

Plant Risk Assessment Managing Director Document Number: 01

THIS DOCUMENT IS CONTROLLED - UNCONTROLLED WHEN PRINTED

ID	Description of	Hazard Potential	Activity	Risk control measures already	Risk	Supplementary risk control	Risk
	Origin	Consequence	-	implemented		measures	score
1	Operator Competency	1					
1.1	Untrained operator, not following proper operating procedures. Distracted operator. Following a poor system of work. Operator working alone.	Crushing Impact Trauma	Set up Operation Maintenance	Operation instructions explained in operator's manual	C4 Extreme	Train operators on safe use of the plant. Operator training should include at least the following: • pre-operation inspections • safe operation of plant • regular maintenance tasks • understanding of plant operation • capabilities and limitations • emergency procedures Do not operate the plant unless proper training has been received. Ensure operator's manual is kept with the plant for reference. Do not operate the plant when distracted, ill, excessively fatigued, or under the influence of drugs or alcohol. Implement appropriate system of work based on manufacturer's recommendations (e.g. operating instructions shown in operator's manual).	B1 Low
1.2	Misuse Unauthorised use of plant	Crushing Impact Trauma	Operation	Operator's manual warns about not using the plant for other than its intended purpose.	C4 Extreme	Do not use the MEWP for any other purpose than its intended use as explained in the operator's manual. Do not operate the plant unless proper training has been received.	B1 Low

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Consequence		implemented		measures	score	
					score	
				Keys are not to remain in an unattended machine.		
Roll over Crushing	Driving Operation	Maximum Rated Capacity (MRC) displayed on basket.	C4 Extreme	Learn and understand plant limitations. Consider weight of all workers, tools and equipment to be loaded into basket.	A2 Low	
				Do not exceed work platform capacity.		
				Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.		
Roll over	Driving Operation	Inclination control - platform is equipped with inclination sensor which alerts when the inclination of the chassis exceeds the given limits during boom operation or driving. During the inclination alarm, the access platform gives an audible signal and the orange indicator light will flash.	C3 High	Do not drive the plant over ground slopes which exceeds its limitations. Conduct site risk assessment to determine suitability of job site before starting any work.	B2 Low	
Roll over	Operation	Follow maximum wind speed rating.	C3 High	Constantly monitor wind speed when operating in wind sensitive areas.	B2 Low	
Crushing Impact	Operation Driving	Motion audible and visual alarm present.	C3 High	Beware of any obstructions around the work area; survey the area before moving the plant. Beware of other plant and persons	B2 Low	
	Crushing Roll over Roll over Crushing	Crushing Operation Roll over Driving Operation Roll over Operation Roll over Operation Crushing Operation	CrushingOperation(MRC) displayed on basket.Roll overDriving OperationInclination control - platform is equipped with inclination sensor which alerts when the inclination of the chassis exceeds the given limits during boom operation or driving. During the inclination alarm, the access platform gives an audible signal and the orange indicator light will flash.Roll overOperationRoll overOperationCrushingOperationOperationFollow maximum wind speed rating.	CrushingOperation(MRC) displayed on basket.ExtremeRoll overDriving OperationInclination control - platform is equipped with inclination sensor which alerts when the inclination of the chassis exceeds the given limits during boom operation or driving. During the inclination alarm, the access platform gives an audible signal and the orange indicator light will flash.C3 HighRoll overOperationFollow maximum wind speed rating.C3 HighRoll overOperationFollow maximum wind speed rating.C3 HighCrushingOperationMotion audible and visualC3	Roll over CrushingDriving OperationMaximum Rated Capacity (MRC) displayed on basket.C4 ExtremeLearn and understand plant limitations. Consider weight of all workers, tools and equipment to be loaded into basket.Roll overDriving OperationInclination control - platform is equipped with inclination sensor which alerts when the inclination of the chassis exceeds the given limits during boom operation or driving. During the inclination alarm, the access platform gives an audible signal and the orange indicator light will flash.C3 Constantly monitor wind speed when operating in wind sensitive areas.Roll overOperationFollow maximum wind speed rating.C3 HighConstantly monitor wind speed when operating in wind sensitive areas.Roll overOperationFollow maximum wind speed rating.C3 HighConstantly monitor wind speed when operating in wind sensitive areas.Roll overOperationMotion audible and visual al arm present.C3 	

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						around the work area, in particular when travelling around corners or blind spots.	
3.2	Exhaust fume build- up in poorly ventilated areas.	Asphyxiation	Operation	Some models installed secondary power unit – 240V.	C4 Extreme	Use 240V powered option when available. Ensure there is enough ventilation at the job site whenever combustion engine is used to operate the plant. May require forced mechanical ventilation.	B1 Low
3.3	Plant positioned near or driven over large depressions / obstacles.	sitioned driven over pressions / Collapse Operation Driving Driving C4 Always maintain a safe distant from ditches, trenches or pit while operating plant. Plan a route to safely bring the plant to the job site. Avoid driving over large obstator or depressions. Assess the ground conditions before setting up the plant: u dunnage under outriggers if necessary. Deploy outriggers close to group outriggers clos		Plan a route to safely bring the plant to the job site.Avoid driving over large obstacles or depressions.Assess the ground conditions before setting up the plant: use dunnage under outriggers if	B2 Low		
4	Operation	·					
4.1	Driving on steep ground	Overturning Crushing	Driving Set up	Follow maximum inclination limits set by manufacturer. Found in plant manual.	A5 High	Carry out job site risk assessment to determine suitability of the site before commencing any work.	A1 Low

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						Avoid driving on steep ground; find alternative routes whenever possible.	
						Do not stand on the lower side of the plant while driving on steep ground.	
						Never drive across steep ground, always drive with the tracks / tyres parallel to ground inclination.	
						Deploy outriggers when driving across steep surfaces.	
4.2	Operator control	Woker falls from basket Roll over Impact	Operation	Model comes with option of remote control. Wheeled version comes in 4wd.	C5 Extreme	Operate the drive control levers gently in order to avoid abrupt and jerky movements.	B2 Low
						When driving, pay special attention to stability and the dimensions, especially the length, of the machine.	
						Wear safety harnesses and keep them fastened whenever operating the machine.	
4.3	Incorrect replacement tyre fitted	Crushing Overturning Impacting	Operation	Maintain correct tyre inflation pressures as per manufacturers recommendation.	B4 High	Ensure replacement tyres match the plant manufacturer specifications.	A1 Low
4.4	Flat tyre	Overturning Crushing Impact	Operation	Model comes with option of Tracks. Prestart inspection as per manufacturers recommendation.	C4 Extreme	Regularly check condition of pneumatic tyres. Avoid driving over sharp obstacles or debris.	B1 Low
4.5	Damage to tracks	Overturning Crushing Impact	Operation	Prestart inspection as per manufacturers recommendation.	C3 High	Avoid driving on the following terrains or work sites	B2 Low

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						 Environments with crushed stone, iron bars, scrap metal or similar recycling material Daily/continuous driving on asphalt or concrete Work sites with sharp objects, such as broken stones or concrete waste Work sites with corrosive substances (fuels, oil, salt or fertilisers) 	
4.6	Uncontrolled movement of plant components i.e. outriggers	Crushing Impact Shearing	Set up Operation Maintenance Cleaning Troubleshoot	Prestart inspection as per manufacturers recommendation. All override valves should be returned, and lead seal installed.	C3 High	Isolate power to plant and remove the main switch key when performing maintenance and cleaning tasks. Stay clear of components which may swing or drop unexpectedly. Maintenance to be carried out by a competent person. Pay attention to crush and shear hazard decals to machine.	B2 Low
4.7	Inadvertent operation of controls	Crushing Impact	Set up Operation Maintenance Emergency	Deadman circuit installed by manufacturer.	C5 Extreme	Ensure deadman operation during prestart. Always depress the emergency stop button whenever the plant is not being operated.	B2 Low
4.8	Lowering / Raising - outriggers - work platform Moving parts	Crushing Impact	Set up Operation Maintenance Troubleshoot	Decals indicating crush hazards affixed to plant.	C4 Extreme	Ensure crush hazard decals are affixed to plant. Take appropriate safety measures e.g. barricades to keep people away from plant's operating areas.	B2 Low

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						Ensure all persons are clear of moving components before performing a movement. Maintenance to be carried out by a competent person.	
4.9	Entering/exiting the work platform (basket)	Falls	Operation	Use fold down step to help gain access.	C3 High	Ensure basket is horizontal and if necessary, adjust it by means of the special controls prior to moving from stowed position. Do not move between the basket and a structure outside the machine, machine stability could be jeopardised. Workers and equipment must enter and exit the basket only when it is at ground level. Always face inwards and maintain 3-points of contact when entering or exiting the basket.	B1 Low
4.10	Falling objects	Falling objects Impact	Operation	Barricade work area under fall zone to create a no-go zone.	C3 High	Secure items such as tools and consumables which could fall from basket. Lay items flat and evenly across the floor of the basket.	B2 Low
4.11	Falling from basket	Fall Death	Operation	Drop gate. Lanyard attachment point.	C5 Extreme	Check that the sliding bar which protects the opening of the basket is closed and positioned correctly. Safety harness to be worn at all times and secured to the designated hook in the basket.	B2 Low
4.12	Raising boom	Crush between fixed structure and basket	Operation	Check surroundings prior to starting and continually throughout job.	C4 Extreme	Be aware of potential crush hazards in the direction of	B2 Low

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						movement before moving the work platform.	
						Hard hat may be required if working near overhead obstructions.	
4.13	Faulty/out of order, or poorly maintained plant	Crushing Impact Trauma	Operation Emergency Maintenance	Operator's manual outlines plant maintenance schedule. Current maintenance inspections up to date as per manufacturers recommendation.	B4 High	Always perform pre-operation inspection before operating the plant. Implement 'tag out' procedure to isolate faulty/out of order plants. Do not use an 'out of order' plant. Record all faults in logbook. Perform plant maintenance as per manufacturer's maintenance schedule.Keep maintenance records / plant logbook up to date.	B1 Low
4.14	Plant modifications after completion of risk assessment.	Crushing Overturning	Operation Set up		C5 Extreme	Ensure modifications made to the plant are inspected, assessed, and approved by a competent person. Review hazard analysis and risk assessment after plant modifications.	B1 Low
5	Transport						
5.1	Loading and unloading – driving on	Roll over Crushing	Transport	Use remote controls always as they provide a safe operating distance for loading / unloading. Use low speed / low engine RPM on slopes / ramps.	C4 Extreme	Follow appropriate loading procedures including using weight rated ramps, have ramps at a low inclination, all person clear from the loading zone and placing the heavy end towards the front of the tray or tow hitch on a trailer.	B2 Low

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5.2	Loading and unloading – lifting on	Crush Impact	Transport Lifting	Lifting procedure included in Operator's Manual.	C5 Extreme	Follow appropriate lifting procedure.	B2 Low
5.3	slings / chains used for lifting or tying down / tie down strapsCrushingLiftinglifting and tied down points.Extremethe plant to secure it for transportation. Ensure lifting slings and straps are in good come Ensure lifting slings had suited to the load.		Ensure lifting slings and tie down straps are in good condition. Ensure lifting slings have a SWL	B2 Low			
6	Plant Failure						
6.1	 Plant failure including: malfunction of control devices structural failure of machine components failure of lift / tie down points 	Crushing Impact	Operation	Follow routine maintenance inspections by qualified person as per manufacturers recommendation. Use designated tie down points. Prestart inspection as per manufacturers recommendation.	B5 Extreme	Carry out pre-operational function tests of safety related functions at the start of every shift. Beware of risks associated with inadvertent operation of the machine, avoid compromising machine positions. Familiarise with location of emergency stop buttons. Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.	B2 Low
6.2	Burst hydraulic hose	Crushing Overturning Burn Skin irritation	Set up Operation Maintenance	Counter-balance valves fitted on lift and extension cylinders.	A3 Medium	Check hydraulic hose condition during periodic maintenance. Report and "tag out of service" if identified.	A2 Low
6.3	Excessive hydraulic oil pressure.	Impact Crushing	Set up Operation	Plant fitted with pressure relief valve.	C3 High	Check pressure settings during preventative maintenance.	A1 Low
7	Electrical						

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7.1	Damaged power cables, components.	Electrocution Shock Fire	Set up Operation Maintenance Troubleshoot Emergency	RCD fitted to 240V circuit. Fuse protection on electrical circuits	C1 Low	Ensure plant and extension cord are electrically tested and tagged as per AS 3760. Do not operate/use equipment with an expired test tag.	B1 Low
						Ensure inline RCD is used when charging the batteries.	
						Visually inspect the plant and extension lead before resetting the thermal fuse and RCD.	
7.2	Earthing fault	Electrocution Shock Fire	Set up Operation Maintenance	RCD fitted to machine 240V circuit.	C4 Extreme	Use appropriate means to supply power to the plant. That is, use extension leads with neutral, live and EARTH wire and pin.	A2 Low
						Ensure the plant's appliance inlet is regularly tested and tagged as per AS 3760.	
						Do not operate a plant with an expired electrical safety tag.	
						Visually inspect the plant and extension lead before turning the power ON.	
7.3	Contact with live conductors under plant cover	Shock Electrocution	Emergency Maintenance		C5 Extreme	Do not touch terminals/wires inside the electric cabinet. Keep electric cabinet closed and locked at all times.	A2 Low
7.4	Power failure (flat battery)	Crushing Being runover	Operation Emergency	Hydraulic valve bank over centre type when power is removed.	C4 Extreme	Prepare emergency procedure for power failure.	C1 Low
				Drive system brake is applied when power is removed.			

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7.5	Battery charging	Burn Fire Explosion	Maintenance		C5 Extreme	Charge in an area with good ventilation, away from ignition sources.	A3 Medium
7.6	Battery handling	Burn Fire Explosion	Maintenance	MaintenanceIsolate power by turning off factory isolator.C5 ExtremeWhen har protective Avoid con if electroly clothes, fl quantity of In case of with a lot minutes a assistance		When handling the battery, wear protective clothing and eyewear. Avoid contact with clothes or skin; if electrolyte gets on your skin or clothes, flush it with a large quantity of water. In case of contact with eyes, flush with a lot of water for at least 15 minutes and seek medical assistance immediately. Do not touch the battery terminals	3B Low
						or cables with tools that may cause spark emissions. In order to avoid spark emissions, always disconnect the (-) cable first and connect it last. Use appropriate lifting techniques, perform 2 person lifting technique for heavy or awkward to reach parts.	
7.7	Lightning	Electrocution Shock	Set up Operation		A5 High	Do not use the plant during a thunderstorm.	A1 Low

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RISH	MATRIX			ACTION	HEIRACHY OF CONTROLS					
				CONSEQUENCE			EXTREME – Do not proceed,	1. Elimination – controlling the hazard at		
		1. Insignificant	2. Minor	3. Moderate	4. Major	5. Catastrophic	are implemented to lower the risk. Senior management attention required. HIGH – Review and introduce additional controls to lower level of risk. Needs senior management attention. MEDIUM – Monitor and maintain supervision and	 are implemented to lower the risk. Senior management attention required. Substitution – e.g. is substance or activity hazardous one Isolation – e.g. use isolate the hazard, machinery, installin machinery Engineering – e.g. cequipment to coun MEDIUM – Monitor and Administration – p.g. isolate the hazard, machinery 	are implemented to lower the 2 . Substitution – e.g. re	the source 2. Substitution – e.g. replacing one substance or activity with a loss
0	E. Almost Certain Is expected to occur immediately or within a short timeframe	HIGH	HIGH	EXTREME	EXTREME	EXTREME			 hazardous one 3. Isolation – e.g. use of barriers to shield or isolate the hazard, enclosures for noisy 	
	D. Likely Will probably occur in most circumstances	MEDIUM	HIGH	HIGH	EXTREME	EXTREME			4. Engineering – e.g. design and install	
ПКЕЦНООD	C. Possible Could happen and has occurred here or elsewhere	LOW	MEDIUM	HIGH	EXTREME	EXTREME			equipment to counteract the hazard 5. Administration – policies and procedures for safe work practices	
	B. Unlikely Unlikely to occur	LOW	LOW	MEDIUM	HIGH	EXTREME		 Personal Protective Equipment – e.g. respirators, ear plugs, face masks, safety glasses, safety shoes 		
	A. Rare Not expected to occur	LOW	LOW	MEDIUM	HIGH	HIGH	LOW – Monitor and manage by routine procedures and monitoring.			

CONSEQUENCE	DESCRIPTORS		
SEVERITY	SAFETY	ENVIRONMENT	BUSINESS
5. Catastrophic	Potential for incident resulting in serious damage	The aspect is legally or contract regulated and has the potential for a	Loss > \$1M
	and/or fatality	disastrous long term impact resulting in prosecution.	
4. Major	Potential for incident resulting in serious damage	The aspect is legally or contract regulated and has the potential for a	Loss of service provision
	and/or permanent disabling illness or injury	serious long term impact resulting in prosecution.	
3. Moderate	Potential for incident resulting in significant	Significant environmental aspect with short term impact resulting in	Loss \$100K - \$1M
	damage and/or temporary disabling illness or	improvement notice.	
	injury		
2. Minor	Potential for incident resulting in moderate	The aspect is legally or contract regulated and has the potential for a	Prolonged reduction in service
	damage and/or requiring medical treatment.	moderate reversible short term impact resulting in an improvement	provision or productivity
		notice.	
1. Insignificant	Potential for incident resulting in minor damage	The aspect is not legally or contract regulated and has the potential	Loss \$10K - \$100K
	and/or injury requiring first aid treatment	for a minor negligible impact.	

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