

## Safe Work Instruction - Vehicle Mounted Crane

**DO NOT use this plant\* unless you have been inducted in its safe use and operation by an Authorised Experienced Operator**

This SWI may not cover all possible hazards and risks and should be referred to as a control measure in the risk assessment process. Additional training may be required for high risk plant. Site and task may change required PPE.

### PERSONAL PROTECTIVE EQUIPMENT



Head protection must be worn



High visibility clothing must worn



Foot protection must be worn



Safety harness must be worn



Hand protection must be worn

### POTENTIAL HAZARDS AND RISKS

- Entanglement**  
Entanglement in moving parts
- Shearing**  
Body parts sheared between items of plant
- Struck by Moving Object**  
Struck by moving object due to work pieces being ejected
- Crushing**  
Crushing due to material falling off plant  
Crushing due to plant tipping or rolling over
- Other**  
Injury due to fall from heights  
Injury due to plant malfunction or misuse  
Injury due to operating of plant in unsuitable weather conditions
- Slip, Trips, Falls**  
Slip, trip, fall due to uneven or slippery work surfaces
- Cutting, Stabbing or Puncturing**  
Injury from contact with moving parts
- Manual Task Injury**  
Manual task injury from incorrect manual handling techniques
- Electrical Shock or Burn**  
Electrical shock or burn from plant contact with live electrical conductors

### PRE-OPERATIONAL SAFETY CHECKS

- ✓ Complete site specific risk assessment
- ✓ Complete the appropriate pre-operational plant checklist/log book to determine if any defects have been reported and/or repairs carried out
- ✓ Ensure all slings and chains are in good condition and fitted with the current inspection tag
- ✓ Ensure you are familiar with plant operations and controls
- ✓ Ensure only operators who have a High Risk Work Licence are permitted to calculate or determine lifting slings/equipment required to lift/move loads

### OPERATING PROCEDURES

- ✓ Keep clear of moving plant parts
- ✓ Operate plant to the conditions of the work area
- ✓ Ensure no person or animal is endangered when operating plant. Ensure you have an appropriate exclusion zone in place
- ✓ Ensure crane is positioned and set up on stable ground, or use pig sty packing if necessary
- ✓ Crane is to be positioned as close as possible to the load to be lifted
- ✓ Where possible keep the load on the uphill side. Always apply the handbrake

- ✓ Set up crane for lifting, stabilisers fully extended, and switch on rotating light. The crane operator is in control during any operations
- ✓ The ignition key and the isolation switch (if electric powered crane) to the truck are to be removed and carried by the crane operator when he leaves the vehicle
- ✓ Crane operators must maintain a line of site with load at all times. If this is not possible, the person who guides the load must have a High Risk Work Licence and both must be familiar with hand signals and whistle
- ✓ Ensure you are aware of the location overhead powerlines, always operate within the prescribed safe working distances of overhead powerlines, use of a spotter if required
- ✓ Ensure that the load is slung in a way that it will not shift in the sling when lifted
- ✓ If load shifts, immediately lower load to ground and reposition slings to balance and secure load
- ✓ Make sure the extended boom and the load is within SWL limits of the crane by referring to the load chart on crane body BEFORE LIFTING THE LOAD
- ✓ Should the mass of the load be greater than the SWL of the crane and the truck cannot be moved closer to the load to reduce the boom length, the lift

should be abandoned and a crane with a greater lifting capacity obtained

- ✓ Ensure that when checking SWL on load chart the greater of the two distances, truck and loading point or truck and landing point, is used
- ✓ Be aware of changes in weather conditions that may affect plant operators safety
- ✓ Before making adjustments bring plant to a complete standstill and isolate

### **ENDING OPERATIONS**

- ✓ Allow plant to cool before performing any maintenance, refuelling or cleaning
- ✓ All equipment is to be correctly stowed in vehicle
- ✓ Any lifting attachments which have been used must be removed from the boom if necessary and securely attached to the correct position on the vehicle
- ✓ Ensure plant is in good working order and stored in the appropriate location

### **DO NOT**

- ✗ Do not use if plant is faulty. Attach a DO NOT OPERATE tag and report fault to your supervisor
- ✗ Do not leave plant running unattended
- ✗ Do not leave keys in machinery whilst unattended
- ✗ Do not lift more than rated capacity of plant
- ✗ Do not carry out any modifications on the cranes structure or mountings without reference to the crane manufacturer for the recommendation's for the modification, or Fleet management/engineer
- ✗ Do not walk under a suspended load or let anyone else do this
- ✗ Do not shift load with any worker attached to the crane, on the load or beneath the load
- ✗ Do not use the stabiliser legs to lift load
- ✗ Do not use the crane to drag the load across the ground
- ✗ Do not use mobile phone while operating plant

**\*Plant in this SWI refers to any machinery, equipment, appliance, container, implement and tool.**