

RISK & HAZARD MANAGEMENT

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|------------------|-----|------------------------|-----|-----------------------|----------|--------------------------|------|
| JLG Machine Type | K13 | Safe Working Load (kg) | 200 | Max. Drive Height (m) | No Drive | Max. Platform Height (m) | 10.9 |
|------------------|-----|------------------------|-----|-----------------------|----------|--------------------------|------|

INTRODUCTION/SCOPE

The aim of this report is to conduct an investigation into the hazards¹ and risks involved with the operation, maintenance, servicing, inspection, transportation and storage of the above plants². Our aim is to ensure people at work (and any other personnel) are protected against health and safety risks associated with the use of the plant detailed within this report. Possible hazards and risks are to be assessed with respect to use of the plant and control measures incorporated to maximise safety. For each identified risk the probability and consequences of occurrence are assessed and the control measures implemented to reduce this risk as far as practicable³. Additional measures taken to control risk are also listed. The following procedure will be used:

- 1. Identifying Hazards** - associated with the plant or 'systems of work'⁴
- 2. Risk and Hazard Likelihood** - The probability of a hazard occurring, and the probable consequence associated with that hazard occurring.
- 3. Controls implemented to reduce Hazards & Risks** - these include design and any other measures which are put in place to reduce risks and hazards as far as practicable.

NOTE: This assessment is based on the design of the unit prior to additional hazard control measures incorporated into the Australian build design.

TABLE 1: RISK & HAZARD LIKELYHOOD

| HAZARD | (A) Likelihood of Occurring | (B) Consequence of Occurring | RISK SCORE* |
|----------------------|-----------------------------|------------------------------|---|
| As listed in Table 2 | (1) Rare | (1) First Aid | Risk Scores* are found by adding likelihood (A) & consequence (B) of occurrence together. Risk Scores range from 2-12 |
| | (2) Very Low | (2) Casualty | |
| | (3) Low | (3) Hospitalisation | |
| | (4) Moderate | (4) Disabled | |
| | (5) High | (5) Fatality | |
| | (6) Very High | (6) Numerous Fatalities | |

* The higher the risk score the larger the requirement for the hazard to be addressed and guarded against. Please see Table 1 for identification of hazard types checklist.

¹ A hazard is anything with potential to cause injury, illness or harm when the plant is operated, maintained, serviced, repaired, inspected, transported and stored.

² Plant in this case is defined as a K13J elevating work platform.

³ JLG considers that "reducing the risk as far as practicable" to be an undertaking of out duty of care in that we have addressed the potential to exposure to a risk during design and manufacture and have adhered to the required standards during this time. Any identified additional risks raised during this assessment have been addressed and eliminated for normal machine operation by trained personnel.

⁴ Systems of work describe all operating/maintenance procedures and in general systems used by workers in servicing, inspecting, transportation and storage

TABLE 2
***HAZARD TYPE CHECKLIST**

| | |
|--|--|
| A. CRUSHING. ENTANGLEMENT. CUTTING. STABBING. PUNCTURING. SHEARING. FRICTION. STRIKING. | <ul style="list-style-type: none"> -can anyone's hair, clothing, gloves, cleaning apparatus or any other materials become entangled in moving parts, or objects in motion. -crushing due to material falling from plant. -uncontrolled motion or unexpected movement of plant. -inadequate stopping devices of plant to control movement. -support structure collapse. -being thrown from or within plant. -cutting, stabbing & puncturing due to contact with sharp or flying objects. -parts of plant or worksite material disintegrating or falling. -movement of plant. -can anyone's body parts be sheared between moving parts or surfaces of the plant. -can anyone be burnt due to contact with moving parts or surfaces of the plant. -can anyone be struck by moving objects due to uncontrolled or unexpected movement of plant or work pieces. |
| B. ERGONOMIC. SLIPPING. TRIPPING. FALLING . | <ul style="list-style-type: none"> -can anyone be injured due to poorly designed seating or repetitive body movements. -constrained body posture or the need for excessive effort. -design inefficiency causing mental or psychological stress. -inadequate or poorly placed lighting of plant or workers. -lack of failsafe measures against human error. -mismatch of plant with natural human limitations. |
| C. HIGH PRESSURE FLUIDS. HIGH TEMPERATURES. FIRE/EXPLOSION. | <ul style="list-style-type: none"> -can anyone come into contact with fluids under high pressure, due to plant failure or misuse. -can anyone come into contact with objects at high temperatures, or objects which can cause fire or burning. -can anyone suffer illness due to exposure to high or low temperatures. -can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances triggered by the operation of the plant or work pieces. |
| D. SUFFOCATION. DROWNING. | <ul style="list-style-type: none"> -can anyone be suffocated or drowned due to lack of oxygen, or atmospheric contamination. |
| E. ELECTRICAL. | <ul style="list-style-type: none"> -can anyone be injured by electric shock due to the plant coming into contact with live conductors. -plant being too close to high-tension power lines. -overload of electrical circuits. -electrical wiring or switch shorting. -lack of insulation against water contact shorting. -magnetic interference from workplace corrupting electrical components. |
| F. STABILITY. | <ul style="list-style-type: none"> -can machine tip or roll over due to outriggers not extending. -outriggers failing mechanically, or retract unintentionally. -control valve or interlock failure. -set up on soft ground, unlevel or uneven ground, excessive slope. -driving on rough surfaces, over potholes, hitting fixed objects, excessive side loads e.g. wind. |
| G. HYDRAULIC FAILURE. | <ul style="list-style-type: none"> -hydraulic system failure. -check valve or relief valve failure. -hose or cylinder failure - mechanical or fatigue. |
| H. STRUCTURAL FAILURE. | <ul style="list-style-type: none"> -boom or scissor arm failure due to fatigue, corrosion, or overloading. -pin, cable or linkage failure. -general overload- lifting excessive load, loading platform/ basket in an unintended way. |
| I. MAINTENANCE. | <ul style="list-style-type: none"> -can anyone be injured while carrying out routine, preventative or corrective maintenance. -explosion due to welding spark etc. near charging battery -adjusting equipment for essential components faulty or seized. -guard removal. |
| J. TRANSPORT. | <ul style="list-style-type: none"> -can anyone be injured due to machine instability while transporting. -plant or objects falling from transport truck. |
| K. OCCUPATIONAL HAZARDS | <ul style="list-style-type: none"> -plant obstructing other plants at site. -unauthorised use by untrained personnel. -unintended use of duplicate controls while working. -hearing loss or communication interference due to excessive noise. -safety signs or decals removed. -energy supply failure (chemical, electrical or mechanical). |

* Table 2 is based upon N.Z Chamber of Manufacture hazard identification guide, & specifications from the Elevating Work Platform purchasing Specification and Operating Guide by the Electricity Association NSW - 1996, and pr EN280.

| TABLE 3 - HAZARD TYPES (K13 LIFTS) | RELEVANT CODE* ADDRESSED | RISK SCORE** | DESIGN CONTROL MEASURES (To reduce risk as far as practicable) | ADDITIONAL STEPS TAKEN TO REDUCE RISK |
|--|--|-----------------|---|---|
| A. CRUSHING, ENTANGLEMENT, CUTTING, STABBING, PUNCTURING, SHEARING, FRICTION, STRIKING. | Design Code AS1418.10-1.5.11 Operational Code 2550.10-9 Plant Code 81/1995-305. | | Guards are provided in accordance with plant code requirements for guarding. Guarding is of a fixed permanent nature which can only be removed with tools. Over and above ANSI/SIA A92.3 a motion alarm is fitted to Australian units to warn of any movement. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. The manual provided with the plant is in accordance with AS1418.10-1.4. Warning decals are placed on the plant, and safe operating procedures are placed in the manual. |
| -Entanglement | | 1+3 | Due to design, only two main entanglement points exist between boom and turntable where there are no finger width gaps. The second between wheels and turntable when slewing; again, no tight gaps. | Crushing hazard decals are clearly displayed on the machine. Warnings are placed in manual to prevent entanglement. |
| -Crushing, shearing | | 1+3 | See above. | The boom is clearly labelled with warning decals due to the potential crushing hazard associated with boom type plants. Correct maintenance and operating procedures and safety instructions are placed in the manual. |
| -Friction | | 1+1 | Operators are not subject to friction as there are no high-speed exposed components. Mechanical failure due to friction is reduced with self-lubricating bushes & wear pads. Friction points have grease nipples to facilitate lubrication. Engine lubrication points can be easily accessed. | Locations of lubrication points are shown on a chart in the manual. Manual indicates approximate lubrication schedule and types of lubricant to be used. |

* Design Codes used at time of publication are Australian AS1418.10-1996 & AS2550.10-1994, American ANSI/SIA A92.16-1992, European EN280
Codes of practice used at time of publication are the Australian OHS Plant Code No.81/1995.

** See Table 1 for Risk Ratings

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|---|--------------------------------------|-----------------|---|---|
| -Striking | | 1+3 | Plant does not have own drive, striking someone while driving is not a problem. Enable switches prevent striking due to inadvertent platform movements. Alarm sounds to warn people that the platform is moving. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. The manual provided with the plant is in accordance with AS1418.10-1.4. Warning decals are placed on the plant, and safe operating procedures are placed in the manual |
| -Cutting, stabbing, puncturing | | 1+1 | Contact surfaces such as handles and platform entry points have no sharp edges. Controls are ergonomically designed. The platform is low mounted for easy access and has a non-slip mesh floor. | As above. |
| B. ERGONOMIC, SLIPPING, RIPPING, FALLING | Design Code AS1418.10-1.10,1.5.10 | 1+1 | Interlocks are provided to ensure against inadvertent operation by user when in a hazardous situation. Operators are protected from falling from platform with a solid peripheral rail around entire platform. Access gate is self-closing. A red emergency stop button is positioned at top and ground controls. Safety harness attachment points are provided for intended number of operators. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10 |
| -Seating | N/A | 0 | No seating required | |
| -Excessive effort, bad posture | Design Code AS1418-1.10 | 1+1 | Controls are either of lever, toggle or button type. Non-assisted controls are minimised using electrical actuation. Where controls are mechanical in nature operating effort is reduced as far as practicable. | Safe operating procedures are placed in the manual. Operator can use handrails near control box for support. |

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|--|---|-----------------|--|--|
| -Operating stress | | 1+1 | Control panels use pictures for functions, and switches, which control direction operate in that direction. Handrails are provided around control station for support during motion. | Warning decals are used to warn of incorrect operating procedures. |
| -Lighting | | 1+1 | Where lighting is requested, positional spotlights are fixed to mounts on the platform rail at waist height. | |
| C. HIGH TEMP OR PRESSURE FIRE/EXPLOSION | Design Code AS1418.10-1.14 Maintenance Code AS2550.10-10 | 1+2 | High temperature components (motor and pump) are positioned within turntable. High-pressure hydraulic hoses are secured together with fasteners and in potential failure areas (tight radius bends) are covered in spiral wrap or similar conduit. | These hazards are related to incorrect and or lack of maintenance. Correct inspection and maintenance procedures are placed in the manual. Regular maintenance in accordance with AS2550.10 is required. |
| -high pressure fluid jets | Design Code AS3791 | 1+2 | Hydraulic hoses used have a bursting pressure several times that of the working pressure. | Inspection and maintenance procedures (including warnings) are placed in manual. |
| -high temperatures | Design Code AS1418.10-1.5.11.3 | 1+1 | Hot surfaces are positioned within turntable covers. | Operating & maintenance procedures are placed in manual. |
| D. SUFFOCATION / DROWNING | N/A | 0 | Exhaust gas is directed away from the operator. The size of machine prevents operation in confined spaces, therefore exhaust gas inhalation is not considered to pose a problem. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. |
| E. ELECTRICAL | Design Code AS3000 AS1418.10-1.7 | | This EWP is not fitted with high voltage (i.e. above 32V AC). Those units fitted with 240 V AC. outlets have an earth leakage circuit breaker and wiring is in accordance to AS3000 as applicable. | A decal warning of insulation protection and electrical hazard as per AS1418.10-1.15(j)/(m) is placed on the plant. Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. |
| -Accidental electrical shock | | 1+1 | Cables insulated & secured to plant. Major current carrying cables are colour coded. Cables have protective rubber boots over connection points to prevent contact shorting during maintenance. | Regular inspections to AS2550.10. Maintenance procedures are placed in the manual maintenance should be carried out by trained personnel. |

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|---|---|-------------------------|--|---|
| -Loose wire shorts | | 2+1 | Connectors used are either insulated crimp lugs, locking plastic plugs, or permanent type clamps. Wiring is protected against rubbing in exposed areas with flexible cable conduits. | Correct maintenance procedures in manual. Fuses fitted to main cables. |
| -Working too close to power lines | Design Code AS1418.10-1.5.13.2(b) Operational Code AS2550.10-9.3 | 3+3 | Machine is clearly marked with electrical warning decals to reduce the risk. | Warning decals are placed on the machine and the machine is marked non-insulating. Safe operating procedures and instructions consult local authorities are in the manual. |
| -Electromagnetic interference | Design Code AS3000 | 1+1 | Design is sufficient for normal use. | Plants are fitted with shielding for special applications. |
| -Water bridging | | 2+1 | Cables are clamped together with ties to prevent vibration damage. Sealed control boxes and connectors are used. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. |
| -Pump or motor failure | Design Codes AS1418.10-1.5.8 | 3+1 | In the advent of electrical or mechanical failure, manual lowering systems are installed on the machine. Platform and ground controls are recessed or under cover to prevent damage from inadvertently hitting objects while driving. In advent of failure, holding valves, a hand pump and manual decent valves are in place. | Maintenance and fault finding information contained in the manual. |
| F. STABILITY | Design Code EN280 AS1418.10-4.2 | | The plant is designed to meet EN280/AS1418.10 for stability. In and out of service braking provided. | The plant is tested in accordance with ANSI/SIA A92.6-4.7, and AS1418.10 for stability requirements. Upon commissioning of a new machine the customer is provided with a short operator training session which reduces the chance of the machine being put in an unstable position. |
| -Outrigger failure | Design Code AS1418.10-1.5.12 | 0 | Holding valves are in place in case of hydraulic failure. | Indicator lights enable the operator to see if outriggers are in place from the ground controls. |

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|--|---|-----------------|--|--|
| -Control valve or interlock failure | Design Code AS1418.10-1.8,1.10.4 AS1418.1-8.8 | 1+3 | Interlocks are self-monitoring i.e. they are normally off/open so that in the event of malfunction motion is prevented. Holding valves are installed to prevent decent due to hydraulic failure. A manual mechanically actuated emergency descent is installed for emergency retrieval. A hand pump is also installed to allow operation in advent of power failure. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. A daily inspection list is included in the manual which details checking of manual descent. The manuals provided with the plant are in accordance with AS1418.10-1.4. |
| -Set-up hazards (eg. slope, side force) | Operational Code AS2550.1 Design Code AS1418.10-1.10.2/4 Design Code As1418.10-1.15 | 2+4 | Interlocks do not allow booms to be raised unless outriggers are in firm contact with the ground. | A permanent type specification plate is permanently attached to the plant which shows S.W.L., max slope, max side force and wind speed etc. Warning decals are placed on machine, and safe operating procedures are placed in the manual. |
| -Travelling hazards (eg. rough surface, dynamic loading.) | Design Code AS418.10-1.125.2.3(a) AS1418.10-1.5.10.6 Operational Code AS2550.10-9.1/2/3 | 2+4 | Machine is not self-propelled. Outriggers must be in firm contact with the ground before using boom functions. Brakes provided on trailer. | Warning decals are placed on machine, and safe operation and transportation procedures placed in the manual. A permanent type specification plate is stamped with machine design limits. |
| G. HYDRAULIC FAILURE | Design Code AS1418.10-1.8 | | Relief valves are used to prevent over pressurising the hydraulic system. Holding valves prevent unsafe descent in the advent of failure. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. The manuals provided with the plant are in accordance with AS1418.10-1.4. |
| -check or relief valve failure | | 1+2 | Manual descent valves are installed to allow emergency retrieval in the advent of failure. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. The manuals provided with the plant are in accordance with AS1418.10-1.4. |
| -general failure | | 1+2 | As above. Hand pump also provided. | As above |
| H. STRUCTURAL FAILURE | Design Code AS1418.10-1.5.4 ANSI/SIA A92.6-4.5 ANSI/SIA A92.3-4.2 | | Rigorous stress analysis and testing is used to ensure structural soundness before introduction to the workplace. | Design calculations have been reviewed by a local independent engineer. Also the plant has been overload tested at 1.25 times the S.W.L. required by AS1418.10. |

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|---|---|-------------------------|---|--|
| -component failure due to fatigue | Design Code AS1418.10-1.5.6 | 2+4 | Fatigue calculations/testing performed as part of design process. | Regular inspection in accordance with AS2550.10. Annual inspections are required as stated in manual. A full 10-year rebuild is also required per AS2550. |
| -component failure due to corrosion or wear | | 2+4 | Corrosive surfaces are painted, components subject to wear have provisions to minimise wear by using sacrificial components or lubrication. Components which are not self-lubricating have grease nipples provided. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. The manuals provided with the plant are in accordance with AS1418.10-1.4. Lubrication points and a schedule for maintenance are included in the manual to reduce chance of fatigue. |
| -general overload eg. use as a crane (which is unintended). | | 1+4 | A relief valve is used to prevent excessive loads being lifted by the platform. Tools are required to alter pressure settings. Test points are provided for checking of pressures. | Warning decals are placed on machine to show safe working loads. Safe operating procedures are placed in manual - manuals explicitly state that the plant should not be used as a crane. Correct pressure settings are placed in the manual. |
| I. MAINTENANCE | Design Code AS1418.10-1.14.3 Maintenance Code AS2550.10-10 | | Historical records are used in design to reduce maintenance (and thus risk) as far as practicable. | Inspection and maintenance procedures are placed in the manual and are to be in accordance with AS2550.10-10. |
| -routine inspection or maintenance | | 0 | Components which require regular maintenance such as filters are placed in an easily accessed area. | Illustrated parts manuals are available to help in ordering replacement parts. Additional to this, JLG conducts operator and service training courses to all customers. |
| -battery charging | Design Code AS3000 | 1+1 | Battery is automatically charged while engine is running and, as it is only being trickle charged, gas (hydrogen) build-up is not considered a problem. | Service instructions are placed in the manual. |

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|---|-------------------------------------|-------------------------|--|--|
| -adjusting equipment | Design Code AS1418.10-1.8 | 0 | Test points are provided for checking of pressure settings eg. drive and lift relief. Adjustment points require tools to change. | Correct adjusting procedures are placed in the manual. Hydraulic (and other) specifications are listed to enable adjustment. |
| -guard removal | Plant code 81/1995-305 | 1+2 | Guards are provided and are of a fixed permanent nature which can only be removed with tools. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. |
| J. TRANSPORT | Operational Code AS2550.10-9.4 | 0 | Plant can be towed by another vehicle. | Decals are placed on the plant to clearly label any lifting/tie down points. Safe transportation procedures are placed in the manual. |
| -objects falling from plant | Design Code AS1418.10-1.5.10.3. | 1+2 | Components are designed to withstand vibration, and are tested in harsh conditions. The platform has a kick plate around periphery of platform to prevent objects falling. | Inspection and maintenance procedures are placed in the manual and are to be done in accordance with AS2550.10-10. |
| -unintended use | AS1418.10-1.5.8 | 2+3 | Only one set of controls may be used at one time. Plants have a removable key switch which prevents operation by unintended personnel. A clearly visible emergency stop button is positioned at top and bottom controls to stop unintended movement. | Correct operating procedures are placed in the manual. Warning decals are placed on the machine. Safety warnings are also placed in the manual. Additional to this, JLG conducts operator and service training courses to all customers. |
| -excessive noise | Design Code AS1055.2/AS1269 | 1+1 | Motor is under cover and within acceptable sound limits. | Where noise is considered excessive, level testing is done to AS1055.2/AS1269. |
| K. OCCUPATIONAL HAZARDS | Operational Code AS2550.10 | | Plants with duplicate controls can be over-ridden from ground for emergency retrieval. | Safe operating procedures are placed in the manual in agreement with AS2550.10. |
| -decal or safety sign removal | AS1418.10-1.15 | 3+3 | Decals have permanent type marking & weatherproof backing. Specification plate is stamped for longevity. | Safety warnings are placed in manual. Annual inspection requires that decals are checked for readability and are in place. |
| -energy supply failure | Various | 1+2 | Holding valves are in place. A hand pump and manual decent valves allow the boom to be lowered in the advent of power failure. | Emergency retrieval instructions are placed in the manual. |

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OTHER SAFETY RELATED INITIATIVES

Please Note: That the risk assessment compiled and attached is prepared in ADDITION to many other activities which have been undertaken by JLG to ensure the safety of the product.

These include:

- European CE design reviews are completed and independently verified for this model machine.
- Independent design review by an independent engineer to local design requirements is completed in Australia.
- JLG Industries (Australia) offer training and maintenance courses to any interested companies and all machines come with a world class Operation, Safety, Service and Maintenance manual.
- JLG Industries (Australia) support industry safety for operations and maintenance (being an EWPA member and an AS1418 & AS2550 Standards Association of Australia committee member).