AUSTRALIAN RISK ASSESSMENT for TRACKED CRAWLER MEWP

REV	DATE	DESCRIPTION	PAGE	Author	Controlled B y
00	1/12/23	Emission	33	AR	SA

IMER ACCESS AERIAL PLATFORMS	**Australian Risk Assessment**

Risk Assessment for IMR13T – IMR15DA – IMR19SAEVO – IMR23DA (petrol/diesel/lithium version)

Code: STE000560ENR00	Controlled by: SA	Revision	**00**

Part 1System Description

Date Revsion:	12/2023
Manufacturer:	IMER International SPA
Product:	Aerial Work Platform

Machinery Information	
Machine	Aerial Work Platform
Varients	IMER 13/ IMER 15/ IMER 19/ IMER 23 PETROL/DIESEL/LITHIUM
Options	no
Manufacturers Experience	good
Known accidents for this type of machinery	no
Machinery standards	AS/NZS 1418.10/Amdt 1
Other relevant standards	AS 4024.1301, AS 60204.1, AS 4024.1604
Expected Use and Limits of Use	
The Machinery is intended for the sole purpose of	This machine is intended to be used only to lift personnel, along with their tools and materials to an aerial work site. License is required
Machinery is to be used in the following sector (Industrial / Non Industrial / Domestic)	Industrial
Machinery is intended to be operated by	Skilled
Are there any physical limiting factors?	NO
Anticipated level of training of Machinery installer(s)	Skilled
Anticipated level of training of Machinery operator(s)	Skilled
Anticipated level of training of Machinery maintainer(s)	Skilled
Anticipated level of training of other Machinery operator(s)	Skilled
Are there other persons exposed to the Machinery hazards, such as adjacent machines?	No
Will operators be safety trained?	YES
Are members of the public exposed to the Machinery hazards?	NO
Mass and dimensions of the machinery	Refertomanuals
Maximum speed of the machinery (Linear / Rotational modes of travel)	Refer to manuals
Machinery is designed for a foreseen life (Years)	15
The machinery uses the following energy sources (Air, Water, Electricity, Hydraulic)	Petrol/Diesel/Lithium Battery

Part 2 Risk assessment

1. Severity Group

Severity Group	People	Equipment/Facility	Property
1. Catastrophic	One or One or more fatalities	System or facility loss	Chemical release with acute, lasting environmental or public health impact
2. Severe	Disabling injury/illness	Major subsystem loss or facility damage	Chemical release with temporary environmental or public health impact
3. Moderate	Medical treatment or restricted work activity (OSHA recordable)	Minor subsystem loss or facility damage	Chemical release triggering external reporting requirements
4. Minor	First aid only	Non-serious equipment or facility damage	Chemical release requiring only routine clean-up without reporting

2. Likelihood Grouping

Likelihood Group	Expected Rate of Occurrence
A- Frequent	More than 1%
B- Likely	More than 0.2%, but not more than 1%
C- Possible	More than 0.04%, but not more than 0.2%
D- Rare	More than 0.02%, but not more than 0.04%
E- Unlikely	More than 0.002%, but not more than 0.02%
F- Unlikely	Not more than 0.002%

3. Risk Assessment Matrix

Risk Assessment Matrix		Likelihood					
		Frequent A	Likely B	Possible C	Rare D	Unlikely E	Not reasonably foreseeable F
Severity	Catastrophic 1	**Very High 24**	**Very High 23**	**High 21**	**Medium 18**	**Low 15**	**Very Low 7**
	Severe 2	**Very High 22**	**High 20**	**Medium 17**	**Low 14**	**Low 13**	**Very Low 6**
	Moderate 3	**High 19**	**Medium 16**	**Low 12**	**Low 11**	**Very Low 5**	**Very Low 4**
	Minor 4	**Low 10**	**Low 9**	**Low 8**	**Very Low 3**	**Very Low 2**	**Very Low 1**

PART 3 RISK TREATMENTS IN PLACE

This section of the report pertains to risk treatments currently in place on this item. This section must be read in conjunction with the safety section of the manufacturer's handbook. All operators must read and understand the entire contents of this section prior to operating this item. These treatments or equivalent must always remain in place whilst this item is in operation.

OPERATION						
Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
1	INCORRECT OPERATION	Operator Competency	23	Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item. If there is not a competent/licensed person available for operation of this item, then only persons who are supervised by a competent/licensed person can operate this item.	14	Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations

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2	INCORRECT OPERATION	Operation Handbook	21	The manufacturer's operation handbook has been supplied for this item. This handbook must be always available to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating. A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item. SOP should be produced for specific tasks associated with use of this item.	14	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations
3	INCORRECT OPERATION	Pre-op Checklist Elevated Work Platform – Boom	21	A pre-operational checklist is available for this Elevated Work Platform - Boom. All operators must complete this checklist prior to operating this Elevated Work Platform - Boom	14	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations

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Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
4	INCORRECT OPERATION	SOP Elevated Work Platform - Boom	21	Safe Operation Procedures are available for this Elevated Work Platform - Boom. The information in the Safe Operation Procedures must be always followed whilst operating this Elevated Work Platform - Boom.	14	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations
5	INCORRECT OPERATION	Control Labels	21	All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be always maintained in a clean and serviceable condition.	14	AS/NZS4024.1905 Section 4
6	INCORRECT OPERATION , NON-COMPLIANCE	Emergency Stop Labelling	21	The emergency stop(s) fitted to this item are clearly labelled as to the purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.	14	AS/NZS4024.1604 AS/NZS4024.10 Section 2.6.6

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Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
7	ELECTROCUTION	Electrical Approach Distances	21	This machine has a hazard warning label re: overhead electrical hazards and minimum approach distances fitted. These distances must be adhered to strictly. These labels and tables must be present, clear and legible at all times. Spotters are required when working within 5 metres of the minimum approach distance of any live electrical apparatus. Any encroach within the minimum approach distances must only occur if the following provisions have been met - 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved.	14	ISO31000

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8	POISONING, EXPLOSION , BURNS	Tank ID Label	21	The tank(s) on this item of machine have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (This includes radiator, hydraulic and petrol/diesel tanks)	14	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations
9	POOR SIGNAGE	MEWP Rated Capacity Label	21	This MEWP is fitted with a rated capacity label. Note: If more than one rated capacity then label must show the machine configurations along with the appropriate rated capacity for each configuration. This capacity must not be exceeded at any time during operation. This label must be always clear and legible whilst this item is in operation.	14	AS/NZS1418.10 Section 4.2.1

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Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
10	INSTABILITY, TIP OVER	Load Sensing System	21	This item of machine is fitted with a load sensing system that meets the following criteria - (a) will trigger once the rated capacity is reached and before 120% of the rated capacity is exceeded (b) has an acoustic audible warning alarm and flashing red light at each control position (c) if triggered while the work platform is stationary, it will prevent all movement of the work platform until the overload is removed. This system must be present and fully functional at all times whilst this item is in operation.	14	AS/NZS1418.10 Section 2.3.1.2
11	INSTABILITY, TIP OVER	Moment Sensing System	21	This item of machine is fitted with a moment sensing system that meets the following criteria a) will trigger once the moment is reached and before 110% of the rate capacity is exceeded b) has an acoustic audible warning alarm and flashing red light at each control position c) if triggered while the work platform is stationary, it will prevent all movement of the	14	AS/NZS1418.10 Section 2.3.1.2

				work platform until the overload is removed. This system must be present and fully functional at all times whilst this item is in operation.		

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12	INSTABILITY, TIP OVER	MEWP Limiting Device	21	This MEWP is fitted with one or more of the following devices to prevent movement beyond the manufacturers' permissible positions - (a) Mechanical stops (b) non-mechanical limiting devices or (c) Electrical safety devices. These device(s) must be present and fully functional at all times whilst this MEWP is in operation.	14	AS/NZS1418.10 Section 2.3.1.3
13	FIRE	Fire Extinguisher.	21	This MEWP can be fitted upon request with an approved and maintained fire extinguisher. Fire extinguisher(s) must be always present and fully functional. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements.	15	manufacturer's requirements. AS/NZS1418.10 Section 2.2.19/20
14	NON-COMPLIANCE, OPERATIONAL MALFUNCTION	Logbook	20	The logbook is available for this item, ensure that all service, maintenance, inspections and use are recorded in the log.	14	AS2550.10 Section 5.1 Section 5.2 Section 6.4.3

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15	CRUSHING	Stabilizer Legs	14	The item is fitted with horn or intermittent light. When the stabization are making, All controls are fitted with a device/method to prevent accidental operation. This device must be always fully functional whilst this item is in operation.	12	
16	ENTANGLEMENT, SHEARING, BURNS	Chassis Guard Label	14	The motor and hydraulic pump, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while motor or pump is running. These labels must be present, legible and easily seen at all times whilst this item is in operation.	12	AS/NZS4024.1201 Section 6 AS1319
17	CRUSHING, COLLISION	Warning Device (horn)	14	This item is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians. All operate automatically where appropriate (eg reversing)operators should ensure the warning devicesare functional at the start of each shift, by completing pre-start checklists. Warning devicesshould	6	ISO7731, AS/NZS1418.10 Section 2.5.11

18	CRUSHING	Operator(s) on raised platform	21	Body collision protection trip bar or anti-crush sensor equipped. When the bar or sensor is trigged, alarm or block movement.	12	AS/NZS1418.10 Section 2.5.4

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19	BURNS	Open Platform	14	Dust, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the operator both short and long term. The appropriate controls for all of these hazards must always be available whilst this item is in operation. If these controls e.g. hats, sunscreen, dust masks etc are not available then operation of this item must cease until these are made available to all operators	12	ISO31000

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20	POISONING, EXPLOSION, BURNS	Engine	22	Review Safe Operation Procedures to ensure the existence of the following: COMBUSTION ENGINES SAFE OPERATION PROCEDURES 1. Switch off the engine before refueling. 2. NEVER smoke in the vicinity of, and keep sources of sparks away from, any flammable liquid or fuel. 3. Let the engine cool down before refueling. 4. Fuels can contain substances similar to solvents. Eyes and skin should not come in contact with mineral oil products. Always wear protective gloves when refueling (not regular work gloves!). Frequently clean and change protective clothes. Do not breathe in fuel vapours. Inhalation of fuel vapours can be hazardous to your respiratory health. 5. Use extreme care when filling fuel tanks.	15	Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations

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20	POISONING, EXPLOSION, BURNS	Engine	22	6. Exercise care not to spill fuel. If a spill over the engine occurs, clean and dry the engine immediately. Fuel should not come in contact with clothes. If your clothes have become contaminated with fuel, change out of them at once. Undertake refilling operations over a non porous surface such as concrete or preferably within a bunded area to avoid spilling fuel on the ground (environmental protection). 7. Do not refuel any fuel tank or container in a closed unventilated area. Without effective ventilation, fuel vapours will accumulate near the floor creating a risk of explosion and/or causing dizziness and possible unconsciousness in nearby persons. 8. Ensure to correctly fit and firmly tighten the screw cap of the fuel tank.	15	Work Health & Safety Act & Regulations-, Occupational Health & Safety Act & Regulations

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21	ENTANGLEMENT, SHEARING, BURNS	Engine Guard Label	14	The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.	13	AS/NZS4024.1201
22	Nosie	Engine	14	The engine is covered. These covers have clear legible hazard warning label re sound power level and noise warning. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.	13	AS/NZS1418.10 Section 2.2.19

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1	Crushing, COLLISION	Operator feeds or remove	23	hold-to-run control. lifted platform travel with warning buzzer(horn). operator can observer travel direction. Operators and maintenance staff MUST NEVER attempt to bypass this important safety feature. Failure to comply with this instruction may lead to serious injury or death.	14	AS/NZS1418.10 Section 2.6
2	CRUSHING, ENTANGLEMENT, STRIKING, COLLISION	Neutral Start	23	This item has neutral start control in place. It must be always fully functional and serviceable whilst this item is in operation.	14	AS4024.1603 Section 5.4
3	CRUSHING, ENTANGLEMENT, SHEARING, PINCHING	Accidental Operation Protection	23	All controls are fitted with a device/method to prevent accidental operation. This device must be always fully functional whilst this item is in operation.	14	AS/NZS4024.1906 Section 5.1
4	CRUSHING, ENTANGLEMENT, SHEARING, BURNS, PINCHING	Safe Operator Location	21	This machine is designed so that the operator is isolated from all danger zones whilst at the operator position. This condition must always exist whilst this item is in operation.	14	AS/NZS4024.1201 Section 6

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5	CRUSHING, SLIPPING	Open Platform requirements	21	This item is fitted with an open operator work platform/basket. This basket must always meet the following criteria as a minimum whilst this item is in operation: 1. Floor is flat and non-slip 2. All handrail is at least 0.95 m 3. All handrails have a mid-rail 4. All sides and ends have a kick plate which is at least 100mm high	5	AS/NZS1418.10 Section 5.4
6	CRUSHING	Hydraulic Load Holding Devices	23	The load carrying cylinders on this item are fitted with automatic means (e.g. load-holding valves) to prevent uncontrolled movement of the unit in the case of loss of power or hydraulic failure. These devices must be always present and fully functional whilst this item is in operation.	5	AS1418.1 & AS/NZS1418.10 Section 2.9
7	TIP OVER	Platform Control Interlock	23	This work platform is fitted with controls that are interlocked to prevent operation of the platform outside the manufacturers permitted positions. This interlock must be fully functional always whiles this item is in operation.	14	AS/NZS1418.10 Section 2.6.5

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Hazard ID #	Generic Hazards	Actual Hazard – inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
8	TIP OVER	Chassis Inclination Display	23	This item is fitted with a device to indicate whether the inclination of the chassis is within the limits permitted by the manufacturer. This device must be always fully functional whilst this item is in operation. The limits set by this device must NEVER be exceeded or serious injury or death may occur.	14	AS/NZS1418.10 Section 2.2.2
9	TIP OVER	Inclination Limit Interlock	23	This MEWP designed to travel with the platform in an elevated position, as such it is fitted with an interlock which prevents continuation of travel in the selected direction once the limit of inclination has been reached. This safety device must be always fully functional during operation. Operators must not attempt to bypass this interlock.	14	AS/NZS1418.10 Section 2.2.2

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Hazard ID #	Generic Hazards	Actual Hazard – inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
10	TIP OVER	Inclination Limit Alarm	23	This item is fitted with an acoustic alarm audible at the operator work platform which is automatically activated when the limit of inclination has been reached. Operators must not continue to increase inclination once this alarm sounds. This safety device must be fully functional at all times whilst this item is in operation.	14	ISO 7731, AS/NZS1418.10 Section 2.2.2

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11	NON-COMPLIANCE	Work Platform Information Plate	21	This work platform is permanently and legibly marked with the following information – (a) The rated capacity, in kg (b) The rated capacity, given as allowable number of persons and mass of equipment, in kg I Maximum allowable wind speed, in metres per second or where the EWP is designed for use in non-wind conditions, advice to that effect (d) Whether “electrically insulated” and the level of insulation I Information related to the use and load rating of the equipment for material handling (f) Location of lanyard anchorage points and the allowable number of persons that can be connected to each point. This information must be always adhered with whilst this item is in operation	14	AS/NZS1418.10 Section 4.2

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Hazard ID #	Generic Hazards	Actual Hazard – inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
12	NON-COMPLIANCE	MEWP Manufacture Plate	21	This MEWP is permanently and legibly marked with the following information – (a) Manufacturer's or supplier's name (b) Country of manufacture I Model designation (d) Serial number I Year of manufacture (f) Rated capacity, in kilograms (g) Rated capacity, given as the allowable number of persons and mass of equipment, in kilograms (h) Maximum allowable wind speed, in metres per second (i) Maximum allowable chassis inclination (j) For insulated MEWPs, the electrical insulation rating (k) Statement of compliance with AS/NZS1418.10 This information must be always adhered with whilst this item is in operation	14	AS/NZS1418.10 Section 4.2

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Hazard ID #	Generic Hazards	Actual Hazard – inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
13	STRIKING, BURNS	Hydraulic Hoses	23	This item has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented. Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks. Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps – 1. Stop engine/power 2. Keep all bystanders clear of the work area 3. Refer to operator's manual as to methods to release pressure 4. Wait 5 minutes	14	AS2671 AS/NZS1418.10 Section 2.8.3

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14	STRIKING, BURNS	Hydraulic Hose Failure Shield	18	This item is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be always present and fully functional whilst this item is in operation.	5	ISO4413, AS2671 AS/NZS1418.10 Section 2.8.3
15	FALLING	Harness Attachment Points	23	This item is fitted with anchorage points for the safety harnesses of each operator. These anchor points must be permanently and sturdily Always attached whilst this item is in operation. All operators must employ safety harnesses always attached to these points whilst this item is in operation.	14	AS/NZS1418.10 Section 2.5.5

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Hazard ID #	Generic Hazards	Actual Hazard – inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
16	FALLING	Access Door requirements	23	This item is fitted with an operator access gate/door that meets the following requirements – 1. Is either inward opening, sliding or vertically hinged (outward opening not permitted) 2. Is self-closing 3. Is a minimum of 420mm wide 4. Inward opening gate/door must be either self-fastening or interlocked to prevent operation. These requirements must be present at all times whilst this item is in operation	14	AS/NZS1418.10 Section 2.5.6
17	FALLING, SLIPPING	Access/Egress Instruction Label	18	An instruction label is fitted adjacent access/egress areas to advise all personnel of the following – 1. Always face the item during access and egress. 2. Always maintain three points of contact during access and egress. 3. Ensure the steps are clean. 4. Never jump off machine. This label must be clear and legible at all times whilst this item is in operation.	5	ISO 31000

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18	INCORRECT OPERATION	MEWP Dead Man Controls	21	This item is fitted with a “deadman” type power-on control connected with other controls so that simultaneous actuation of two independent controls effects movement of the MEWP. This control must be always present and fully serviceable whilst this item is in operation.	5	AS/NZS1418.10 Section 2.6
10	INCORRECT OPERATION	Intuitive Controls	19	The controls fitted to this item are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be always maintained whilst this item is in operation.	5	AS/NZS4024.1906 Section 5
20	INCORRECT OPERATION, SLIPPING	Control Levers/Pedals/Buttons	16	All controls including all levers, buttons, pedals, switches etc. must be always kept non-slip and free from damage.	6	AS/NZS4024.1901 Section 4
21	INCORRECT OPERATION, OPERATIONAL MALFUNCTION	Restricted Access Switches	13	This item is fitted with a device to restrict operators. A code/key must only be given to those that have appropriate experience or training.	12	AS/NZS4024.1201 Section 6

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22	INCORRECT OPERATION	MEWP Duplicate Controls	6	This item is fitted with duplicate controls at the elevated platform and ground level. The ground level controls can override the platform controls. These safety features must be always fully functional whilst this item is in operation. This will allow platform recovery during sickness or injury to the operator.	4	AS/NZS1418.10 Section 2.6.5
23	ENTANGLEMENT, CUTTING, SHEARING	Emergency Stop Device	21	This item is fitted with an emergency stop device. The emergency stop must meet all of the following criteria whilst this item is in operation: 1. Is operational 2. Is coloured red with yellow background 3. Is easily accessible to the operator(s) at all times whilst operating this item 4. Resetting of emergency stop does not automatically restart machine 5. Is located at each operator control station. Note: All operators must be familiar with the use and effects of actuation of the emergency stop device.	14	AS/NZS4024.1604 Section 4

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24	ENTRAPMENT	Emergency Descent Device	21	This EWP is fitted with an emergency override system (e.g. a hand pump, a secondary power unit, gravity lowering valves) with instruction label adjacent the controls to this system to allow the platform to be lowered in the event of a power failure or incapacitated operator. This system and instruction label must be present, fully function and legible at all times whilst this item is in operation.	14	AS/NZS1418.10 Section 2.6.10
25	ENTANGLEMENT	Motor/pump Guards	21	The Motor/pump, pulleys and gears are guarded. These guards must be always present and fully functional and serviceable whilst this item is in operation.	14	AS/NZS4024.1601 Section 5
26	ELECTRIC SHOCK, BURNS	Battery Cover	11	All batteries fitted to this item are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be always present and fully functional and serviceable whilst this item is in operation	5	AS/NZS4024.1201 Section 6

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27	STRAINS	Controls Ergonomics	18	All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.	5	AS/NZS4024.1901 Section 4
28	Falling or ejected objects	Aerial working, materials	21	Fall restriction anchors used. Overload system used inMEWPs. Guardrail used protectedfallmaterials	14	AS/NZS4024.1201 Section 6 AS/NZS4024.10 Section 5.2.4
29	ENTANGLEMENT	Engine Guards	22	The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.	15	AS/NZS4024.1601
30	BURNS	Exhaust	9	The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.	6	AS/NZS4024.1601

MAINTENANCE						
Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
1	CURRENT OR PREVIOUS STRUCTURAL DAMAGE	Structural Integrity	24	Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.	14	AS/NZS1418.10 Section 2.3.
2	CRUSHING	MEWP Pins, connectors & pivot points	23	The components of the platform supporting structure including pins, bushes, pivot points, arms & connecting rods fitted to this item are fully functional and free from excessive wear and damage. Ensure that this is always maintained whilst this item is in operation.	14	AS/NZS1418.10 Section 2.3.

MAINTENANCE						
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3	INCORRECT OPERATION	Maintenance Manual	21	The manufacturer's maintenance manual(s) has been supplied. These manual(s) must be always available to all users and maintenance staff of this item. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item. A complete risk assessment must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece prior to use. A full assessment of the competence of people using the book(s) must also be undertaken	14	AS/NZS1418.10 Section 4.1.2
4	INSTABILITY, COLLISION	Tyres	21	The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of safety programme.	14	ISO 31000 AS/NZS1418.10 Section 4.2.11

MAINTENANCE						
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5	STRIKING, BURNS	Hydraulic Damage	21	The hydraulic hoses to this item are free from damage and protected against damage arising from contact with the structure. Ensure that hoses are free from damage and that protection is always in place whilst this item is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of safety programme.	14	AS4024, ISO4413, AS2671 AS/NZS1418.10 Section 2.9
6	NON-COMPLIANCE	90 day (quarterly) Routine Inspection	21	90 day (quarterly) routine inspection has been carried out within the last 90 days. Ensure that this occurs every 90 days and is recorded in the logbook.	14	AS2550.10 Section 5.1 Section 5.2 Section 6.4.3
7	NON-COMPLIANCE	Plant (annual) Periodic Inspection	21	Current (less than 12 months) documentation is available stating that this item has had an annual periodic inspection which has been carried out by a competent person and that this item is in a safe condition for use. This item must be re-inspected within 12 months by a competent person and new documentation be provided	14	AS2550.10 Section 5.1 Section 5.2 Section 6.4.3

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8	OPERATIONAL MALFUNCTION	Major Fluid Leaks	20	This item must always remain free from leaks whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.	6	ISO31000
9	OPERATIONAL MALFUNCTION	Service Records	20	Service and maintenance records are available for this item. These records must continue to be always managed and available as part of your service and maintenance programme. (This programme includes the undertaking of regular inspections of the item with specific reference to all OEM prescribed, scheduled and non-scheduled service and maintenance requirements).	14	Work Health & Safety Act & Regulations- , Occupational Health & Safety Act & Regulations

MAINTENANCE						
Hazard ID #	Generic Hazards	Actual Hazard - inc location, activity & persons at risk	Risk Estimation RISK Rating	Measures taken to eliminate or reduce risk	Residual Risks Estimation RISK Rating	References
10	CRUSHING, STRIKING	MEWP Rubber Tracks	21	This EWP has rubber tracks, the track weight is clearly and legibly displayed adjacent each track. NOTE: These track abels must be present, clear and legible at all times. All operators must be aware of the contents of the tracks and the handling characteristics prior to operating this item of plant. Also all operators and maintenance staff must use the appropriate machinery when handling.	15	AS/NZS1418.10