Fatal and non-fatal accidents in metal press products in Japan in 1999-2022

metal press products industry Code No.011203

Type of accidents in metal press products in 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
fall from height	22	34	26	28	33	37	19	30	27	31	23	18	24	19	18	16	21	16	18	26	20	20	24	23	573
falling to same level	37	26	34	47	30	41	34	44	36	39	27	23	28	45	33	30	33	36	27	41	30	33	50	46	850
crash	20	20	18	16	20	18	12	16	13	19	14	9	11	7	11	11	19	15	15	10	15	10	23	7	349
struck by flying or falling object	82	88	82	89	70	85	65	79	75	59	38	46	38	55	35	51	44	50	56	53	45	36	42	42	1,405
collapse	21	34	18	26	18	27	19	25	35	20	16	17	12	13	12	12	18	19	13	5	18	10	9	17	434
crashed by	26	24	21	21	20	28	24	21	21	17	14	15	15	12	13	17	14	10	13	19	16	18	12	18	429
caught in/between	597	622	481	439	432	463	419	368	353	302	212	254	239	256	213	263	230	198	202	216	200	179	181	196	7,515
cut	50	62	52	46	48	49	48	47	49	42	28	30	21	22	30	35	20	26	31	31	39	28	24	26	884
injury to the sole of the foot			2	1		2	1		1	1								1	1			1	1		12
drown																			1						1
contact to high/low-	4	5	6	5	5	2	4	5	3	3	2	4	3	2	3	3	4	2	4	5	5	2	3	5	89

temperature																									
contact to harmful substance	1	1	5	3	3					1		1	3	2	2		2	1	2		3	1	1		32
electric shock	1		3											1	2	1							2	1	11
explosion		1								1								1					1		4
burst	1		2			1	1			1		1					1								8
fire	1				2	1			1	1					3			1					2	1	13
traffic accident (public road)	14	1	7	3		4	1	5	5	5	1	2	3		3		2	5	1	2	1		2	1	68
traffic accident (others)	1								1										1						3
reaction to motion/improper motion	26	37	37	32	21	32	34	27	35	34	25	32	18	20	23	30	15	20	32	29	29	14	26	22	650
others	2	1	1		3	3		1		1	1				1	4	3	2	1	2	3	1	42	1	73
unclassifiable			1		1		1	1	1		1			1	1		2		1						11
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Causal agents (large) of fatal and non-fatal accidents in metal press products in 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
machine	570	611	455	408	411	449	381	358	339	278	186	238	221	238	207	251	233	179	181	190	178	159	168	169	7,058

crane, conveying machine	67	54	52	40	39	55	48	42	49	40	39	30	24	31	27	31	27	37	32	30	40	29	43	29	935
other equipment	81	87	88	77	81	71	59	75	73	89	55	52	58	61	38	67	53	62	65	63	61	47	59	70	1,592
temporary buildings, establishments	40	32	32	42	38	46	33	44	28	39	25	24	28	34	28	22	32	35	30	32	30	30	46	49	819
substance, material	115	114	122	148	99	132	109	108	117	86	72	81	61	59	71	61	58	59	75	77	84	63	52	58	2,081
load	22	38	25	26	19	23	36	24	28	31	14	18	13	14	13	20	10	14	17	18	9	10	20	15	477
environment			1	1	2	2	1	1	2	1			1	2	4	4	3	3	3	9	2	7	3	3	55
others	11	20	21	14	17	15	15	17	20	13	11	9	9	16	15	17	12	14	16	20	20	8	54	13	397
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Causal agents (middle) of fatal and non-fatal accidents in metal press products in 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	total
engine							1																		1
power transmission mechanism	1		1	4	2	2	1	2	2		1	2		3	1	1	4	3	1	4		1	1	2	39
woodworking machine	4	1	3	4	1	1	2		4	2	1	2		1		2		1	1		3	1	2		36

construction machine					1									1		1			1		1				5
metal manufacturing machine	536	586	427	370	386	408	356	333	321	255	171	215	213	223	198	233	212	167	160	172	151	150	153	151	6,547
general machine	29	24	24	30	21	38	21	23	12	21	13	19	8	10	8	14	17	8	18	14	23	7	12	16	430
mobile silviculture machine																									
crane	14	7	7	10	14	15	12	15	15	10	9	9	5	9	7	10	6	9	11	7	13	7	11	8	240
conveying machine	45	47	38	26	25	36	35	24	30	23	27	19	16	22	19	21	20	27	21	21	26	22	29	21	640
vehicle	8		7	4		4	1	3	4	7	3	2	3		1		1	1		2	1		3		55
pressure vessel		1	1							1															3
chemical facilities												1													1
welding equipment	14	20	18	15	15	10	11	13	13	16	10	8	5	11	5	21	6	13	6	15	13	10	8	17	293
kiln, caldron		1	1						1		2		1	1		2			1	1					11
electric equipment			1		1	1	1	1		1				3				2		1		1		1	14
human power machine, tools	29	28	25	25	28	26	17	25	23	30	13	21	13	22	11	18	16	15	30	14	19	14	17	23	502
tools	30	32	33	30	33	32	21	33	29	31	26	16	30	20	16	18	30	23	21	27	19	18	25	22	615
other equipments,	8	5	9	7	4	2	9	3	7	10	4	6	9	4	6	8	1	9	7	5	10	4	9	7	153

facilities																									
temporary buildings, establishments	40	32	32	42	38	46	33	44	28	39	25	24	28	34	28	22	32	35	30	32	30	30	46	49	819
hazards, harmful substances	4	2	6	4	7	2		1	1	3		2	4	2	3		3	2	3	1	4	1	4		59
materials	111	112	116	144	92	130	109	107	116	83	72	79	57	57	68	61	55	57	72	76	80	62	48	58	2,022
load	22	38	25	26	19	23	36	24	28	31	14	18	13	14	13	20	10	14	17	18	9	10	20	15	477
natural environment			1	1	2	2	1	1	2	1			1	2	4	4	3	3	3	9	2	7	3	3	55
other causal agent	1	7	5	1	1	3	3	2	3	3			2	3	4	3	4	2	4	1	4		42		98
no causal agent	10	12	15	13	15	12	11	15	16	9	10	9	7	13	11	14	6	12	11	18	16	8	12	13	288
unclassifiable		1	1		1		1		1	1	1						2		1	1					11
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Causal agents (small) of fatal and non-fatal accidents in metal press products in 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
engine							1																		1
power transmission mechanism			1		2		1	2	2		1	2		3	1	1	4	3	1	4		1	1	2	32
circular sawing			3		1		1		2	1	1	2		1		1		1	1		3	1	1		20

machine																									
band sawing machine																							1		1
wood planer machine																									
hollow chisel mortiser, wood borer									1							1									2
chamfering machine, router, woodworking milling machine										1															1
chain saw																									
other woodworking machines							1		1																2
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																			1						1
hardening machine																1					1				2
demolition machine														1											1

vehicle for high lift work																									
other construction machines					1																				1
lathe			9		9		5	7	6	4	6	1	9	8	4	1	3	8	2	3	5	4	6	1	101
drill press, milling machine			23		10		14	16	18	14	11	16	12	10	13	15	8	15	4	12	8	9	8	9	245
grinding machine, buffing machine			15		12		9	16	14	9	5	12	5	3	10	14	8	8	4	4	11	5	5	9	178
power press			334		303		285	251	233	197	127	159	159	174	156	170	155	113	118	123	99	103	104	108	3,471
forging pressure hammer			1				1			1			1			1	1		1			2	1		10
shearing machine			5		10		4	4	10	6	5	6	3	5	2	2	5	4	4	4	2	1		5	87
other metal manufacturing machines			40		42		38	39	40	24	17	21	24	23	13	30	32	19	27	26	26	26	29	19	555
centrifugal machine												1					1				1			1	4
mixer, grinder											1									1					2
roll machine (except printingroll machine)			5		5		6	4	6	4	3	2	2	3	1	4		1	6	3	2	3	1	2	63
injection molding																									

machine					1			1				1				1	1		1						6
food manufacturing machine												1													1
printing machine								1															1		2
industrial robot			1							2										1					4
other general power machines			18		15		15	17	6	15	9	14	6	7	7	9	15	7	11	9	20	4	10	13	227
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			7		14		12	12	14	10	8	9	4	9	7	7	6	8	11	7	12	7	11	7	182
mobile crane									1									1							2
derrick crane																									
elevator, lift								3					1			2					1				7
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane											1					1								1	3
truck			10		10		6	6	8	7	9	3	3	10	10	4	9	8	5	6	1	6	8	6	135
forklift			19		12		22	15	18	11	16	14	12	9	8	14	8	14	12	12	19	12	13	11	271
railway equipment																						1		1	2
conveyor			6		2		5	3	3	3	2	1	1	2		2	2	2	3	2	4	3	5	3	54
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			3		1		2		1	2		1		1	1	1	1	3	1	1	2		3		24
cars, bus, motorcycle			7				1	3	4	7	3	2	3		1		1	1		2	1		3		39
railway vehicle																									
other vehicles																									
boiler																									
pressure vessel			1																						1

other pressure vessels										1															1
chemical facilities												1													1
gas welding equipment							1	1		1	1						1	1		2	1			1	10
arc welding equipment			4		4		3	3	7	4	2		1	1	2	4	2	2	1	1	2	2	1	2	48
other welding equipment			14		11		7	9	6	11	7	8	4	10	3	17	3	10	5	12	10	8	7	14	176
kiln, caldron			1								1		1	1					1	1					6
industrial dryer									1		1					1									3
other kiln, caldron																1									1
transmission					1		1							2				1		1		1		1	8
electric power facilities			1											1				1							3
other electrical equipment								1		1															2
human power cranes							1	2	1			1		1		1	1		2		4	4	1	2	21
human power hauling equipment			10		13		10	12	16	13	7	14	9	15	7	8	9	10	15	8	10	4	11	10	211
human power			5		6			2		4	1	1		1	1		1	1	2	2	1	2	2	3	35

machine																									
hand tool			10		9		6	9	6	13	5	5	4	5	3	9	5	4	11	4	4	4	3	8	127
ladder			10		14		3	9	8	12	9	5	8	6	4		7	7	6	7	6	9	5	4	139
slinging tool			6		5		2	8	8	4	6	2	6	3	1	6	7	4	4	7		1	6	4	90
other tools			17		14		16	16	13	15	11	9	16	11	11	12	16	12	11	13	13	8	14	14	262
other equipment, facilities			9		4		9	3	7	10	4	6	9	4	6	8	1	9	7	5	10	4	9	7	131
scaffolding							1		2	1			1	1									1	1	8
timbering																									
stairs, landing stage			4		7		2	5	8	10	7	7	2	6	3	4	6	5	8	8	8	4	7	6	117
opening					1			1		1			3					1		1	1	2			11
roof, beam, haze, crossbeam, principal rafter			1					1		1		1		1				1	1	1	2	1			11
working platform, boot board			3		8		8	6	4	4	2	3	3	4	3	3	5	7	2	3	2	1	3	3	77
passage			16		13		13	22	12	15	12	10	16	18	16	11	14	10	15	17	12	17	31	27	317
building, establishment			6		4		6	7	2	6	2	2	2	2	4	3	2	4	2	1	1	5	1	4	66
other temporary buildings, establishments			2		5		3	2		1	2	1	1	2	2	1	5	7	2	1	4		3	8	52

explosive substance										1															1
inflammable substance					2			1	1	1					2		2	1					2		12
inflammable gas																									
harmful substance			5		3					1		2	3	1	1				1		2	1	1		21
radiation																									
other hazards, harmful substances			1		2								1	1			1	1	2	1	2		1		13
metal material			113		85		104	101	108	79	65	73	57	54	60	59	55	56	71	70	74	59	42	55	1,440
lumber, bamboo			3		4		1	2	4	2	3	3			4	1				4	1		3	1	36
stone, sand, substance																			1				1		2
other materials					3		4	4	4	2	4	3		3	4	1		1		2	5	3	2	2	47
load			17		15		28	19	20	31	12	12	10	11	10	19	9	11	16	13	7	7	16	11	294
machine/equipment as load			8		4		8	5	8		2	6	3	3	3	1	1	3	1	5	2	3	4	4	74
natural ground, rock																1				2		1	1		5
standing tree																	1	1							2
water					1																				1
abnormal environment																						1			1

high/cold temperature environment			1				1		2	1					2	1			1	2	1	2			14
other environments					1			1					1	2	2	2	2	2	2	5	1	3	2	3	29
other causal agent			5		1		3	2	3	3			2	3	4	3	4	2	4	1	4		42		86
no causal agent			15		15		11	15	16	9	10	9	7	13	11	14	6	12	11	18	16	8	12	13	241
unclassifiable			1		1		1		1	1	1						2		1	1					10
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Workers age of fatal and non-fatal accidents in metal press products in 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
19 years old or less	32	32	33	28	32	39	23	21	14	17	7	10	10	14	8	14	11	5	5	6	12	6	5	7	391
20-29	127	162	158	130	130	141	124	131	91	84	64	73	68	70	75	69	73	69	65	69	58	53	64	75	2,223
30-39	137	167	123	136	125	146	130	121	130	118	76	96	80	83	67	93	94	78	76	72	75	67	81	62	2,433
40-49	190	166	133	126	102	127	114	109	108	107	71	84	85	115	88	113	86	94	100	96	112	81	95	81	2,583
50-59	267	281	237	220	201	218	166	169	174	126	87	97	77	89	65	73	77	66	76	99	84	66	121	92	3,228
60 years old or more	153	148	112	116	116	122	125	118	139	125	97	92	95	84	100	111	87	91	97	97	83	80	79	89	2,556
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Workers' number of workplace of fatal and non-fatal accidents in metal press products in 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
9 workers or less	361	388	297	287	248	286	238	223	205	180	126	122	139	130	120	133	124	112	103	97	83	79	68	85	4,234
10-29	295	313	267	245	224	249	231	214	220	182	135	159	128	158	145	151	137	123	133	142	118	106	131	123	4,329
30-49	129	128	90	105	106	130	108	104	111	114	60	72	66	71	46	79	71	65	80	93	100	81	89	79	2,177
50-99	83	80	95	85	78	86	68	68	68	64	42	54	49	50	53	64	56	55	53	55	68	45	68	61	1,548
100-299	34	39	40	27	46	38	32	49	46	36	34	32	28	34	33	43	36	43	44	47	44	35	74	51	965
300 workers or more	4	8	7	7	4	4	5	11	6	1	5	13	5	12	6	3	4	5	6	5	11	7	15	7	161
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Month of fatal and non-fatal accidents in metal press products in 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
January	76	64	54	52	60	73	44	60	55	47	23	35	33	31	27	33	41	32	36	35	38	38	60	35	1,082
February	82	71	89	63	53	68	62	54	57	53	34	37	32	32	31	44	30	39	37	45	37	28	28	36	1,142
March	96	84	88	58	79	73	61	63	55	55	38	42	23	49	31	41	33	38	28	26	33	27	39	29	1,189
April	80	88	60	67	42	68	51	56	43	46	35	31	24	43	41	41	37	28	36	43	32	26	34	33	1,085
May	64	77	67	71	63	48	54	57	58	45	28	44	36	49	32	38	44	34	39	38	30	26	26	26	1,094
June	82	78	57	65	68	72	67	60	47	55	36	45	40	33	35	47	40	40	39	31	42	30	36	36	1,181
July	81	98	80	77	56	58	74	36	74	56	45	37	50	33	48	35	39	35	38	50	38	31	37	46	1,252

August	71	75	56	55	62	66	71	64	60	51	25	38	46	42	21	43	23	38	29	45	32	25	46	32	1,116
September	81	89	74	73	64	71	61	61	53	44	33	47	38	42	48	42	40	29	41	37	29	17	40	36	1,190
October	62	85	62	63	56	68	47	55	51	47	35	30	22	38	28	41	44	28	33	36	43	38	36	36	1,084
November	68	79	53	61	51	71	50	60	50	43	39	29	43	24	36	25	33	34	26	23	35	35	32	33	1,033
December	63	68	56	51	52	57	40	43	53	35	31	37	28	39	25	43	24	28	37	30	35	32	31	28	966
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Prefecture of fatal and non-fatal accidents in metal press products in 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
Hokkaido	8	2	2		7		6	5	3	1	4	1	3	2	1		1	3	1	2	1	1	3		57
Aomori	2		1		1		1	1	2	1	1	1					2		1		1	1		1	17
Iwate	10	2	4		2		1	2	2	3	2	2	2	1	1	4	1	4	4		3	1	3	3	57
Miyagi	5	6	3		3		2	3	3			3		4		2	2	3		2	1	3	3	1	49
Akita	1	2	1		1		1	3	1	5	2	1	2	4	1		1		1	3		1		1	32
Yamagata	4	7	6		10		4	6	3	2	2	1	2	2	3	2	1	3	2	5	2	1	4		72
Fukushima	14	11	10		11		3	16	11	13	4	10	7	6	10	7	6	10	4	7	6	11	7	7	191
Ibaraki	42	56	49		26		18	17	21	21	11	21	25	11	15	22	16	16	24	14	16	21	19	16	497
Tochigi	18	21	17		14		11	9	6	7	8	9	6	3	6	6	8	8	3	7	8	8	4	8	195
Gunma	29	44	29		17		36	29	30	30	16	21	23	17	13	30	17	19	21	15	15	10	18	25	504
Saitama	60	75	64		47		33	42	41	37	35	27	20	30	20	25	29	15	26	24	14	15	25	12	716

Chiba	31	29	23		23		29	24	17	18	17	11	12	11	13	13	17	18	21	22	10	6	37	14	416
Tokyo	99	98	51		68		60	68	61	42	28	27	39	31	29	23	26	19	26	26	21	25	29	26	922
Kanagawa	42	42	26		19		22	16	25	19	10	14	12	16	13	15	14	6	9	12	5	6	12	12	367
Niigata	54	57	48		55		36	37	37	28	24	43	25	36	30	31	29	26	26	28	38	32	34	36	790
Toyama	10	2	10		9		10	8	7	5	4	7	3	4	5	2	9	7	4	3	2	6	9	10	136
Ishikawa	5	7	10		4		9	6	3	7	2	2	4	2	4	2	3	5	2	7	4	1	3	1	93
Fukui	1		1				2							2	3	1	3	1		1	2				17
Yamanashi	7	15	10		5		4	1	5	5		5	3	2	1	2	2	3	2	7	7		1	4	91
Nagano	12	14	23		26		19	21	26	18	9	15	7	7	15	15	17	19	14	11	13	12	9	13	335
Gifu	20	15	24		18		10	13	10	14	11	15	9	7	13	13	3	9	10	8	9	3	9	14	257
Shizuoka	54	50	25		43		29	33	45	36	16	20	21	25	37	37	31	29	26	33	32	27	25	33	707
Aichi	79	91	93		80		97	76	73	73	52	54	58	55	46	69	57	56	59	62	60	51	48	58	1,447
Mie	15	9	10		10		9	9	10	5	2	5	6	6	4	1	7	2	5	12	7	4	8	18	164
Shiga	13	21	10		8		11	16	17	10	4	3	3	10	8	7	5	4	9	6	9	3	8	3	188
Kyoto	4	7	4		9		8	9	10	8	8	5	5	3	2	4	7	8	4	2	5	7	4	3	126
Osaka	145	153	139		83		126	125	100	97	68	74	59	87	67	86	67	62	59	42	57	50	43	47	1,836
Hyogo	32	41	29		39		18	22	15	14	14	17	14	16	13	9	14	4	7	19	17	10	20	11	395
Nara	8	7	12		15		21	11	16	9	12	9	9	10	5	10	6	12	5	10	10	7	11	5	220
Wakayama	6	2	5		1			2	3	4	1	1	1	4		3	2	3	3	3	2	1	3	2	52
Tottori		3	1		4		1		1	3	2		1	3		1	2		3	3	2		3		33
Shimane	4	5	1		1			1	2	3				1		1		2	2		3		1	1	28

Okayama	8	8	10		8		9	11	7	4	5	4	5	9	2	7	6	4	7	4	1	6	6	3	134
Hiroshima	13	7	9		7		9	8	10	6	4	6	5	7	9	4	4	10	4	13	10	4	20	2	171
Yamaguchi		4	1				2	3	3	1			1	1	2		1							1	20
Tokushima	3	4	5		2		3	1	2	2	2	2	1		1	2	1	2	2	3	5	2		5	50
Kagawa	5	5	3		3		5	3	4	4	3	4	2	3		3	4	2	3	4	5	2	4	2	73
Ehime											2			1					1	1					5
Kochi	3	2	1		2		2	1		4				2		1			1	3	4			2	28
Fukuoka	30	27	17		18		9	6	16	12	7	6	11	9	9	11	5	7	13	7	12	10	9	4	255
Saga	2		2		2		1	2			1		1	1	2	1			3	1			1		20
Nagasaki	1	2							1	2		1	1								1	1	1		11
Kumamoto	4	2	2		3		3	2	4	2	6	3	5	1			1	1	1	2	1	1		2	46
Oita	2	1	2		1									1						2					9
Miyazaki	1		2													1	1								5
Kagoshima			1		1		1	1	3		1	2	2	1				1		2	3	2	1		22
Okinawa							1			2	2			1					1	1		1			9
total	906	956	796	756	706	793	682	669	656	577	402	452	415	455	403	473	428	403	419	439	424	353	445	406	13,414

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in metal press products in Japan in 1999-2022

metal press products industry Code No.011203

Type of fatal accidents in metal press products in 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
fall from height		1			1											1									3
falling to same level																	1					1			2
crash																									
struck by flying or falling object	2			1	1	1									1						1	1			8
collapse				1	1																				2
crashed by																					1				1
caught in/between	1	2	2	2		1		2		1	1	1	1	1	1	1					1	1			19
cut																									
injury to the sole of the foot																									
drown																									

contact to high/low-temperature							1	1																	2
contact to harmful substance	1			1									1												3
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)	3		1																				1		5
traffic accident (others)																									
reaction to motion/improper motion																									
others																				2			1		3
unclassifiable																									
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Causal agents (large) of fatal accidents in metal press products in 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

machine	3	2		2	1	1		1		1	1		1	1	1	1						1			17
crane, conveying machine	3		3	1	1	1		1				1									2	1	1		15
other equipment					1																1				2
temporary buildings, establishments		1															1					1			3
substance, material	1			2				1					1		1										6
load																1									1
environment							1																		1
others																				2			1		3
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Causal agents (middle) of fatal accidents in metal press products in 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	total
engine																									
power transmission mechanism																									
woodworking machine																									
construction machine																									

metal manufacturing machine	3	2		2	1	1		1		1			1	1	1	1						1			16
general machine											1														1
mobile silviculture machine																									
crane						1		1													1				3
conveying machine	1		2	1	1							1									1	1	1		9
vehicle	2		1																						3
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																					1				1
tools					1																				1
other equipments, facilities																									
temporary buildings, establishments		1															1					1			3
hazards, harmful substances	1			1				1					1												4

materials				1											1										2
load																1									1
natural environment							1																		1
other causal agent																				1			1		2
no causal agent																				1					1
unclassifiable																									
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Causal agents (small) of fatal accidents in metal press products in 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
engine																									
power transmission mechanism																									
circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									

chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe	1									1			1			1									4
drill press, milling machine																									
grinding machine,				1																					1

buffing machine																									
power press	2	1				1								1	1							1			7
forging pressure hammer																									
shearing machine		1																							1
other metal manufacturing machines				1	1			1																	3
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines											1														1
felling machine																									
mobile logging																									

machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																					1				1
mobile crane																									
derrick crane																									
elevator, lift								1																	1
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane						1																			1
truck	1																						1		2
forklift			1		1							1										1			4
railway equipment																									
conveyor																									

loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1	1																	1				3
cars, bus, motorcycle	2		1																						3
railway vehicle																									
other vehicles																									
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									

transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																					1				1
human power machine																									
hand tool																									
ladder					1																				1
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze,																									

crossbeam, principal rafter																									
working platform, boot board																	1								1
passage																						1			1
building, establishment																									
other temporary buildings, establishments		1																							1
explosive substance																									
inflammable substance								1																	1
inflammable gas																									
harmful substance	1			1									1												3
radiation																									
other hazards, harmful substances																									
metal material				1											1										2
lumber, bamboo																									
stone, sand, substance																									

other materials																									
load																1									1
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water																									
abnormal environment																									
high/cold temperature environment							1																		1
other environments																									
other causal agent																				1			1		2
no causal agent																				1					1
unclassifiable																									
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Workers age of fatal accidents in metal press products in 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
19 years old or less																					1				1

20-29	1		1	1		1				1				1											6
30-39	3	1		1				1					1									1			8
40-49	1				1		1					1			1	1					1				7
50-59		2		1	1			2			1				1					1					9
60 years old or more	2		2	2	1	1							1			1	1			1	1	2	2		17
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Workers' number of workplace of fatal accidents in metal press products in 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
9 workers or less	2	1	1		1	1	1	1							1					1			1		11
10-29	2	2		3		1						1	1			2						1			13
30-49	1			1				1		1	1		1		1		1			1	1	2			12
50-99	2		1		1									1							1				6
100-299					1			1													1		1		4
300 workers or more			1	1																					2
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Month of fatal accidents in metal press products in 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
January					1	1										1				1			1		5

February	2	1		1																					4
March		1						2			1		1												5
April								1		1				1							1				4
May			1		1																		1		3
June	3	1		2			1						1												8
July	1															1					1	2			5
August						1																			1
September				1											1		1			1					4
October			2	1	1							1			1						1				7
November																						1			1
December	1																								1
total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

Prefecture of fatal accidents in metal press products in 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
Hokkaido																									
Aomori																									
Iwate																									
Miyagi																									
Akita																									

Yamagata																									
Fukushima	1																				1				2
Ibaraki																									
Tochigi						1																			1
Gunma	1														1										2
Saitama				1																	1				2
Chiba							1																1		2
Tokyo	1												1							1					3
Kanagawa																									
Niigata	1			1							1														3
Toyama			1																						1
Ishikawa				1																					1
Fukui																									
Yamanashi																				1					1
Nagano			1																						1
Gifu					1																				1
Shizuoka		1														1	1					1			4
Aichi			1	2				1													1	1			6
Mie																									
Shiga		1						1																	2
Kyoto																									

Osaka					1			1				1		1								1			5
Hyogo		1			1																		1		3
Nara						1										1									2
Wakayama	2																								2
Tottori																									
Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi															1										1
Tokushima										1															1
Kagawa																									
Ehime																									
Kochi																									
Fukuoka													1												1
Saga																									
Nagasaki	1																								1
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									

total	7	3	3	5	3	2	1	3		1	1	1	2	1	2	2	1			2	3	3	2		48

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

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