

Plant and Equipment Risk Assessment

Part A: Risk Assessment Summary

Risk Rating Key:	V.High	High	Medium	Acceptable
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Product:	K9-3 Mini Loader		
Plant Usage/Task Description:	The K9-3 is a mini loader or skid steer power plant designed for a single operator positioned on a rear platform. The K9-3 mini loader has a variety of uses but its primary application is a powerplant to power or drive approximately 70+ attachments (e.g. bucket, leveller or post hole digger etc).		
Hazard Identification & Risk Assessment:	Entanglement	Electrical Safety	Thermal Comfort or UV Radiation
	Crushing	Fire or Explosion	Traffic Management
	Cutting, Stabbing, Puncturing	Slips, Trips and Falls	Chemicals
	Shearing	Working at Heights	Dust
	Friction	Suffocation (confined spaces)	Noise
	Striking	Hot Surfaces	Vibration
	High Pressure Fluid	Manual Handling and/or Ergonomics	Rollover
Control Measures:	<ol style="list-style-type: none"> 1. Cylinder lock present to prevent accidental release of arms and attachment (engineering). 2. Dingo machine mass has been designed to have a low centre of gravity. A low centre of mass increases Dingo stability, and provides protection from rollover (engineering). 3. Dingo has a track of 1050mm wide for improved stability (Engineering). 4. Dingo Australia offer the following options available with the K9-3 purchase (engineering): <ol style="list-style-type: none"> a. Flashing light; b. Reversing alarm; c. Horn; and d. Headlights (front and rear) 		

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	5. Engine bay enclosed with simple access panel (engineering).
	6. Hydraulic oil within double braided hose rated for 4000 psi. Maximum pressure achieved by Dingo K9-3 is 3000 psi (engineering).
	7. Electrical cables enclosed and sealed within chassis (engineering).
	8. Rubber inserts on platform that improve operator comfort, provide additional grip and reduce plant vibration. (engineering / design).
	9. Simple linkage system reduces the need to handle attachments which can be fitted without or with reduced manual handling (engineering).
	10. Spark resistant plastic fuel tank (engineering).
	11. Body opens up to allow good access for maintenance purposes (engineering)
	12. Read Dingo 'Operation and Maintenance Manual' including warning "Do not carry a load or heavy attachment with the dingo arms in a raised position". Further, "Do not operate on or near embankments". "Do not operate on slopes exceeding 15 degrees". If a slope is greater than 5 degrees, only go up or down - not across (Administration).
	13. Operation and maintenance manual has warnings outlining operator's responsibility to operate away from pedestrians and establish appropriate isolation measures (Administration).
	14. Warning signage in vicinity of shearing point present (arms of dingo when lowered) (administration).
	15. Operational Manual and safety video provided with all purchases. Training is also provided to all purchasers of plant. Operator's manual details safe operation of K9-3. Safety cards are with the machine and provided to all personnel who hire the Dingo (administration).
	16. Safety decals located on plant. Please ensure all signs are read and understood (admin).
	17. Re-fueling procedures and maintenance requirements contained within the operation and maintenance manual (administration).
	18. Catalytic converters are available as an option should the Dingo Mini Loader be required within a confined space environment. Dingo 'Operation and Maintenance Manual' has safety warning informing of the risks of Carbon Monoxide poisoning when operating indoors or within a confined space (administration).
	19. Noise level readings undertaken in July 2005 in accordance with AS 2012.1. Average noise readings 84.4.
Residual Risk:	MEDIUM