



**Ahern Australia Pty. Ltd.**

ACN: 003 724 141

Reg'd Office: 8-10 McIlwraith Street, Wetherill Park, NSW 2164 Ph. +612 9609 8500 Fax: +612 9609 3057

## Plant Risk Assessment

Snorkel Trailer Mounted Boom type Elevating Work Platform

**Model: MHP13AT**

This Hazard Identification and Risk Assessment document is Model specific. It is based on the knowledge that all new machines of this model were/are produced to the same specification and design. It assumes all examples of this exact model currently in service to be as per the original specification, and to have been and continue to be operated and maintained in accordance with the Manufacturers requirements, and with all applicable statutory and regulatory requirements

This Hazard Identification and Risk Assessment document has been prepared based on information available at the time of publication, and on the physical assessment of an original example of the Model for which it was prepared. This Assessment must be reviewed by all stakeholders as required:

- o Having regard to the manufacturers approved options
- o Having regard to the general arrangement of miscellaneous equipment or facilities that may be provided on the plant according to the end users requirements or specification
- o According to the particular circumstances under which the plant is used and maintained
- o As new Hazards are identified and/or as risks are reassessed
- o As existing risk control measures are revised or new risk control measures are introduced and implemented
- o As and when work procedures are altered or revised
- o Having regard to any unauthorised alterations or modifications made to the design or operation of the equipment

Ahern Australia Pty. Ltd. have made every attempt to identify all reasonably foreseeable operating circumstances in preparing this Assessment, however no guarantee as to the completeness of this Assessment is provided or implied.

It is the responsibility of Owners, Employers and Operators to identify all hazards associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are taken to ensure those risks are effectively controlled.

**\*All operators must be trained and competent in the safe use of this particular piece of equipment, and hold appropriate qualifications as required by applicable regulatory requirements**

**\*Operators of the equipment to which this Plant Risk Assessment refers must read and understand the Instructions for Use and Warnings contained within the Operators Manual prior to use**

**\*All Daily Pre-Start Checks, Routine and Periodic Inspections, Maintenance and Repairs to this equipment must be carried out in accordance with the requirements of AS2550.10-2006**



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Ph. 03 8773 7000 Fax: 03 8773 7099  
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Ph. 08 6258 0900 Fax: 08 6258 0999

Plant type: Trailer mounted Boom type Elevating Work Platform  
Model: MHP13AT Serial No. MHP13AT-07-000077

Person conducting Assessment: Bruce Maclean  
Date of Assessment: May 23rd, 2017

HAZARD DESCRIPTION  GENERAL HAZARDS (continued)	RISK ASSESSMENT	PRACTICABILITY  Is it practicable to remove or mitigate the risk?	RISK CONTROL		CONFIRMATION  Has the necessary action been completed?
			RISK CONTROL MEASURES ALREADY IMPLEMENTED  (by Designer, Manufacturer, Importer, Distributor)	SUPPLEMENTARY RISK CONTROL  (for action by Management - the person, company or entity legally responsible for the use of the equipment)	
Persons could be injured if the operator's performance is inhibited by poor health or medication with side effects.	High	Yes		Instruct the operator that he/she must report to the supervisor if suffering poor health and safe operating performance could be affected.	
Persons could be injured if the operator's performance was inhibited by excessive fatigue.	High	Yes		Implement a system to ensure that operators do not work excessive or continuous shifts and manage peak demands.	
Persons could be injured if the operator's vision is impaired by sunlight or bright lights in close proximity.	Moderate	Yes		Instruct the operator in relation to the siting of lights.	
Persons could be injured if the unit is operated during storms.	High	Yes	Operators Manual contains warning regarding running the engine &/or changing the batteries in a well ventilated area	Ensure the unit is operated only in well ventilated areas.	
Persons could be injured if the unit is operated indoors without adequate ventilation.	High	Yes	Requirement specified in AS2550.10. Warning in Operators Manual regarding wearing PPE appropriate to the task and environment	Provide specification for appropriate PPE including harness, hard hat, safety footwear etc as appropriate. Instruct operators on requirements for its use. Ensure PPE is inspected and certified on a routine basis.	
Persons could be injured if equipment is operated while not wearing appropriate PPE.	Moderate	Yes		Develop and provide specification for appropriate UV protection and its use. Provide UV protective equipment and instruct operators on the requirements for its use.	




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Machine could collapse due to design or manufacturing fault	High	Yes	Machine is designed, manufactured and tested to comply with requirements of AS1418, 10-2011. Design is registered with State Workcover and Worksafe regulatory authorities	Carry out all Pre-operational safety checks. Routine and Periodic Maintenance as required by AS2550, 10-2006 must be carried out by a competent person. Periodically check with the manufacturer and industry bodies for the existence of any Safety Alerts or Service Bulletins.	
Structural failure to overloading	High	Yes	Machine is fitted with a Load Sensing System. Decals on platform show maximum capacity and acceptable load combinations. Operators Manual contains warnings against overloading	Ensure machine is only operated within the specification and operating parameters detailed in Operators Manual, and in accordance with industry standards and regulatory compliance with AS2550, 10-2006. Ensure machine is only operated by trained personnel	
Structural failure due to dynamic loading	High	Yes	AS1418, 10-2011 compliance accounts for the effects of dynamic loads. Proportional controls provide for reduction of function speeds and all controls return to neutral when released. Emergency stop provided.	Ensure function speeds do not exceed specifications set out in the Operators Manual, and excessive backlash due to between components is minimised through regular maintenance. Only trained operators may use the machine	
Structural failure due to loose or missing pivot pins, retainers and fasteners	Extreme	Yes	Pre-Operational checks detailed in Operators Manual include inspection of these components	Ensure that Pre-operational checks are performed and documented	
Structural failure due to unauthorised modification, alteration, use or interference	High	Yes	Operators Manual includes warnings prohibiting unauthorised modification or alteration. Keyswitch is fitted to prevent unauthorised use	Ensure that no modifications or alterations are performed without written consent of the manufacturer. Ensure the machine is secured at the end of each shift and the key is removed	
Structural failure due to unit being in poor mechanical condition due to fatigue or wear	High	Yes	Pre-operational checks of all mechanical and structural components are included in Operators Manual	Ensure machine is checked, repaired & maintained by a competent person in accordance with manufacturers checklist provided in manuals and in compliance with AS2550, 10-2006. Use only OEM parts to repair	



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HAZARD DESCRIPTION CONTROL MALFUNCTION & UNCONTROLLED MOTIONS	RISK ASSESSMENT	PRACTICABILITY Is it practicable to remove or mitigate the risk?	RISK CONTROL		CONFIRMATION Has the necessary action been completed?
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Due to control malfunction	High	Yes	Emergency Stop and function enable switches fitted at both control stations. Pre-operational checks of controls and emergency stop switches are included in the Operators Manual	Ensure pre-operational checks are carried out as per the Operators Manual checklists. Implement regular maintenance in accordance with manufacturers instructions and AS2550.10-2006 requirements—	
Due to accidental operation of controls by 'knocking', or inadvertent activation from engagement by tools, hoses, cables, loose clothing etc	High	Yes	Emergency switch fitted that must be pressed first and in conjunction with function switch for function to occur. Emergency stop switch provided which disables all controls. Lower controls are positioned to minimise the risk of inadvertent operation	Ensure operators engage the Emergency Stop switch when the desired work location has been reached, as instructed in the Operators Manual. Implement safe working procedures to ensure the risk of inadvertent engagement by tools, hoses, cables and loose clothing etc, is minimised	
Due to safety switches being overridden	High	Yes	Warnings in Operators Manual and decals on machine prohibit alteration or disabling of safety switches or interlocks	Ensure safety devices and interlocks are not tampered with. Ensure only trained and qualified operators use the equipment.	
Control system conflict using emergency power system	Low	Yes	Lower controls override platform controls. Emergency manual lowering does not rely on a power source	Ensure Operators are familiar with the emergency procedures prior to operating the equipment. Ensure ground personnel are always available to operate emergency controls	
As a result of hydraulic hose failure	High	Yes	All load holding cylinders are fitted with load holding counterbalance valves	Verify operation of all load holding valves during routine maintenance	



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Falling from the platform	High	Yes	Handrails provided comply with AS1418.10-2011. Warnings provided in Operators manual regarding climbing on handrails. Non slip flooring and fall restraint harness lanyard attachment points are provided	Carry out pre-operational check of handrails for security of fitting. Ensure platform is free of debris that may cause floor to become slippery. Heed all warnings in manual not to climb on or over handrails. Ensure all operators wear an approved Fall Arrest device attached to the approved attachment points in the platform	
Operator ejected from platform due to 'catapult effect'	Extreme	Yes	Handrails provided comply with AS1418.10-2011. Platform is fitted with approved attachment points for Fall Arrest Harness lanyard attachment.	Each operator is required to wear an approved Fall Arrest Harness and Lanyard at all times when operating this equipment. Lanyard must be correctly attached only to the approved attachment point in the platform	
Stepping out of elevated platform onto an adjacent structure	Extreme	Yes	Refer to requirements for elevated platform egress in AS2550.10-2006	Ensure operators do not egress from an elevated platform unless a risk assessment has been carried out and AS2550.10-2006 requirements are met	
Use of step ladders or stools in platform to increase access height or reach	Extreme	Yes	Operators Manual contains warning prohibiting this	Ensure that Operators do not use any means to gain additional height. Ensure selected machine provides sufficient height and reach for the required task	
Fall when accessing elevated platform	Extreme	Yes	Platform is able to accessed at ground level	Ensure that operators access the platform only when it is fully lowered. Use three points of contact when entering/exiting the platform	
Falling through platform gate	Extreme	Yes	Platform entry gate is self closing in accordance with AS1418.10-2011 requirements	Carry out pre-operational check of platform entry gate for proper functioning. Ensure objects in platform cannot interfere with correct gate function. Ensure operators do not deliberately cause gate to remain open	
<b>FALLING OBJECTS</b>					
Ground crew or passers by being struck by falling tools or objects	Moderate	Yes	100mm high toe guards provided and platform floor openings limited to 15mm in accordance with AS1418.10-2011 requirements	Barricade area from public access. Ensure materials are not supported on the handrails and do not exceed the confines of the platform	



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Injury as a result of accumulation of deterioration during long term storage	High	Yes	Procedures are provided in Operators Manual. The down lugs are fitted to the machine and are identified by decals	Ensure that an Annual Inspection is comprehensively performed by a competent person before returning the machine to service	
Injury from unsecured vehicle	High	Yes	Procedures are provided in the Operators Manual. Machine is fitted with lifting/lashing points for loading by crane	Ensure the machine is secured in accordance with the requirements described in the manual and with relevant transport regulations	
Injury loading/unloading from transport vehicle	High	Yes	Procedures are provided in the Operators Manual. Machine is fitted with lifting/lashing points for loading by crane	Ensure loading/lifting procedures in the manual are followed. Ensure transport vehicle and all equipment used have sufficient capacity to support the machine weight. Ensure all applicable road transport requirements and guidelines are adhered to	
Injury sustained when lifting the machine	Moderate	Yes	Data plate on machine and specifications in Operators Manual show the machine gross weight	Ensure the lifting equipment and all rigging is appropriate for the task and is in good condition. Use only the designated lifting points identified on the machine and in the Operators Manual. Keep all personnel clear during lifting	
Injury sustained when hitching to or unhitching machine from towing vehicle	High	Yes	Machine is fitted with park brake and safety chain. Jockey wheel fitted to lift machine to tow coupling height	Ensure park brake is applied before unhitching from vehicle. Ensure jockey wheel and tow coupling are maintained or replaced if damaged.	