high lift work																						0
149	other construction machines																						0
	lathe																						0
	drill press, milling machine																						0
153	grinding machine, buffing machine																						0
54	power press						1																1
155	forging pressure																						0

## Relation between small causal agents and type of Fatal accidents in code no. 11102 nonferrous metals casting products as small industry in 1999-2020

	hammer															
156	shearing machine															0
159	other metal manufacturing machines						4									4
161	centrifugal machine															0
162	mixer, grinder															0
163	roll machine (except printingroll machine)															0
164	injection molding machine						5									5
	food manufacturing machine															0
166	printing machine															0
	industrial robot					1	2									3
169	other general power machines						6									6
	felling machine															0
	mobile logging machine															0
<u> </u>	skyline yarding machine															0
179	other mobile silviculture machine															0
211	crane															0
212	mobile crane															0
213	derrick crane															0
	elevator, lift															0
	cargo lifting appliance															0
216	gondola															0
217	lumberyard equipment, logging cableway															0
218	simple skyline yarding equipment															0
219	other powered crane															0
221	truck											2	2			2
222	forklift		1													1
223	railway equipment															0
224	conveyor						1									1
225	loader															0

226	straddle carrier														0
227	rough terrain hauler														0
229	other powered conveying machines														0
231	cars, bus, motorcycle														0
	railway vehicle														0
	other vehicles														0
	boiler														0
312	pressure vessel														0
319	other pressure vessels														0
321	chemical facilities														0
331	gas welding equipment														0
332	arc welding equipment														0
220	other welding equipment														0
	kiln, caldron														0
342	industrial dryer														0
349	other kiln, caldron														0
351	transmission														0
352	electric power facilities														0
359	other electrical equipment														0
361	human power cranes														0
362	human power hauling equipment					1									1
363	human power machine														0
364	hand tool														0
	ladder	1													1
372	slinging tool														0
379	other tools														0
391	other equipments, facilities														0
411	scaffolding														0
	timbering														0
	stairs, landing stage														0
	opening														0
	roof, beam, haze,														

415	crossbeam, principal rafter																						0
416	working platform, boot board																						0
	passage																						0
418	building, establishment	1																					1
419	other temporary buildings, establishments		1																				1
511	explosive substance																						0
512	inflammable substance																1						1
513	inflammable gas																1						1
514	harmful substance																						0
515	radiation																						0
519	other hazards, harmful substances																						0
521	metal material				1																		1
522	lumber, bamboo																						0
523	stone, sand, substance																						0
529	other materials																						0
	load																						0
612	machine/equipment as load																						0
711	natural ground, rock																						0
712	standing tree																						0
713	water																						0
714	abnormal environment																						0
715	high/cold temperature environment																						0
719	other environments																						0
911	other causal agent																						0
921	no causal agent																						0
999	unclassifiable																						0
000	total	2	2	0	1	0	3	19	0	0	0	0	0	0	0	0	2	2	0	0	0	0	31

Data of 2011 year do not include Industrial accidents caused by Great East Japan Earthquake in 2011.

Data sources: <u>https://anzeninfo.mhlw.go.jp/anzen\_pg/SIB\_FND.aspx</u> (MHLW, Japan)