

Queensland 4207 **Company ABN:** 86010443875



| Plant/Task/Layout: | Unique Code: | que Code: | | | | | | |
|--------------------|---|-----------------------|--|--|--|--|--|--|
| Trencher series | ncher Bigfoot V2 | | | | | | | |
| | Digga trencher is a high performance attachment fitted with a Digga planetary gearbox, that is designed for trenching. The trenchers covered in this assessment include; Bigfoot, Bigfoot XD, Bigfoot XD/ HF, Hydrive, Hydrive XD | | | | | | | |
| Department: | Location/Project: | Area: | | | | | | |
| Admin QLD | Head Office | Trenches | | | | | | |
| Process: | Risk Assessment Completed By: | Risk Assessment Date: | | | | | | |
| Plant & Equipment | Ryan Bowen | 26/09/2019 | | | | | | |
| Documents: | | - | | | | | | |

Hazards with Added Risks

| Item | Risk Description | Initial Risk | Control(s) | Reviewer | Review Date | Residual Risk |
|---|--|-------------------------|--|----------------------|--------------------------|--------------------------|
| Abnormal Situation | | | | | | |
| Could any foreseeable abnormal conditions, misuse or fluctuations in operation conditions create potential hazards? (State nature of hazards) | Potential for chain to snap in extreme circumstances if the operator was to misuse the trencher outside of the plants capabilities | 9 (Medium) 36.00% | Administration: Owner / operators to follow all safe operator instructions specified in the manual and not work outside of the manufacturers recommendations | Steven McGuinness | 25/09/2023 | 6 (Low) 24.00% |
| Could any foreseeable abnormal conditions, misuse or fluctuations in operation conditions create potential hazards? (State nature of hazards) | Potential for chain to snap in extreme circumstances if the operator was to misuse the trencher outside of the plants capabilities | 9 (Medium) 36.00% | | Anthony | 23/09/2023 23/09/2023 | 6 (LOW) 24 00% |
| Condition | | | hydraulic) speeds to ensure optimum performance and how to reduce wear and tear | wieckmann | | |
| | Potential of hazards relating to the age of the plant and the | 13 | Operator manual identifies when replacement parts (teeth) should be replaced and what to look for in worn parts. It describes different types of digging conditions and how they wear. | Anthony Wieckmann | 23/09/2023 | 9 |
| | condition of the wear parts if not treated as per manufacturers recommendations or if not serviced regularly | (Medium 52.00% | Detailed maintenance requirements identified in the operator manual (Section 9) describes how to seals, oil change schedules, sprocket replacement, hydraulic hose connection, boom adjustment and chain fitting and adjustment | Anthony Wieckmann | 23/09/2023 | (Medium) 36.00% |
| Crushing/Trapping | | | | | | |
| Can anyone be crushed/trapped due to | | | | | | |
| | Persons could become trapped or crushed by machine if | | Dependant on host machine - but operator has control of the trencher chain movement when digging and can stop movement to the chain by shutting off hydraulic oil flow which would stop chain moving if people came into work zone | Anthony Wieckmann | 23/09/2023 | 9 |
| Uncontrolled/unexpected movement of plant/load? | uncontrolled movement of plant and load or if standing too close to moving parts when being operated | | Labels or decals are located on the trencher to remind operators to keep bystanders away from work zones | Anthony Wieckmann | 23/09/2023 | (Medium) 36.00% |
| | | | Operator manual describes safe distance for bystanders - All bystanders should be kept a minimum of 20 feet (6 meters) away from the working area of the drive. | Anthony Wieckmann | 23/09/2023 | , |
| Lack of capacity to slow, stop or immobilise plant? | Bystanders or operator could become trapped and not be in a position to slow, stop or immobilize the plant if they leave the operation cab/ operation platform or control location of the trencher to fix or remove debris from moving parts | 18 (High) 72.00% | | | 23/09/2023 | 10 (Medium) 40.00% |

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Digga Australia Pty Ltd

23/09/2023

Kanga Loaders - A fully owned subsidiary of Digga Australia PTY LTD

Anthony

Wieckmann

4 Octal Street, Yatala

| <u> </u> | | | | Company | Queensla ABN: 86010 | |
|------------------------------------|---|----------|--|----------------------|------------------------|-------------------|
| The plant tipping or rolling over? | Persons could become crushed or trapped due to trencher tipping over if not attached to plant when being/ loaded or not | (Medium) | | Anthony Wieckmann | 23/09/2023 | 6 (Low) 24.00% |
| | in use on plant and equipment | | Operator manual recommends attachments are well secured when being moved or in transit and furthermore prior to moving, storing, loading/unloading or parking it is suggested that the attachment is strapped/secured to a pallet or enclosed in a suitable container to minimise any movement or loss of the load during such activity. | Anthony Wieckmann | 23/09/2023 | |
| | | | Verify that all tie down accessories (chains, slings, ropes, shackles and etc.) are capable of maintaining attachment stability during transporting and are attached in such a way to prevent unintended disengagement or shifting of the unit | Anthony Wieckmann | 23/09/2023 | |

Cutting, Stabbing, Striking, Puncturing, Abrasion and Tearing

| Can anyone be cut, stabbed or punctured due to | | | | | | | | |
|--|--|--------|--|---------------------|------------|---------|--|--|
| | Operators or bystanders could come into contact with flying or sharp objects during operation especially if use in using high | 13 | Administration: Do not allow Site workers to climb or ride on Trencher at any time, including while stationary, in operation or being moved. | Steven McGuinnes | | 6 (Low) | | |
| | hydraulic flow to move the trencher blade | 52.00% | | Steven | 07/10/2023 | 24.00% | | |

| | | hydraulic flow to move the trencher blade | | Administration: All bystanders should be kept a minimum of 20 feet (6 meters) away from the working area of the drive | Steven McGuinness | 07/10/2023 | 24.00% | | | | | | | | | | |
|----------------------------------|--|---|---|---|----------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|----------------------|
| | Contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair? Operators could be cut, stabbed or punctured by sharp objects on the trencher chain during testing, inspection, maintenance, cleaning or repair | | | Never adjust a relief valve for pressure higher than recommended by the machine's manufacturer | Steven McGuinness | 07/10/2023 | | | | | | | | | | | |
| _ | | 13 (Medium) | Before performing maintenance, lower the attachment to the ground, apply the parking brakes, turn off the engine, and remove the key. | Steven McGuinness | 07/10/2023 | 0 | | | | | | | | | | | |
| te | | | (Medium) | (Medium) | (Medium) | | (Medium) | The trencher must be stopped before making adjustments to the attachment | Steven McGuinness |
| maintenance, cleaning of repair: | maintenance, eleaning of Tepan | | Spoil augers shall be cleaned only when the rotating mechanism is in neutral and the spoil auger stopped; a long-handled shovel shall be used to move cuttings from the auger. Materials heavier than 10kgs must be moved mechanically or by using at least two people. | | 07/10/2023 | | | | | | | | | | | | |

Electricity

Can anyone be injured by electrical shock or burnt due to

| earrany one be injured by electrical silve | in any one be injured by electrical shock of barne and to | | | | | | |
|--|---|-----------|---|----------------------|------------|--------------------------|--|
| Working in close proximity to electrical | Operators could receive electrical shock or be burnt if working close to live electrical conductors or if they come int contact with live electrical cables when digging. | 18 (High) | Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call DIAL BEFORE YOU DIG ON 1100 (in Australia), or your local UTILITIES location service provider for location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter. | Steven McGuinness | 07/09/2023 | 9 (Medium) 36.00% | |
| Entanglement | | | | | | | |
| materials become entangled with | Anyones hair, clothing gloves, cleaning items could become entangled with moving parts when cleaning debris out of the Trenchers moving parts (trencher chain or spoil auger) | 18 (High) | Spoil augers shall be cleaned only when the rotating mechanism is in neutral and the spoil auger stopped; a long-handled shovel shall be used to move cuttings from the auger. Materials heavier than 10kgs must be moved mechanically or by using at least two people. | | 07/10/2023 | 14 (Medium) 56.00% | |
| | | | Make certain that all parts meet the specifications for this product when installing or | Steven | 07/10/2023 | | |

Can other items become entangled in moving parts of the plant? (air hoses, power cables)

Hydraulic hoses not issued by manufacturer could become tangled in moving parts if the hydraulic hoses are too long and not product specific

replacing hydraulic hoses or fittings Before connecting or disconnecting hydraulic hoses, read your machine or power unit's operator's manual for detailed instructions on connecting and disconnecting 72.00% hydraulic attachments. Flow and pressure gauges, fittings, and hoses must have a continuous operating

pressure rating of at least 25% higher than highest pressures of the system

such a way to prevent unintended disengagement or shifting of the unit Before performing maintenance, lower the attachment to the ground, apply the

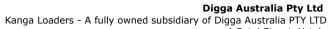
parking brakes, turn off the engine, and remove the key

McGuinness McGuinness 07/10/2023 (Medium) 56.00%

Steven

McGuinness 07/10/2023

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| Friction | | | | | |
|---|--|--------------------------|--|----------------------|-------------------------------|
| Can anyone be burnt due to contact with moving parts, materials or surfaces of the plant? | Operators could get burnt by the trencher blades after extended use | 13 (Medium) 52.00% | Operators to wear appropriate PPE controls when operating the loader and when using the trencher | Steven McGuinness | 07/10/2023 6 (Low) 24.00% |
| Guarding and Emergency Stops | | | | | |
| | Not all moving parts are guard on the trencher blade and the spoil auger as they are required to move when digging | 13 (Medium) 52.00% | Spoil augers shall be cleaned only when the rotating mechanism is in neutral and the spoil auger stopped; a long-handled shovel shall be used to move cuttings from the auger. Materials heavier than 10kgs must be moved mechanically or by using at least two people. | Steven McGuinness | 07/10/2023 6 (Low) 24.00% |
| Lighting | | | | | |
| Is lighting adequate for normal operation, cleaning and maintenance? | Potential hazard due to low visibility of the working area and surroundings. | 8 (Medium) 32.00% | Ensure working during daylight hours or provide with adequate artificial lighting. | | 01/02/2026 3 (Low) 12.00% |
| Manual Handling | | | | | |
| | | | The special control of | Steven McGuinness | 07/10/2023 |
| Does the task involve sudden jerky, rapid or unexpected movements? Depending on the host machine, operators could receive sudden jerky movements or unexpectant movements due the type of the terrain being dug to make the trench | sudden jerky movements or unexpectant movements due to | 13 (Medium) 52.00% | out optimum operation of trencher | McGuinness | 07/09/2023 6 (Low) 24.00% |
| | | | Operator can change speed of the chain cutting the ground which can reduce rotation - this will reduce jerky movements | Steven McGuinness | 07/10/2023 |
| Noise | | | | | |
| Can anyone using the plant, or in the vic | , | | | | |
| Exposure to noise levels exceeding the maximum daily dose level? (85 dB(A) | Depending on the host machine, noise levels might exceed 85dB(A) at the working station. Noise might hinder communication and prevent operators and adjacent workers | 8 (Medium) | Keep a minimum of 6 meters (20 ft) clear around the working area. Ensure that the operator have clear visibility of the working area and surroundings. | | 01/02/2026 6 (Low) 24.00% |
| per 8hr day) | from hearing warning signals. | 32.00% | Use of adequate PPE | | 01/02/2026 |
| Other | | | | | |
| Can anyone be injured or suffer ill-health | h from exposure to | | | | |
| Dusts? | Potential for trencher to create dust if digging in dry conditions or areas where dust could become and issue | 13 (Medium) 52.00% | It is recommended to use dust suppression, dust collection and if necessary personal protective equipment during the operation of any attachment that may cause high levels of dust. Water spray is ideal if a mechanical process is not achievable | Anthony Wieckmann | 23/09/2023 (Medium) 36.00% |
| PPE | | | | | |
| | | 9 | Loose fitting clothing, long hair, jewellery and equipment which might become entangled in moving equipment are prohibited while working near the Trencher. | Steven McGuinness | 07/10/2023 |
| Is PPE required to operate this item? | Operators could be injured if not wearing appropriate PPE when operating the trencher | (Medium) 36.00% | Operators, helpers, and other personnel working near Trencher must wear steel-toe safety shoes, safety glasses, and hard hats (recommended) as a minimum. Hearing protection, respirators, and personnel protective clothing will be specified in the site-specific Health and Safety Plan | Steven McGuinness | 07/10/2023 6 (Low) 24.00% |
| Pressurised Content | | | | | |
| Can anyone come into contact with fluids or gas under high pressure, due to plant failure or misuse of the plant? | Operators could come into contact with hot fluids under pressure when changing or removing/ replacing hydraulic hoses or coupler's during and after operation | 13 (Medium) 52.00% | Always wear safety goggles or glasses when inspecting equipment | Steven McGuinness | 07/10/2023 (Medium) 36.00% |
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| DIGGA |
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|-------|

| Shearing | | | | | | |
|--|--|--------|--|----------------------|------------|--------------------|
| | Operators could become injured (sheared body parts between | 13 | Operate only from the operator's station. | Steven McGuinness | 07/10/2023 | 9 |
| a part of the plant and a work piece or structure? | plant or structure) if not following specified operator instructions | 52.00% | holes. A slight movement of the newer unit and this product could cause serious | Steven McGuinness | 07/10/2023 | (Medium) 36.00% |
| Slips/Trips/Falls | | | | | | |
| Can anyone using the plant, or in the vice | cinity of the plant, slip, trip or fall due to | | | | | |
| Uneven or slippery surfaces? | Operators or bystanders could slip trip of fall into a dug trench or on the spoil dug from the trench. | | A trench that is left for prolonged periods of time must be capped and flagged so it is clearly identified on the work site. | Steven McGuinness | 07/10/2023 | 6 (Low) 24.00% |
| | of off the spoil day from the trench. | 36.00% | is clearly identified on the work site. | i-icouiiiiess | 1 | |
| Systems of Work | or on the spon dug from the trench. | 36.00% | is clearly identified off the work site. | Picodiffices | | |

Hazards Deemed Not Applicable

| Item |
|---|
| Entanglement |
| • Other factors |
| Crushing/Trapping |
| Can anyone be crushed/trapped due to |
| Material falling off the plant? |
| • Parts of the plant collapsing? |
| Contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair? |
| Being thrown off or under the plant? |
| • Other? |
| Being trapped between the plant and other structures? |







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| Cutting, Stabbing, Striking, Puncturing, Abrasion and Tearing |
|--|
| Can anyone be cut, stabbed or punctured due to |
| Work pieces being ejected? |
| • The mobility of the plant? |
| Uncontrolled or unexpected movement of the plant? |
| • Other? |
| Electricity |
| Can anyone be injured by electrical shock or burnt due to |
| • Live electrical conductors? |
| Overload of electrical circuits? |
| Damaged or poorly maintained electrical leads, cables or switches? |
| Water near electrical equipment? |
| • Lack of isolation procedures? |
| • Other? |
| Noise |
| Can anyone using the plant, or in the vicinity of the plant suffer injury due to |
| • Excursions above 140 dB(A)? |
| Radiation |
| |

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| Company ABN: 86010443 | 3875 |
|--|------|
| • Can anyone using the plant, or in the vicinity of the plant suffer injury or illness due to exposure to radiation? (Consider all types of radiation, X-rays, Gamma rays, Microwaves, UV, IR, Lasers) | |
| ibration | |
| • Can anyone be injured or suffer ill health from exposure to vibration? | |
| ire and Explosion | |
| • Can anyone be injured by fire? | |
| • Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances? | |
| emperature | |
| • Can anyone come into contact with objects at high or low temperatures? | |
| • Other? | |
| uffocation | |
| • Can anyone be suffocated due to lack of oxygen, or Atmospheric contamination? | |
| PE | |
| • Is appropriate PPE signage displayed on this item? | |
| • Other? | |
| lips/Trips/Falls | |
| 'an anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to | |
| • Poor housekeeping, eg. swarf or spillage in the vicinity? | |
| rgonomics | |
| 'an anyone be injured due to | |
| • Poorly designed seating? | |



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| • | Repetitive body movement? |
|---|---------------------------|

• Constrained body posture or movement or maintaining the same posture for prolonged periods?

• Other?

Manual Handling

- Do the actions and postures involve reaching upwards or handling loads above shoulder height?
- Do the actions and postures involve holding loads away from the body?
- Do the actions and postures involve twisting the back, neck or upper body?
- Do the actions and postures involve sideways bending or loading handling on one side?
- Does the task involve long carrying distances?
- Are the forces and loads handled bulky, large or awkward?
- Are the loads handled difficult or uncomfortable to grasp or hold?
- Are the loads handled unstable, unbalanced or unpredictable?
- Does the task require strenuous pushing or pulling?

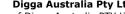
Guarding and Emergency Stops

• Are emergency stops clearly marked and operational?

Location

• Does the plant impact on the surrounding workplace and Create potential hazards? (Consider potential impact on the design and layout of the workplace)







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| • Is the location of the plant appropriate? (Consider potential affects due to the environmental conditions and terrain) | | | |
|--|--|--|--|
| • Other? | | | |
| Abnormal Situation | | | |
| Are there any Intermittent conditions which causes an employee to take out of the ordinary action? | | | |
| • Other? | | | |
| Systems of Work | | | |
| Could work systems/processes associated with the plant create potential hazards? (list hazards) | | | |
| Have adequate arrangements been made for safe access and egress from the plant? | | | |
| Are operator controls located appropriately and clearly labelled? | | | |
| Other | | | |
| Can anyone be injured or suffer ill-health from exposure to | | | |
| • Chemicals? | | | |
| • Toxic gasses or vapours? | | | |
| • Fumes? | | | |
| • Oils? | | | |
| • Other? | | | |
| Falls from Heights | | | |
| | | | |







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| | Company ABN: 86010443875 |
|---|---------------------------------|
| Can anyone fall from a height due to | |
| • Lack of proper work platforms, stairs or ladders? | |
| • Lack of guardrails 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? | |
| | |

• Other?