RISK ASSESSMENT OF PLANT

DATE OF ASSESSMENT: 1/07/2026	MANUFACTURER: SWIFT EQUIPMENT MODEL: PML-06	ORGANISATION:	SWIFT EQUIPMENT
PRELIMINARY ASSESSMENT FOR REVIEW	RISK ASSESSMENT METHOD USED: SAFETY REVIEW	ADDRESS:	41 South East Boulevard, Pakenham, VIC

This Hazard Identification and Risk Assessment has been prepared based on information available at the date of publication.

The assessment must be reviewed by all stakeholders and revised:

(a) Having regard to the options and general arrangement of miscellaneous equipment/facilities that may be provided on the plant according to the end users requirements or specification;
(b) According to the particular circumstances under which the plant is used and maintained;
(c) As new hazards are identified or as risks are reassessed;
(d) As new or revised control measures are implemented;
(e) As and when work procedures are altered.

Although every attempt has been made to identify reasonably foreseeable circumstances no guarantee as to the completeness of this assessment is implied or provided.

This document is not to be interpreted as a compliance assessment; a separate verification should be undertaken on items of plant to determine if they comply with all relevant Australian Standards.

Please consult the relevant Work Health Safety Regulations for information regarding obligations of parties to conduct their own risk assessment. This risk assessment has been prepared on behalf of the organisation listed above and cannot be used by other parties to discharge any duties they may have under relevant law.

Documentation

Operators manual: 80710111
Maintenance Manual:
Repair manual:
Spare parts manual:
Manual Supplements:

Description

Self-propelled	Material Hoist	Type 2	Group A	Battery powered	Non-insulated	Pedestrian Control

Sound power level <74 dBA at work platform
<85 dBA at ground controls

Safety Devices

Load Control	Position Control	Moment Limiting	Slope indication	Outriggers	Wheels	Speed Control	Motion Alarm
Load Sensing	NA	NA	Slope Alarm & interlock	NA	Filled Tyres	Elevated Drive Speed control	Motion Alarm

Options

Secondary Gaurding	Material Handler	Platform Mesh	Folding Guardrails	Work Lighting	Hydraulic AC Generator	Detachable Work Platform
NA	Yes	NA	NA	NA	NA	NA

Risk Ranking Matrix

Reference: ISO TR14121.1 Clause 6.5.2

Severity Se		Class Cl (Fr+Pr+Av) 4	5-7	8-10	11-13	14-15	Frequency Fr		Probability Pr		Avoidance Av	
Death, losing an eye or arm	4	MEDIUM	HIGH	HIGH	HIGH	HIGH	≥1 h	5	very high	5		
Permanent, losing fingers	3	LOW	MEDIUM	HIGH	HIGH	HIGH	<1 h - ≥ 24h	5	likely	4		
Reversible, medical attention	2	LOW	LOW	MEDIUM	HIGH	HIGH	<24 h - ≥ 2w	4	possible	3	impossible	5
Reversible, first aid.	1	LOW	LOW	LOW	MEDIUM	HIGH	<2 w - ≥ 1y	3	rarely	2	possible	3
							<1 y	2	negligible	1	likely	1

Severity: The severity of the harm as an outcome of the hazard.

1 Scratches, bruises that are cured by first aid.
2 More sever injury, bruises, stabbing, which require medical attention from professionals
3 Normally irreversible injury. It will be slightly more difficult to continue work after healing
4 Irreversible injury in such a way that it will very difficult to continue work, if at all.

Frequency: The average interval between frequency of exposure to the hazard.

2 The interval between exposure is more than 1 year.
3 The interval between exposure is more than 2 weeks but less than or equal to 1 year.
4 The interval between exposure is more than 1 day but less than or equal to 2 weeks.
5 The interval between exposure is more than 1 hour but less than or equal to a1day.
5 The interval between exposure is less than or equal to 1 hour.

Duration: Where the duration of the exposure is less than 10 minutes the value may be reduced to the next level.
Where the interval is less than or equal to 1 hour, the value shall not be decreased at any time.

Probability: The probability of the occurrence of the hazardous event.

1 Negligible - e.g. the component never fails, no possibility of human error.
2 Rarely - e.g. it is unlikely that the component fails, human error unlikely.
3 Possible - e.g. the component can fail, human error is possible.
4 Likely - component will probably fail, human error is likely.
5 Very High - component is not made for the application, human error is highly likely.

Avoidance: The possibility of avoiding or limiting harm.

1 Likely - e.g. contact with a moving part behind an interlock guard will avoided in most cases - if the interlock fails.
2 Possible - e.g. where there is sufficient space to avoid moving machinery.
3 Impossible - e.g. it is impossible to avoid the sudden appearance of a laser beam.

Notes on using the matrix method

The strengths of this method are:
• The analysis provides a ranking of risk.
• The method encourages the risk analyst or team to understand the hazard in order to rank the significance of the risk.

The major problems involved in applying such a method are:
• People guess levels of likelihood and consequence without sufficient analysis of the hazard or existing controls.
• The analysis methodology is applied to a risk where the circumstances of occurrence are rare. For example, suppose a person was exposed to a hazard for a short period of time, once every 10 years. Suppose also that that hazard was almost certain to cause fatality upon each exposure. It would be incorrect to use a simple methodology whereby the likelihood of the consequences was ranked relatively lowly at once in 10 years. In that particular example the likelihood of fatality is certain once exposure occurs. An amended methodology will be required to deal with those circumstances such as the fine risk score calculator.

WARNING

The risk ratings used in this document are intended to stimulate discussion from the parties affected by the use of the subject MEWP; they shall not be adopted as the most appropriate risk rating without sufficient consideration by the designer, manufacturer, management or user of the plant.

NOTES:

1	SWIFT	Refers to SWIFT EQUIPMENT Pty Ltd
2	MGMT	Refers to the person legally responsible for the use of the unit; it generally means the employer, the company or the legal entity that has responsibility under the Health and Safety legislation in the State or Territory in which the unit is being used.
3	OP	Is the operator, authorized by management and responsible for the operation and preoperational inspection and use of the unit.
4	MGMT/OP	Is a combination of both management and operators.
5	MEWP	The term MEWP refers to the Mobile Elevating Work Platform.

GENERAL NOTES:

1 This Risk Assessment has been prepared for SWIFT EQUIPMENT for the subject plant and is not transferable to other plant or parties.

2 Item Numbers refer to hazards, which can exist if the unit is not adequately maintained – e.g. Guards not fitted, gauges fail to correctly display readings etc. The measures listed to control risks arising from this type of hazard can include reference to operating procedures. Operating Procedures cannot

3 This Hazard Identification and Risk Assessment document has been prepared based on information available at the date of publication. In order to ensure this Hazard Identification, Risk Assessment, Risk Control document is both accurate and complete; “Management of the Unit” must review it:

(a) According to the particular circumstances under which the plant and/or process is used and maintained,
(b) As new hazards are identified or as risks are re-assessed,
(c) As new or revised control measures are implemented,
(d) As and when work procedures are altered.

Although every attempt has been made to identify reasonably foreseeable circumstances, no guarantee as to the completeness of this assessment is implied or provided.

4 “Preliminary” is placed in this document to indicate that the Controls listed in Columns C and E are a practicable way of controlling the risks arising out of the Hazards listed in Column B. “Preliminary” status remains in place until the “Management of the Unit” agrees that the assessment is complete and that the controls proposed are practicable.

5 Column H has been provided on the document to allow the “Management of the Unit” to record that their Hazard Identification, Risk Assessment, and Risk Control process has been completed and that all controls are in place and operating. When Column H is completed, the document becomes a record of the completeness of the process and the documentation (subject to any changes which need to be further reviewed in accordance with Item 3 above).

6 The use of the word “AND” or “&” in the supplementary risk control measure column is intended to mean that the combination of risk control measures are to be implemented on the whole not in part.

7 The determination of risk, column D, is a subjective assessment based on the following factors: exposure – the number of times humans are exposed to the risk, the probability of the hazard arising, and the consequence of the hazard – death or serious injury.

Risk management is a five-step process for controlling exposure to health and safety risks associated with hazards in the workplace.
To properly manage exposure to risks, a person must:

(a) Identify hazards;
(b) Assess risks that may result because of the hazards;
(c) Decide on appropriate control measures to prevent or minimise the level of the risks;
(d) Implement control measures; and
(e) Monitor and review the effectiveness of the measures.

Hazards and risks are NOT the same thing.

*A **hazard** is something with the potential to cause harm. This can include substances, plant, work processes or other aspects of the work environment.*
***Risk** is the likelihood that death, injury or illness might result because of the hazard.*

As examples:

• The hazard is electricity—the risk is the likelihood that a worker is electrocuted because of exposure to electrical wires that are inadequately insulated.
• The hazard is a 40 kg bag—the risk is the likelihood that a worker might suffer back strain from manually lifting 40 kg bags.
• The hazard is carbon monoxide—the risk is the likelihood that a worker might suffer carbon monoxide poisoning because they are using a petrol-operated pump in a well.

When undertaking risk management:
(a) Involve workers in the process; (it is legal requirement that all stakeholders are consulted)
(b) Don't use it to justify a decision that has already been made;
(c) Consider good industry practice; and be aware of the current State of Knowledge in relation to the hazard
(d) Record any risk management activities undertaken.

Under the relevant Workplace Health and Safety Acts, to properly manage exposure to risks, a person should consider the appropriateness of control measures in the following order (sometimes referred to as the 'Hierarchy of Control'):

(a) Eliminating the hazard or preventing the risk; or
(b) If eliminating the hazard or preventing the risk is not possible, minimising the risk by measures that must be considered in the following order:
(i) Substituting the hazard giving rise to the risk with a hazard giving rise to a lesser risk;
(ii) Isolating the hazard giving rise to the risk from anyone who may be at risk;
(iii) Minimising the risk by engineering means;
(iv) Applying administrative measures; and
(v) Using personal protective equipment.

Examples of subparagraph (iii)—redesigning work, plant, equipment, components or premises.
Examples of subparagraph (iv)—training, reasonable hours of work.

The higher in the hierarchy of control, the better and more reliable the control is. In practice, several control options are often used in combination. Personal

protective equipment is usually used in conjunction with other control measures.

Control measures must be implemented before work commences.

RISK ASSESSMENT: SWIFT EQUIPMENT PML-08												PRELIMINARY (Refer to "Notes" section)		
A	B	C				D1	D2	D	E		F	G	H
Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure	Residual Risk	Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
0	**General – Device selection and use**												
0.1	Persons could be injured when following a poor system of work in relation to the operation of this device.	Operating manual provided, part number 6071100000832 which includes maintenance instructions, detailing specifications, limitations and residual hazards associated with the operation of the machine. Provision for operators manual storage included on the machine.	4	1	2	3	6	HIGH	Prepare a documented system of work having regard to the operating specification and limitations as detailed in the owners operating manual.	LOW	Yes	MGMT/OP	
									Verify that the procedure is appropriate having regard to alternative methods that may be available.		Yes	MGMT/OP	
									Ensure operator's manual is with the unit at all times.		Yes	MGMT/OP	
0.2	Persons could be injured if the device is not suitable for the required task.	Machine specifications and limitations included in the operators manual.	4	5	3	3	11	HIGH	Ensure that the unit is adequately rated in terms of capacity, height and reach, rated inclination and mass; having regard to the required task, the site conditions and the environment.	LOW	Yes	MGMT/OP	
									Ensure the unit is suitable to operate in the work environment having regard to the possibility of exhaust emissions, exposure to wind, ground/floor capacity and proximity live electrical apparatus.		Yes	MGMT/OP	
									Source another machine if the specifications do not match the requirements for the task.		Yes	MGMT/OP	
0.3	Persons could be injured or injure others when operating the unit without sufficient information, instruction, training and supervision.	Warning in operator's manual to operate the machine in accordance with the manual. Warning in operator's manual that the machine is only to be used by authorised personnel who are qualified, trained and certified to operate the machine. Warning in operator's manual that only personnel who have read and understand the operating instructions contained within the operator's manual are permitted to use the machine.	4	4	3	3	10	HIGH	Ensure that all Standard Work Procedures (SWP's) are effectively implemented.	LOW	Yes	MGMT/OP	
									Ensure that the operator(s) have read and understand the training and instructions (which must include Manufacturer's and local information).		Yes	MGMT/OP	
									Ensure that the unit is only operated by personnel who are appropriately trained and certified.		Yes	MGMT/OP	

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A	B	C				D1	D2	D	E		F	G	H
Hazard No.	**Hazard Description -**	**Is there any risk?**											
	(the situation or parts of plant which could cause injury or illness)	**Describe the risk control measures ALREADY implemented**	**Severity**	**Frequency**	**Probability**	**Avoidance**	**Class**	**Risk Level**	**Proposed SUPPLEMENTARY risk control measure**		**Are the control measures practicable?** Yes/No	**For Action by Whom**	**Confirmation that the necessary action has been completed**
0.4	Injury as a result of site specific hazards.	List of typical site specific hazards to be checked is included in the operator's manual.	4	4	3	1	8	HIGH	Implement appropriate training to enable operators to identify particular hazards that may be encountered at the site and implement actions to ensure that they are addressed by appropriate means.	LOW	Yes	MGMT/OP	
									Ensure a site hazard assessment is conducted before use on each site.		Yes	MGMT/OP	
									Ensure appropriate systems are implemented to eliminate the hazards or adequately control the risks associated with the hazards identified.		Yes	MGMT/OP	
									Ensure that if operators are uncertain how to address a particular site hazard that they seek advice from a competent person.		Yes	MGMT/OP	
0.5	Hazards arising from lack of, or inadequate emergency procedures.	Emergency retrieval procedures are detailed in the operator's manual. Decal fitted adjacent to the emergency controls explaining the operation.	4	1	3	3	7	HIGH	Ensure operators are trained in emergency retrieval and operation.	LOW	Yes	MGMT/OP	
									Ensure that refresher training is undertaken by operators on a regular basis.		Yes	MGMT/OP	
0.6	Hazards arising from working alone.	It is not practicable to work alone.	2	2	1	3	6	LOW		LOW	Yes	MGMT	
0.7	Personnel are injured due to unauthorised use.	Key switch provided. Instructions provided in operator's manual to secure the Machine when not in use against unauthorised use. Battery cut-out switch provided.	3	2	3	1	6	MEDIUM	Ensure that workplace procedures are established regarding securing the machine at the end of each day.	LOW	Yes	MGMT/OP	
									Ensure that the unit is secured against unauthorised use at the end of each shift or when it is left unattended.		Yes	OP	
0.9	Persons injured due to unrecognised hazard.	Preliminary Hazard ID prepared and provided for review.	2	2	3	3	8	MEDIUM	Ensure that Risk Assessment has been conducted for the particular operation to be undertaken.	LOW	Yes	MGMT/OP	
									Update hazard ID as necessary (see notes on page 1).		Yes	MGMT	
									Implement risk control measures having regard to the hierarchy of control measures available.		Yes	MGMT/OP	
									Regularly review Hazard ID and update as required.		Yes	MGMT/OP	

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1	**Mechanical hazards (due to events that may arise during normal operation)**												
1.1	**Crushing hazard**												
1.1.1	Operator is crushed or suffers impact injury whilst operating the extending structure.	Warning in operator's manual to allow sufficient room to avoid contact with structures and other hazards. Lowering alarm fitted	2	1	2	1	4	LOW	Ensure that operators, observe the surroundings and move at appropriate speeds.	LOW	Yes	OP	
									If necessary ensure personnel are present to warn operator against potential obstructions and take corrective or emergency action if necessary.		Yes	MGMT/OP	
									Ensure a safe work method statement is prepared if the unit is to be engaged in operations where overhead hazards exist.		Yes	MGMT/OP	
1.1.2	Operator is crushed or suffers impact injury during travelling.	Travel Controls are provided on radio remote transmitter permitting clearnace from the chassis. Warning in operator's manual to observe direction arrows for drive and steer functions. Warning in operator's manual to maintain safe distances between the operator, the machine and fixed objects.	3	1	2	3	6	MEDIUM	Ensure that operators, observe the surroundings and move at appropriate speeds.	LOW	Yes	MGMT/OP	
									Ensure operators maintain clearance from the chassis at all times		Yes	OP	
									If necessary ensure ground personnel are present to warn operator against potential obstructions and take corrective or emergency action if necessary.		Yes	MGMT/OP	
1.1.3	Operators crushed due to inadvertent operation.	Function enable switch provided which must be pressed and held for controls to be activated (two separate actions required for movement to take place). All controls are of the hold to run type and return to neutral on being released. The direction of movement resulting from each control is clearly marked beside the control and controls are arranged for logical operation as far as possible.	3	2	1	3	6	MEDIUM	Maintain controls and their marking.	LOW	Yes	MGMT/OP	
									Ensure operators are familiar with the control layout and function.		Yes	MGMT/OP	
1.1.5	Operator crushed as a result of unit sliding down a ramp or other slippery surface.	Warning in the operators manual not to exceed the specified limits. Instructions and precautions included in operator's manual for loading and unloading [p. 54-56].	3	2	1	1	4	LOW	Ensure operators are well trained in regards to the potential hazard.	LOW	Yes	MGMT/OP	
									Ensure the unit is not set up on ramps or other slippery surfaces.		Yes	OP	
1.1.6	Operator crushed or suffers impact injury as result of incorrect travel direction.	Direction arrows fitted to platform controls and chassis.	3	2	1	1	4	LOW	Train operators to be aware of these hazards.	LOW	Yes	MGMT	
									Ensure operators are familiar with the system and to follow/observe the direction arrows on the unit		Yes	MGMT/OP	
1.1.7	Ground personnel crushed whilst machine is operating during normal use.	Control positions provide the operator with visual contact with the resulting platform movements. Warning in operator's manual [p. 14] check the surrounding area for obstructions before raising or lowering.	3	3	1	1	5	MEDIUM	Ensure that the area around the unit is controlled and barricaded.	LOW	Yes	MGMT/OP	
									Ensure that ground personnel keep clear while it is in operation.		Yes	OP	
									Ensure that personnel do not enter the area underneath the platform.		Yes	MGMT	

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Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
1.2	**Shearing hazard**												
1.2.1	Personnel injured due to shear hazard at elevating mechanism (booms, mast, articulating/scissor arms etc.).	Operator located away from hazard during normal operation.	3	2	1	1	4	LOW	Ensure personnel are trained and aware of this hazard.	LOW	Yes	MGMT/OP	
		Audible alarm fitted which sounds whenever the platform is lowering.							Ensure that all guards are in place before operation.		Yes	OP	
		Warning labels fitted at shear hazard locations.							Ensure that personnel keep clear of moving parts whilst the unit is in motion.		Yes	OP	
1.2.4	Shear hazard to personnel closing guards, engine covers or battery doors.	Gas strut provided to assist in supporting the mass of the cover.	1	2	1	3	6	LOW	Ensure that operators are aware of the residual risks.	LOW	Yes	MGMT/OP	
1.3	**Cutting or severing hazard**												
1.3.1	Cuts from sharp edges arising from damaged components		1	2	1	3	6	LOW	Ensure that any damage to the unit is rectified to remove sharp edges.	LOW	Yes	MGMT/OP	
1.4	**Entanglement hazard**												
1.4.1	Hazard number not used.	See 11.1											
1.5	**Drawing-in or trapping hazard**												
1.5.1	Hazard number not used.	See 11.1											
1.6	**Impact hazard**												
1.6.1	Impact injury to personnel from unit collision with vehicular traffic.	Unit painted in bright colours to increase its visibility.	1	2	2	3	7	LOW	Implement a traffic management system.	LOW	Yes	MGMT/OP	
									Ensure a traffic management system is enforced, should the unit be exposed to vehicular traffic.		Yes	MGMT/OP	
1.7	**Stabbing or puncture hazard**							NS					
1.8	**Friction or abrasion hazard**							NS					

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1.9	**High pressure fluid injection hazard**												
1.9.1	Injury as a result of a high pressure hydraulic leak while operating or maintaining the unit.	Operator is located away from hydraulic components.	1	2	1	3	6	LOW	Ensure that personnel are properly trained and aware of the hazard.	LOW	Yes	MGMT/OP	
									Ensure that the correct pressure setting is maintained as per the operation manual instructions.		Yes	MGMT/OP	
									Ensure that personnel are trained with respect of this hazard and do not place hands or other body parts in front of escaping hydraulic fluid.		Yes	MGMT/OP	
									Ensure that the correct pressure setting is maintained as per the operation manual instructions.		Yes	MGMT/OP	
									Ensure that SWP's for maintenance include first aid requirements for such injuries.		Yes	MGMT/OP	
1.10	**Ejection of parts**							NS					
1.11	**Loss of stability (of machinery and machine parts)**												
1.11.1	Persons could be injured as a result of instability or overturning. Overturning due to overload: See 19.2 Overturning - generally See 23	Unit stability is calculated and tested in accordance with AS1418.10.	4	2	1	3	6	HIGH	Train operators in respect of proper siting and precautions necessary to ensure stability.	LOW	Yes	MGMT	
									Ensure that operators read and understand the instructions and precautions listed in the operator's manual prior to use.		Yes	MGMT/OP	
									Ensure that thorough site checks are performed prior to operation.		Yes	MGMT/OP	
									Audit work practices on a regular basis to ensure safe work procedures are being followed.		Yes	MGMT/OP	
1.12	**Slip, trip and fall hazards**												
1.12.1	Operator falls whilst accessing the platform.	Personnel are prohibited from accessing the deck.	4	4	2	3	9	HIGH	Ensure personnel do not access the deck.	LOW	Yes	OP	

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	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
2	**Electrical hazards**												
2.1	**Electrical contact (direct or indirect)**												
2.1.1	Persons could be injured due to contact or approach to live overhead electrical apparatus.	Legislative requirements to maintain clearances. Warning in operators manual not to operate near power lines and to maintain minimum safe approach distances.	4	3	3	3	9	HIGH	Ensure that No-go zones and/or clearances and conditions permitted according to local regulation are observed.	LOW	Yes	MGMT/OP	
									Ensure that operators are trained with respect to the hazard posed by overhead electrical conductors and equipment.		Yes	MGMT/OP	
									Ensure spotters are present to warn operator of getting too close to overhead conductors.		Yes	MGMT/OP	
2.1.4	Persons could be injured if the unit is operated while in a confined space forcing reduced clearances.	Warning in operators manual not to operate near power lines and to maintain minimum safe approach distances.	4	2	1	3	6	HIGH	Establish operating procedures to minimize risk when using machine in confined space.	LOW	Yes	MGMT/OP	
									Review operating procedures routinely to ensure they can be maintained and followed. Instruct personnel in respect to the revisions made.		Yes	MGMT/OP	
									Revise procedures if necessary.		Yes	MGMT/OP	
									Instruct personnel in respect of revisions.		Yes	MGMT/OP	
2.2	**Electrostatic phenomena**							NS					
2.3	**Thermal radiation**							NS					

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2.4	**External influences on electrical equipment**												
2.4.1	Uncontrolled motions due to interference with control signal inputs or false input commands in high-frequency electromagnetic fields.	The electrical installation is designed to comply with the requirements of the EMC directive (2004/108/EC) and so is not easily susceptible to interference.	2	2	2	3	7	LOW	Ensure that the unit is not used in environments which include strong electro-magnetic fields unless written approval is obtained from the manufacturer.	LOW	Yes	TEREX	
3	**Thermal hazards**												
3.1	**Burns and scalds by contact of persons with flames or explosions and also with radiation from heat sources**												
3.1.1	While working in an explosive atmosphere.	Warning in operator's manual not to use in hazardous locations.	4	2	2	3	7	HIGH	Ensure unit is not used in a hazardous environment unless it has been suitably modified by the manufacturer or a competent organisation.	LOW	Yes	MGMT/OP	
3.1.5	Personnel injured by fire or explosion while smoking in platform or around flammable liquids at worksite.	Standard SWPs apply.	3	2	2	3	7	MEDIUM	Prohibit smoking on the jobsite.	LOW	Yes	MGMT	
									Ensure that a first aid kit and extinguisher available.		Yes	MGMT/OP	

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3.2	**Health-damaging effects from hot or cold work environment**												
3.2.1	Operator injured due to extreme cold or hot temperatures.	Standard Job site procedures apply. Suggested minimum PPE requirements listed in operator's manual [p. 9] for normal use of the MEWP.	1	2	2	3	7	LOW	Ensure operators are provided the appropriate PPE for the working environment.	LOW	Yes	MGMT	
									Ensure that the period of exposure is kept within acceptable levels.		Yes	MGMT/OP	
4	**Hazards generated by noise**												
4.1	**Hearing loss (deafness), other physiological disorders (e.g. loss of balance, loss of awareness, etc.)**												
4.1.1	Noise generated by machine causes hearing loss to operators.	The maximum guaranteed sound power level is [sound power level is less than <74 dBA] and complies with the essential health and safety requirements of European Directives 2006/42/EC and 2004/108/EC.	1	4	2	3	9	LOW	Ensure that if noise exposure exceeds acceptable levels that either ear protection is worn and/or the operators are removed from the noisy environment.	LOW	Yes	MGMT/OP	
4.2	**Interference with speech communication, acoustic signals, etc.**												
4.2.1	Injuries exacerbated as a result of insufficient communication procedures or equipment on job sites where noise can affect communication.		1	2	1	3	6	LOW	Ensure that all operators are equipped with portable communications equipment where necessary.	LOW	Yes	MGMT	
									Establish protocols and procedures to ensure a timely and appropriate response in emergencies.		Yes	MGMT/OP	
									Ensure that effective communication can be maintained in all instances where the unit is used.		Yes	MGMT/OP	
5	**Hazards generated by vibration**												
5.1	**Vibration caused by machinery**							NS					
6	**Hazards generated by radiation**												
6.1	**Electrical arcs**							NS					
6.1.1	Operators suffer radiation burns caused by welding either from the platform or to the unit.	Standard welding SWP's apply. Warning in the manual forbidding the use of the unit as a ground for welding.	1	3	2	3	8	LOW	Ensure that SWP's are developed and followed when using the unit for welding operations.	LOW	Yes	MGMT	
									Ensure that only trained personnel perform welding tasks.		Yes	MGMT/OP	
									Ensure that the correct PPE is worn by personnel performing welding tasks.		Yes	OP	
6.2	**Lasers**							NS					
6.3	**Ionizing radiation sources**							NS					
6.4	**Machines using high-frequency electromagnetic fields**												
6.4.1	Hazards caused by emission of EMF	The electrical installation is designed to comply with the requirements of the EMC directive (2004/108/EC) and so is not easily susceptible to interference.	2	2	2	3	7	LOW	Ensure that the unit is not used in environments which include strong electro-magnetic fields unless written approval is obtained from the manufacturer.	LOW	Yes	MGMT	
7	**Hazards generated by materials and substances processed, used or exhausted by machinery**												
7.1	**Hazards resulting from contact with or inhalation of harmful fluids, gases, mists, dusts and fumes**												
7.1.2	Operator suffers injuries caused by inhalation of hydrogen gas from batteries.	Battery located away from operating positions.	2	2	2	3	7	LOW	Ensure operators are made aware of the potential hazard.	LOW	Yes	MGMT	
									Ensure batteries are charged in well ventilated areas.		Yes	MGMT/OP	
									Ensure that only trained personnel conduct maintenance on or near batteries.		Yes	MGMT/OP	
									Ensure that proper maintenance procedures are implemented when working near batteries.		Yes	MGMT/OP	

RISK ASSESSMENT: SWIFT EQUIPMENT PML-08												PRELIMINARY (Refer to "Notes" section)		
A	B	C				D1	D2	D	E		F	G	H
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
									Ensure the correct PPE is worn by all personnel performing maintenance on batteries.	LOW	Yes	MGMT/OP	
7.1.3	Personnel suffer skin irritations due to contact with operating fluids or materials used in the unit.	Standard SWP's apply.	1	3	2	3	8	LOW	Ensure operators are made aware of the potential hazard.	LOW	Yes	MGMT	
									Ensure appropriate PPE is worn by personnel.		Yes	OP	
7.1.4	Burns as a result of exposure to hot oil.	Standard SWP's apply. Operating positions are not in the vicinity of exposed hydraulic hoses.	1	3	2	3	8	LOW	Ensure that personnel are trained and aware of this hazard.	LOW	Yes	MGMT	
									Ensure that the appropriate PPE is worn by personnel.		Yes	MGMT	
7.2	**Fire or explosion hazard**												
7.2.1	Explosion hazard resulting from vapours emitted during battery charging.	Battery isolation switch fitted. Battery maintenance instructions provided in operator's manual. Battery isolation switch fitted. Warning in manual not to charge the battery in hazardous locations.	4	2	2	3	7	HIGH	Ensure that the appropriate PPE is worn by personnel.	LOW	Yes	MGMT/OP	
									Ensure that the battery is diconnected before charging		Yes	MGMT	

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7.3	**Biological and microbiological (viral or bacterial) hazards**							NS					
8	**Hazards generated by a mismatch of machinery with human characteristics and abilities.**												
8.1	**Unhealthy postures or excessive efforts.**												
8.1.1	Excessive effort moving loads	SWP's apply	1	4	1	3	8	LOW	Use powered machinery to move loads	LOW	Yes	MGMT/OP	
8.2	**Inadequate consideration of human hand-arm or foot-leg anatomy.**							NS					
8.3	**Neglected use of personal protection equipment**												
8.3.1	Persons could be injured due to exposure to UV.	Standard practices apply. Unit intended for indoor use	1	3	2	3	8	LOW	Develop and provide specification for appropriate UV protection and its use.	LOW	Yes	MGMT/OP	
									Provide UV protective equipment including hat, sunglasses and sunscreen.		Yes	MGMT/OP	
									Instruct operators on the requirements for its use.		Yes	MGMT/OP	
8.3.2	Persons could be injured if equipment is operated while not wearing appropriate PPE.	Note in operator's manual for the operator to wear appropriate personal protective equipment.	3	3	2	3	8	HIGH	Provide specification for appropriate PPE including gloves, safety glasses, hard hat and safety footwear as appropriate for the workplace.	LOW	Yes	MGMT	
									Instruct operators on the requirements for its use.		Yes	MGMT	
									Ensure appropriate PPE is worn.		Yes	OP	
8.3.3	Operator sustains damage to hearing due to not wearing ear protection in noisy environment.	Standard SWP's apply.	3	2	2	1	5	MEDIUM	Ensure that if noise exposure exceeds acceptable levels that either ear protection is worn and/or the operators are removed from the noisy environment.	LOW	Yes	MGMT/OP	
8.3.4	Operator could be injured if working in proximity to bright lights without sunglasses or equivalent.	Standard Job site procedures apply.	1	2	1	3	6	LOW	Identify bright lights located on job sight and react accordingly with setting up or wearing appropriate PPE.	LOW	Yes	OP	
									Ensure operators are provided with suitable PPE.		Yes	MGMT/OP	
8.3.5	Operator or ground personnel injured because they are not wearing high visibility clothing.	Standard SWP's apply.	2	3	2	3	8	MEDIUM	Ensure operators are provided with appropriate PPE suitable for the given task.	LOW	Yes	MGMT/OP	
									Ensure operators are wearing appropriate PPE suitable for the given task.		Yes	MGMT/OP	

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Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
8.4	**Inadequate area lighting**												
8.4.1	Persons could be injured if the light on the job site is inadequate.	See also 12.1	1	2	1	3	6	LOW	Fit lighting if the unit is to be used in areas of low light	LOW	Yes	MGMT/OP	
									Monitor lighting levels throughout the operation of the unit, as lighting is prone to change relative to time of day.		Yes	OP	
8.5	**Mental overload or under load, stress, etc.**												
8.5.1	Persons could be injured if the operator's performance was inhibited by excessive fatigue.		2	2	2	3	7	LOW	Implement a system to ensure that operators do not work excessive or continuous shifts and manage peak demands.	LOW	Yes	MGMT/OP	
									Ensure that operators do not continue use of the unit if they feel tired or are suffering from fatigue.		Yes	MGMT/OP	
8.5.2	Operator injured because they do not possess sufficient mental capacity to operate the unit.		4	2	2	3	7	HIGH	Ensure all personnel are trained with respect to machine operation.	LOW	Yes	MGMT	
									Ensure only trained personnel are permitted to operate MEWP.		Yes	MGMT/OP	
8.5.3	Operator injured due to inattention from boredom.		3	1	2	3	6	MEDIUM	Limit shift hours.	LOW	Yes	MGMT	
									Ensure rotation of operators during shift.		Yes	MGMT/OP	
8.6	**Human error**												
8.6.2	Persons could be injured if the unit is operated by persons under the influence of drugs and/or alcohol.	Standard SWP's apply.	3	2	2	3	7	MEDIUM	Include a warning in the operator's manual that the unit is not to be operated by persons under the influence of drugs and/or alcohol.	LOW	Yes	TEREX	
									Ensure that operators do not use the unit while under the influence of alcohol or drugs.		Yes	MGMT	
									Instruct the operator that operation while under the influence of alcohol or drugs are prohibited.		Yes	MGMT	
8.6.3	Persons could be injured if the operator's performance is inhibited by poor health or medication with side effects.	Standard SWP's apply.	3	2	2	3	7	MEDIUM	Instruct the operator that he/she must report to the supervisor if suffering poor health and safe operating performance could be affected.	LOW	Yes	MGMT	

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Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
9	**Hazard combinations**												
9.1	Injuries exacerbated as a result of insufficient procedures or equipment.	Emergency retrieval procedures are detailed in the operator's manual . Decal fitted adjacent to the emergency controls explaining the operation	4	2	1	3	6	HIGH	Establish and audit routine emergency procedures.	LOW	Yes	MGMT	
									Display emergency phone numbers and contact procedures at the site in ready display to the appropriate personnel.		Yes	MGMT	
									Periodically verify emergency equipment and supplies.		Yes	MGMT	
9.2	Hazards caused by improper procedures following contact with live conductors.	See AS2550.10 – 2006 clause 5.8.4 for correct procedures following contact. Procedures included in operator's manual [p. 10] as to what to do following contact with energized conductors.	4	1	1	3	5	HIGH	Ensure that all personnel are trained and aware of the necessary procedures required following the accidental contact with live overhead conductors.	LOW	Yes	MGMT	
									Ensure that the unit is withdrawn from service and appropriately assessed by a competent person.		Yes	MGMT/OP	
									Immediately isolate the unit for 24 hours.		Yes	MGMT/OP	
10	**Hazards caused by failure of energy supply, breakdown of machinery parts & other functional disorders**												
10.1	**Failure of energy supply (of energy and/or control circuits)**												
10.1.2	Personnel injured due to uncontrolled travel movement in case of failure of energy supply, e.g. brake failure.		3	1	2	3	6	MEDIUM	Ensure that the machine is maintained in accordance with the manufacturer's instructions.	LOW	Yes	MGMT/OP	
									Ensure that the unit undergoes a pre-operational inspection prior to every use in accordance with the manufacturer's instructions.		Yes	MGMT/OP	
									Ensure that the unit is not operated if any faults are detected during the pre-operational inspections.		Yes	OP	
10.2	**Unexpected ejection of machine parts or fluids**							NS					
10.3	**Failure/malfunction of control system**												
10.3.1	Uncontrolled motions due to control system failure.	Emergency stop switches fitted at the control positions. Pre-operational inspection includes functional test of controls.	3	1	1	3	5	MEDIUM	Ensure that all pre-operational inspections are performed in accordance with the manufacturer's instructions prior to use.	LOW	Yes	MGMT/OP	
									Ensure that all control system faults are logged and reported to service personnel.		Yes	OP	
									Ensure that the machine is not operated if any faults exist.		Yes	OP	
10.4	**Errors of fitting**												
10.4.1	Personnel exposed to hazards due to incorrect fitting of components during manufacture.	Manufacturer has a quality assurance system in place which involves multiple checks of critical components during the manufacturing process. Fault codes are displayed for sensors that are out of calibration.	3	2	1	3	6	MEDIUM	Ensure that only qualified service personnel are charged with the maintenance of the unit.	LOW	Yes	MGMT	
									Ensure they follow the instructions provided in the repair manual.		Yes	MGMT	

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A	B	C				D1	D2	D	E		F	G	H
Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
10.4.3	Unit overturns because incorrect wheels/tyres have been fitted.		3	2	1	3	6	MEDIUM	Ensure that only approved wheels/tyres are fitted.	LOW	Yes	MGMT	
									Ensure that only qualified service personnel are charged with the maintenance of the unit.		Yes	MGMT	
10.5	**Overturn, unexpected loss of machine stability**							NS					
11	**Hazards caused by (temporary) missing and/or incorrectly positioned safety- related measures/means**												
11.1	**All kinds of guards**												
11.1.1	Personnel exposed to hazards within the machine because of missing guards.		1	2	1	3	6	LOW	Ensure that guards are not removed, or altered without the written approval of the manufacturer.	LOW	Yes	MGMT/OP	
									Ensure that covers are always in place prior to operation.		Yes	OP	
11.2	**All kinds of safety-related (protection) devices**												
11.2.1	Hazards arising due to safety switches being overridden.	Warning in operator's manual not to disable any safety device.	4	2	1	3	6	HIGH	Ensure that safety devices are not tampered with and are in good condition before use of machine.	LOW	Yes	MGMT	
									If any faults are discovered do not use machine until all faults are rectified.		Yes	MGMT/OP	
11.2.4	Personnel exposed to hazards because Load Sensing System has been disabled or is incorrectly adjusted.	Fault codes are displayed for sensors that are out of calibration. System designed so that it cannot be easily disabled.	2	2	1	3	6	LOW	Ensure load sensing system is checked at the regular intervals as detailed by manufacturer.	LOW	Yes	MGMT/OP	
									Ensure load sensing system is not tampered with or disabled.		Yes	MGMT/OP	
11.2.6	Persons could be injured as a result of instability or overturning due to operation on excessive slope.	Chassis inclination indicator system provided which warns the operator if the lateral and longitudinal slope limits of the Chassis inclination interlocks are provided which prevent movement of the platform & elevated drive if the lateral and longitudinal slope limits of the chassis are exceeded. Outriggers are provided.	4	2	1	3	6	HIGH	Ensure that the unit is operated within the rated slope limitations specified.	LOW	Yes	MGMT/OP	
									Ensure that thorough site checks are performed prior to operation.		Yes	MGMT/OP	
									Use the outriggers if necessary		Yes	MGMT/OP	
11.3	**Starting and stopping devices**												
11.3.1	Emergency stop switches malfunction or missing components.	Emergency stop switches located at both control stations. Check of emergency stop operation included in pre-start inspection.	4	2	1	3	6	HIGH	Ensure that the inspection checks are performed as per instructions in manual.	LOW	Yes	MGMT/OP	
									Ensure that any malfunctioning components or systems are repaired prior to use.		Yes	MGMT/OP	

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Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
11.4	**Safety signs and signals**												
11.4.1	Personnel injured due to missing or illegible safety signs.	A list and description of all labels fitted to the unit is included in the operator's manual .	3	2	1	3	6	MEDIUM	Conduct pre-operational checks as described in manual.	LOW	Yes	OP	
									Maintain signs and replace as necessary.		Yes	OP	
11.5	**All kinds of information or warning devices**												
11.5.1	Personnel are not provided with sufficient instruction because operations manual missing from unit.	Storage compartment fitted on the unit for manual. Manuals available from manufacturer's website.	3	2	1	3	6	MEDIUM	Ensure the unit is supplied with all of the relevant operating manuals.	LOW	Yes	MGMT	
11.6	**Energy supply disconnecting devices**							NS					
11.7	**Emergency devices**												
11.7.5	Hazards arising as a result of incorrect emergency retrieval procedures.	Emergency retrieval procedures are detailed in the operator's manual .	1	2	1	3	6	LOW	Ensure operators are trained in emergency retrieval and operation.	LOW	Yes	MGMT/OP	
									Ensure that refresher training is undertaken by operators on a regular basis.		Yes	MGMT/OP	
11.8	**Feeding/removal means of work pieces**							NS					
11.9	**Essential equipment and accessories for safe adjusting and/or maintaining**												
11.9.1	Persons injured whilst performing maintenance.	Maintenance procedures provided by manufacturer detailing all critical maintenance requirements. Detailed instructions provided in maintenance manual which covers all anticipated repairs and maintenance items.	1	2	1	3	6	LOW	Ensure personnel are trained in correct repair procedures.	LOW	Yes	MGMT	
									Ensure that all appropriate equipment is supplied and used when performing maintenance.		Yes	MGMT	
11.9.2	Personnel crushed working under the elevated structure	A support member is provided in accordance with AS1418.10 – 2011 clause 2.3.5 which supports the platform and lifting mechanism for maintenance and inspection purposes.	1	2	1	3	6	LOW	Ensure maintenance personnel always use the platform support when performing maintenance.	LOW	Yes	MGMT/OP	
11.9.3	Persons injured whilst handling heavy or unsupported		1	2	1	3	6	LOW	Provide necessary equipment to handle heavy items.	LOW	Yes	MGMT	
									Instruct persons undertaking tyre change to follow established SWP's in accordance with recognised industry practice.		Yes	MGMT	
11.9.4	Strains/sprains when removing components or performing certain maintenance aspects of the unit.	Standard SWP's apply.	1	2	1	3	6	LOW	Establish appropriate work procedures for all anticipated maintenance issues arising.	LOW	Yes	MGMT	
									Periodically review these safe work procedures (SWP's).		Yes	MGMT	
11.9.5	Personnel fall whilst performing maintenance checks.	Standard SWPs aply Pre-operational checks able to be performed at ground level.	1	2	1	3	6	LOW	Ensure that appropriate equipment is used during maintenance where access at height is required.	LOW	Yes	MGMT	
									Periodically review these safe work procedures (SWP's).		Yes	MGMT	
11.10	**Equipment evacuating gases, etc.**							NS					
12	**Inadequate lighting of moving/working area**												
12.1	**Collision with structures or objects due to inadequate lighting of work site**												
12.1.1	Persons could be injured if the light on the job site is inadequate.	Standard SWP's apply.	3	2	1	3	6	MEDIUM	Ensure lighting in job area is assessed by trained personnel prior to undertaking further machine operation.	LOW	Yes	MGMT/OP	

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13	**Hazards due to sudden movement/instability during handling**												
13.1	**General Manouvering**												
13.1.1	While personnel are moving unit around job site.	Maximum travel speeds are fixed.	3	2	1	3	6	MEDIUM	Ensure that the unt is not driven on excessive slopes or rough terrain at speed.	LOW	Yes	OP	
		Ramp speed provided which is slower than travel speed.							Ensure that operators travel at speeds commensurate with the conditions.		Yes	OP	
13.2	**Lifting/Loading/Towing**												
13.2.2	When loading/unloading unit from trucks.	Instructions and precautions included in operator's manual for loading and unloading .	4	2	2	3	7	HIGH	Ensure that operators are aware of the precautions and operational requirements specified in the manual.	LOW	Yes	MGMT	
									Ensure persons abide by the instructions.		Yes	OP	
									Ensure that only trained personnel are permitted to load the machine onto trucks.		Yes	MGMT/OP	

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13.2.3	When lifting unit from transportation.	Instructions are provided in the operator's manual for lifting the unit, which includes warnings regarding the proper selection of lifting hardware and use of the correct lifting points. The unladen mass of the unit is listed on the data plate [No separate part number] fitted to the unit.	3	2	2	3	7	MEDIUM	Ensure that only trained personnel are permitted to lift the unit.	LOW	Yes	MGMT/OP	
									Ensure that the proper lifting points are used.		Yes	MGMT/OP	
									Ensure that suitably rated chains & slings are used.		Yes	MGMT/OP	
13.2.5	Injury from unsecured vehicle whilst transporting.		3	2	2	3	7	MEDIUM	Ensure the unit is properly secured when transporting on vehicles.	LOW	Yes	MGMT/OP	
13.2.7	Personnel activate free-wheeling mode which causes unit to roll.	Instructions provided in operator's manual for brake release which includes all safety precautions.	1	2	1	3	6	LOW	Ensure that operators are trained to perform brake release.	LOW	Yes	MGMT/OP	
									Ensure operators follow the instructions provided in the manual.		Yes	MGMT/OP	
14	**Inadequate/non-ergonomic design of driving/operating position**												
14.1	**Hazards due to dangerous environments (contact with moving parts exhaust gases, etc.)**							NS					
14.2	**Inadequate visibility from driver's/operator's position**												
14.2.1	Personnel injured due to operator having limited visibility from operating position.	Operator has freedom to move to a clear area due to remote control.	3	2	1	3	6	MEDIUM	Ensure operator is aware of the surrounds and personnel.	LOW	Yes	MGMT/OP	
									Ensure a spotter is used if required.		Yes	MGMT/OP	
14.2.2	Due to collision with obstructions because operator in the platform cannot see from operating position.	Operator has freedom to move to a clear area due to remote control. Warning in operator's manual to avoid overhead obstructions or other possible hazards around MEWP.	3	2	1	3	6	MEDIUM	Ensure operators are trained with respect to this hazard.	LOW	Yes	MGMT/OP	
									Ensure the unit is operated at reduced speeds when clearance between the platform or load and other objects is reduced.		Yes	MGMT	
									Ensure a spotter is used if required.		Yes	OP	
14.3	**Inadequate seat/seating (seat index point)**							NS					
14.4	**Inadequate/non-ergonomic design/positioning of controls**							NS					
14.5	**Starting/moving of self-propelled machinery**												
14.5.1	Unexpected movement during start-up	Unit requires two actions to cause movement.	1	2	1	3	6	LOW	Ensure that personnel are clear before travelling or when starting.	LOW	Yes	MGMT/OP	
14.6	**Road traffic of self-propelled machinery**												
14.6.1	Collision with vehicular traffic on job site.	Unit painted in bright colours to increase its visibility.	4	1	1	3	5	HIGH	Implement a traffic management system.	LOW	Yes	MGMT/OP	
									Ensure a traffic management system is enforced, should the unit be exposed to vehicular traffic.		Yes	MGMT/OP	

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15	**Mechanical hazards (due to failure of systems or devices)**												
15.1	**Hazards to exposed persons due to uncontrolled movement**												
15.1.1	Failure of cylinder or hose resulting in uncontrolled movement of the work platform and extending structure.	Cylinders are fitted with load holding check valves to prevent movement in case of hose failure.	2	2	1	3	6	LOW	Ensure cylinders are inspected in accordance with procedures outlined in manual.	LOW	Yes	MGMT/OP	
		Cylinders are fitted with load holding check valves to prevent movement in case of hose failure.							If any defects are detected ensure that the unit is withdrawn from service until the defects are rectified.		Yes	OP	
15.1.2	Operator crushed as a result of uncontrolled motion while on a slope due to brake failure.	Brakes designed and tested to achieve the stopping distances in accordance with AS1418.10 – 2011 clause Theoretical gradeability limits in the operator's manual.	3	1	2	3	6	MEDIUM	Ensure travel speed is reduced when travelling on gradients.	LOW	Yes	OP	
15.2	**Hazards due to break-up and/or ejection of parts**												
15.2.1	Unit could collapse or break up as a result of poor design or manufacture.	Designed & manufactured to comply with the requirements of the design standards and directives in the country where the unit is sold. Unit is load tested as part of pre-delivery checks by manufacturer before delivery to customer.	1	2	1	3	6	LOW	Ensure that the unit is registered with manufacturer.	LOW	Yes	MGMT	
									Periodically check for the existence of routine safety alerts that may be issued by the manufacturer or the representative.		Yes	MGMT	
									Routinely inspect the unit by a competent organisation external to operator.		Yes	MGMT	
									Ensure preoperational inspections are conducted as per the manufacturers instructions.		Yes	MGMT	
15.2.3	Structural failure due to thermal expansion of hydraulic oil if unit is left fully extended for a long period of time.	Counterbalance valves fitted which allow pressure relief for oil trapped in the cylinders.	1	1	1	3	5	LOW	Ensure the unit is not left fully extended for a long period of time.	LOW	Yes	MGMT/OP	
15.2.5	Due to break up or failure of the load		2	1	1	3	5	LOW	Confirm that the load is stable and adequately supported on the deck.	LOW	Yes	MGMT/OP	
									Ensure the load size conforms to the specified limits.		Yes	OP	
15.3	**Hazards due to rolling over (roll over protection – ROP)**							NS					
15.4	**Hazard due to falling objects (falling object protection – FOP)**												
15.4.1	Ground crew or passer-by being struck by falling tools or objects.	Tie down anchors provided to secure the load.	3	1	1	3	5	MEDIUM	Barricade area from public access.	LOW	Yes	OP	
									Remove all loose tools and objects from the platform before driving.		Yes	OP	
									Ensure that appropriately rated tie down straps in good condition are used.		Yes	OP	
15.5	**Inadequate means of access**							NS					
15.6	**Hazards caused due to towing, coupling, connecting, and transmission**												
15.6.3	Injury sustained whilst towing.	Towing/winching points are fitted and identified on the unit. Instructions are included in the operator's manual regarding the correct procedures for towing and/or winching the unit including residual risks that may exist.	2	2	1	3	6	LOW	Ensure that the instructions provided in the operator's manual are followed.	LOW	Yes	MGMT/OP	
									Ensure that only trained personnel are permitted to tow the unit.		Yes	MGMT/OP	
									Ensure unit is parked on flat level ground before releasing brakes.		Yes	MGMT/OP	
									Ensure that personnel do not release the brakes unless the unit is properly chocked in accordance with the instructions provided in the operator's manual.		Yes	MGMT/OP	
15.7	**Hazards due to batteries, fire, emissions, etc.**												

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A	B	C				D1	D2	D	E		F	G	H
Hazard No.	Hazard Description - (the situation or parts of plant which could cause injury or illness)	Is there any risk? Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
15.7.1	Hazards from batteries and associated faults.	Batteries are well ventilated in accordance with AS1418.10 – 2011 clause 2.2.21. Battery maintenance instructions provided in operator's manual.	2	2	2	3	7	LOW	Ensure the battery isolation switch is used whenever battery maintenance is performed.	LOW	Yes	MGMT/OP	
									Ensure that the appropriate PPE is worn when working on or near the batteries.		Yes	MGMT/OP	
									Ensure safe work procedures are established in regards to working with batteries.		Yes	MGMT/OP	
									Ensure operators follow established safe work procedures.		Yes	MGMT/OP	
									Ensure that only trained personnel conduct maintenance on or near batteries.		Yes	MGMT/OP	
									Ensure that personnel who are trained in first aid are readily available to render assistance if required.		Yes	MGMT/OP	
16	**Hazards due to lifting operation**												
16.1	**Lack of stability**												
16.1.1	Hazard number not used.	See 19.2, 23											
16.3	**Loss of mechanical strength of machinery and lifting accessories**												
16.3.1	Failure of lifting points.	Lift points fitted and identified on the unit.	3	2	1	3	6	MEDIUM	Ensure instructions are followed as per the instructions provided in the operator's manual for lifting.	LOW	Yes	MGMT/OP	
												MGMT/OP	

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	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed	
17	**Inadequate view of trajectories of the moving parts**													
17.1	Hazard number not used.	See 14.2.	4	3	2	3	8	HIGH		LOW				
18	**Hazards caused by lightning**													
18.1	Persons could be injured if the unit is operated during storms.	Warning in operator's manual that the unit is not to be operated during storms.	4	1	1	3	5	HIGH	Ensure unit is not used outdoors during storms or if it is likely that storm may arise during performance of the task. Unit indoor rated only.	LOW	Yes	MGMT/OP		
19	**Hazards due to loading/overloading**													
19.1.1	Maximum rated capacity is exceeded.	Load sensing system fitted to platform which prevents platform overload from vertical loads. Warning in operator's manual not to overload the work platform. The maximum rated capacity is listed in the operator's manual. The maximum rated capacities displayed on the platform.	3	3	1	1	5	MEDIUM	Ensure preoperational checks are performed in accordance with those outlined in operators manual.	LOW	Yes	MGMT/OP		
									Ensure that any faults are reported directly to management and machine is withdrawn from service.		Yes	MGMT/OP		
									Verify that the expected loads do not exceed the rated capacity.		Yes	MGMT/OP		
19.1.2	Maximum manual force is exceeded.	Manual force can omnly be applied from platforms external to the unit.	3	1	1	3	5	MEDIUM	Ensure that personnel do not exert lateral forces on the unit.	LOW	Yes	OP		
									Ensure that operators do not push or pull objects on the platform.		Yes	OP		
19.1.3	Maximum wind speed/wind load is exceeded.	Indoor use only decal fitted on work platform. Unit is rated for indoor use only.	4	1	1	3	5	HIGH	Ensure unit is not used where it can be exposed to wind.	LOW	Yes	MGMT		
											Yes	MGMT/OP		

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Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
19.2	**Overturning/loss of stability**												
19.2.1	Maximum rated capacity is exceeded.	Load sensing system fitted to platform which prevents platform overload from vertical loads. (See 20.2). See also 19.1.1	1	2	1	3	6	LOW					
19.2.2	Maximum manual force is exceeded.	See 19.1.2	1	2	1	3	6	LOW					
19.2.3	Excessive wind speed or wind load.	See also 19.1.3	1	2	1	3	6	LOW					
19.2.4	Overturning on excessive slope	Interlock fitted which prevents elevated travel and elevation from the travel position if the slope exceeds the manufacturer's limits.	1	2	1	3	6	LOW	Ensure that the unit is not operated on slopes which exceed the limits listed in the manual and on the data plate.	LOW	Yes	MGMT/OP	

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Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
20	**Hazards due to lifting persons**												
20.1	**Mechanical strength**												
20.1.2	Structural failure due to dynamic loading.	Function speeds are listed in the operator's manual.	1	2	1	3	6	LOW	Ensure that the system function speeds are set and maintained to the specifications listed in the manual.	LOW	Yes	MGMT	
20.1.4	Injury from using the unit in an unsuitable condition due to poor maintenance or inspections.	Logbook provided to record usage and faults. Maintenance instructions provided which includes maintenance instructions for all anticipated maintenance requirements over the life of the unit.	4	3	2	3	8	HIGH	Ensure that pre-start inspections are completed prior to use.	LOW	Yes	MGMT/OP	
									Ensure that unit is not used if any defects are found.		Yes	MGMT/OP	
									Ensure that the unit is checked, repaired and maintained by appropriately trained/qualified and experienced personnel in accordance with the checklists contained in the operation manual.		Yes	MGMT/OP	
20.1.5	Persons could be injured as a result of structural fatigue failure – Road Transport.	Pre-operational inspection includes checks of the structure for cracks. A support for the extending structure is provided to limit vibrations during road transport in accordance with AS1418.10 – 2011 clause 2.3.7.	4	2	1	3	6	HIGH	Ensure the operators are instructed to properly stow unit prior to transportation.	LOW	Yes	MGMT/OP	
									Ensure the elevating structure & platform is restrained during transportation.		Yes	MGMT/OP	
20.1.6	Failure due to corrosion resulting from ingress of moisture and debris into the extending structure.		4	2	1	3	6	HIGH	Regularly inspect the interior of the elevating structure.	LOW	Yes	MGMT/OP	
									Clean the unit of all debris on a regular basis.		Yes	MGMT/OP	

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Hazard No.	Hazard Description -	Is there any risk?											
	(the situation or parts of plant which could cause injury or illness)	Describe the risk control measures ALREADY implemented	Severity	Frequency	Probability	Avoidance	Class	Risk Level	Proposed SUPPLEMENTARY risk control measure		Are the control measures practicable? Yes/No	For Action by Whom	Confirmation that the necessary action has been completed
20.1.7	Injury as a result of excess water/debris in platform.		1	2	1	3	6	LOW	Ensure that the platform is cleaned regularly to prevent a build-up of debris.	LOW	Yes	MGMT/OP	
									Ensure the platform is stored in a location which prevents the build-up of debris.		Yes	MGMT/OP	
20.2	**Loading control**												
20.2.1	Rated capacity is exceeded.	Unit is fitted with a load sensing system. The maximum rated capacities displayed on the platform.	3	3	3	1	7	MEDIUM	Ensure preoperational checks are performed in accordance with those outlined in operators manual.	LOW	Yes	MGMT/OP	
									Ensure that any faults are reported directly to management and machine is withdrawn from service.		Yes	MGMT/OP	
									Ensure calibration checks are performed in accordance with the service manual.		Yes	MGMT/OP	
									Ensure the unit is not overloaded during operation.		Yes	MGMT/OP	
21	**Controls**												
21.1	**Movement of Work Platform**												
21.1.1	Due to accidental impact or engagement – unintentional activation of controls.	Function enable switch provided which must be pressed and held for controls to be activated (two separate actions required for movement to take place). All controls are of the hold to run type and return to neutral on being released. The direction of movement resulting from each control is clearly marked beside the control and controls are arranged for logical operation as far as possible.	4	4	2	3	9	HIGH	Maintain controls and their marking.	LOW	Yes	TEREX	
									Ensure operators are familiar with the control layout and function.		Yes	MGMT/OP	
											Yes	OP	
21.1.2	Hydraulic control failure	Hydraulic filters fitted.	1	2	1	3	6	LOW	Ensure that hydraulic system is maintained as per manufacturer's instructions.	LOW	Yes	MGMT/OP	
21.1.3	Control conflict using emergency power system.	Overriding emergency system designed in accordance with AS1418.10 – 2011 clause 2.6.10.	1	2	1	3	6	LOW	Ensure operators are familiar with the emergency lowering procedures prior to operating the unit.	LOW	Yes	MGMT/OP	
21.2	**Safe travel control**												
21.2.1	Excessive travel speed leads to machine instability.	Travel speed is automatically reduced when the platform is elevated out of the transport position. Maximum travel speeds are fixed.	1	2	1	3	6	LOW	Ensure that maximum travel speeds are maintained in accordance with manufacturer's specifications.	LOW	Yes	MGMT/OP	
											Yes	MGMT/OP	
21.3	**Safe speed control**							NS					
22	**Falling of persons**												
22.1	**Personal protective equipment**												
22.1.1	Operator falls from elevated platform.	Personnel prohibited from accessing the deck. No means of access is provided.	3	2	1	3	6	MEDIU		LOW	Yes	MGMT/OP	
											Yes	MGMT/OP	
22.2	**Trapdoors**							NS					

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Hazard No.	**Hazard Description -**	**Is there any risk?**											
	(the situation or parts of plant which could cause injury or illness)	**Describe the risk control measures ALREADY implemented**	**Severity**	**Frequency**	**Probability**	**Avoidance**	**Class**	**Risk Level**	**Proposed SUPPLEMENTARY risk control measure**		**Are the control measures practicable?** Yes/No	**For Action by Whom**	**Confirmation that the necessary action has been completed**
23.1	**Falling/tipping/overturning**												
23.1.1	Overturning due to operation on excessive slope.	Levelling Instructions provided on chassis near outrigger controls. Warning in manual regarding overturning hazards. For Type 2 & 3 MEWPs see 11.2.6.	4	2	1	3	6	HIGH	Ensure that the unit is operated within the rated slope limitations specified.	LOW	Yes	MGMT/OP	
23.1.4	Overturning due to collapse of support surface.	Maximum wheel/stabiliser loads displayed on unit.	4	2	1	3	6	HIGH	Ensure the unit is not set up on rough, soft or otherwise hazardous surfaces.	LOW	Yes	OP	
									Seek advice regarding ground/surface capacities as necessary from a competent person.		Yes	MGMT/OP	
									Ensure that thorough site checks are performed prior to operation.		Yes	OP	
23.1.5	Unit overturns while manoeuvring around job site.	The lowered travel position is limited by the control system. Warning in operator's manual not to drive elevated near depressions, or holes, loading docks, debris, drop-offs or surfaces that may affect stability.	4	2	1	3	6	HIGH	Drive appropriately for the ground conditions and preferably drive when lowered.	LOW	Yes	OP	
23.1.6	Overturning due to operation on a truck or similar device.	Warning in the operator's manual not to operate unit while parked on the back of a truck or similar.	4	2	1	3	6	HIGH	Ensure that the unit is not operated whilst on a truck or similar.	LOW	Yes	MGMT/OP	
23.2	**Acceleration/braking**							NS					
24	**Markings**												
24.10	Personnel injured due to missing or illegible safety signs.	A list and description of all labels fitted to the unit is included in the operator's manual. Pre-operational checks include a check of all the safety decals.	3	2	1	3	6	MEDIUM	Train operators in relation to the meaning of the markers.	LOW	Yes	MGMT/OP	
									Ensure that pre-operational check of safety decals is performed before use.		Yes	OP	
24.20	Unclear instructions on safety signs.	All instructions are given in English. All numerical values are given in SI units. Symbols used for marking comply with ISO20381.	1	2	1	3	6	LOW	Ensure that operators are familiar with the meaning of all safety signs and warnings.	LOW	Yes	MGMT/OP	