

Industrial accidents in machine repair in Japan in 1999-2020

machine repair industry Code No.011702

Type of accidents in machine repair in 1999-2020

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
fall from height	68	65	73	67	65	70	68	58	64	56	57	42	49	41	36	31	48	41	55	41	57	37
falling to same level	41	30	30	18	31	25	36	25	29	28	30	18	34	29	21	30	28	12	25	30	23	23
crash	22	20	15	18	13	15	19	12	17	14	15	10	5	12	9	11	7	14	5	9	11	9
struck by flying or falling object	57	53	54	48	51	51	56	36	31	46	32	28	34	33	29	34	29	22	25	26	10	19
collapse	7	12	11	11	13	12	9	5	7	7	4	4	5	9	4	8	7	5	6	4	4	3
crashed by	18	24	16	28	14	29	16	16	16	21	13	15	11	10	9	10	13	10	11	10	10	14
caught in/between	106	109	103	86	84	88	89	99	70	74	65	52	54	53	57	54	49	45	59	49	38	49
cut	14	18	20	13	11	16	20	12	14	14	9	13	10	23	11	10	10	8	15	5	15	14
injury to the sole of the foot	0	0	0	-	0	-	1	1	0	1	1	0	1	0	2	0	0	0	0	0	2	0
drown	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
contact to high/low-temperature	18	10	17	8	8	5	6	12	10	8	8	12	5	6	11	11	4	7	1	10	2	7
contact to harmful substance	3	6	5	2	3	2	3	2	3	3	5	0	2	3	0	0	3	0	4	2	0	1
electric shock	0	2	1	2	2	-	1	2	0	1	1	1	0	0	1	1	2	1	1	1	1	0
explosion	2	0	4	1	1	2	1	0	0	0	1	1	1	1	1	0	0	3	1	0	0	0
burst	0	1	1	-	1	-	0	3	0	0	0	0	1	2	0	0	0	1	0	0	0	0
fire	2	1	1	-	0	2	0	2	1	1	0	3	0	2	1	0	1	2	0	0	3	0
traffic accident (public road)	9	8	14	4	10	13	8	13	8	16	6	9	6	8	4	6	12	8	5	6	13	6
traffic accident (others)	0	0	0	-	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	20	24	35	24	31	19	25	24	30	35	21	18	26	25	20	19	22	15	20	18	22	25
others	1	1	0	-	2	1	1	0	4	0	1	0	2	0	2	1	1	0	2	1	2	0

unclassifiable	0	1	1	2	0	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
total	388	386	401	333	341	356	360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207

Causal agents (middle) of industrial accidents in machine repair in 1999-2020

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
engine	2	3	3	4	1	4	1	1	0	3	3	0	1	4	1	0	0	0	1	0	0	0
power transmission mechanism	9	5	6	7	4	6	11	6	3	3	5	6	2	2	4	2	4	3	5	2	1	4
woodworking machine	2	1	2	2	3	3	5	0	1	3	3	1	3	0	1	2	1	0	2	1	1	1
construction machine	29	36	23	20	17	20	22	14	11	14	18	9	10	12	10	16	15	18	14	11	13	13
metal manufacturing machine	27	24	16	15	17	15	24	23	14	23	25	13	11	18	13	19	14	6	12	8	11	10
general machine	27	32	31	23	23	20	18	20	20	19	12	13	7	12	12	9	13	10	19	14	13	10
mobile silviculture machine																	2	0	1	0	0	0
crane	19	28	37	19	26	27	28	32	23	20	8	11	16	18	19	20	16	15	16	18	17	14
conveying machine	46	26	34	41	38	40	28	31	26	19	18	25	27	20	23	18	24	22	30	15	21	13
vehicle	14	13	20	11	15	19	11	17	10	22	10	9	10	6	7	9	18	8	7	10	17	9
pressure vessel	3	1	0	1	3	-	2	3	3	4	0	1	0	4	0	0	0	1	0	1	0	1
chemical facilities	0	0	0	-	1	-	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
welding equipment	3	5	10	3	1	-	2	1	0	2	2	0	2	2	4	0	2	2	1	0	0	1
kiln, caldron	1	1	1	-	1	-	1	0	0	1	1	0	0	0	2	0	0	0	0	1	0	0
electric equipment	1	3	2	2	1	1	1	2	2	2	1	0	0	1	1	1	2	2	0	2	2	1
human power machine, tools	12	29	21	21	18	26	23	17	11	18	14	15	14	16	12	17	9	13	16	12	13	16
tools	38	36	34	34	32	33	31	34	42	29	23	29	31	20	24	21	31	23	15	21	21	22
other equipments, facilities	19	19	14	13	12	16	12	17	17	13	10	15	13	11	6	12	6	14	9	16	8	7
temporary buildings,	50	46	43	41	39	48	49	37	43	47	51	22	37	51	20	30	30	23	37	40	43	31

establishments																						
hazards, harmful substances	7	7	14	4	6	3	4	8	4	7	7	7	5	4	5	2	4	3	2	5	3	4
materials	28	32	46	38	35	37	44	27	30	38	25	20	22	30	21	21	16	13	13	15	10	21
load	24	18	26	21	28	23	29	18	23	22	15	13	19	17	12	11	17	10	11	8	5	8
natural environment	11	9	3	2	3	3	4	4	7	1	3	10	8	3	5	9	3	2	4	6	5	8
other causal agent	6	3	4	1	3	6	2	2	3	4	4	1	0	1	2	2	3	0	5	1	2	1
no causal agent	10	8	9	10	14	6	7	8	11	10	10	5	10	5	13	5	6	7	14	6	7	12
unclassifiable	0	1	2	-	0	-	1	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0
total	388	386	401	333	341	356	360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207

Causal agents (small) of industrial accidents in machine repair in 1999-2020

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
engine			3		1		1	1	0	3	3	0	1	4	1	0	0	0	1	0	0	0
power transmission mechanism			6		4		11	6	3	3	5	6	2	2	4	2	4	3	5	2	1	4
circular sawing machine			1		1		3	0	1	2	1	1	1	0	1	1	0	0	2	0	0	1
band sawing machine			0		0		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		1		0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
other woodworking machines			1		1		1	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0
leveling, transporting or loading machine			4		7		4	2	2	7	2	1	8	4	2	6	5	2	5	6	4	3
excavating machine			12		4		12	7	7	6	10	5	2	6	7	8	7	7	9	2	6	6

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			15	9		10	13	8	10	2	6	8	11	10	13	3	7	7	13	9	5
mobile crane			9	11		9	9	6	6	3	2	3	5	3	5	4	3	2	3	5	4
derrick crane			0	0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
elevator, lift			8	5		4	6	5	2	2	1	5	1	4	1	6	4	7	2	2	3
cargo lifting appliance			0	0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
gondola			1	0		0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0
lumberyard equipment, logging cableway			0	0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
simple skyline yarding equipment																0	0	0	0	0	0
other powered crane			4	1		4	4	4	1	1	0	0	1	2	1	1	0	0	0	1	1
truck			22	17		17	17	12	11	10	12	14	10	13	9	16	11	22	8	14	7
forklift			5	9		7	10	8	6	6	9	6	5	3	5	4	5	1	2	5	3
railway equipment			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor			2	4		3	3	1	1	1	4	2	4	4	2	0	3	3	3	1	2
loader			1	1		0	0	0	0	0	0	1	0	0	1	0	0	1	1	1	0
straddle carrier			0	0		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
rough terrain hauler			1	1		0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0
other powered conveying machines			3	6		1	1	5	1	1	0	3	0	3	1	3	3	3	0	0	1
cars, bus, motorcycle			11	9		8	11	8	21	7	9	9	5	5	6	13	6	5	8	13	7
railway vehicle			1	1		0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0
other vehicles			8	5		3	5	2	1	3	0	1	1	2	3	4	2	2	2	2	2
boiler			0	0		0	3	3	1	0	1	0	2	0	0	0	0	0	0	0	0
pressure vessel			0	0		1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
other pressure vessels			0	3		1	0	0	3	0	0	0	2	0	0	0	0	0	1	0	0
chemical facilities			0	1		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
gas welding			5	1		1	1	0	1	1	0	1	2	2	0	1	0	1	0	0	0

equipment																						
arc welding equipment			4		0		1	0	0	1	1	0	0	2	0	1	2	0	0	0	1	
other welding equipment			1		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0		
kiln, caldron			0		1		1	0	0	1	0	0	0	2	0	0	0	0	1	0	0	
industrial dryer			1		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
other kiln, caldron			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
transmission			0		1		1	1	1	0	1	0	0	1	1	1	1	0	2	0	0	
electric power facilities			1		0		0	0	0	1	0	0	0	0	0	1	1	0	0	2	0	
other electrical equipment			1		0		0	1	1	1	0	0	0	1	0	0	0	0	0	0	1	
human power cranes			1		1		1	4	0	0	1	1	1	2	0	1	0	3	1	0	3	0
human power hauling equipment			5		3		4	2	2	4	5	3	2	2	3	5	1	1	7	1	1	2
human power machine			2		0		2	0	1	0	0	0	3	0	0	0	0	0	1	0	0	
hand tool			13		14		16	11	8	14	8	11	8	12	9	11	8	9	8	10	9	14
ladder			23		18		20	17	22	15	15	17	23	11	16	11	16	12	10	13	15	16
slinging tool			3		6		2	7	6	8	5	4	0	2	0	2	2	3	0	3	2	3
other tools			8		8		9	10	14	6	3	8	8	7	8	8	13	8	5	5	4	3
other equipment, facilities			14		12		12	17	17	13	10	15	13	11	6	12	6	14	9	16	8	7
scaffolding			1		2		6	2	5	1	2	1	1	2	1	3	3	0	2	1	1	0
timbering			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			4		8		11	4	9	12	11	2	5	10	5	3	7	4	7	7	9	4
opening			1		1		0	3	1	1	1	0	1	1	0	0	1	2	3	2	2	1
roof, beam, haze, crossbeam, principal rafter			3		2		2	3	0	0	1	0	0	2	1	0	1	1	3	0	1	
working platform, boot board			10		5		4	6	8	12	12	5	2	8	2	7	3	2	5	8	6	5
passage			11		13		10	13	9	8	11	8	16	10	6	10	7	7	8	10	14	9
building, establishment			9		6		9	2	8	8	10	4	9	9	2	4	5	4	5	5	7	4

19 years old or less	7	3	15	6	7	9	5	2	3	5	4	3	3	2	4	4	9	1	7	2	4	3
20-29	87	91	98	84	66	65	61	60	46	52	40	40	42	42	31	31	45	40	38	34	26	39
30-39	79	82	89	68	67	72	78	74	66	80	75	57	61	55	49	44	52	39	49	41	36	42
40-49	73	69	71	65	63	51	64	70	53	69	46	44	65	57	47	61	55	40	58	55	44	39
50-59	106	99	90	82	91	117	105	74	87	78	66	41	42	54	41	33	33	38	38	38	46	49
60 years old or more	36	42	38	28	47	42	47	42	49	41	38	41	35	47	46	53	42	37	45	43	57	35
total	388	386	401	333	341	356	360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207

Workers' number of workplace of industrial accidents in machine repair in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	193	178	201	173	166	170	173	173	145	154	131	111	108	123	82	104	104	99	90	86	71	76
10-29	127	130	119	103	110	116	116	99	104	108	77	70	94	76	82	81	80	66	84	73	79	76
30-49	29	40	46	26	27	28	38	26	23	24	29	21	20	20	25	20	21	12	25	23	27	15
50-99	19	18	20	23	19	23	17	14	17	21	21	8	15	22	16	13	20	5	14	12	15	19
100-299	10	19	13	6	16	9	10	7	10	15	9	12	7	6	10	6	7	8	13	16	9	14
300 workers or more	10	1	2	2	3	10	6	3	5	3	2	4	4	10	3	2	4	5	9	3	12	7
total	388	386	401	333	341	356	360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207

Month of industrial accidents in machine repair in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	31	27	32	26	25	33	31	25	32	32	21	27	15	20	19	26	17	13	13	18	19	14
February	35	39	26	29	27	26	25	25	21	23	23	23	25	30	17	20	22	19	19	18	21	22
March	34	36	35	27	38	29	33	33	30	30	21	16	22	23	20	21	23	16	15	16	30	19
April	40	31	39	38	31	36	24	23	26	27	21	12	18	13	15	19	19	18	18	16	15	14
May	40	31	26	37	32	25	30	33	27	40	14	17	20	25	12	16	16	18	12	19	18	22
June	33	36	28	24	22	44	37	20	20	18	25	21	24	17	22	14	19	13	26	14	20	24
July	34	33	38	33	29	22	29	21	29	29	24	20	30	21	27	19	28	17	24	20	18	20
August	31	29	35	25	23	29	34	32	35	31	31	22	17	29	19	18	19	13	26	20	11	17
September	31	38	45	23	41	27	29	30	26	17	18	23	23	29	17	29	25	19	23	14	11	19
October	28	32	41	35	37	36	26	28	22	30	22	15	21	24	17	15	19	19	19	22	16	16
November	24	22	28	20	17	23	38	29	25	24	22	16	17	16	17	16	17	15	20	17	23	12
December	27	32	28	16	19	26	24	23	11	24	27	14	16	10	16	13	12	15	20	19	11	8

total	388	386	401	333	341	356	360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207
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Prefecture of industrial accidents in machine repair in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	26	26	32		24		19	19	19	28	17	4	18	16	14	20	26	12	14	19	13	10
Aomori	5	5	3		5		3	2	4	1	4	6	5	3	2	1	5	2	1	0	1	2
Iwate	3	2	5		1		0	4	1	2	1	1	1	2	0	2	3	0	3	2	1	3
Miyagi	6	9	10		11		6	4	8	5	1	4	8	3	5	4	3	5	2	2	5	3
Akita	2	2	1		2		3	1	3	2	2	2	0	1	1	0	2	3	3	3	1	1
Yamagata	5	2	3		2		1	2	2	1	1	3	0	1	0	0	3	0	1	3	0	0
Fukushima	1	3	3		2		4	1	1	5	4	1	3	2	3	4	6	2	3	1	4	1
Ibaraki	4	8	5		7		9	4	6	2	3	3	2	4	2	3	4	1	1	3	1	7
Tochigi	3	4	5		5		3	5	6	2	6	5	5	4	3	6	4	2	4	2	3	1
Gunma	6	4	4		1		2	3	5	8	5	7	8	5	1	1	5	2	6	2	4	5
Saitama	25	12	13		20		14	13	16	13	21	10	5	11	6	7	11	10	8	7	5	7
Chiba	13	29	19		14		21	27	12	20	21	15	15	20	17	14	10	6	18	13	14	14
Tokyo	15	18	23		19		28	11	17	19	14	15	11	13	14	11	12	10	15	14	15	16
Kanagawa	38	32	21		24		27	29	15	27	10	13	16	12	20	14	5	11	17	11	12	8
Niigata	14	10	11		6		8	9	13	10	6	1	8	10	5	8	11	5	7	10	10	5
Toyama	6	9	7		5		3	1	2	1	4	1	4	1	1	3	1	0	3	1	1	1
Ishikawa	1	4	4		2		2	5	3	2	2	1	4	3	3	2	1	3	3	2	2	2
Fukui	8	4	4		2		9	3	4	0	2	0	4	4	1	3	1	0	3	4	3	3
Yamanashi	0	0	0		1		1	1	0	0	1	0	0	2	1	3	0	1	1	0	1	0
Nagano	1	4	5		6		1	3	3	3	4	2	0	1	1	4	4	1	4	4	4	7
Gifu	7	3	0		5		5	7	4	7	2	3	6	4	2	4	4	5	0	2	3	3
Shizuoka	5	13	25		13		17	10	16	7	19	12	3	12	11	6	9	14	9	3	8	8
Aichi	30	34	28		28		22	27	21	26	21	22	19	18	18	15	18	13	15	11	14	16
Mie	8	13	4		4		9	7	8	8	11	7	8	5	4	5	7	4	5	8	11	4
Shiga	3	2	1		1		2	1	1	1	1	0	1	1	0	3	0	1	0	2	0	0
Kyoto	9	3	4		2		6	11	5	3	2	0	3	2	5	1	2	2	1	1	0	2
Osaka	29	28	37		37		23	24	13	29	13	17	23	18	14	22	22	16	20	18	17	13
Hyogo	29	22	27		29		19	18	23	18	15	25	21	18	10	0	3	8	9	8	10	10
Nara	1	1	7		2		1	0	1	3	1	1	0	1	0	2	2	1	2	0	0	0
Wakayama	3	0	1		1		5	6	0	0	1	0	1	2	0	3	3	0	2	0	1	2
Tottori	3	7	3		0		1	3	1	0	0	3	1	1	0	2	2	1	1	1	0	0

Shimane	1	2	2		2		4	1	3	3	3	0	1	3	0	3	1	2	0	2	5	1
Okayama	4	9	6		3		3	3	6	6	4	3	4	5	6	2	4	5	3	2	5	3
Hiroshima	14	2	7		7		13	17	12	11	6	5	8	10	5	10	4	6	10	6	7	10
Yamaguchi	3	6	3		2		3	1	4	3	2	1	3	1	0	1	0	2	1	3	2	3
Tokushima	0	0	5		6		4	1	1	2	1	3	0	1	2	2	3	3	3	2	0	1
Kagawa	2	0	1		0		5	2	3	1	0	1	3	0	1	3	0	3	2	5	2	1
Ehime	6	4	4		5		4	4	4	2	1	6	0	1	4	2	3	7	3	4	1	5
Kochi	6	4	9		5		2	2	6	1	1	1	0	0	1	2	4	0	0	1	2	1
Fukuoka	13	19	16		18		20	13	17	17	20	11	14	21	16	11	10	5	11	14	10	12
Saga	2	2	3		5		3	1	3	0	2	1	1	0	0	1	0	5	2	1	3	2
Nagasaki	7	7	9		0		3	3	3	8	5	1	1	4	6	1	6	1	4	2	3	6
Kumamoto	4	2	1		0		6	2	2	3	2	4	1	1	2	6	1	3	2	0	0	1
Oita	8	8	2		2		5	3	2	3	1	3	1	7	1	4	4	4	1	2	3	1
Miyazaki	4	3	12		3		4	2	2	5	2	0	2	2	2	2	3	2	7	5	3	2
Kagoshima	2	4	4		1		2	6	2	3	4	1	1	1	4	3	3	5	2	6	3	2
Okinawa	3	1	2		1		5	0	1	4	0	1	5	0	4	0	1	1	3	1	0	2
total	388	386	401		341		360	322	304	325	269	226	248	257	218	226	236	195	235	213	213	207

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in machine repair in Japan in 1999-2020

machine repair industry Code No.011702

Type of fatal accidents in machine repair in 1999-2020

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
fall from height	3	2	4	1	0	0	0	0	0	2	0	1	0	1	0	0	1	0	0	0	0	2
falling to same level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
crash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	0	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	2	0	0	0	0

construction machine	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	3	2	2	0	2	1	0	0	0	1	0	2	1	2	0	0	0	3	1	0	0	2
conveying machine	4	0	3	1	1	4	1	1	0	2	3	2	0	1	0	0	1	0	2	2	0	0
vehicle	0	0	0	2	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	2	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0
other equipments, facilities	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
temporary buildings, establishments	1	2	3	1	0	0	0	1	0	1	0	1	0	0	0	0	1	1	0	0	0	1
hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
natural environment	1	1	0	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	1
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	13	8	12	7	6	9	5	6	2	6	4	9	4	5	1	0	3	7	4	3	0	4

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
abnormal environment	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	13	8	12	7	6	9	5	6	2	6	4	9	4	5	1	0	3	7	4	3	0	4

Workers age of fatal accidents in machine repair in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
20-29	3	2	2	1	1	2	0	2	0	0	0	1	1	1	0	0	0	1	0	0	0	0
30-39	2	1	1	0	2	2	2	2	0	1	0	3	0	3	1	0	1	3	0	0	0	1
40-49	2	2	5	1	2	1	1	0	1	0	0	3	0	1	0	0	2	0	3	1	0	0
50-59	3	2	2	2	1	3	2	2	1	3	3	1	0	0	0	0	0	2	0	2	0	3
60 years old or more	3	0	1	3	0	1	0	0	0	1	1	1	3	0	0	0	0	1	1	0	0	0
total	13	8	12	7	6	9	5	6	2	6	4	9	4	5	1	0	3	7	4	3	0	4

Workers' number of workplace of fatal accidents in machine repair in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	6	4	2	3	5	3	4	3	1	3	4	4	2	4	0	0	3	2	2	2	0	2

Oita	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miyazaki	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kagoshima	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total	13	8	12	7	6	9	5	6	2	6	4	9	4	5	1	0	3	7	4	3	0	4

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

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