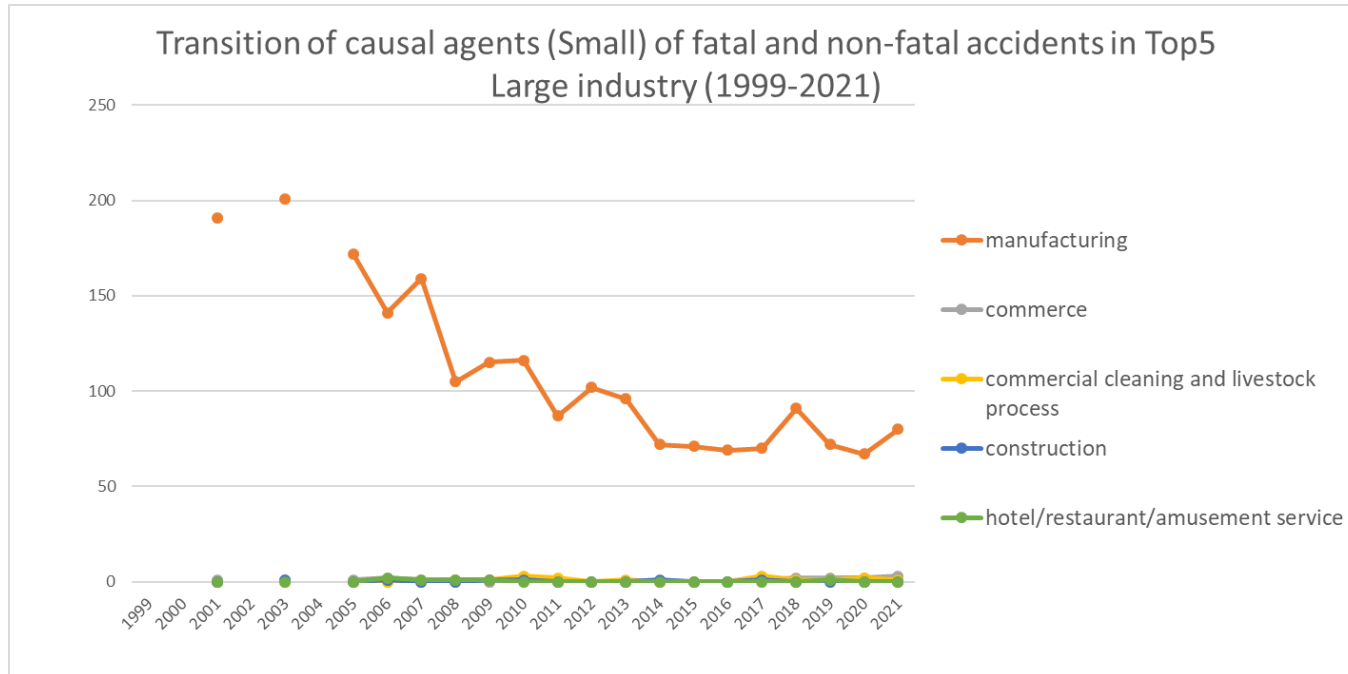
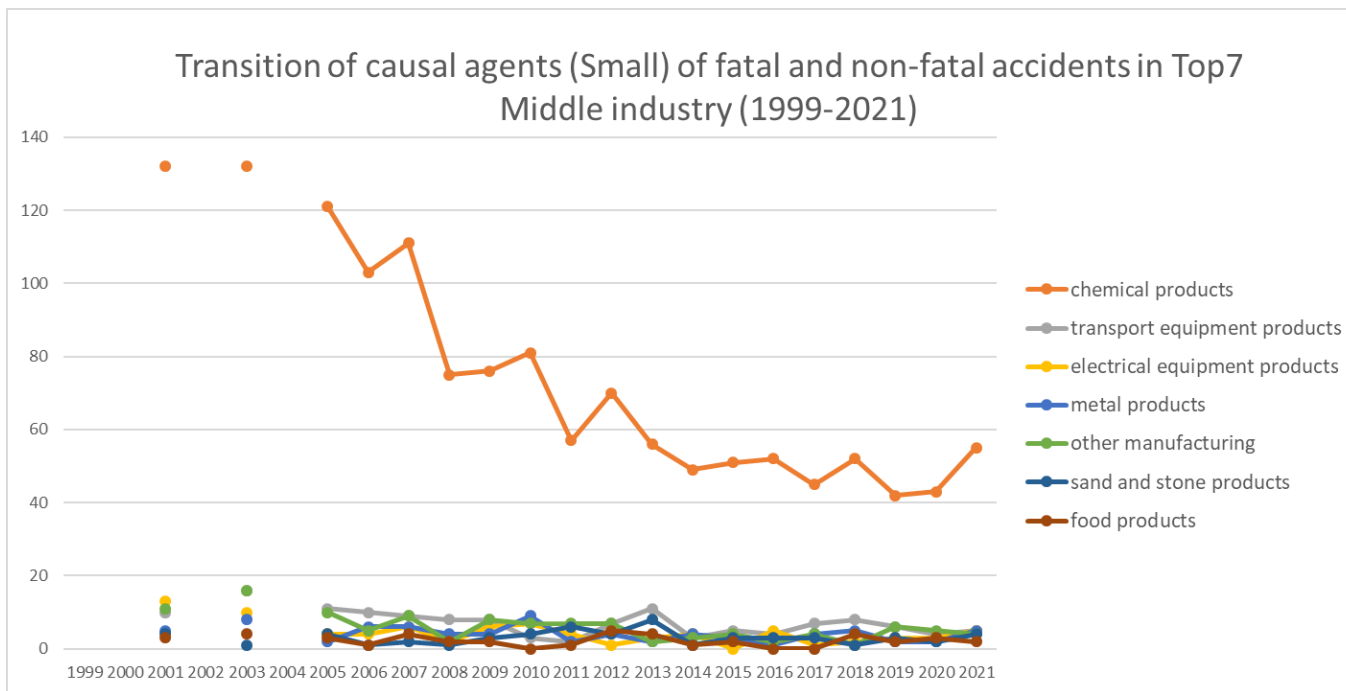


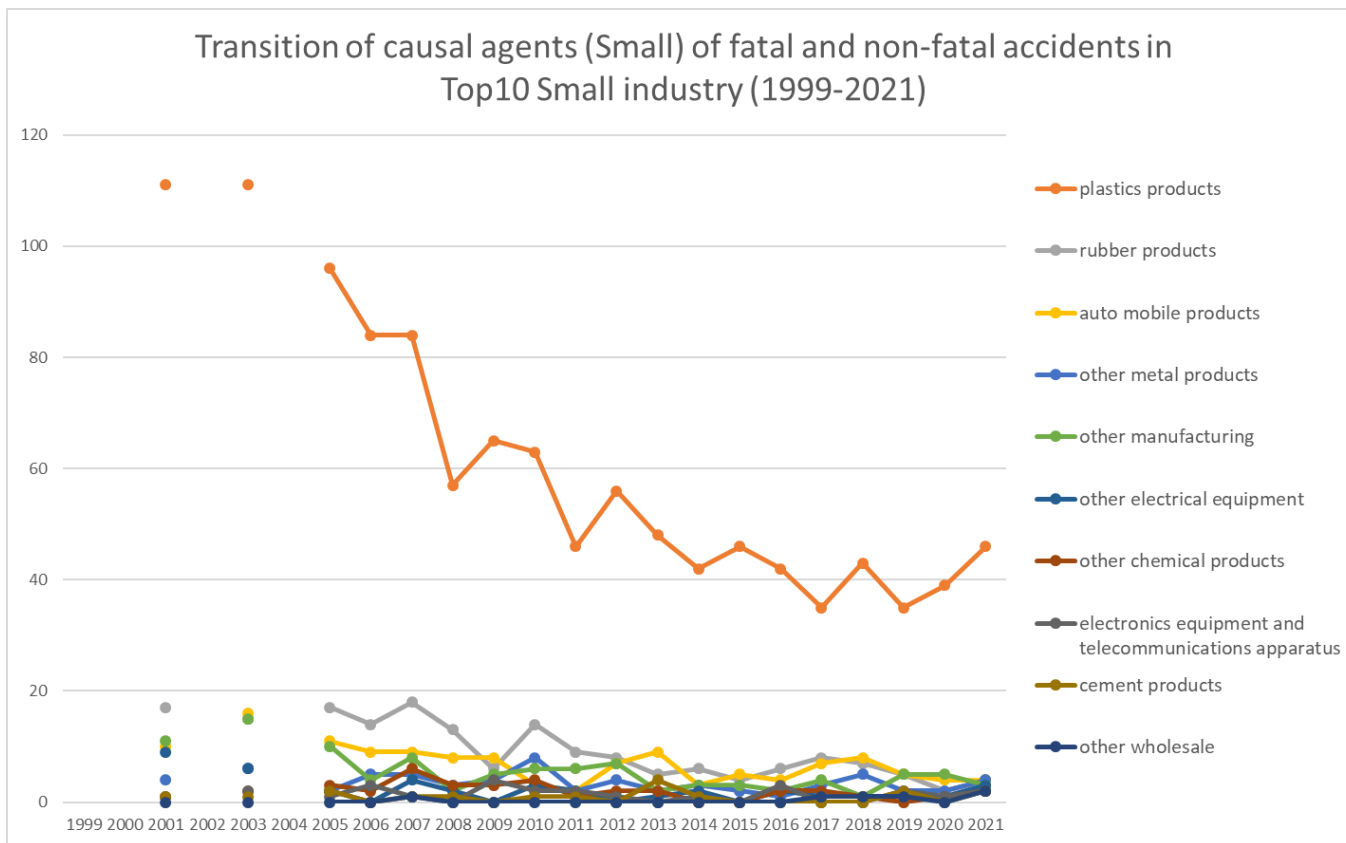
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Large industry (1999-2021)

| code | Large industry | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Large industry |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---|
| 01 | manufacturing | | | 191 | | 201 | | 172 | 141 | 159 | 105 | 115 | 116 | 87 | 102 | 96 | 72 | 71 | 69 | 70 | 91 | 72 | 67 | 80 | 2,077 | manufacturing |
| 08 | commerce | | | 1 | | 1 | | 1 | 2 | 1 | 1 | | 1 | | | | | | | 1 | 2 | 2 | 2 | 3 | 18 | commerce |
| 15 | commercial cleaning and livestock process | | | | | | | | | | 1 | 1 | 3 | 2 | | 1 | | | | 3 | 1 | 1 | 2 | 1 | 16 | commercial cleaning and livestock process |
| 03 | construction | | | | | 1 | | | 1 | | | 1 | 1 | | | | 1 | | | 1 | | | | | 6 | construction |
| 14 | hotel/restaurant/amusement service | | | | | | | | 2 | 1 | 1 | 1 | | | | | | | | | | | | | 6 | hotel/restaurant/amusement service |
| 17 | others | | | | | 1 | | 1 | | | | | | 1 | 1 | | | 1 | | | | | | | 5 | others |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-------------------------------------|--|-----|--|-----|--|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|-------|--|-------|-------------|-------------------------------------|
| 06 | agriculture | | 2 | | | | | | | | | | | | | | | 1 | | | | | | | | 3 | agriculture | |
| 04 | transportation service | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | 2 | transportation service |
| 12 | education/research service | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | education/research service |
| 13 | health and hygiene service | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | health and hygiene service |
| 02 | mining | | | | | | | | | | | | | | | | | | | | | | | | | | | mining |
| 05 | cargo handling service | | | | | | | | | | | | | | | | | | | | | | | | | | | cargo handling service |
| 07 | livestock/fishery | | | | | | | | | | | | | | | | | | | | | | | | | | | livestock/fishery |
| 09 | financial business/advertisement | | | | | | | | | | | | | | | | | | | | | | | | | | | financial business/advertisement |
| 10 | movie/play service | | | | | | | | | | | | | | | | | | | | | | | | | | | movie/play service |
| 11 | telecommunication service | | | | | | | | | | | | | | | | | | | | | | | | | | | telecommunication service |
| 16 | public office | | | | | | | | | | | | | | | | | | | | | | | | | | | public office |
| | total | | 194 | | 204 | | 174 | 146 | 162 | 108 | 119 | 121 | 90 | 104 | 97 | 73 | 73 | 69 | 75 | 95 | 76 | 71 | 84 | 2,135 | | total | | |

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 164 injection molding machine in Middle industry (1999-2021)

| code | Middle industry | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Middle industry |
|------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------------------|
| 0108 | chemical products | | | 132 | | 132 | | 121 | 103 | 111 | 75 | 76 | 81 | 57 | 70 | 56 | 49 | 51 | 52 | 45 | 52 | 42 | 43 | 55 | 1,403 | chemical products |
| 0115 | transport equipment products | | | 10 | | 16 | | 11 | 10 | 9 | 8 | 8 | 3 | 2 | 7 | 11 | 3 | 5 | 4 | 7 | 8 | 6 | 4 | 5 | 137 | transport equipment products |
| 0114 | electrical equipment products | | | 13 | | 10 | | 4 | 4 | 6 | 2 | 6 | 7 | 4 | 1 | 3 | 4 | | 5 | 1 | 2 | 3 | 3 | 5 | 83 | electrical equipment products |
| 0112 | metal products | | | 5 | | 8 | | 2 | 6 | 6 | 4 | 4 | 9 | 2 | 4 | 2 | 4 | 3 | 1 | 4 | 5 | 2 | 2 | 5 | 78 | metal products |
| 0117 | other manufacturing | | | 11 | | 16 | | 10 | 5 | 9 | 2 | 8 | 7 | 7 | 7 | 2 | 3 | 4 | 2 | 4 | 1 | 6 | 5 | 4 | 113 | other manufacturing |
| 0109 | sand and stone products | | | 4 | | 1 | | 4 | 1 | 2 | 1 | 3 | 4 | 6 | 4 | 8 | 1 | 3 | 3 | 3 | 1 | 3 | 2 | 4 | 58 | sand and stone products |
| 0101 | food products | | | 3 | | 4 | | 3 | 1 | 4 | 2 | 2 | | 1 | 5 | 4 | 1 | 2 | | | 4 | 2 | 3 | 2 | 43 | food products |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|--|--|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|------------------------------------|
| 010801 | non organic or organic chemical products | | | | | 1 | | 2 | 1 | 2 | 1 | 1 | | 1 | 3 | | | 1 | 1 | | 1 | 1 | 1 | 17 | non organic or organic chemical products | |
| 010903 | pottery products | | | 2 | | | | | | 1 | | | 2 | 3 | 1 | 1 | | 2 | 1 | | | 2 | 1 | 16 | pottery products | |
| 150102 | industrial waste management service | | | | | | | | | | 1 | 1 | 3 | 1 | | 1 | | | | 2 | | 1 | | 11 | industrial waste management service | |
| 010106 | soft drinks | | | 1 | | 1 | | 1 | | | | | | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 10 | soft drinks | |
| 010807 | leather products | | | 1 | | | | 1 | 1 | | | | | | 1 | | | | | | | | 1 | 5 | leather products | |
| 010902 | glass products | | | | | | | 1 | | | | | | | 1 | | | 1 | 1 | | | | 1 | 5 | glass products | |
| 011703 | cleaning | | | | | 1 | | | | | 1 | | | | | | 1 | | | | 1 | | 1 | 5 | cleaning | |
| 080201 | all kinds of retail | | | 1 | | 1 | | 1 | 1 | | | | | | | | | | | | | | 1 | 5 | all kinds of retail | |
| 010809 | chemical fertilizer products | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | 1 | 4 | chemical fertilizer products | |
| 011509 | other transport equipment products | | | | | | | | 1 | | | | | | 1 | | | | | | | 1 | | 1 | 4 | other transport equipment products |
| 011204 | metal plating products | | | | | 1 | | | | | 1 | | | | | | | | | | | | 1 | 3 | metal plating products | |
| 011301 | machine products | | | 1 | | 4 | | 4 | 3 | 2 | 4 | 2 | 1 | 1 | | 3 | 2 | 1 | 1 | 2 | 5 | 2 | 3 | | 41 | machine products |
| 011102 | nonferrous metals casting products | | | 3 | | 3 | | 2 | 3 | 4 | 5 | 2 | 1 | 1 | 2 | 2 | | 1 | | 2 | 5 | | | | 36 | nonferrous metals casting products |
| 011402 | electrical appliance | | | 2 | | 2 | | 1 | 1 | 1 | | 2 | 1 | | | 2 | 1 | | | | 1 | | 1 | | 15 | electrical appliance |
| 011002 | casting products | | | 2 | | 1 | | 2 | | 1 | | 1 | | | 1 | | 1 | | | 2 | 3 | | | | 14 | casting products |
| 011305 | other precision machine products | | | 2 | | 1 | | 1 | | 1 | 1 | | 2 | 1 | | 1 | | 1 | | | | 1 | 1 | | 13 | other precision machine products |
| 010909 | other sand and stone products | | | | | | | | | 1 | 1 | | | | | | | 2 | 1 | 1 | | | | | 9 | other sand and stone products |
| 010104 | bread/cake products | | | | | | | | | | 1 | | 1 | 2 | 3 | | | | | | 1 | | | | 8 | bread/cake products |
| 010602 | paper processing products | | | 1 | | | | 2 | 1 | | | 1 | | | | | 1 | | | | 1 | 1 | | | 8 | paper processing products |
| 010804 | petroleum/coal products | | | 1 | | 2 | | 1 | | 1 | | 1 | | | | | | | | | 1 | 1 | | | 8 | petroleum/coal products |
| 010309 | other fiber products | | | | | | | 2 | 1 | | | 1 | | 1 | 1 | | | | | | | | | | 6 | other fiber products |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--------------------------------------|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|--------------------------------------|------------------------------|
| 010904 | fire resisting products | | | | 1 | | | | | | | | | | 2 | 1 | | | | 1 | | 1 | | | | | 6 | fire resisting products | |
| 011109 | other nonferrous metal products | | | | | 1 | | 2 | | | | | | | | 1 | 1 | | | | | | | | | | 6 | other nonferrous metal products | |
| 011203 | metal press products | | | | | 1 | | | 1 | | | | | | | | 1 | 1 | | | | | | | | | 6 | metal press products | |
| 080209 | other retails | | | | | | | | 1 | | 1 | | | | | | | | | | | | 1 | 1 | 2 | | 6 | other retails | |
| 010102 | fishery products | | | | 1 | | | 1 | | 1 | | | | | | | | | | | | | | 2 | | | 5 | fishery products | |
| 010609 | other pulp/paper processing products | | | | | | 2 | | | | | | | | | | 1 | | | | | | | | | | 5 | other pulp/paper processing products | |
| 010905 | other ceramic products | | | | | | | | | | 1 | | 1 | 1 | 1 | | | | | | | | | | 1 | | 5 | other ceramic products | |
| 011101 | nonferrous metals/rolling products | | | | | 1 | | | | | | | | | | | 1 | | 1 | 1 | | | | | 1 | | 5 | nonferrous metals/rolling products | |
| 140201 | general restaurant | | | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | 1 | | 5 | general restaurant | |
| 011304 | watch products | | | | | | | | | 2 | 1 | 1 | | | | | | | | | | | | | | | 4 | watch products | |
| 011702 | machine repair | | | | | | | | | 1 | 1 | | | | | | 1 | | | | | | | | | | 4 | machine repair | |
| 150103 | other waste disposal service | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | 2 | 4 | other waste disposal service |
| 170209 | others | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | others | |
| 010601 | pulp/paper | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 3 | pulp/paper | |
| 010701 | printing service | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3 | printing service |
| 010709 | other printing and bookbinding | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | other printing and bookbinding | |
| 010803 | pharmaceuticals | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 | pharmaceuticals | |
| 011302 | measuring instruments | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | measuring instruments | |
| 010101 | meat/dairy products | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | meat/dairy products | |
| 010209 | other textile products | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | other textile products | |
| 010409 | other lumber and wood products | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | other lumber and wood products | |
| 010808 | painting products | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | painting products | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|--|--|--|---|--|--|--|--|--|---|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|---|---|
| 011303 | optical instruments | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | 2 | optical instruments |
| 011401 | heavy electrical equipment | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | heavy electrical equipment |
| 011701 | auto mobile servicing | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | 2 | auto mobile servicing |
| 030302 | machinery/apparatus setting work | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | machinery/apparatus setting work |
| 040301 | general truck transportation service | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | general truck transportation service |
| 060101 | agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | agriculture |
| 010203 | weaving | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | weaving |
| 010301 | over/under wear | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | over/under wear |
| 010402 | plywood | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | plywood |
| 010501 | wood furniture | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | wood furniture |
| 011001 | steel/iron/rolling products | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | steel/iron/rolling products |
| 011009 | other steel products | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | other steel products |
| 011201 | western tableware/cutting tool products | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | western tableware/cutting tool products |
| 011202 | screw products | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | screw products |
| 011501 | ship building | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | ship building |
| 030199 | other civil engineering work | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | other civil engineering work |
| 030202 | wooden house construction work | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | wooden house construction work |
| 030203 | building facility construction work | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | building facility construction work |
| 030209 | other building construction work | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | other building construction work |
| 060201 | lumbering | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | lumbering |
| 080409 | other commerce | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | other commerce |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| 020201 | quarrying | | | | | | | | | | | | | | | | | | | | | quarrying |
| 020202 | gravel digging | | | | | | | | | | | | | | | | | | | | | gravel digging |
| 020209 | other quarrying | | | | | | | | | | | | | | | | | | | | | other quarrying |
| 020301 | metal mining | | | | | | | | | | | | | | | | | | | | | metal mining |
| 020302 | petroleum mining | | | | | | | | | | | | | | | | | | | | | petroleum mining |
| 020309 | other mining | | | | | | | | | | | | | | | | | | | | | other mining |
| 030101 | hydroelectric plant construction work | | | | | | | | | | | | | | | | | | | | | hydroelectric plant construction work |
| 030102 | tunnel construction work | | | | | | | | | | | | | | | | | | | | | tunnel construction work |
| 030103 | subway construction work | | | | | | | | | | | | | | | | | | | | | subway construction work |
| 030104 | railway construction work | | | | | | | | | | | | | | | | | | | | | railway construction work |
| 030105 | bridge construction work | | | | | | | | | | | | | | | | | | | | | bridge construction work |
| 030106 | road construction work | | | | | | | | | | | | | | | | | | | | | road construction work |
| 030107 | river civil engineering work | | | | | | | | | | | | | | | | | | | | | river civil engineering work |
| 030108 | sand collapse prevention civil engineering work | | | | | | | | | | | | | | | | | | | | | sand collapse prevention civil engineering work |
| 030109 | land consolidation civil engineering work | | | | | | | | | | | | | | | | | | | | | land consolidation civil engineering work |
| 030110 | water supply/sewage construction work | | | | | | | | | | | | | | | | | | | | | water supply/sewage construction work |
| 030111 | port/seaside construction work | | | | | | | | | | | | | | | | | | | | | port/seaside construction work |
| 030201 | steel frame/reinforced concrete house construction work | | | | | | | | | | | | | | | | | | | | | steel frame/reinforced concrete house construction work |
| 030301 | electricity/telecommunication work | | | | | | | | | | | | | | | | | | | | | electricity/telecommunication work |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|--|--|-----|--|-----|--|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|--|-------|-------|
| 130309 | other health and hygiene service | | | | | | | | | | | | | | | | | | | | | | | other health and hygiene service | | |
| 140209 | other restaurants | | | | | | | | | | | | | | | | | | | | | | | other restaurants | | |
| 140301 | golf course | | | | | | | | | | | | | | | | | | | | | | | golf course | | |
| 140302 | park and amusement park | | | | | | | | | | | | | | | | | | | | | | | park and amusement park | | |
| 140309 | other amusement service | | | | | | | | | | | | | | | | | | | | | | | other amusement service | | |
| 150104 | cremation service | | | | | | | | | | | | | | | | | | | | | | | cremation service | | |
| 150105 | livestock process service | | | | | | | | | | | | | | | | | | | | | | | livestock process service | | |
| 150109 | other cleaning and livestock process service | | | | | | | | | | | | | | | | | | | | | | | other cleaning and livestock process service | | |
| 160101 | public office | | | | | | | | | | | | | | | | | | | | | | | public office | | |
| 170201 | security service | | | | | | | | | | | | | | | | | | | | | | | security service | | |
| 170202 | information processing service | | | | | | | | | | | | | | | | | | | | | | | information processing service | | |
| | total | | | 194 | | 204 | | 174 | 146 | 162 | 108 | 119 | 121 | 90 | 104 | 97 | 73 | 73 | 69 | 75 | 95 | 76 | 71 | 84 | 2,135 | total |

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

https://www.jisha.or.jp/english/statistics/202212_03.html