

# Risk Assessment

## according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J


author: Lingong  
 date: 2024.01.10



|     |   |  |               |                                   |
|-----|---|--|---------------|-----------------------------------|
| 1   | Determination of limits, intended use                         | See below  |               | Reference to additional documents |
| 1.1 | use allowed   | The mobile elevated work platform allows users to work at a certain height   |               | Manual                            |
| 1.2 | restrictions, limits of use allowed                           | The machine cannot be used to other propose  |               | Manual                            |
| 1.3 | foreseeable misuse/misapplication                             | See AS/NZS 1418.10:2011 clause 1: scope.   |               | Manual                            |
| 2   | Field of use  | See below  |               |                                   |
|     | private   | N/A  |               | N/A                               |
|     | commercial  | Professional   |               | Manual                            |
| 3   | User population   | Task   | Qualification |                                   |
|     | qualified personnel   | Required   | YES           | Training Evidence                 |
|     | laities   | N/A  | N/A           | N/A                               |
|     | apprentices   | N/A  | N/A           | N/A                               |
|     | private use only:   |  |               |                                   |
|     | children (declare age class )                                 | <input type="checkbox"/> age above          years  |               | N/A                               |
|     | older people  | <input type="checkbox"/>   |               | N/A                               |
|     | handicapped   | <input type="checkbox"/> kind of handicap  |               | N/A                               |
| 4   | Materials   | See below  |               |                                   |
| 4.1 | dangerous operating supplies                                  | <input checked="" type="checkbox"/> Electricity <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Thermal <input type="checkbox"/> Radiation |               | Manual                            |
| 4.2 | Dangerous materials in the parts the machine is consisting of | The machine is not consisting of dangerous materials   |               | Manual                            |
| 4.3 | Dangerous materials which may be processed by the machine     | No dangerous materials processed by the machine  |               | N/A                               |

The phases of life according to AS 4024 include: transport, assembling, installation, placing into operation, setup, teaching, programming, changeover, working process, cleaning, process interferences, troubleshooting, fault clearance, maintenance, placing out of operation, disassembling, waste disposal



| <h1 style="text-align: center;">Risk Assessment</h1> <h2 style="text-align: center;">according to AS 4024.1301</h2> |                    |                    |                        | Manufacturer: Lingong Heavy Machinery Co., Ltd.<br>machine: Mobile Elevated Work Platform<br>serial number: AR11J |                         |           | author: Lingong<br>date: 2024.01.10 |                        |  |    |   |
|---|--------------------|--------------------|------------------------|---|-------------------------|-----------|-------------------------------------|------------------------|---|----|---|
|   |                    |                    |                        | <b>Identification of hazards</b>  |                         |           |                                     | <b>Risk evaluation</b> |   |    | <b>Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III</b> |
| Phase of life   | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal   | Description of solution | Standards | S                                   | F                      | P   | pl | Statement   |

|   |                                     |  |  |  |  |  |  |  |  |  |  |
|---|-------------------------------------|--|--|--|--|--|--|--|--|--|--|
| 1 | Transport, assembling, installation |  |  |  |  |  |  |  |  |  |  |
|---|-------------------------------------|--|--|--|--|--|--|--|--|--|--|

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|     |                                   |   |  |                                      |   |   |  |  |  |  |    |
|-----|-----------------------------------|---|--|--------------------------------------|---|---|--|--|--|--|----|
| 1.1 | Hazards associated with all tasks | <input checked="" type="checkbox"/> Errors of fitting<br><input checked="" type="checkbox"/> Lifting<br><input checked="" type="checkbox"/> Loading<br><input checked="" type="checkbox"/> Packing<br><input checked="" type="checkbox"/> Transportation<br><input checked="" type="checkbox"/> Unloading<br><input checked="" type="checkbox"/> Unpacking<br><input checked="" type="checkbox"/> Packing<br><input checked="" type="checkbox"/> Adjustments<br><input checked="" type="checkbox"/> Assembly<br><input checked="" type="checkbox"/> Connecting to disposal system (e.g. exhaust system, waste water installation)<br><input checked="" type="checkbox"/> Connection to power supply<br><input checked="" type="checkbox"/> Demonstration<br><input checked="" type="checkbox"/> Feeding, filling, loading of ancillary fluids (e.g. | <input checked="" type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine , components and accessories | <p>Inherently safe machinery design and inform users of the residual risks:</p> <p>Detail description for transportation, assembling and installation of machine are mentioned in manual.</p> | AS/NZS 1418.10:2011 and MSD as reference, |  |  |  |  | OK |
|-----|-----------------------------------|---|--|--------------------------------------|---|---|--|--|--|--|----|

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|                           |                    | lubricant, grease, glue) |                        |                               |                         |           |  |   |   |    |           |

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|-----|-----------------------------------|---|-----------|-----------|-----------|---|--|--|--|--|----|
| 1.2 | Hazards associated with all tasks | <input checked="" type="checkbox"/> Fixing, anchoring<br><input checked="" type="checkbox"/> Preparations for the installation (e.g. foundations, vibration isolators)<br><input checked="" type="checkbox"/> Running the machine without load<br><input checked="" type="checkbox"/> Testing<br><input checked="" type="checkbox"/> Trials with load or maximum load<br><input type="checkbox"/> Fencing | See above | See above | See above | AS/NZS 1418.10:2011 and MSD as reference, |  |  |  |  | OK |
|-----|-----------------------------------|---|-----------|-----------|-----------|---|--|--|--|--|----|

| 2 Placing into operation |                                   |              |              |              |              |              |  |  |  |  |    |
|--------------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--|--|--|--|----|
| 2.1                      | Hazards associated with all tasks | Refer to 1+3 | Refer to 1+3 | Refer to 1+3 | Refer to 1+3 | Refer to 1+3 |  |  |  |  | OK |

| 3 Setup, teaching, programming, changeover |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
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|     |                                   |  |  |                        |  |  |  |  |  |  |    |
|-----|-----------------------------------|--|--|------------------------|--|--|--|--|--|--|----|
| 3.1 | Hazards associated with all tasks | <input checked="" type="checkbox"/> Adjustment and setting of protective devices and other components<br><input checked="" type="checkbox"/> Adjustment and setting or verification of functional parameters of the machine<br><input type="checkbox"/> Clamping /fastening the workpiece<br><input type="checkbox"/> Feeding, filling, loading of raw material<br><input checked="" type="checkbox"/> Functional test, trials<br><input checked="" type="checkbox"/> Mounting or changing tools, tool setting<br><input type="checkbox"/> programming verification<br><input checked="" type="checkbox"/> Verification of the final product | <input checked="" type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine and components | <p>Inherently safe machinery design and inform users of the residual risks:</p> <p>Refer to AS/NZS 1418.10:2011, clause 7 and manual</p> | AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) + MSD as reference, |  |  |  |  | OK |
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| Phase of life             | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |
|                           |                    |                    |                        |                               |                         |           |  |   |   |    |           |

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|---|--------------------|--------------------|------------------------|---|-------------------------|-----------|-------------------------------------|------------------------|---|----|---|
|   |                    |                    |                        | <b>Identification of hazards</b>  |                         |           |                                     | <b>Risk evaluation</b> |   |    | <b>Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III</b> |
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|   |                        |
|---|------------------------|
| 4 | <b>Working process</b> |
|---|------------------------|



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|-----|--------------------|---|--|--|---|--|--|--|--|--|----|
| 4.1 | Mechanical Hazards | <input checked="" type="checkbox"/> Acceleration, deceleration (kinetic energy)<br><input checked="" type="checkbox"/> Angular parts<br><input checked="" type="checkbox"/> Approach of a moving element to a fixed part<br><input checked="" type="checkbox"/> Cutting parts<br><input checked="" type="checkbox"/> Elastic elements<br><input checked="" type="checkbox"/> Falling objects<br><input checked="" type="checkbox"/> Gravity (stored energy)<br><input checked="" type="checkbox"/> Height from the ground<br><input checked="" type="checkbox"/> High pressure<br><input checked="" type="checkbox"/> Machinery mobility<br><input checked="" type="checkbox"/> Rotating elements<br><input checked="" type="checkbox"/> Rough, slippery surface<br><input checked="" type="checkbox"/> Sharp edges | <input checked="" type="checkbox"/> Being run over<br><input type="checkbox"/> Being thrown<br><input checked="" type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input checked="" type="checkbox"/> Drawing-in or trapping<br><input checked="" type="checkbox"/> Entanglement<br><input checked="" type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Slipping, tripping and falling<br><input checked="" type="checkbox"/> Stabbing or puncture<br><input type="checkbox"/> Suffocation |  | <p>Inherently safe machinery design and construction, take necessary protection measures and inform users of the residual risks:</p> <p>Refer to AS/NZS 1418.10:2011, clause 7 and manual</p> | AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) |  |  |  |  | ok |
|-----|--------------------|---|--|--|---|--|--|--|--|--|----|

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|                           |                    | <input checked="" type="checkbox"/> Stability<br><input type="checkbox"/> Vacuum |                        |                               |                         |           |  |   |   |    |           |

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|---------------------------|--------------------|--|---|---|--|--|--|---|---|----|-------------|
| Phase of life             | Hazard group, type | Origin group, type   | Potential consequences  | occurrence or protection goal   | Description of solution  | Standards  | S  | F | P | pl | Statement   |
| 4.2                       | See 4.1/4.3        | See 4.1/4.3  | See 4.1/4.3   | See 4.1/4.3   | See 4.1/4.3  | See 4.1/4.3  |  |   |   |    | See 4.1/4.3 |
| 4.3                       | Electrical Hazards | <input type="checkbox"/> Arc<br><input type="checkbox"/> Electromagnetic phenomena<br><input checked="" type="checkbox"/> Electrostatic phenomena<br><input checked="" type="checkbox"/> Live parts<br><input type="checkbox"/> Not enough distance to live parts under high voltage<br><input checked="" type="checkbox"/> Overload<br><input checked="" type="checkbox"/> Parts which have become live under fault conditions<br><input checked="" type="checkbox"/> Short-circuit<br><input type="checkbox"/> Thermal radiation | <input checked="" type="checkbox"/> Burn<br><input type="checkbox"/> Chemical effects<br><input type="checkbox"/> Effects on medical implants<br><input checked="" type="checkbox"/> Electrocutation<br><input checked="" type="checkbox"/> Falling, being thrown<br><input checked="" type="checkbox"/> Fire<br><input type="checkbox"/> Projection of molten particles<br><input checked="" type="checkbox"/> Shock | Any risk related to electrical fault will be checked automatically and view check according to manual | <b>Inherently safe machinery design and construction:</b><br><br>Refer to AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1)<br><br>No electronic circuit for safety circuit | AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) as reference, |  |   |   |    | See 4.1     |

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|---------------------------|--------------------|--|--|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type   | Potential consequences   | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |
| 4.4                       | Thermal Hazards    | <input type="checkbox"/> Explosion<br><input type="checkbox"/> Flame<br><input type="checkbox"/> Objects or materials with a high or low temperature<br><input type="checkbox"/> Radiation from heat sources | <input type="checkbox"/> Burn<br><input type="checkbox"/> Dehydration<br><input type="checkbox"/> Discomfort<br><input type="checkbox"/> Frostbite<br><input type="checkbox"/> Injuries by the radiation of heat sources<br><input type="checkbox"/> Scald | Not relevant                  | Not relevant            | N/A       |  |   |   |    | N/A       |

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|-----|---------------|--|---|--------------------|--|-------------------------|--|--|--|--|----|
| 4.5 | Noise hazards | <input type="checkbox"/> Cavitation phenomena<br><input type="checkbox"/> Exhausting system<br><input type="checkbox"/> Gas leaking at high speed<br><input checked="" type="checkbox"/> Manufacturing process (stamping, cutting etc)<br><input checked="" type="checkbox"/> Moving parts<br><input type="checkbox"/> Scraping surfaces<br><input type="checkbox"/> Unbalanced rotating parts<br><input type="checkbox"/> Whisting pneumatics<br><input checked="" type="checkbox"/> Worn parts | <input checked="" type="checkbox"/> Discomfort<br><input type="checkbox"/> Loss of awareness<br><input type="checkbox"/> Loss of balance<br><input type="checkbox"/> Permanent hearing loss<br><input checked="" type="checkbox"/> Stress<br><input type="checkbox"/> Tinnitus<br><input type="checkbox"/> Tiredness<br><input type="checkbox"/> Any other (e.g. mechanical, electrical) as a consequence of an interference with speech communication or with acoustic signals | Refer to comments. | <b>Inform users of the residual risks:</b><br>The manual has indicated the sound pressure level below 70dB | AS/NZS 1418.10:2011+MSD |  |  |  |  | OK |
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|     |                   |   |  |  |   |                     |  |  |  |  |    |
|-----|-------------------|---|--|--|---|---------------------|--|--|--|--|----|
| 4.6 | Vibration Hazards | <input type="checkbox"/> Cavitation phenomena<br><input checked="" type="checkbox"/> Misalignment of moving parts<br><input checked="" type="checkbox"/> Mobile equipment<br><input type="checkbox"/> Scraping surfaces<br><input type="checkbox"/> Unbalanced rotating parts<br><input type="checkbox"/> Vibrating equipment<br><input checked="" type="checkbox"/> Worn parts | <input checked="" type="checkbox"/> Discomfort<br><input type="checkbox"/> Low-back morbidity<br><input type="checkbox"/> Neurological disorder<br><input type="checkbox"/> Osteo-articular disorder<br><input type="checkbox"/> Trauma of the spine<br><input type="checkbox"/> Vascular disorder | Vibration will neither make the passenger uncomfortable nor damage the structure | Inherently safe machinery design protects the vibration from discomforting passengers and from damaging the structure. Dynamic load test performed and found satisfactory | AS/NZS 1418.10:2011 |  |  |  |  | OK |
|-----|-------------------|---|--|--|---|---------------------|--|--|--|--|----|

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|--|--------------------|--|--|---|-------------------------|-----------|-------------------------------------|--|---|----|-----------|
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| Phase of life                                | Hazard group, type | Origin group, type   | Potential consequences   | occurrence or protection goal   | Description of solution | Standards | S                                   | F  | P   | pl | Statement |
| 4.7  | Radiation Hazards  | <input type="checkbox"/> Lionising radiation source<br><input type="checkbox"/> Low frequency electromagnetic radiation<br><input type="checkbox"/> Optical radiation (infrared, visible and ultraviolet), including laser<br><input type="checkbox"/> Radio frequency electromagnetic radiation | <input type="checkbox"/> Burn<br><input type="checkbox"/> Damage to eyes and skin<br><input type="checkbox"/> Effects on reproductive capability<br><input type="checkbox"/> Genetic mutation<br><input type="checkbox"/> Headache, insomnia, etc. | Not relevant  | Not relevant            | N/A       |                                     |  |   |    | N/A       |

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|-----|-----------------------------------|---|---|--------------|--------------|-----|--|--|--|--|-----|
| 4.8 | Material/<br>substance<br>hazards | <input type="checkbox"/> Aerosol<br><input type="checkbox"/> Biological and microbiological (viral or bacterial) agent<br><input type="checkbox"/> Combustible<br><input type="checkbox"/> Dust<br><input type="checkbox"/> Explosive<br><input type="checkbox"/> Fibre<br><input type="checkbox"/> Flammable<br><input checked="" type="checkbox"/> Fluid<br><input type="checkbox"/> Fume<br><input type="checkbox"/> Gas<br><input type="checkbox"/> Mist<br><input type="checkbox"/> Oxidizer | <input type="checkbox"/> Breathing difficulties, suffocation<br><input type="checkbox"/> Cancer<br><input type="checkbox"/> Corrosion<br><input type="checkbox"/> Effects on reproductive capability<br><input checked="" type="checkbox"/> Fire<br><input type="checkbox"/> Infection<br><input type="checkbox"/> Mutation<br><input type="checkbox"/> Poisoning<br><input type="checkbox"/> Sensitization<br><input type="checkbox"/> Static electricity risk | Not relevant | Not relevant | N/A |  |  |  |  | N/A |
|-----|-----------------------------------|---|---|--------------|--------------|-----|--|--|--|--|-----|



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|-----|-------------------|--|---|--|----------------------------------|-----------------------------------|--|--|--|--|----|
| 4.9 | Ergonomic hazards | <input checked="" type="checkbox"/> Access<br><input type="checkbox"/> Disign or location of indicators and visual displays units<br><input checked="" type="checkbox"/> Design, location or identification of control devices<br><input type="checkbox"/> Effort<br><input type="checkbox"/> Flicker, dazzling, shadow, stroboscopic effect<br><input type="checkbox"/> Local lighting<br><input type="checkbox"/> Mental overload/underload<br><input type="checkbox"/> Posture<br><input type="checkbox"/> Repetitive activity<br><input type="checkbox"/> Visibility | <input checked="" type="checkbox"/> Discomfort<br><input type="checkbox"/> Fatigue<br><input type="checkbox"/> Musculoskeletal disorder<br><input type="checkbox"/> Stress<br><input type="checkbox"/> Any other (e.g.mechanical, electrical) as a consequence of human error | The position of control device need to be taken into account<br>The access means need to be taken into account | Inherently safe machinery design | AS/NZS 1418.10:2011 as reference, |  |  |  |  | OK |
|-----|-------------------|--|---|--|----------------------------------|-----------------------------------|--|--|--|--|----|

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|---------------------------|--|--|---|---|--|---|--|---|---|----|-----------|
| Phase of life             | Hazard group, type   | Origin group, type   | Potential consequences  | occurrence or protection goal                   | Description of solution  | Standards                               | S  | F | P | pl | Statement |
| 4.10                      | Hazards associated with environment in which the machine is used | <input checked="" type="checkbox"/> Dust and fog<br><input checked="" type="checkbox"/> Electromagnetic disturbance<br><input checked="" type="checkbox"/> Lighting<br><input type="checkbox"/> Moisture<br><input checked="" type="checkbox"/> Pollution<br><input checked="" type="checkbox"/> Snow<br><input checked="" type="checkbox"/> Temperature<br><input checked="" type="checkbox"/> Water<br><input checked="" type="checkbox"/> Wind<br><input type="checkbox"/> Lack of oxygen | <input type="checkbox"/> Burn<br><input type="checkbox"/> Slight disease<br><input checked="" type="checkbox"/> Slipping, falling<br><input type="checkbox"/> Suffocation<br><input checked="" type="checkbox"/> Any other as a consequence of the effect caused by the sources of the hazards on the machine or parts of the machine | Working condition and EMC need to be considered | Inherently safe machinery design and construction and inform users of the residual risks:<br>1.2204/108/EEC addressed<br>2. Lighting for the control panel is provided and the lighting for access is indicated in the manual<br>3. Snow, wind loads are considered in the design and structural calculation<br>4. Ambient temperature is defined in the manual<br>5. All electric parts are protected by the enclosure with enough IP degree according to AS/NZS 1418.10:2011 | AS/NZS 1418.10:2011 + MSD as reference, |  |   |   |    | OK        |
| 4.11                      | Combination of hazards   | <input type="checkbox"/> E.g.repetitive activity + effort + high environmental temperature   | <input type="checkbox"/> E.g. dehydration, loss of awareness, heat stroke   | Not relevant                                    | Not relevant   | N/A                                     |  |   |   |    | N/A       |

# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                    |                    |                        | Risk evaluation               |                         |           | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|--------------------|--------------------|------------------------|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |

|      |                                    |  |   |  |  |  |  |  |  |  |    |
|------|------------------------------------|--|---|--|--|--|--|--|--|--|----|
| 4.12 | Energy loss ,breaking down hazards | <input checked="" type="checkbox"/> Failure of energy supply (incl. control circuits)<br><input checked="" type="checkbox"/> Unexpected ejection of machine parts or fluid<br><input type="checkbox"/> Errors of fitting | <input type="checkbox"/> Being thrown<br><input checked="" type="checkbox"/> Cutting or severing<br><input checked="" type="checkbox"/> Drawing-in or trapping<br><input type="checkbox"/> Entanglement<br><input checked="" type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Slipping, tripping and falling<br><input checked="" type="checkbox"/> Stabbing or puncture<br><input type="checkbox"/> Suffocation | All risk related to unexpected starting or energy loss need to be taken into account | Inherently safe machinery design and construction, take necessary protection measures:<br><br>1. Brakes and cut-off valves are designed to be engaged as soon as the power losses, preventing the lift from falling. | AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) + MSD as reference, |  |  |  |  | OK |
|------|------------------------------------|--|---|--|--|--|--|--|--|--|----|


# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                    |                    |                        | Risk evaluation               |                         |           | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|--------------------|--------------------|------------------------|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |
|                           |                    |                    |                        |                               |                         |           |  |   |   |    |           |

| <h1 style="text-align: center;">Risk Assessment</h1> <h2 style="text-align: center;">according to AS 4024.1301</h2> |                    |                    |                        | Manufacturer: Lingong Heavy Machinery Co., Ltd.<br>machine: Mobile Elevated Work Platform<br>serial number: AR11J |                         |           | author: Lingong<br>date: 2024.01.10 |                        |  |    |   |
|---|--------------------|--------------------|------------------------|---|-------------------------|-----------|-------------------------------------|------------------------|---|----|---|
|   |                    |                    |                        | <b>Identification of hazards</b>  |                         |           |                                     | <b>Risk evaluation</b> |   |    | <b>Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III</b> |
| Phase of life   | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal   | Description of solution | Standards | S                                   | F                      | P   | pl | Statement   |

|   |          |  |  |  |  |  |  |  |  |  |  |
|---|----------|--|--|--|--|--|--|--|--|--|--|
| 5 | Cleaning |  |  |  |  |  |  |  |  |  |  |
|---|----------|--|--|--|--|--|--|--|--|--|--|

# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                    |                    |                        | Risk evaluation               |                         |           | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|--------------------|--------------------|------------------------|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |

|     |                                   |  |   |                                      |  |   |  |  |  |  |    |
|-----|-----------------------------------|--|---|--------------------------------------|--|---|--|--|--|--|----|
| 5.1 | Hazards associated with all tasks | <input checked="" type="checkbox"/> Adjustments<br><input type="checkbox"/> Cleaning, disinfection<br><input type="checkbox"/> Dismantling /removal of parts, components, devices of the machine<br><input type="checkbox"/> Housekeeping<br><input checked="" type="checkbox"/> Isolation end energy dissipation<br><input checked="" type="checkbox"/> Lubrication<br><input checked="" type="checkbox"/> Replacement of worn parts<br><input type="checkbox"/> Resetting<br><input type="checkbox"/> Restoring fluid levels<br><input type="checkbox"/> Verification of parts, components, devices of the machine | <input checked="" type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input checked="" type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine , components and accessories | <p>Inherently safe machinery design and inform users of the residual risks:</p> <p>Refer to AS/NZS 1418.10:2011 and manual</p> | AS/NZS 1418.10:2011 + MSD as reference, |  |  |  |  | OK |
|-----|-----------------------------------|--|---|--------------------------------------|--|---|--|--|--|--|----|

# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                    |                    |                        | Risk evaluation               |                         |           | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|--------------------|--------------------|------------------------|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |

6 Process interferences, troubleshooting, fault clearance

# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
machine: Mobile Elevated Work Platform  
serial number: AR11J

author: Lingong  
date: 2024.01.10



| Identification of hazards |                                   |   |  | Risk evaluation                      |  |  | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|-----------------------------------|---|--|--------------------------------------|--|--|--|---|---|----|-----------|
| Phase of life             | Hazard group, type                | Origin group, type  | Potential consequences   | occurrence or protection goal        | Description of solution  | Standards  | S  | F | P | pl | Statement |
| 6.1                       | Hazards associated with all tasks | <input checked="" type="checkbox"/> Adjustments<br><input checked="" type="checkbox"/> Dismantling /removal of parts, components, devices of the machine<br><input checked="" type="checkbox"/> Faultfinding<br><input checked="" type="checkbox"/> Isolation end energy dissipation<br><input checked="" type="checkbox"/> Recovering from control and protective devices failure<br><input type="checkbox"/> Recovering from jam<br><input checked="" type="checkbox"/> Repairing<br><input checked="" type="checkbox"/> Replacement of parts, components, devices of the machine<br><input checked="" type="checkbox"/> Rescue of trapped persons<br><input checked="" type="checkbox"/> Resetting | <input checked="" type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine , components and accessories | Inherently safe machinery design and inform users of the residual risks:<br><br>Refer to AS/NZS 1418.10:2011 clause 5 and manual | AS/NZS 1418.10:2011+ AS 60204.1-2005(+A1) + MSD as reference |  |   |   |    | OK        |




# Risk Assessment according to AS 4024.1301

Manufacturer: Lingong Heavy Machinery Co., Ltd.  
 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                    |   |                        | Risk evaluation               |                         |           | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|--------------------|---|------------------------|-------------------------------|-------------------------|-----------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type | Origin group, type  | Potential consequences | occurrence or protection goal | Description of solution | Standards | S  | F | P | pl | Statement |
|                           |                    | <input checked="" type="checkbox"/> Verification of parts, components, devices of the machine |                        |                               |                         |           |  |   |   |    |           |

| <b>Risk Assessment<br/>according to AS 4024.1301</b> |                    |                    |                        | Manufacturer: Lingong Heavy Machinery Co., Ltd.<br>machine: Mobile Elevated Work Platform<br>serial number: AR11J |                         |           | author: Lingong<br>date: 2024.01.10 |  |  |    |           |
|--|--------------------|--------------------|------------------------|---|-------------------------|-----------|-------------------------------------|--|---|----|-----------|
| Identification of hazards                            |                    |                    |                        | Risk evaluation   |                         |           |                                     | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |    |           |
| Phase of life  | Hazard group, type | Origin group, type | Potential consequences | occurrence or protection goal   | Description of solution | Standards | S                                   | F  | P   | pl | Statement |

|  |                                   |   |   |                                      |   |                                  |  |  |  |  |    |
|--|-----------------------------------|---|---|--------------------------------------|---|----------------------------------|--|--|--|--|----|
| <b>7 Maintenance</b>   |                                   |   |   |                                      |   |                                  |  |  |  |  |    |
| 7.1  | Hazards associated with all tasks | <input checked="" type="checkbox"/> Adjustments<br><input type="checkbox"/> Cleaning, disinfection<br><input checked="" type="checkbox"/> Dismantling /removal of parts, components, devices of the machine<br><input type="checkbox"/> Housekeeping<br><input checked="" type="checkbox"/> Isolation end energy dissipation<br><input checked="" type="checkbox"/> Lubrication<br><input checked="" type="checkbox"/> Replacement of worn parts<br><input checked="" type="checkbox"/> Resetting<br><input type="checkbox"/> Restoring fluid levels<br><input checked="" type="checkbox"/> Verification of parts, components, devices of the machine | <input type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine , components and accessories | Inherently safe machinery design and inform users of the residual risks:<br><br>Refer to AS/NZS 1418.10:2011 clause 7 | AS/NZS 1418.10:2011 as reference |  |  |  |  | OK |
| <b>8 Placing out of operation, disassembling, waste disposal</b> |                                   |   |   |                                      |   |                                  |  |  |  |  |    |

# Risk Assessment according to AS 4024.1301

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 machine: Mobile Elevated Work Platform  
 serial number: AR11J

author: Lingong  
 date: 2024.01.10



| Identification of hazards |                                   |   |   | Risk evaluation                      |  |                                  | Risk estimation, AS 4024 or ISO 13849-1 or type I/II/III |   |   |    |           |
|---------------------------|-----------------------------------|---|---|--------------------------------------|--|----------------------------------|--|---|---|----|-----------|
| Phase of life             | Hazard group, type                | Origin group, type  | Potential consequences  | occurrence or protection goal        | Description of solution  | Standards                        | S  | F | P | pl | Statement |
| 8.1                       | Hazards associated with all tasks | <input checked="" type="checkbox"/> Disconnection and energy dissipation<br><input checked="" type="checkbox"/> Dismantling<br><input checked="" type="checkbox"/> Lifting<br><input checked="" type="checkbox"/> Loading<br><input checked="" type="checkbox"/> Packing<br><input checked="" type="checkbox"/> Transportation<br><input checked="" type="checkbox"/> Unloading | <input type="checkbox"/> Crushing<br><input checked="" type="checkbox"/> Cutting or severing<br><input type="checkbox"/> Friction or abrasion<br><input checked="" type="checkbox"/> Impact<br><input type="checkbox"/> Injection<br><input checked="" type="checkbox"/> Shearing<br><input checked="" type="checkbox"/> Stabbing or puncture | Machine , components and accessories | Inherently safe machinery design and inform users of the residual risks:<br><br>Refer to AS/NZS 1418.10:2011 | AS/NZS 1418.10:2011 as reference |  |   |   |    | OK        |