

RISK MANAGEMENT REPORT

TYPE	Rollers, Pedestrian Operated
MAKE	Dynapac
MODEL	D.ONE
SERIAL NUMBER	101924901210
Report Number	CEA 20200612-1417
Date	12-Jun-2020
Created By	Mark Burr-Dixon
Assessor	Mark Burr-Dixon
Assist. Assessor(s)	
Completed By	Mark Burr-Dixon
Owner	CEA Sydney
Assessment Purpose	Sale
State	NSW

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SECTION 1 IMPORTANT INFORMATION

Contains information outlining the scope and any limitations applicable to this Risk Management Report

SECTION 2 MACHINE DETAILS

Contains standard machine specifications and details of any extras fitted

SECTION 3 Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please

refer to this information when reviewing and interpreting the information in section 4 & 5 RISK TREATMENTS REQUIRED

SECTION 4 Contains detailed information regarding the risk treatments to be implemented including hazard, risk

rating, time frame, relevant standards & legislative references RISK TREATMENTS IN PLACE

RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT

SECTION 5 Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

IMAGES AND NOTES

SECTION 6 Contains images & any relevant information entered by the assessor





SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Monday, 22 Jun 2020 4:50 PM

This Risk Management Report has been prepared for -

(insert recipient name/company name)

This document has been prepared to cover the sale or transfer of this item of plant between the Company identified on the front cover and their named recipient. This report must not be used for any subsequent sale or transfer.

This document is provided to meet duty of care obligations as set out in relevant state and territory health and safety regulations for the supply of plant and the sale and transfer of plant.

The safety hazards associated with the operating and maintaining of this item of plant have been identified as far as practical by visual inspection. This item of plant is being sold in an "as-is" condition with known and unknown safety hazards. No physical testing has been conducted (eg. Wire rope tests, stress tests, structural/non-destructive tests, noise tests, vibration tests, brake tests, insulation tests etc.) unless stated otherwise in the notes.

This document is not intended to provide information on, nor warrant the mechanical, electrical or structural condition of this item of plant. Any information on standard features have been supplied through the manufacturer and should be used as a guide only until otherwise verified.

This item of plant should be further assessed, tested and inspected or dismantled as necessary to gauge any further hazards and /or risks relating to SPECIFIC WORKPLACE USE, which are currently unknown, in accordance with relevant standards, regulations and acts.

Under common law and relevant state and territory health and safety acts, regulations and codes of practice, there is a requirement for the plant owner, employer and operator to exercise a duty of care in the safe operation and maintenance of plant. Accordingly before this item of plant is supplied to, or used at any workplace it must be inspected to ensure it is in a fully operational, safe and serviceable condition and that operators and maintenance personnel are appropriately trained in the use & maintenance of this item of plant.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

SECTION 2 MACHINE DETAILS

၂ တ		Manufacturers specified noise level dBA	
ן ניי		2. Ambient noise level dBA	
Ι₹Ι		3. Noise level - Operator position (high idle) dBA	109
1 1	- NOISE TEST RESULTS	4. Noise level - Operator position (low idle) dBA	84
╽⋓╽	- NOISE TEST RESULTS	5. Noise level LHS dBA @ m (high idle)	
		6. Noise level Front dBA @ m (high idle)	
4		7. Noise level RHS dBA @ m (high idle)	
를		8. Noise level Rear dBA @ m (high idle)	
l O	BODY TYPE	Articulated/Rigid	Articulated
₹ [BRAKES	Service Braking System	Hydrostatic
(-	CAPACITIES	Fuel Tank Capacity (Litres)	24
	CAPACITIES	Water sprinkler tank capacity (Litres)	
	DIMENSIONS/WEIGHTS	Height (mm)	1275
		Length (mm)	1897





	Operating weight (kg)	1595
	Static linear load, front/rear (kg/cm)	
	Static weight on drums, front\rear (kg)	
	Turning circle diameter (mm)	
	Width (mm)	850
DRIVES	Drive: single drum/double drum	Double Drum
	Drum widths front/rear (mm)	850/850
DRUMS	Number of pads per drum	
	Vibration: single drum/double drum	Double drum
	Engine Displacement (Litres)	
	Engine Hours	
ENCINE	Engine Make & Model	Kubota D 1005
ENGINE	Engine Number	
	Engine Power (kW@rpm)	14.5 kW @ 2600 rpm
	Number of Cylinders	3
DI ANT CLASCIFICATIONS	Class	
PLANT CLASSIFICATIONS	Year	
TRANSMISSION	Transmission Type	Hydrostatic
TRANSMISSION	Travel speed (m/min)	2.8km/h
	Centrifugal force, high+low amplitude (kN)	72/36
WORK CARABILITIES	Gradeability - Degrees/(%)	45/55
WORK CAPABILITIES	Nominal amplitude, high+low (mm)	1.12/0.56
	Vibratory frequency, max+min (Hz)	42/42





SECTION 3 RISK ANALYSIS / RISK EVALUATION

RIS	SK ANALYSIS						
	← CONSEQUENCE →						
H00D		1. INSIGNIFICANT Dealt with by in house first aid	2. MINOR Treated by medical professionals, hospital out patients	3. MODERATE Significant non permanent injury overnight hospital stay	4. MAJOR Extensive permanent injury eg. Loss of fingers, extended hospital stay	5. CATASTROPHIC Death, permanent disabling injury eg. Loss of hand, quadriplegia	
—— LIKELIHOOD	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25	
•	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24	
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22	
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21	
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15	

LUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
RISK EVA	HIGH	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
	MEDIUM	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
	LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

RISKTREATMENT	Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (Source AS/NZS ISO 31000:2009)				
	Eliminate	Eliminate the risk source.			
	Substitute	tute Provide an alternative that is capable of performing the same task which is safer.			
	Engineering	Provide or construct a physical barrier or guard.			
	Administration Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.				
	Personal protective	Provide personal protective equipment to protect the individual from the risk source.			





Make Dynapac Model D.ONE

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SECTION 4 RISK TREATMENTS REQUIRED

This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.

		HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating	Time Frame	Due Date	Date Rectified	Initial
PER	NOMINATED OPERATOR ONLY	INCORRECT OPERATION	CRITICAL 24	MEDIUM 15	Immediate	12-Jun-20		
	Only persons	Risk Treatment Required: Operator Competency Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant.						
	Legislation: \$	State Health & Safety Legislation & Re	egulation					

SECTION 5 RISK TREATMENTS IN PLACE

References: Work Health & Safety Act & Regulations-Assessor Comments: Customer responsibility

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

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
ELIVERY	CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: SWMS Load Restraint				
	Ensure that all operators follow the approved SWMS/SOP when restraining this machine for	transport.			
	References: Work Health & Safety Act & Regulations-				
ERATION	INCORRECT OPERATION	HIGH 22	MEDIUM 15		
A	Risk Treatments in Place: Operation Handbook				
2	The manufacturer's operation handbook has been supplied for this item of plant.				
OPE	This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.				
	A complete risk assessment/Job Safety Analysis must be undertaken covering all operating of plant. SWMS should be produced for specific tasks associated with use of this item of plant.	•	associated with this item		





HAZARD(S) Prelim. Risk Rating **Residual Risk Rating INCORRECT OPERATION** HIGH 22 MEDIUM 15 Risk Treatments in Place: Pre-op Checklist Roller, Pedestrian Operated A pre-operational checklist is available for this Roller, Pedestrian Operated. All operators must complete this checklist prior to operating this Roller, Pedestrian Operated. References: Work Health & Safety Act & Regulations-INCORRECT OPERATION HIGH 22 MFDIUM 15 Risk Treatments in Place: SOP Roller, Pedestrian Operated Safe Operation Procedures are available for this Roller, Pedestrian Operated. The information in the Safe Operation Procedures must be followed at all times whilst operating this Roller, Pedestrian Operated. References: Work Health & Safety Act & Regulations-**CRUSHING** HIGH 22 MFDIUM 15 Risk Treatments in Place: Transport Procedures - Not SP Review the Safe Operation Procedures for transporting this item of plant to ensure they include the following as a minimum: When transporting this item of plant by road, rail or sea -1. Position wheel chocks at the front and rear of each tyre 2. Tether the item of plant with load rated chain using approved tie down points (if fitted) or at each corner over or through the axle, over the drawbar and tighten with an approved tightening device. The load rating of the chain must be at least equal to the operating wieght of the item of plant to be tethered. A load restraint guide is available from the Nation Transport Commission web site at www.ntc.gov.au Oversize items must be transported in accodance with the appropriate regulatory authorities requirements. References: Work Health & Safety Act & Regulations-INCORRECT OPERATION HIGH 22 MFDIUM 15 **Risk Treatments in Place: Control Labels** All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times. References: AS/NZS4024.1905 POISONING, EXPLOSION, BURNS HIGH 22 MEDIUM 15 **=** (1) Risk Treatments in Place: Tank ID Label The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks) References: Work Health & Safety Act & Regulations-**FIRE** HIGH 21 MEDIUM 15 Risk Treatments in Place: Fire Extinguisher This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times.

This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995

Risk Treatments in Place: Articulated Joint Crush Label

This item of plant has clear hazard warning labels re: crush zone, keep clear, that are attached to each side of the articulated joint. These must be present, clear and legible at all times whilst this item of plant is in operation.

References: ISO20474-, AS/NZS4024.1201





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	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
0	HEARING LOSS	HIGH 19	MEDIUM 14

Risk Treatments in Place: Hearing Protection Label - Bystanders

The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.

References: AS/NZS1269, AS3781-



HEARING LOSS

HIGH 19

MEDIUM 14

Risk Treatments in Place: Hearing Protection Label - Operator

The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.

References: AS/NZS1269, AS3781-



ENTANGLEMENT, SHEARING, BURNS

MFDIUM 14

MEDIUM 13

Risk Treatments in Place: Engine Guard Label

The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.

References: AS1319-, AS/NZS4024.1201



CRUSHING, ENTANGLEMENT, OPERATIONAL MALFUNCTION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Radio Control Cut Out Device

This remote controlled item of plant is fitted with a device which cuts power to the unit and prevents further movement in the event of a loss of signal from the remote, i.e. out of range, signal interference, loss of power to the remote or inactivity for greater than 5 minutes.

This safety device must be present and functional at all times whilst this item of plant is in operation.

References: ISO31000



STRIKING, BURNS

HIGH 22

MEDIUM 15

Risk Treatments in Place: Hydraulic Hoses

This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.

Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.

Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps -

- 1. Stop engine
- 2. Keep all bystanders clear of the work area
- 3. Refer to operators manual as to methods to release pressure
- 4. Wait 5 minutes

References: AS2671, AS4024



ENTANGLEMENT

HIGH 22

MEDIUM 15

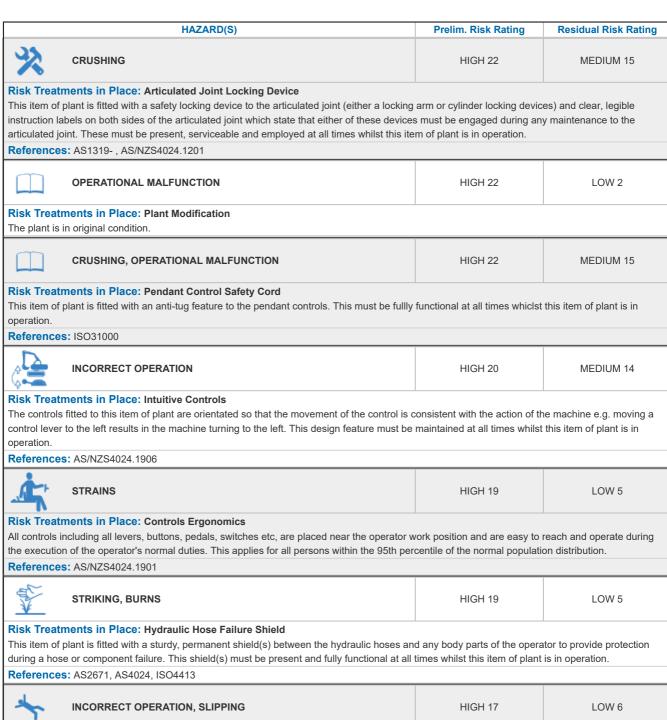
Risk Treatments in Place: Engine Guards

The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1601









Risk Treatments in Place: Control Levers/Pedals/Buttons

All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.

References: AS/NZS4024.1901



ELECTRIC SHOCK, BURNS

MEDIUM 12

LOW 6

Risk Treatments in Place: Battery Cover

All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201





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Rollers, Pedestrian Operated

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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
BURNS	MEDIUM 9	LOW 5

Risk Treatments in Place: Exhaust

The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201



CURRENT OR PREVIOUS STRUCTURAL DAMAGE

CRITICAL 25

MEDIUM 15

Risk Treatments in Place: Structural Integrity

Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.



INCORRECT OPERATION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Maintenance Manual

The manufacturer's maintenance manual(s) has been supplied for this item of plant

These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.

A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use.

A full assessment of the competence of people using the book(s) must also be undertaken

References: Work Health & Safety Act & Regulations-



STRIKING, BURNS

HIGH 22

MEDIUM 15

Risk Treatments in Place: Hydraulic Damage

The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme.

References: AS2671, AS4024, ISO4413



OPERATIONAL MALFUNCTION

HIGH 22

LOW 2

Risk Treatments in Place: Major Fluid Leaks

This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.

References: ISO31000



OPERATIONAL MALFUNCTION

HIGH 21

MEDIUM 15

Risk Treatments in Place: Service Records

Service and maintenance records are available for this item of plant.

These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.

References: Work Health & Safety Act & Regulations-

SECTION 6 IMAGES AND NOTES

IMAGES





Make Dynapac Model D.ONE

Type Rollers, Pedestrian Operated

Serial Number Assessed By Date 101924901210 Mark Burr-Dixon 12-Jun-2020

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

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MAKE	Dynapac	Date	12-Jun-2020
MODEL	D.ONE	Created By	Mark Burr-Dixon
SERIAL NUMBER	101924901210	Assessor	Mark Burr-Dixon
		Assist. Assessor(s)	
		Owner	CEA Sydney
		Assessment Purpose	Sale
		State	NSW

PURCHASER ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above. I also acknowledge that I have recieved a copy of this risk management report. I also acknowledge that I am authorised to sign on behalf of the purchaser.

Name
Company Name
Position
Signature
Date
The manufacturer's operational & maintenance handbooks have been supplied, (circle one) YES NO (initial)
Please transfer this assessment to my Plant Assessor membership as a (circle one) HIRE / PLANT IN USE assessment.
My Plant Assessor email is

