Fatal and non-fatal accidents in measuring instruments in Japan in 1999-2022

measuring instruments industry Code No.011302

Type of accidents in measuring instruments 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 | 6 | 2 | 12 | 6 | 4 | 5 | 10 | 5 | 10 | 5 | 3 | 6 | 4 | 3 | 6 | 3 | 5 | 7 | 9 | 5 | 1 | 5 | 3 | 4 | 129 |
| falling to same level | 9 | 15 | 15 | 11 | 7 | 4 | 4 | 13 | 6 | 7 | 5 | 5 | 10 | 10 | 12 | 14 | 15 | 6 | 11 | 9 | 10 | 10 | 10 | 18 | 236 |
| crash | 5 | 1 | 2 | 4 | 4 | 3 | 4 | 1 | 3 | 2 | 1 | 3 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 7 | 5 | 62 |
| struck by flying or falling object | 9 | 16 | 11 | 7 | 6 | 4 | 5 | 6 | 5 | 3 | 5 | 4 | 3 | 4 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 4 | 2 | 3 | 109 |
| collapse | 3 | | | | 1 | 4 | | 2 | 1 | 4 | 1 | 3 | 3 | 2 | | 1 | 1 | 1 | | 2 | | 1 | 1 | 3 | 34 |
| crashed by | 3 | 2 | 3 | | 5 | 5 | | 2 | 1 | 5 | 2 | 1 | 2 | 1 | 1 | | 1 | | 1 | 5 | 2 | 1 | 3 | | 46 |
| caught in/between | 19 | 22 | 21 | 19 | 21 | 15 | 18 | 19 | 21 | 17 | 14 | 10 | 13 | 10 | 10 | 10 | 10 | 10 | 6 | 11 | 14 | 3 | 6 | 8 | 327 |
| cut | 4 | 9 | 8 | 5 | 9 | 5 | 4 | 3 | 6 | 2 | 4 | 4 | 4 | 4 | 6 | 2 | 6 | | 5 | 3 | 1 | | 1 | 3 | 98 |
| injury to the sole of the foot | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 |
| drown | | | | | | | | | | | | | | | | | | | | | | | | | |
| contact to high/low- | 1 | 1 | | 3 | 2 | | 1 | 2 | 1 | 4 | | | 1 | | 1 | | | 1 | 2 | 2 | | 1 | 3 | | 26 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| temperature | | | | | | | | | | | | | | | | | | | | | | | | | |
| contact to harmful substance | | 1 | | 1 | | | 1 | | 1 | | 1 | 1 | | | | 2 | 1 | | 1 | | 1 | | | 1 | 12 |
| electric shock | | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | 2 |
| explosion | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | 2 |
| burst | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 |
| fire | | | | | | | | | 1 | | | | | | | 2 | | | | | | | | | 3 |
| traffic accident (public road) | 2 | 1 | 6 | 1 | 1 | | 2 | 5 | 3 | | | | | | 2 | | | | 1 | 1 | 2 | | | | 27 |
| traffic accident (others) | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| reaction to motion/improper motion | 6 | 11 | 4 | 10 | 10 | 8 | 12 | 3 | 10 | 11 | 12 | 13 | 11 | 7 | 4 | 6 | 8 | 6 | 14 | 8 | 12 | 3 | 4 | 5 | 198 |
| others | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | 3 | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | | 17 |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Causal agents (large) of fatal and non-fatal accidents in measuring instruments 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 | 19 | 26 | 23 | 20 | 27 | 19 | 15 | 16 | 21 | 13 | 16 | 12 | 15 | 11 | 11 | 11 | 11 | 13 | 7 | 13 | 14 | 4 | 3 | 5 | 345 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| crane, conveying machine | 9 | 6 | 7 | 2 | 3 | 7 | 5 | 10 | 8 | 6 | 2 | 2 | 2 | | 5 | 1 | 4 | 3 | 1 | 4 | 4 | 2 | 4 | 3 | 100 |
| other equipment | 13 | 13 | 16 | 4 | 15 | 7 | 8 | 12 | 10 | 15 | 4 | 12 | 8 | 9 | 6 | 7 | 11 | 8 | 8 | 10 | 13 | 6 | 12 | 10 | 237 |
| temporary buildings, establishments | 12 | 12 | 18 | 12 | 12 | 8 | 12 | 13 | 15 | 8 | 6 | 9 | 9 | 8 | 15 | 13 | 12 | 5 | 19 | 12 | 6 | 11 | 10 | 22 | 279 |
| substance, material | 7 | 11 | 8 | 14 | 4 | 6 | 10 | 5 | 7 | 8 | 8 | 6 | 8 | 2 | 3 | 4 | 5 | 2 | 6 | 2 | 2 | 3 | 4 | 3 | 138 |
| load | 6 | 7 | 6 | 8 | 7 | 4 | 6 | 3 | 3 | 4 | 7 | 5 | 5 | 10 | 4 | 3 | 4 | 1 | 5 | 2 | 4 | 2 | 4 | 3 | 113 |
| environment | | | | 1 | | 1 | | | | 1 | | | 1 | 1 | | 2 | 1 | 1 | 4 | 1 | | 1 | 1 | | 16 |
| others | 2 | 6 | 4 | 7 | 3 | 2 | 6 | 3 | 5 | 6 | 6 | 6 | 8 | 1 | 4 | 3 | 4 | 3 | 5 | 5 | 5 | 3 | 2 | 5 | 104 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Causal agents (middle) of fatal and non-fatal accidents in measuring instruments 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 | | | | | | | | | | | | | 2 |
| power transmission mechanism | | 1 | 1 | | | | 3 | | 1 | | | | 1 | 1 | 1 | | | | | | | | | | 9 |
| woodworking machine | | | 1 | | 1 | | | | | 2 | 1 | 1 | | | | | 1 | | | | | | | 1 | 8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| construction machine | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 2 |
| metal manufacturing machine | 12 | 21 | 17 | 12 | 18 | 14 | 8 | 9 | 14 | 5 | 8 | 8 | 11 | 8 | 8 | 8 | 7 | 8 | 5 | 8 | 9 | | 1 | 3 | 222 |
| general machine | 7 | 4 | 4 | 6 | 8 | 4 | 4 | 7 | 6 | 6 | 7 | 2 | 3 | 2 | 2 | 3 | 3 | 5 | 2 | 5 | 5 | 4 | 2 | 1 | 102 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | 2 | 3 | 2 | | 1 | 4 | 1 | 1 | 2 | 3 | | | 2 | | 1 | | | | | 2 | 1 | | | 1 | 26 |
| conveying machine | 5 | 2 | | 1 | 1 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | | | 3 | 1 | 2 | 3 | | 1 | 1 | 2 | 3 | 2 | 46 |
| vehicle | 2 | 1 | 5 | 1 | 1 | | 1 | 5 | 4 | | | | | | 1 | | 2 | | 1 | 1 | 2 | | 1 | | 28 |
| pressure vessel | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | 2 |
| chemical facilities | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 |
| welding equipment | | 1 | | | 1 | | | | | | | 1 | | | | | | 1 | | | | | | | 4 |
| kiln, caldron | | | | | | | | | 1 | | | | | | | | | | | 1 | | | | | 2 |
| electric equipment | 1 | 1 | | | | | 1 | 1 | | 4 | | | | | | | 1 | | | | 1 | 1 | | | 11 |
| human power machine, tools | 4 | 4 | 4 | 1 | 5 | 2 | 1 | 5 | 2 | 3 | | 3 | 2 | 4 | 1 | | 6 | 3 | 1 | 5 | 3 | 2 | 5 | 5 | 71 |
| tools | 5 | 4 | 8 | 2 | 3 | 2 | 3 | 4 | 5 | 4 | 4 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 6 | 3 | 2 | 4 | 92 |
| other equipments, | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| facilities | 3 | 3 | 4 | 1 | 6 | 3 | 1 | 2 | 2 | 4 | | 2 | 2 | 1 | 2 | 4 | 1 | 1 | 4 | | 3 | | 4 | 1 | 54 |
| temporary buildings, establishments | 12 | 12 | 18 | 12 | 12 | 8 | 12 | 13 | 15 | 8 | 6 | 9 | 9 | 8 | 15 | 13 | 12 | 5 | 19 | 12 | 6 | 11 | 10 | 22 | 279 |
| hazards, harmful substances | | 1 | | 4 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | | | 2 | 1 | | 1 | | 1 | | | | 19 |
| materials | 7 | 10 | 8 | 10 | 3 | 5 | 9 | 5 | 5 | 7 | 7 | 5 | 7 | 2 | 3 | 2 | 4 | 2 | 5 | 2 | 1 | 3 | 4 | 3 | 119 |
| load | 6 | 7 | 6 | 8 | 7 | 4 | 6 | 3 | 3 | 4 | 7 | 5 | 5 | 10 | 4 | 3 | 4 | 1 | 5 | 2 | 4 | 2 | 4 | 3 | 113 |
| natural environment | | | | 1 | | 1 | | | | 1 | | | 1 | 1 | | 2 | 1 | 1 | 4 | 1 | | 1 | 1 | | 16 |
| other causal agent | | | 1 | 1 | | | 1 | 1 | | 1 | | | 3 | | | 1 | 1 | 1 | | | | 1 | | | 12 |
| no causal agent | 2 | 6 | 2 | 5 | 2 | 2 | 5 | 2 | 5 | 5 | 6 | 6 | 5 | 1 | 4 | 2 | 2 | 2 | 5 | 5 | 5 | 2 | 2 | 4 | 87 |
| unclassifiable | | | 1 | 1 | 1 | | | | | | | | | | | | 1 | | | | | | | 1 | 5 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Causal agents (small) of fatal and non-fatal accidents in measuring instruments 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 | | | | 3 | | 1 | | | | 1 | 1 | 1 | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| circular sawing machine | | | 1 | | 1 | | | | | 2 | 1 | 1 | | | | | 1 | | | | | | | 1 | 8 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| demolition machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| vehicle for high lift work | | | | | | | | | | | | | | | | | | | | | | | | | |
| other construction machines | | | | | | | | | | | | | | | | | | | | | | | | | |
| lathe | | | 6 | | 4 | | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 4 | 1 | | | 2 | | 1 | | | | | 31 |
| drill press, milling machine | | | 3 | | 4 | | 2 | 1 | 3 | | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 1 | | 3 | 3 | | | | 31 |
| grinding machine, buffing machine | | | 2 | | 4 | | 2 | 1 | 2 | | 1 | | 2 | 1 | 2 | 2 | | | 2 | 1 | 2 | | | | 24 |
| power press | | | 2 | | 1 | | 3 | 2 | 3 | | 1 | 3 | 3 | | | 3 | 3 | 2 | 2 | 1 | 2 | | 1 | 1 | 33 |
| forging pressure hammer | | | | | | | | | | | | | | | | | | | | | | | | | |
| shearing machine | | | 1 | | 2 | | | 1 | | | | | | | 1 | | | | | | | | | | 5 |
| other metal manufacturing machines | | | 3 | | 3 | | | 2 | 4 | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | | | 2 | 39 |
| centrifugal machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mixer, grinder | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| roll machine (except printingroll machine) | | | | | 1 | | | 1 | | | | 1 | | 1 | | | | 1 | | | 1 | | | | 6 |

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| injection molding machine | | | | | | | 1 | | | | | | 1 | | | | | | | 1 | | | | | 3 |
| food manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| printing machine | | | | | 2 | | | | 1 | 1 | 1 | | | | | | | | | | | | | | 5 |
| industrial robot | | | | | | | | | 1 | | | | | | | | | | 1 | | | | | | 2 |
| other general power machines | | | 4 | | 5 | | 3 | 6 | 4 | 5 | 6 | 1 | 2 | 1 | 2 | 3 | 3 | 4 | 1 | 4 | 4 | 3 | 2 | 1 | 64 |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | 2 | | 1 | | 1 | 1 | 2 | 3 | | | 2 | | 1 | | | | | | | | | 1 | 14 |
| mobile crane | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | 2 |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| elevator, lift | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | |

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| lumberyard equipment, logging cableway | | | | | | | | | | | | | | | | | | | | | | | | | |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| truck | | | | | | | 1 | 1 | 1 | | | 1 | | | 3 | | | 2 | | | | 2 | 2 | | 13 |
| forklift | | | | | 1 | | 1 | 1 | 1 | 2 | 1 | | | | | | | 1 | | 1 | 1 | | 1 | 2 | 13 |
| railway equipment | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| conveyor | | | | | | | 1 | 2 | | | 1 | 1 | | | | 1 | 1 | | | | | | | | 7 |
| loader | | | | | | | | | | | | | | | | | | | | | | | | | |
| straddle carrier | | | | | | | | | | | | | | | | | | | | | | | | | |
| rough terrain hauler | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered conveying machines | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 |
| cars, bus, motorcycle | | | 5 | | 1 | | 1 | 5 | 4 | | | | | | 1 | | 2 | | 1 | 1 | 2 | | 1 | | 24 |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | | |
| other vehicles | | | | | | | | | | | | | | | | | | | | | | | | | |
| boiler | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pressure vessel | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 |
| other pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | |
| chemical facilities | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 |
| gas welding equipment | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| arc welding equipment | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 |
| other welding equipment | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 |
| kiln, caldron | | | | | | | | | 1 | | | | | | | | | | | 1 | | | | | 2 |
| industrial dryer | | | | | | | | | | | | | | | | | | | | | | | | | |
| other kiln, caldron | | | | | | | | | | | | | | | | | | | | | | | | | |
| transmission | | | | | | | | | | | | | | | | | 1 | | | | | 1 | | | 2 |
| electric power facilities | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | 2 |
| other electrical equipment | | | | | | | | 1 | | 3 | | | | | | | | | | | 1 | | | | 5 |
| human power cranes | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 |
| human power hauling equipment | | | 2 | | 3 | | | 1 | | 2 | | 2 | 1 | 3 | 1 | | 3 | 1 | 1 | 4 | 2 | 1 | | 1 | 28 |

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| human power machine | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | 2 |
| hand tool | | | 2 | | 1 | | 1 | 3 | 2 | 1 | | 1 | 1 | 1 | | | 3 | 2 | | 1 | 1 | 1 | 4 | 2 | 27 |
| ladder | | | 4 | | 1 | | 1 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | | | 33 |
| slinging tool | | | | | 1 | | | | 1 | | | | | 1 | | | | 1 | 1 | 1 | | | | 1 | 7 |
| other tools | | | 4 | | 1 | | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 2 | 3 | 39 |
| other equipment, facilities | | | 4 | | 6 | | 1 | 2 | 2 | 4 | | 2 | 2 | 1 | 2 | 4 | 1 | 1 | 4 | | 3 | | 4 | 1 | 44 |
| scaffolding | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | |
| stairs, landing stage | | | 6 | | 3 | | 1 | | 6 | | 2 | 7 | 3 | 3 | 2 | 3 | 6 | 2 | 6 | 5 | 3 | 3 | 2 | 4 | 67 |
| opening | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| working platform, boot board | | | 2 | | 2 | | 4 | | 1 | 3 | | 1 | 1 | 1 | 1 | | | 1 | 2 | | | 2 | 1 | 2 | 24 |
| passage | | | 7 | | 5 | | 2 | 11 | 5 | 3 | 4 | 1 | 2 | 3 | 6 | 7 | 2 | 1 | 6 | 4 | 2 | 5 | 7 | 14 | 97 |
| building, establishment | | | 2 | | 2 | | 3 | | 1 | | | | 3 | | 4 | | 1 | | 4 | | 1 | 1 | | | 22 |
| other temporary buildings, | | | 1 | | | | 2 | 2 | 1 | 1 | | | | 1 | 2 | 2 | 3 | 1 | 1 | 3 | | | | 2 | 22 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| establishments | | | | | | | | | | | | | | | | | | | | | | | | | |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | | |
| inflammable substance | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | 2 |
| inflammable gas | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | 2 |
| harmful substance | | | | | | | 1 | | | | 1 | 1 | | | | 1 | | | | | | | | | 4 |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | | |
| other hazards, harmful substances | | | | | | | | | 1 | 1 | | | | | | | 1 | | 1 | | 1 | | | | 5 |
| metal material | | | 6 | | 2 | | 9 | 4 | 5 | 7 | 4 | 5 | 5 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 1 | 3 | 3 | 3 | 72 |
| lumber, bamboo | | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | 2 |
| stone, sand, substance | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| other materials | | | 2 | | | | | 1 | | | 3 | | 2 | | 1 | | 1 | 1 | | | | | 1 | | 12 |
| load | | | 4 | | 7 | | 6 | 2 | 1 | 2 | 4 | 4 | 5 | 7 | 4 | 3 | 4 | 1 | 5 | 1 | 3 | 1 | 4 | 3 | 71 |
| machine/equipment as load | | | 2 | | | | | 1 | 2 | 2 | 3 | 1 | | 3 | | | | | | 1 | 1 | 1 | | | 17 |
| natural ground, rock | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| standing tree | | | | | | | | | | | | | | | | | | | | | | | | | |
| water | | | | | | | | | | | | | | | | | | | | | | | | | |
| abnormal | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| high/cold temperature environment | | | | | | | | | | 1 | | | | | | | | | 1 | 1 | | 1 | 1 | | 5 |
| other environments | | | | | | | | | | | | | 1 | 1 | | 2 | 1 | 1 | 2 | | | | | | 8 |
| other causal agent | | | 1 | | | | 1 | 1 | | 1 | | | 3 | | | 1 | 1 | 1 | | | | 1 | | | 11 |
| no causal agent | | | 2 | | 2 | | 5 | 2 | 5 | 5 | 6 | 6 | 5 | 1 | 4 | 2 | 2 | 2 | 5 | 5 | 5 | 2 | 2 | 4 | 72 |
| unclassifiable | | | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | | 1 | 4 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Workers age of fatal and non-fatal accidents in measuring instruments 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 | 4 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 1 | | | | | 2 | 2 | 1 | 1 | 2 | | | | | | 27 |
| 20-29 | 14 | 20 | 16 | 12 | 9 | 7 | 12 | 11 | 14 | 9 | 12 | 7 | 8 | 3 | 4 | 5 | 9 | 5 | 5 | 11 | 6 | 5 | 4 | 9 | 217 |
| 30-39 | 11 | 14 | 16 | 10 | 12 | 10 | 13 | 12 | 14 | 17 | 14 | 12 | 13 | 8 | 12 | 4 | 7 | 7 | 6 | 8 | 10 | 5 | 6 | 12 | 253 |
| 40-49 | 13 | 10 | 11 | 14 | 17 | 14 | 7 | 10 | 14 | 15 | 9 | 11 | 14 | 15 | 8 | 17 | 13 | 13 | 21 | 14 | 11 | 5 | 15 | 6 | 297 |
| 50-59 | 20 | 30 | 30 | 21 | 21 | 15 | 18 | 19 | 18 | 12 | 7 | 17 | 12 | 9 | 9 | 6 | 14 | 5 | 17 | 9 | 11 | 11 | 11 | 17 | 359 |
| 60 years old or more | 6 | 6 | 7 | 9 | 10 | 7 | 10 | 7 | 8 | 7 | 7 | 5 | 9 | 7 | 13 | 10 | 8 | 5 | 4 | 7 | 10 | 6 | 4 | 7 | 179 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Workers' number of workplace of fatal and non-fatal accidents in measuring instruments 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 | 12 | 11 | 24 | 19 | 21 | 9 | 11 | 8 | 4 | 10 | 7 | 6 | 9 | 10 | 4 | 4 | 8 | 2 | 7 | 4 | 5 | 4 | 1 | 2 | 202 |
| 10-29 | 15 | 24 | 23 | 14 | 17 | 10 | 16 | 10 | 17 | 13 | 11 | 6 | 10 | 10 | 12 | 8 | 7 | 8 | 11 | 11 | 11 | 5 | 6 | 11 | 286 |
| 30-49 | 14 | 16 | 5 | 9 | 8 | 9 | 8 | 12 | 7 | 3 | 7 | 3 | 11 | 1 | 4 | 2 | 9 | 3 | 3 | 6 | 5 | 4 | 4 | 4 | 157 |
| 50-99 | 9 | 10 | 14 | 15 | 4 | 7 | 8 | 9 | 13 | 15 | 9 | 11 | 11 | 7 | 8 | 14 | 7 | 10 | 8 | 3 | 7 | 6 | 4 | 5 | 214 |
| 100-299 | 9 | 7 | 9 | 6 | 13 | 9 | 10 | 14 | 8 | 11 | 8 | 6 | 3 | 5 | 10 | 5 | 9 | 4 | 14 | 13 | 8 | 6 | 9 | 7 | 203 |
| 300 workers or more | 9 | 13 | 7 | 5 | 8 | 10 | 9 | 9 | 20 | 9 | 7 | 20 | 12 | 9 | 10 | 11 | 12 | 9 | 12 | 12 | 12 | 7 | 16 | 22 | 270 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Month of fatal and non-fatal accidents in measuring instruments 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 | 8 | 8 | 3 | 3 | 6 | 2 | 5 | 8 | 5 | 9 | 2 | 8 | 3 | 7 | 3 | 3 | 3 | 6 | 5 | 3 | 5 | 3 | 10 | 119 |
| February | 8 | 11 | 9 | 6 | 4 | 2 | 2 | 3 | 7 | 7 | 1 | 9 | 4 | 5 | 6 | 8 | 2 | 3 | 6 | 5 | 6 | 3 | 7 | | 124 |
| March | 7 | 10 | 3 | 3 | 11 | 4 | 7 | 6 | 8 | 3 | 5 | 1 | | 2 | 3 | 1 | 5 | 1 | 3 | 5 | 2 | 7 | 1 | 3 | 101 |
| April | 5 | 8 | 9 | 6 | 6 | 3 | 8 | 9 | 9 | 2 | 3 | 5 | 7 | 5 | 4 | 2 | 8 | 4 | 5 | 2 | 3 | 2 | 3 | 4 | 122 |
| May | 4 | 7 | 9 | 6 | 11 | 6 | 6 | 7 | 3 | 5 | 5 | 6 | 5 | 9 | 5 | 5 | 2 | 4 | 2 | 2 | 2 | 2 | 5 | 4 | 122 |
| June | 11 | 10 | 11 | 7 | 6 | 4 | 6 | 3 | 6 | 4 | 3 | 6 | 7 | 1 | 5 | 5 | 7 | 2 | 5 | 3 | 3 | | 3 | 2 | 120 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July | 9 | 3 | 4 | 9 | 11 | 5 | 5 | 3 | 5 | 7 | 5 | 3 | 4 | 2 | 1 | 2 | 11 | 4 | 6 | 5 | 6 | 3 | 4 | 2 | 119 |
| August | 8 | 6 | 7 | 4 | 5 | 3 | 5 | 4 | 4 | 8 | 7 | 5 | 5 | 4 | 3 | 3 | 3 | 4 | 5 | 6 | 3 | 2 | 4 | 3 | 111 |
| September | 4 | 3 | 2 | 8 | 6 | 2 | 4 | 4 | 4 | 10 | 2 | 8 | 8 | | 4 | 3 | 2 | 4 | 6 | 4 | 4 | | 3 | 6 | 101 |
| October | 5 | 4 | 10 | 8 | 3 | 10 | 5 | 4 | 6 | 3 | 4 | 3 | 4 | 3 | 3 | 5 | 6 | 2 | 4 | 5 | 10 | 1 | 4 | 5 | 117 |
| November | 6 | 6 | 4 | 5 | | 6 | 10 | 7 | 5 | 4 | 1 | 4 | 3 | 3 | 3 | 2 | 1 | 4 | 4 | 2 | 1 | 4 | 2 | 6 | 93 |
| December | | 5 | 6 | 3 | 5 | 3 | 2 | 7 | 4 | 3 | 4 | | 1 | 5 | 4 | 5 | 2 | 1 | 3 | 5 | 5 | 3 | 1 | 6 | 83 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

Prefecture of fatal and non-fatal accidents in measuring instruments 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 | | | | | 1 | | 1 | 1 | | | 1 | | 1 | | | | | | | | | | | | 5 |
| Aomori | | | | | | | | | | | 1 | | | | 1 | 1 | 1 | | | | 1 | 3 | | | 8 |
| Iwate | | | | | 1 | | 1 | | 1 | | 1 | 2 | | | | | | 1 | 2 | 1 | 2 | | 1 | 1 | 14 |
| Miyagi | | 1 | | | 1 | | | | 1 | 2 | 1 | | | | | | | 2 | | | | 2 | 2 | 5 | 17 |
| Akita | 1 | | 1 | | | | | | | 1 | | | | | 1 | | | | | 1 | | 1 | | | 6 |
| Yamagata | | 2 | | | | | | 1 | | 1 | | | | 1 | | | | | | | | | | | 5 |
| Fukushima | | | 1 | | | | 1 | | | 1 | | | 1 | 1 | 1 | | | 2 | 3 | | | | | 1 | 12 |
| Ibaraki | 1 | 1 | | | | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | | 2 | 4 | | 2 | | 4 | 2 | 2 | | 27 |
| Tochigi | | 2 | 1 | | 3 | | 1 | | | 1 | | | 1 | 1 | | 1 | | | | 1 | | | 1 | 1 | 14 |
| Gunma | 1 | 3 | | | | | | 1 | | 2 | | | | 1 | | | 1 | | 1 | 1 | 1 | | | | 12 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Saitama | 4 | 7 | 9 | | 3 | | 2 | 3 | 4 | 4 | 3 | 7 | 5 | 6 | 2 | 4 | 4 | 1 | 3 | 4 | 1 | 1 | 4 | 4 | 85 |
| Chiba | 3 | 2 | 1 | | | | | 2 | 2 | 1 | 2 | | 1 | | 1 | 1 | | 3 | 2 | | 1 | 1 | | 1 | 24 |
| Tokyo | 8 | 5 | 9 | | 7 | | 6 | 3 | 7 | 1 | 2 | 7 | 7 | 5 | 5 | 7 | 5 | 3 | 3 | 6 | 4 | 4 | 1 | 2 | 107 |
| Kanagawa | 6 | 4 | 5 | | 1 | | 5 | 1 | 2 | 2 | 3 | 3 | 8 | 2 | 4 | 2 | 2 | 2 | 2 | | 2 | 2 | 4 | 7 | 69 |
| Niigata | 6 | 10 | 5 | | 6 | | 7 | 6 | 11 | 6 | 1 | 5 | | 6 | 3 | 2 | 4 | 4 | 8 | 3 | 9 | 1 | 7 | 3 | 113 |
| Toyama | | 1 | | | | | | | | 1 | 1 | | | | | | 1 | | 1 | | 1 | | | 1 | 7 |
| Ishikawa | | 1 | | | | | | | | | | | 1 | | | | | | 1 | | | | | | 3 |
| Fukui | | 1 | 4 | | | | | | | | | | | | | | | | | | | | | 1 | 6 |
| Yamanashi | 2 | | | | | | 1 | 1 | 3 | 2 | 1 | 1 | 1 | | 2 | 3 | | | 1 | 1 | | | | 1 | 20 |
| Nagano | 3 | 3 | 4 | | 7 | | 2 | 3 | | 1 | 1 | | 3 | | 2 | 1 | 1 | 3 | 1 | | | | 2 | 2 | 39 |
| Gifu | | | 2 | | 2 | | | | 1 | | 1 | 2 | | | | 1 | | | | | | | 1 | | 10 |
| Shizuoka | 2 | 4 | 4 | | 4 | | 5 | 10 | 11 | 2 | | 2 | 6 | 2 | 2 | 2 | | 1 | | 2 | 2 | | 1 | 1 | 63 |
| Aichi | 2 | 5 | 5 | | 7 | | 4 | 6 | 3 | 3 | 6 | 2 | 5 | 2 | 4 | 3 | 5 | 1 | 4 | 2 | 4 | 2 | 4 | 7 | 86 |
| Mie | 5 | 1 | 1 | | 1 | | | | 1 | | 1 | | | | 1 | | | | 1 | 1 | | | | | 13 |
| Shiga | 8 | 3 | 6 | | 5 | | 1 | 4 | 1 | 1 | 2 | 4 | 2 | 1 | 2 | | 3 | 4 | 2 | 8 | 2 | | 2 | 2 | 63 |
| Kyoto | 4 | 5 | 8 | | 10 | | 8 | 4 | 9 | 10 | 4 | 6 | 5 | 3 | 9 | 4 | 9 | 2 | 9 | 10 | 7 | 7 | | 6 | 139 |
| Osaka | 3 | 6 | 2 | | 3 | | 5 | 10 | 4 | 5 | 5 | 3 | 7 | 4 | 5 | 2 | 6 | 4 | 2 | 4 | 5 | 1 | 1 | 5 | 92 |
| Hyogo | 3 | 5 | 3 | | 5 | | 2 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | | | 2 | 1 | 1 | 1 | | 3 | 2 | | 40 |
| Nara | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 |
| Wakayama | 1 | | 1 | | | | | | | | 1 | | | | | 1 | | 1 | | | 1 | | | | 6 |
| Tottori | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shimane | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okayama | | | | | 1 | | | | | 2 | 1 | | | | | | | | | | | | | | 4 |
| Hiroshima | 2 | 2 | 5 | | 2 | | 4 | 1 | 1 | 2 | 3 | 1 | | 2 | 2 | | 2 | | 3 | | 1 | 1 | 2 | | 36 |
| Yamaguchi | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | 1 | 1 | | 5 |
| Tokushima | | | | | | | 1 | | | 1 | | | | | | 1 | | | | | | | | | 3 |
| Kagawa | | 2 | 2 | | | | | | | | | 1 | | 1 | | 1 | | | | 2 | | | | | 9 |
| Ehime | | | | | | | | | 1 | | 2 | | | 1 | | 2 | | | | 1 | | | | | 7 |
| Kochi | | 1 | | | | | | | | | 1 | 1 | | | | 1 | | | | | | | | | 4 |
| Fukuoka | 1 | 1 | 2 | | 1 | | | | | 2 | 1 | 1 | | 2 | 1 | 1 | 2 | | 1 | | | | 2 | | 18 |
| Saga | 1 | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 3 |
| Nagasaki | | | | | | | | | | 1 | | 1 | | | | | | 1 | | | | | | | 3 |
| Kumamoto | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| Oita | | 1 | | | | | | 1 | 1 | | | | | | | | | | | | | | | | 3 |
| Miyazaki | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | 2 |
| Kagoshima | | | | | | | | | | | 1 | 1 | | | | | | | 1 | | | | | | 3 |
| Okinawa | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 |
| total | 68 | 81 | 82 | 68 | 71 | 54 | 62 | 62 | 69 | 61 | 49 | 52 | 56 | 42 | 48 | 44 | 52 | 36 | 55 | 49 | 48 | 32 | 40 | 51 | 1,332 |

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in measuring instruments in Japan in 1999-2022

measuring instruments industry Code No.011302

Type of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| falling to same level | | | | | | | | | | | | | | | | | | | | | | | | | |
| crash | | | | | | | | | | | | | | | | | | | | | | | | | |
| struck by flying or falling object | | | | | | | | | | | | | | | | | | | | | | | | | |
| collapse | | | | | | | | | | | | | | | | | | | | | | | | | |
| crashed by | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 |
| caught in/between | | 1 | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 4 |
| cut | | | | | | | | | | | | | | | | | | | | | | | | | |
| injury to the sole of the foot | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| drown | | | | | | | | | | | | | | | | | | | | | | | | | |
| contact to high/low-temperature | | | | | | | | | | | | | | | | | | | | | | | | | |
| contact to harmful substance | | | | | | | | | | | | | | | | | | | | | | | | | |
| electric shock | | | | | | | | | | | | | | | | | | | | | | | | | |
| explosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| burst | | | | | | | | | | | | | | | | | | | | | | | | | |
| fire | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | 2 |
| traffic accident (public road) | | | | | | | | | | | | | | | | | | | | | | | | | |
| traffic accident (others) | | | | | | | | | | | | | | | | | | | | | | | | | |
| reaction to motion/improper motion | | | | | | | | | | | | | | | | | | | | | | | | | |
| others | | | | | | | | | | | | 1 | 1 | | | 2 | | | | | | 1 | | | 5 |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Causal agents (large) of fatal accidents in measuring instruments 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 | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 3 |
| crane, conveying machine | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| other equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| temporary buildings, establishments | | | | | | | | | | | | | | | | | | | | | | | | | |
| substance, material | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | 2 |
| load | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 |
| environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| others | | | | | | | | | | | | 1 | 1 | | | 2 | | | | | | 1 | | | 5 |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Causal agents (middle) of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| woodworking machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| construction machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| metal manufacturing machine | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 3 |
| general machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| conveying machine | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| vehicle | | | | | | | | | | | | | | | | | | | | | | | | | |
| pressure vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| chemical facilities | | | | | | | | | | | | | | | | | | | | | | | | | |
| welding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| kiln, caldron | | | | | | | | | | | | | | | | | | | | | | | | | |
| electric equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| human power machine, tools | | | | | | | | | | | | | | | | | | | | | | | | | |
| tools | | | | | | | | | | | | | | | | | | | | | | | | | |
| other equipments, | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| facilities | | | | | | | | | | | | | | | | | | | | | | | | | |
| temporary buildings, establishments | | | | | | | | | | | | | | | | | | | | | | | | | |
| hazards, harmful substances | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | 2 |
| materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| load | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 |
| natural environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other causal agent | | | | | | | | | | | | | | | | | | | | | | | | | |
| no causal agent | | | | | | | | | | | | 1 | 1 | | | 2 | | | | | | 1 | | | 5 |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Causal agents (small) of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| drill press, milling machine | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 3 |
| grinding machine, buffing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| power press | | | | | | | | | | | | | | | | | | | | | | | | | |
| forging pressure hammer | | | | | | | | | | | | | | | | | | | | | | | | | |
| shearing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| other metal manufacturing machines | | | | | | | | | | | | | | | | | | | | | | | | | |
| centrifugal machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mixer, grinder | | | | | | | | | | | | | | | | | | | | | | | | | |
| roll machine (except printingroll machine) | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| injection molding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| food manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| printing machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| industrial robot | | | | | | | | | | | | | | | | | | | | | | | | | |
| other general power machines | | | | | | | | | | | | | | | | | | | | | | | | | |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| mobile crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| elevator, lift | | | | | | | | | | | | | | | | | | | | | | | | | |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | |

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| lumberyard equipment, logging cableway | | | | | | | | | | | | | | | | | | | | | | | | | |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered crane | | | | | | | | | | | | | | | | | | | | | | | | | |
| truck | | | | | | | | | | | | | | | | | | | | | | | | | |
| forklift | | | | | | | | | | | | | | | | | | | | | | | | | |
| railway equipment | | | | | | | | | | | | | | | | | | | | | | | | | |
| conveyor | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| loader | | | | | | | | | | | | | | | | | | | | | | | | | |
| straddle carrier | | | | | | | | | | | | | | | | | | | | | | | | | |
| rough terrain hauler | | | | | | | | | | | | | | | | | | | | | | | | | |
| other powered conveying machines | | | | | | | | | | | | | | | | | | | | | | | | | |
| cars, bus, motorcycle | | | | | | | | | | | | | | | | | | | | | | | | | |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | | |
| other vehicles | | | | | | | | | | | | | | | | | | | | | | | | | |
| boiler | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

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| human power machine | | | | | | | | | | | | | | | | | | | | | | | | | |
| hand tool | | | | | | | | | | | | | | | | | | | | | | | | | |
| ladder | | | | | | | | | | | | | | | | | | | | | | | | | |
| slinging tool | | | | | | | | | | | | | | | | | | | | | | | | | |
| other tools | | | | | | | | | | | | | | | | | | | | | | | | | |
| other equipment, facilities | | | | | | | | | | | | | | | | | | | | | | | | | |
| scaffolding | | | | | | | | | | | | | | | | | | | | | | | | | |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | | |
| stairs, landing stage | | | | | | | | | | | | | | | | | | | | | | | | | |
| opening | | | | | | | | | | | | | | | | | | | | | | | | | |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | | | | | | | | | | | | | | | | | | | |
| working platform, boot board | | | | | | | | | | | | | | | | | | | | | | | | | |
| passage | | | | | | | | | | | | | | | | | | | | | | | | | |
| building, establishment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other temporary buildings, | | | | | | | | | | | | | | | | | | | | | | | | | |

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| establishments | | | | | | | | | | | | | | | | | | | | | | | | | |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | | |
| inflammable substance | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | 2 |
| inflammable gas | | | | | | | | | | | | | | | | | | | | | | | | | |
| harmful substance | | | | | | | | | | | | | | | | | | | | | | | | | |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | | |
| other hazards, harmful substances | | | | | | | | | | | | | | | | | | | | | | | | | |
| metal material | | | | | | | | | | | | | | | | | | | | | | | | | |
| lumber, bamboo | | | | | | | | | | | | | | | | | | | | | | | | | |
| stone, sand, substance | | | | | | | | | | | | | | | | | | | | | | | | | |
| other materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| load | | | | | | | | | | | | | | | | | | | | | | | | | |
| machine/equipment as load | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 |
| natural ground, rock | | | | | | | | | | | | | | | | | | | | | | | | | |
| standing tree | | | | | | | | | | | | | | | | | | | | | | | | | |
| water | | | | | | | | | | | | | | | | | | | | | | | | | |
| abnormal | | | | | | | | | | | | | | | | | | | | | | | | | |

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| environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| high/cold temperature environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| other environments | | | | | | | | | | | | | | | | | | | | | | | | | |
| other causal agent | | | | | | | | | | | | | | | | | | | | | | | | | |
| no causal agent | | | | | | | | | | | | 1 | 1 | | | 2 | | | | | | 1 | | | 5 |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Workers age of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-29 | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| 30-39 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40-49 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 3 |
| 50-59 | | 1 | | 1 | | 1 | | | | | | | 1 | 2 | | 2 | | | | | | 1 | | | 9 |
| 60 years old or more | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Workers' number of workplace of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| 10-29 | | | | 1 | | 1 | | | | | | 1 | | 1 | | 2 | | | | | | | | | 6 |
| 30-49 | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| 50-99 | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | 2 |
| 100-299 | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 |
| 300 workers or more | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | 2 |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Month of fatal accidents in measuring instruments 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 | | | | | 2 | | | | | | | | | | | 3 |
| February | | 1 | | | | | | | | | | 1 | | | | 1 | | | | | | | | | 3 |
| March | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 2 |
| April | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 2 |
| May | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | |

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| July | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| August | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| September | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 |
| November | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

Prefecture of fatal accidents in measuring instruments 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ibaraki | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tochigi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gunma | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Saitama | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | 2 |
| Chiba | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tokyo | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 |
| Kanagawa | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 2 |
| Niigata | | | | | | | | | | | | | | | | | | | | | | | | | |
| Toyama | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ishikawa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fukui | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yamanashi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nagano | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gifu | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shizuoka | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aichi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mie | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shiga | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kyoto | | | | | | 1 | | | | | | | 1 | | | | | | | | | 1 | | | 3 |
| Osaka | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyogo | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nara | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wakayama | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tottori | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Shimane | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okayama | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 |
| Hiroshima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yamaguchi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tokushima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kagawa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ehime | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 |
| Kochi | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fukuoka | | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 |
| Saga | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nagasaki | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kumamoto | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oita | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miyazaki | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kagoshima | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okinawa | | | | | | | | | | | | | | | | | | | | | | | | | |
| total | | 1 | | 1 | | 1 | | | 1 | | | 2 | 1 | 3 | | 2 | | | | | | 1 | | | 13 |

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html