

Fatal and non-fatal accidents in printing/bookbinding in Japan in 1999-2022

printing/bookbinding industry Code No.0107

Type of accidents in printing/bookbinding 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	51	54	78	85	61	58	56	53	60	62	60	36	51	44	45	38	46	49	44	38	48	46	55	55	1,273
falling to same level	97	97	109	71	87	99	79	106	86	79	95	70	72	90	83	90	69	73	80	90	68	83	74	90	2,037
crash	31	40	36	24	36	44	33	26	30	22	28	23	28	16	14	28	17	20	16	25	21	24	27	16	625
struck by flying or falling object	31	34	23	32	20	36	36	27	25	24	25	21	18	16	16	23	19	14	12	22	16	7	17	11	525
collapse	7	15	10	10	9	9	9	11	11	11	10	9	7	7	11	5	9	11	4	10	12	8	10	4	219
crashed by	29	27	27	16	22	17	17	23	18	22	18	18	11	17	7	16	12	12	13	8	14	12	15	11	402
caught in/between	589	593	516	520	456	466	449	410	368	389	340	312	302	259	258	261	237	208	215	214	184	197	183	182	8,108
cut	68	75	83	64	60	60	46	59	56	50	53	51	37	31	33	25	34	30	29	32	32	37	35	29	1,109
injury to the sole of the foot			2	1	1					1						2		2				1		1	11
drown							1						3												4
contact to high/low-	6	7	4	7	3	5	2	3	3	2	4	9	5	2	1	2		2	3	4	7	4	1	3	89

temperature																									
contact to harmful substance	4		5	5	1	4	2	1	1	2	2	3	4	2	1	1	3		3	1	1	6	2	2	56
electric shock		2	2			1	1	1		2	1	1			1										12
explosion					1								1												2
burst				1					2							1									4
fire		1	2		1	1	1								2	1	1							1	11
traffic accident (public road)	30	30	18	19	16	15	15	21	11	8	16	9	16	7	17	6	9	6	3	5	3	6	10	6	302
traffic accident (others)	2			1						1	1										1				6
reaction to motion/improper motion	84	66	81	74	66	64	59	64	84	70	53	54	51	59	46	45	39	25	62	65	53	46	49	63	1,422
others	3	1	1	1	3	3	3	3	1		2	1	4	2	1	1	6	1	5	1	3	10	16	2	74
unclassifiable	2	2	1	3	1	1	1	2	3	1				1		1				1	1			1	22
total	1,034	1,044	998	934	844	883	810	810	759	746	708	617	610	553	536	546	501	453	489	516	464	487	494	477	16,313

Causal agents (large) of fatal and non-fatal accidents in printing/bookbinding 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	627	610	552	551	475	509	455	429	413	408	380	344	320	276	273	264	235	226	218	224	192	214	202	188	8,585

construction machine												1							1					2	
metal manufacturing machine	43	28	24	15	29	19	23	26	30	17	18	23	17	7	8	17	19	12	10	12	5	15	12	12	441
general machine	564	571	514	522	438	480	423	400	379	379	351	314	300	260	260	244	213	211	204	206	178	194	186	169	7,960
mobile silviculture machine																					1				1
crane	5	5	7	3	5	8	8	1	7	4	7	4	1	4	3	3	4		2	2	2	4	3	2	94
conveying machine	56	62	46	62	56	45	64	55	43	64	41	32	38	41	26	33	50	25	40	35	23	18	32	34	1,021
vehicle	29	31	19	20	19	20	15	22	10	12	18	10	16	8	18	8	11	7	6	4	7	7	9	6	332
pressure vessel	1						1																		2
chemical facilities																									
welding equipment			1			1	1									1					1				5
kiln, caldron	1	1	1	1	1	1														1		1	2		10
electric equipment	1		1	1			1	1			2	1					1		2	1	1		1	2	16
human power machine, tools	37	36	48	28	30	35	25	27	28	22	24	36	17	22	19	28	13	23	17	23	26	21	21	21	627
tools	29	32	52	40	39	36	39	43	41	34	35	29	41	22	29	31	32	31	25	23	28	34	37	35	817
other equipments,	16	18	16	9	11	14	12	15	8	11	9	8	6	12	12	9	7	6	9	6	12	12	7	4	249

facilities																									
temporary buildings, establishments	102	102	113	96	97	100	93	99	97	86	95	65	74	93	80	88	76	82	86	94	83	80	89	102	2,172
hazards, harmful substances	6	3	8	6	3	4	4	3	2	1	2	5	5	2	4	2	5		4	1	1	7	2	2	82
materials	33	48	36	24	26	42	26	31	26	26	25	26	26	21	18	17	19	16	15	15	19	14	20	14	583
load	57	46	57	53	44	34	29	42	56	41	39	28	31	23	25	31	26	26	30	44	33	29	33	29	886
natural environment	2	6	8	7	3	2	2	5	1	4	7	6	7	2	4	6	3	4	2	10	7	10	4	10	122
other causal agent	4	13	6	4	6	5	7	10	3	4	4		7	3	6	5	4	2	6	7	4	9	21	4	144
no causal agent	25	28	26	26	29	25	27	26	22	28	19	22	21	22	18	19	15	5	26	25	24	27	11	23	539
unclassifiable	3	3	1	3		2	1	1	2	1	1	1		2	1	1			1		2			1	27
total	1,034	1,044	998	934	844	883	810	810	759	746	708	617	610	553	536	546	501	453	489	516	464	487	494	477	16,313

Causal agents (small) of fatal and non-fatal accidents in printing/bookbinding 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			8		5		8	3	4	10	7	7	2	7	5	2	3	2	4	4	5	4	3	5	98
circular sawing			4		2		1			2	3			2		1		1		1	2		1	2	22

vehicle for high lift work												1							1					2		
other construction machines																										
lathe			1			1	1	1						1		1			1					7		
drill press, milling machine			1							1						1								3		
grinding machine, buffing machine			2		3				1	1			1			2			2			1		13		
power press					3		3	6	4	2	1	3	3		1	2	2		1	1		1	2	2	37	
forging pressure hammer																										
shearing machine			12		17		16	15	19	11	14	17	12	5	6	13	12	12	8	4	5	13	9	10	230	
other metal manufacturing machines			8		6		3	4	5	2	3	3	1	2		2	1		1	4			1		46	
centrifugal machine									1														1		2	
mixer, grinder			1		1		1				1			2								1	1		8	
roll machine (except printingroll machine)			14		8		16	11	14	13	17	15	15	10	11	11	8	10	13	11	7	8	11	10	233	
injection molding			1					1			1										1	1	1		1	7

vessels						1																	1		
chemical facilities																									
gas welding equipment																		1					1		
arc welding equipment						1																	1		
other welding equipment			1											1									2		
kiln, caldron			1		1																1		3		
industrial dryer																				1	1		2		
other kiln, caldron																		1					1		
transmission						1	1			2					1		1		1		1	2	10		
electric power facilities																		1					1		
other electrical equipment			1								1						1						3		
human power cranes								1							1			1	2		4	5	14		
human power hauling equipment			23		12		13	12	15	16	16	25	10	14	11	13	6	16	8	16	17	10	13	10	276
human power machine			4		2			1		1	3	2	2	1	1	5		4			1		2	29	

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	207	188	184	189	157	151	130	122	121	114	107	89	86	71	83	72	77	62	54	50	43	50	53	42	2,502
10-29	268	286	283	258	228	224	211	195	190	190	185	165	157	126	122	130	104	99	103	109	108	102	102	116	4,061
30-49	156	165	128	132	119	130	116	145	118	123	118	113	119	102	91	90	82	76	86	83	91	85	76	70	2,614
50-99	150	179	173	149	136	171	144	152	143	143	106	109	105	112	101	102	93	89	105	109	91	112	108	92	2,974
100-299	172	138	155	137	141	145	158	139	133	121	146	97	93	97	94	113	99	93	105	116	87	88	105	103	2,875
300 workers or more	81	88	75	69	63	62	51	57	54	55	46	44	50	45	45	39	46	34	36	49	44	50	50	54	1,287
total	1,034	1,044	998	934	844	883	810	810	759	746	708	617	610	553	536	546	501	453	489	516	464	487	494	477	16,313

Month of fatal and non-fatal accidents in printing/bookbinding 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	82	64	68	72	70	70	65	75	56	60	60	51	55	48	42	35	45	42	41	46	39	40	46	40	1,312
February	90	104	71	83	71	68	72	61	64	58	47	56	43	50	43	42	49	47	40	43	40	33	48	33	1,356
March	98	100	73	85	75	92	68	69	86	60	63	64	68	59	39	65	47	24	49	59	45	47	53	50	1,538
April	88	74	101	70	76	66	78	75	86	69	67	53	50	44	37	47	42	34	43	40	40	43	42	44	1,409
May	74	84	85	93	73	70	56	77	66	61	49	48	55	36	39	45	37	37	25	39	37	39	43	42	1,310
June	93	91	92	79	89	77	74	73	49	70	63	49	44	52	51	46	47	35	45	34	39	43	43	48	1,426
July	70	90	86	95	81	74	54	62	71	70	67	48	54	42	59	45	34	44	49	45	41	36	32	42	1,391
August	85	104	86	77	59	67	79	71	54	57	57	49	42	49	38	36	38	36	37	49	36	44	45	43	1,338
September	87	76	85	64	76	80	64	60	60	62	53	58	58	44	47	46	53	30	42	39	39	34	42	28	1,327

October	106	98	87	95	59	87	79	64	54	61	72	46	40	45	69	49	39	42	41	36	41	47	35	45	1,437
November	88	84	88	65	52	70	64	59	62	56	53	59	51	42	40	45	39	41	38	49	38	34	32	32	1,281
December	73	75	76	56	63	62	57	64	51	62	57	36	50	42	32	45	31	41	39	37	29	47	33	30	1,188
total	1,034	1,044	998	934	844	883	810	810	759	746	708	617	610	553	536	546	501	453	489	516	464	487	494	477	16,313

Prefecture of fatal and non-fatal accidents in printing/bookbinding 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	25	30	26		14		17	8	13	21	11	10	13	10	15	11	14	9	10	14	12	9	6	12	310
Aomori	3	3	7		4		5	4	5	3	5	2	4	2	5	1	1	1		1	2	2	4	2	66
Iwate	8	9	8		2		4	4	3	5	5	4	8	1	5	1	2		2	3	6	4	3	4	91
Miyagi	12	10	12		13		9	9	14	12	9	13	5	8	10	9	3	6	16	6	4	10	10	2	202
Akita	4	1	3		2		4	4	3	3	2	4	3	1		3	2	3	1	1	3	1	1	4	53
Yamagata	6	8	8		4		6	6	4	6	5	6	1	5	6	3	3	2	1	4	3	4	3	5	99
Fukushima	8	11	13		10		15	7	10	11	11	7	7	2	8	7	6	5	7	3	3	9	9	3	172
Ibaraki	22	24	18		23		24	22	14	21	19	12	15	21	14	13	13	16	11	17	16	20	23	19	397
Tochigi	16	9	5		9		5	6	10	6	7	6	6	9	6	5	5	6	5	10	4	8	7	3	153
Gunma	11	12	16		9		11	4	11	7	6	10	13	5	9	9	4	9	6	5	3	9	8	6	183
Saitama	134	115	133		129		128	112	126	106	109	90	81	79	65	76	85	62	78	84	55	65	69	70	2,051
Chiba	31	31	24		30		26	20	19	19	20	10	20	20	18	20	9	14	13	17	17	15	13	15	421
Tokyo	191	165	141		142		106	111	104	97	84	78	83	60	62	64	53	56	54	50	53	50	45	54	1,903

Yamaguchi	4	7	9		10		3	4	5	2		6	3	2	2	1	7	7	3	3	1	2	4	1	86
Tokushima	2	9	2		4		8	1	2	5	6	3	5	3	2	2	2	3	3		3	4	4	4	77
Kagawa	17	20	11		7		13	23	8	13	16	9	6	11	7	14	13	9	10	9	6	9	10	5	246
Ehime	12	9	9		9		7	6	9	3	5	3	10	4	4	4	2	3	3	4	3	6	5	6	126
Kochi	6	3	4		4		5	3	6	3	3	4	2	2	5	4	1		1	3	4	1		3	67
Fukuoka	41	43	39		26		35	34	32	27	36	28	31	22	22	19	29	22	15	23	21	26	13	23	607
Saga	3	3	1		2		6		1	1		2	2	2	3	3	3	1	2	3	1	5	2	3	49
Nagasaki	6	3	6		5		3	11	1		3	1	2	4	2	6		3	5		3	1	3	1	69
Kumamoto	9	10	12		6		6	5	3	2	10	5	11	7	7	3	6	3	2	4	6	5	9	8	139
Oita	4	4	5		4		4	5	3	3	3	4	2	3	2	3	1	2	4	4	1	2	1		64
Miyazaki	3	3	3		6		1		3	2	5	5	5	3	4	1	2	5	2	2	1	6	1		63
Kagoshima	4	5	4		2		2	1	2	5	3	1	1	2	4	1	2	2		4	2	2	4	3	56
Okinawa	5	2	7		9		4	1	8	3	1	5	2	2	4	1	3	2	1	1	1	1		3	66
total	1,034	1,044	998	934	844	883	810	810	759	746	708	617	610	553	536	546	501	453	489	516	464	487	494	477	16,313

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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contact to harmful substance				1							1													2	
electric shock																									
explosion																									
burst																									
fire		1																						1	
traffic accident (public road)		2	2	2	1						1	1	1				1							11	
traffic accident (others)																									
reaction to motion/improper motion																									
others						1	1	1				1	1			1		1	1		1			9	
unclassifiable																									
total	2	6	6	6	2	3	2	3	5	2	5	4	8		3	2	2	3	1	4	1	2	1	2	75

Causal agents (large) of fatal accidents in printing/bookbinding 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	2	1		1		2		1	1		1	1	2		2	1				1			1	1	18
crane, conveying		4	3	4	2					1	2	2	2				1	2		1					24

machine																									
other equipment								1																1	
temporary buildings, establishments			2				1	3	1	1				1	1			2		2		1	15		
substance, material		1	1	1						1														4	
load								1																1	
environment													4											4	
others						1	1	1			1				1		1	1		1				8	
total	2	6	6	6	2	3	2	3	5	2	5	4	8		3	2	2	3	1	4	1	2	1	2	75

Causal agents (middle) of fatal accidents in printing/bookbinding 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																									
general machine	2	1		1		2		1	1		1	1	2		2	1				1			1	1	18

high/cold temperature environment																									
other environments																									
other causal agent						1	1	1																	3
no causal agent												1				1		1	1		1				5
unclassifiable																									
total	2	6	6	6	2	3	2	3	5	2	5	4	8		3	2	2	3	1	4	1	2	1	2	75

Workers age of fatal accidents in printing/bookbinding 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	2	2	1		1			1		1	1								1			1	1	13
30-39		2	2	1		1	1	1			3	2	5		1	1		1	1						22
40-49			1					1	1			1	1		1									1	7
50-59	1	1		3	2	1	1		1		1		1				2	2		2	1	1			20
60 years old or more		1		1				1	2	2			1		1	1				1		1			12
total	2	6	6	6	2	3	2	3	5	2	5	4	8		3	2	2	3	1	4	1	2	1	2	75

Workers' number of workplace of fatal accidents in printing/bookbinding in 1999-2022

Yamaguchi																	1							1	
Tokushima																		1							1
Kagawa																		1			1				2
Ehime																									
Kochi																									
Fukuoka										1								1							2
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	2	6	6	6	2	3	2	3	5	2	5	4	8		3	2	2	3	1	4	1	2	1	2	75

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

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