

PLANT RISK ASSESSMENT - ATTACHMENT

Company	Ontrac	Risk Assessment Date:	14-Sep-2021	Expiry Date:	14-Sep-2022

Risk Assessment Expired?

Call 0421 185 883 or email admin@cpsaust.com to arrange a new Risk Assessment ASAP

	Company Details	
Address	2/20 Ravenhall Way, Ravenhall VIC 3023	
Contact	Adrian Atwood <adrian.a@ontracgroup.com.au></adrian.a@ontracgroup.com.au>	
Contact Number	0448 022 609	

Plant Specifications								
Plant item	Chain drive cutting he	ad	Plant ID	N/A				
Make	Kermroc		Model	EK110				
Serial Number	EK110250		ROPS Fitted/Standard	N/A				
Height [mm]	Unknown		Width [mm]	800				
Length [mm]	1900		Operating Weight [Kg]	2600				
Engine Make	N/A		Engine Model	N/A				
Fuel Capacity	N/A		Year Made	2021				
Current Hours	N/A	Last Service Hours	N/A	Next Service	e Hours	N/A		



Noise Measurement					
Make/Model		Serial Number			
Reading at Operators Station	To be carried out once commissioned on hos	st machine			
Reading for Bystanders Taken	Static environment - attachment not on mach	Static environment - attachment not on machine			
Left		Right			
Front		Rear			



Plant Noise Levels [CPS noise levels to be taken in accordance with "Guide for assessing noise generated by plant in the work place" issued by National Acoustic Laboratories with reference to the WHS Act and Regulations 2011. Noise level readings at the operators station are conducted with cabin doors and windows closed at operating RPM]

Noise Warning: OPERATOR	Noise Warning: BYSTANDER
BELOW	BELOW
85dB(a)	85dB(a)
No Hearing protectors required for short usage (less than 8 hours)	No Hearing protectors required for short usage (less than 8 hours)



CONSEQUENCE & LIKELIHOOD

Consequence Rating		RISK KEY	Risk Formula	Likelihood Rating				
Catastrophic	Potential to cause death.	EXTREME	R = C x P	Almost Certain	Likely	Possible	Unlikely	Rare
5	Loss of business.	Immediate response. Not acceptable as a residual risk!	Catastrophic	Extreme	Extreme	Extreme	High	Moderate
Serious 4	Potential to cause permanent disability. Major environment damage, major clean up required. Critical damage to property.	HIGH Respond quickly.	2 Serious	25 Extreme	20 Extreme	15 High	10 High	5 Moderate
Moderate 3	Lost time injury [LTI]. Moderate environmental damage, clean up required.	Not acceptable as a residual risk!	Action of the second se	20 Extreme	16 High	12 High	8 Moderate	4 Low
	Limited damage to property.	Respond in	Moderate	15	12	9	6	3
Minor 2	Medical treatment injury [MTI]. Minor environmental damage, straight forward clean up. Slight damage to property.	Consider additional control measures	Minor	High 10	High 8	Moderate 6	Low 3	Low 2
Insignificant 1	No first aid required. Report incident. No harm done to environment. Insignificant damage to property.	LOW Low Priority. Review control measures	Insignificant	Moderate 5	Moderate 4	Low 3	Low 2	Low 1
Likelihood Ra	ting	Hierarchy of Contro	ols					
Almost	Occurs more than twice a year.	Safe Place [Preferred]			Eliminati	on		
5	Reoccurring event during the lifetime of a project.				Substitut	ion		
Likely	Occurs once or twice a year.				Isolatio	n		
4	May occur frequently during the lifetime of a project.				Engineer	ing		
Possible	Typically occurs 1-10 years.				Admir			
3	May occur during the lifetime of a project.	Safe Person			PPE			
Unlikely	Typically occurs in 10 - 100 years	[Least preferred]						
2	Unlikely to occur during the lifetime of a project.	Any hazard assessed as	presenting a low and/or	moderate risk le	vel will be control	led using a comb	ination of controls	s as appropriate.
Rare 1	Greater than 100 year event. Very unlikely to occur during the life of a project.	Any hazard assessed a lower level co Any hazard assessed as	is presenting a high risk l introls as appropriate. Wh presenting an extreme r controls. Where this is no	evel must be cor here this is not po isk level will be c ot possible workp	ntrolled using a co ossible workplace ontrolled using el blace manager co	ombination of at le e manager consul imination and eng nsultation must ta	east one engineer tation must take p gineering as the p ake place.	ing control and blace. rimary source of



SUMMARY OF RISKS IDENTIFIED

No No	Hazard Category	Operation	Maintenance		Complies?	
1	Entanglement	~		N/A	🖌 Yes	No
2	Crushing	~	~	N/A	✓ Yes	No
3	Cutting, stabbing or puncturing	~	~	N/A	🖌 Yes	No
4	Shearing		~	N/A	Ves	No
5	Striking	~	~	N/A	✓ Yes	No
6	High pressure fluid	~	~	N/A	✓ Yes	No
7	Electrical	`	~	N/A	Ves	No
8	Explosion		~	N/A	✓ Yes	No
9	Slipping, tripping and falling	~		N/A	Ves	No
10	Ergonomic	~		N/A	🖌 Yes	No
11	Combination of hazards			✓ N/A	Yes	No
12	Runaway [Rail application only]			✓ N/A	Yes	No
13	Collision [Rail application only]			✓ N/A	Yes	No
14	Derailment including rollover [Rail application only]			✓ N/A	Yes	No
15	Machine configuration - height/width limitations [Applicable to rail and tunneling operations]			V/A	Yes	No
16	Other hazards			V/A	Yes	No
17	Have attachments been considered?			N/A	✓ Yes	No
18	Is foreseeable misuse considered?			N/A	✓ Yes	No
19	Is assessment of risk and effectiveness of controls consistent and realisti	c?		N/A	✓ Yes	No
20	Does the assesment demonstrate sufficient knowledge of the plant function		N/A	🖌 Yes	No	
21	Have machine limitations been clearly defined?		N/A	✓ Yes	No	
22	Has the risk assessment been developed in conjunction with the OEM's do	ocumentation, relevant codes ar	nd legislation?	N/A	✓ Yes	No
23	Do the controls reflect the Heirachy of Control principals, with the most eff	fective being attempted first?		N/A	✓ Yes	No
24	Does the risk assessment provide space for personnel to sign and acknow	/ledge that they have read and u	inderstood the content?	N/A	✓ Yes	No

MINIMUM STANDARD



The below minimum standards are required to be in place prior to starting work. These controls will alleviate foreseeable misuse, through ensuring only competent personnel operate and maintain this item of plant.

Generic Admini:	Generic Administrative controls						
ADM- Operator to have VOC/familiarised on operation of machine ADM- Daily inspection [pre-start] to be completed prior to every shift to identify any faults/hazards prior to operation [ir ADM- Operator's manual specific to this item of plant is kept with the plant at all times ADM- Machine to be operated within limits specified in the operator's manual ADM- Maintenance/servicing to be carried out by qualified mechanic as per OEM preventative maintenance/repair requ	ncluding daily inspection on attachments] uirements						
Attachments considered	Attachments considered Legislation, Codes and Standards considered						
 N/A as this is the attachment to be fitted to the host machine 	 OHS Act 2004 OHS Regulations 2017 Victorian Plant Code of Practice 2019 AS1418.8 Cranes, hoists and winches, Part 8: Special purpose AS4772-2008 Earth-moving machinery -Quickhitches for excavators AS4024-2014 Safety of machinery 						



RISK HAZARDS & CONTROLS

Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
ENTANGLEMENT Considerations Can anyone's hair, clothing, gloves, neck tie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	H12	 Elimination Substitution Isolation Engineering Admin PPE 	Bystanders getting entangled in broom attachment: ADM- Operator to have VOC/ familiarized on operation of machine ADM- Pre-start to be completed prior to every shift to identify and faults hazards prior to operation (including pre-start on broom) ADM- Machine to be operated within limits specified in the operators manual ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ENG-Machine controls are self centering and stop as such if operator is to remove hands/ feet from function ENG-Operational horn MUST be fitted to machine to allow operator to alert by standers of intentions ADM- Maintenance/ servicing to be carried out by qualified mechanic as per OEM preventative maintenance/ repair requirements Entanglement of maintenance personnel during maintenance activity: ELI-Remove attachment to carry out any maintenance ISO-If not practical to remove attachment, isolate parent machine and verify isolation	Μ4



Possible Hazards Initial Risk Rating Controls in place How are identified risks & hazards controlled? Residual Rating	Risk g
CRUSHING & STRIKING E15 □ Elimination □ Systanders to maintaine elegication to machine enditive comparison of machine enditive endital enditive enditive enditive endital end	



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
CUTTING, STABBING AND PUNCTURING Considerations Coming in contact with sharp or flying objects? Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? The plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors not mentioned?	M6	 Elimination Substitution Isolation Engineering Admin PPE 	 Bystanders being cut/ stabbed by material ejected from attachment: ADM- Operator to have VOC/ familiarized on operation of machine ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ADM- Machine to be operated within limits specified in the operators manual ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ADM- Operator to only required RPM to achieve desired effect, DO NOTOVERSPEED ATTACHMENT Attachment disconnecting from quick hitch - crushing bystanders: ADM- Operator to have VOC/ familiarized on operation of machine ADM- Poerator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ENG-Chain cutter attachment only ADM-Quick hitch to be regularly inspected to ensure wear/ operation acceptable ADM-only use buckets with correct pin centers/ spacing for quick hitch 	L3



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
SHEARING Considerations Can anyone's body parts be sheared between two parts of the plant, or between a part of the plant and a work piece or structure?	E15	 Elimination Substitution Isolation Engineering Admin PPE 	 Bystanders being struck by material ejected from attachment: ADM- Operator to have VOC/ familiarized on operation of machine ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ADM- Machine to be operated within limits specified in the operators manual ISO-Bystanders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ADM- Operator to only required RPM to achieve desired effect, DO NOTOVERSPEED ATTACHMENT Crushing of bystander from Excavator overturning: ENG-Excavator compliant with AS1418.8 S5, and as such fitted with AS4772 compliant quick hitch, hydraulic burst protection, single value load chart in cab, decals fitted to sitck and level indicator - Machine WLL for pick and carry (66%) MUST be above tare weight of 2600KG Attachment disconnecting from quick hitch - crushing bystanders: ADM- Operator to have VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave VOC/ familiarized on operation of machine ADM- Operator to bave to every shift to identify and faults hazards prior to operation (including pre-start to be completed prior to every shift to identify and faults hazards prior to operation (including pre-start to be completed prior to every shift to identify and faults hazards prior to operation (including breator is established EOG-Dystarders to maintain 15m exclusion zone to machine - only to approach once positive communication with operator is established ENG-Chain cutter attachment only ADM- Opick hitch to be regularly inspected to ensure wear/ operation acceptable ADM-only use bucke	M5



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
STORED ENERGY Considerations Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant? • High pressure gas • High pressure fluid • High pressure air • High pressure water	H12	 Elimination Substitution Isolation Engineering Admin PPE 	Bystanders exposed to hydraulic oil from attachment hoses if hoses fail: ISO-Work area to be barricaded during operation with appropriate distanced exclusion zone ENG-Hose fitted to attachments to have working pressure above the maximum system pressure of the machine ENG-Sheaving fitted to all exposed hydraulic hoses ADM-Competent person only to connect / disconnect attachment hoses when fitting attachment (ensure taps turned off prior to connection/ disconnecting) PPE-Gloves to be worn when connecting/ disconnecting attachment (Maintenance of hydraulic system: ADM-ADM/Aufulic system pressure to be removed prior to dismantling components - refer to OEM manual as required	Μ4



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
ELECTRICAL Considerations	E16	Elimination Substitution	General operation of machine: ADM-Decals fitted to notify persons of overhead electrical hazards and approach distances ADM-Machine height decal MUST fitted in cab to detail the travel height of machine when traveling below power lines	M4
The plant contacting live electrical conductors? The plant working in close proximity to electrical conductors? Overload of electrical circuits? Damaged or poorly maintained electrical leads and cables? Damaged electrical switches? Water near electrical equipment? Lack of isolation procedures? Other factors not mentioned?		 Isolation Engineering Admin PPE 	Striking underground services during general operation: ELI- All services to be located prior to penetrating any ground ADM- Electrical spotter to be used as required ADM- Dial before you dig decal fitted in cabin	



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
Possible Hazards HIGH/LOW TEMPERATURE/FIRE Considerations Can anyone come into contact with objects at high temperatures? Can anyone be injured by fire? Can anyone suffer ill-health due to exposure to high temperatures?	L3	Controls in place Elimination Substitution Isolation Engineering Admin PPE 	How are identified risks & hazards controlled? Not applicable on cutter attachment	L3



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
EXPLOSION Considerations Can anyone be injured by explosion of gases, vapours, liquids, dusts, etc. triggered by the operation of the plant or by material handled by the plant?	L3	 Elimination Substitution Isolation Engineering Admin PPE 	Not applicable on cutter attachment	L3



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
SLIPPING, TRIPPING AND FALLING	L3	✓ Elimination	Not applicable on cutter attachment	L3
Considerations		Substitution		
Uneven or slippery work surfaces?		Isolation		
Poor housekeeping, eg spillage not cleaned up?		Engineering		
Obstacles being placed in the vicinity of the plant? Lack of proper work platform?		Admin		
Lack of proper stairs or ladders?				
Lack of guard rails or other suitable edge protection? Unprotected holes, penetrations or gaps? Poor floor or walking surfaces such as the				
lack of a slip-resistant surface?				
Steep walking surfaces?				
Collapse of the supporting structure?				
Mud/clay on steps/access ways.				
Other factors not mentioned?				



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
ERGONOMIC	L3	✓ Elimination	Not applicable on cutter attachment	L3
Considerations		Substitution		
Poorly designed seating?		lsolation		
Repetitive body movement?		Engineering		
Constrained body posture or the need for excessive effort?		Admin		
Design deficiency causing mental or psychological stress?				
Inadequate or poorly placed lighting?				
Lack of consideration given to human error or human behaviour?				
Mismatch of the plant with human traits and natural limitations?				
Other factors not mentioned?				



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
SUFFOCATION	L3	✓ Elimination	Not applicable on cutter attachment	L3
Considerations		Substitution		
Can anyone be suffocated due to lack of oxygen or atmospheric contamination?				
Other factors not mentioned?				
Other factors not mentioned?		Admin PPE		



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
OTHER HAZARDS	L3	✓ Elimination	Not applicable on cutter attachment	L3
Considerations		Substitution		
Can anyone be injured or suffer ill-health from		Isolation		
exposure to:		Engineering		
Chemicals?		Admin		
Toxic gases or vapours?		PPE PPE		
Fumes?				
Dust?				
Noise?				
Vibration?				
Radiation?				
Other factors not mentioned?				



Possible Hazards	Initial Risk Rating	Controls in place	How are identified risks & hazards controlled?	Residual Risk Rating
COMBINATION OF HAZARDS	L3	✓ Elimination	Not applicable on cutter attachment	L3
Considerations		Substitution		
		Isolation		
		Engineering		
		Admin		



RECOMMENDATION

Recommendation: To bring item of plant to an acceptable risk standard of moderate or below.		pleted	Recommendation - Best Practice:		Completed	
		Date	Tier One requirements	Initial	Date	



PRA PERSONNEL REVIEW

REVIEW DETAILS

The review panels below are designed to document additional supplementary controls only [site specific etc], this tool does not remove your legal responsibility to carry out regular risk assessments as a whole; or if plant risk changes.

Personnel		Personnel		Personnel	
Name	Date	Name	Name Date		Date
Qualification	Review Date	Qualification	Review Date	Qualification	Review Date
Review Details:		Review Details:		Review Details:	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	



Personnel consulted on development of PRA						
Name:	Signature:	Date:	Position:			
Ben Horstmann	Samo	14/September/2021	Plant Inspector			

We the Person/s below have read & understood the contract., confirm that the PRA nominated above has been explained and its contents are clearly understood. We also confirm that our required qualifications to undertake this activity are current. We also clearly understand that the controls in this PRA must be applied as documented, otherwise work is to cease immediately.

Name:	Qualification:	Signature:	Date:	Employer:



DISCLAIMER

This Plant Risk Assessment ["PRA"] is strictly confidential and provided for use only by the Company as set out on page 1. Unauthorised dissemination of this PRA is prohibited. CPS shall not be liable to any other person having relied or acted upon any information contained in this PRA.

The PRA relates solely to the condition and configuration of the Plant for its intended use. The CPS assessor makes various assumptions based on the design and manufacturing specifications. This PRA provides a summary of the risks apparent to the CPS assessor on the Risk Assessment Date, and suggested action to mitigate such risks, having regard to those assumptions and the circumstances and conditions present during inspection and testing. The Company acknowledges that the circumstances and conditions prevented the CPS assessor from observing potential risk factors.

CPS recommends immediate action in relation to any safety hazard identified herein, notwithstanding any notation as to priority or classification of the risk.

The Company/Plant Owner remains solely responsible for the condition, configuration, maintenance, and safe operation of the Plant at all times. The Company/Plant Owner must carry out its own regular inspections, and ensure compliance with all applicable laws. CPS assumes no responsibility for, nor makes any warranty in relation to, the satisfaction of any legal obligation of the Company/Plant Owner by obtaining this PRA or in complying with any of the recommendations set out herein, or in relation to the condition, suitability, or safety of the Plant under any operating conditions.

Any warranty, guarantee, condition or other term arising out of or in connection with this PRA or the supply of services by CPS which might apply or which might be implied or incorporated into any contract between the Company/Plant Owner and CPS by statute, common law, or otherwise [including, without limitation, any implied term or guarantee as to fitness for purpose or acceptable care and skill] is hereby expressly excluded to the maximum extent permitted by law.

Any action taken in reliance upon the recommendations set out herein is taken at the Company/Plant Owner's risk. CPS recommends a further inspection on the making of any alteration to the Plant or operating methods.

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inspections@cpsaust.com