



DHS9-5 HYDRAULIC POST HOLE DIGGER

HAZARD EVALUATION



| QUESTION? CAN A PERSON BE INJURED? | HAZARD Y OR N? | What is the Hazard? | HAZARD RATING No. | If Rating No. is 15 or less What is the CONTROL? |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|-------------------|-------------------------------------------------------------------------------------------------------|
| A. ENTANGLEMENT 1. Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags, or other materials become entangled with moving parts of the plant, or materials in motion? | Y | Auger is exposed in operations | 23 | Wear proper clothing, inspect area and do proper housecleaning. Operator Presence Control is present. |
| B. CRUSHING 1. Can anyone be crushed due to | | | | |
| a. Material falling off the plant? | N | | | |
| b. Uncontrolled or unexpected moving of the plant or its load? | N | | | |
| c. Lack of capacity for the plant to be slowed, stopped or immobilised? | N | | | |
| d. The plant tipping or rolling over? | Y | Use on extreme angle | 25 | Do not exceed 15° angle of bank |
| e. Part of the plant collapsing? | Y | Holding pins removed or break | 20 | Check pins before use |
| f. Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair? | Y | Auger connected | 23 | Proper use puts Operator in safety zone. |
| g. Being thrown off or under the plant? | N | | | |
| h. Being trapped between the plant and material or fixed structures? | N | | | |
| i. Other factors not mentioned? (<i>Spectators must be kept away</i>) | | | | |
| C. CUTTING, STABBING & PUNCTURING? 1. Can anyone be cut, stabbed or punctured due to | | | | |
| a. Coming in contact with sharp or flying objects? | N | | | |
| b. Coming in contact with moving parts of the plant during testing, inspection, operations, maintenance, cleaning or repair of the plant? | Y | Auger connected | 23 | Proper use puts Operator in safety zone. |
| c. The plant, parts of the plant or work pieces disintegrating? | N | | | |
| d. Work pieces being ejected? | N | | | |
| e. The mobility of the plant? | N | | | |
| f. Uncontrolled or unexpected movement of the plant? | N | | | |
| g. Other factors not mentioned? (<i>Spectators must be kept away</i>) | | | | |
| D. SHEARING 1. Can anyone's body parts be sheared between two parts of the plant, or material handled by the plant? | N | | | |
| E. FRICTION 1. Can anyone be burnt due to contact with moving parts or surfaces of the plant, or between a part of the plant and a work piece or structure? | Y | Engine Muffler Hot surface | 23 | Knowledge of Hot Surface |
| F. STRIKING 1. Can anyone be struck by moving objects due to : | | | | |
| a. Uncontrolled or unexpected movement of the plant? | N | | | |
| b. The plant, parts of the plant or work pieces disintegrating? | Y | Machine Failure | 25 | Machine Stop use Operator Presence Control. |
| c. Work pieces being ejected? | N | | | |

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| d. The mobility of the plant? | N | | | |
| e. Other factors not mentioned (<i>Spectators must be kept away</i>) | | | | |
| G. HIGH PRESSURE SUBSTANCES 1. Can anyone come into contact with substances under high pressure, due to plant failure or misuse of the plant? | Y | Underground water pipes, gas pipe | 20 | Call Utility (Telecom) etc Mark Digging Area |
| H. ELECTRICAL 1. Can anyone be injured by electrical shock or burnt due to: | | | | |
| a. The plant contacting live electrical conductors? | Y | Grounding | 21 | Operator Presence Control Wear proper boots Inspection of area |
| b. The plant working in close proximity to electrical conductors? | N | | | |
| c. Overload of electrical circuits? | N | | | |
| d. Damaged or poorly maintained electrical leads and cables? | N | | | |
| e. Damaged electrical switches? | N | | | |
| f. Water near electrical equipment? | N | | | |
| g. Lack of isolation procedures? | N | | | |
| h. Other factors not mentioned? | | | | |
| I. EXPLOSION 1. Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant? | N | | | |
| J. SLIPPING, TRIPPING & FALLINGS 1. Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to | | | | |
| a. Uneven or slippery work surfaces? | Y | Separation of Plant and Operator | 25 | Operator Presence Control Adaptation of Machine |
| b. Poor housekeeping, eg swarf in the vicinity or the plant spillage not cleaned up? | Y | Restricts use of plant | 25 | Operator Presence Control Common Sense |
| c. Obstacles being placed in the vicinity of the plant, other factors not mentioned? | Y | Underground Area | 25 | Operator Presence Control Common Sense |
| 2. Can anyone fall from a height due to: | | | | |
| a. Lack of proper work platform? | N | | | |
| b. Lack of proper stairs or ladders? | N | | | |
| c. Lack of guardrails or other suitable edge protection? | N | | | |
| d. Unprotected holes, penetrations or gaps? | Y | Unprotected hole up to 14" | 21 | Knowledge of where hole dug is marked. Refill hole as used. |
| e. Poor floor or walking surfaces, such as the lack of slip-resistant surface? | N | | | |
| f. Steep walking surfaces? | N | | | |
| g. Collapse of supporting structure? | N | | | |
| h. Other factors not mentioned? | | | | |
| K. ERGONOMIC 1. Can anyone be injured due to: | | | | |
| a. Poorly designated seating? | N | | | |
| b. Repetitive body movement? | N | | | |

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| c. Constrained body posture or the need for excessive effort? | Y | Hard area to dig | 21 | Operator Presence Control Digging holes is slow |
| d. Inadequate or poorly placed lighting? | N | | | |
| e. Lack of consideration given to human error or human behaviour? | Y | Unknown, or unreported | 24 | Operator Presence Control Common Sense |
| f. Mismatch of the plan with human traits and natural limitations? | Y | Human possibilities verses probabilities | 24 | Operator Presence Control Common Sense |
| g. Other factors not mentioned: | | | | |
| L. SUFFOCATION 1. Can anyone be suffocated due to lack of oxygen, or atmospheric contamination? | N | | | |
| M. HIGH TEMPERATURE OR FIRE 1. Can anyone come into contact with objects at high temperature? | Y | Engine Exhaust | 20 | Knowledge of Hot Surfaces, Guarding by location |
| N. OTHER HAZARDS 1. Can anyone be injured or suffer ill health from exposure to: | | | | |
| a. Chemicals? | N | | | |
| b. Toxic gases or vapours? | N | | | |
| c. Fumes? | N | | | |
| d. Dust? | N | | | |
| e. Noise? | N | | | |
| f. Vibration? | N | | | |
| g. Radiation? | N | | | |
| h. Other factors not mentioned? | | | | |

CALCULATION FOR RISK ASSESSMENT

For each identified hazard consider the maximum credible, not absolute worst case risk that may result and select from each of the following Lists

| | Likelihood of Occurrence |
|---|--------------------------|
| 1 | Expected to Happen |
| 2 | Common |
| 3 | Sometimes |
| 4 | Rarely |
| 5 | Highly unlikely |

| | Severity of Result |
|---|----------------------|
| A | Fatality |
| B | Permanent Disability |
| C | Lost Time Injury |
| D | Medical Treatment |
| E | First Aid Injury |

Plot the categories selected from 'Likelihood of Occurrence' and 'Severity of Result' onto the Hazard Rating Grid to determine the Hazard Rating Number.

eg. If we plot 4 and B on the Hazard Rating Grid, the Hazard Rating number will be 14.

HAZARD RATING GRID

| | A | B | C | D | E |
|---|----|----|----|----|----|
| 1 | 1 | 2 | 4 | 7 | 11 |
| 2 | 3 | 5 | 8 | 12 | 16 |
| 3 | 6 | 9 | 13 | 17 | 23 |
| 4 | 10 | 14 | 18 | 21 | 23 |
| 5 | 15 | 19 | 22 | 24 | 25 |

The Hazard Rating Number calculated for the risk assessment of an identified hazard is classified as follows:

- a) Relatively High Risk 1 to 6
- b) Medium Risk 7 to 15
- c) Relatively Low Risk 16 to 25 (acceptable risk)

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