



ENGINE CRANE

SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

PURPOSE

1. Engine cranes are designed to lift or lower heavy engines, flywheels etc. in and out of vehicles, plant etc. within the Safe Working Load (SWL) of the equipment.

PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. Before attempting to operate this equipment, you must have adequate instruction from a qualified person, then you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. When operating this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Safety boots to EN345 or BS1870/4972.
 - Appropriate industrial gloves.

Note: Other types of work, or environment, may require a higher level of PPE.

OPERATING AREA SAFETY

7. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
8. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes etc.) and that no one is close by that could distract you whilst operating the equipment.
9. Ensure the floor area is level and capable of taking the combined weight of both the crane and the load that is to be lifted/lowered.
10. Anybody who is working near to you will also need to wear the appropriate PPE.
11. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

12. Visually inspect the equipment and all its accessories (cables, ropes, chains, safety barriers, etc.) for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
13. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
14. Before you start the equipment, you must know how to **STOP** it in an emergency.

OPERATING THE EQUIPMENT

USING THE EQUIPMENT

15. Ensure the cranes extending feet are positioned underneath the vehicle/plant and therefore under the load to be lifted before operating the crane. If this is impractical, a dedicated counterweight must be fitted to the crane.
16. Operate the cranes controls with no load attached and check that the cranes boom raises and lowers in a controlled and smooth manner. Check for signs of hydraulic fluid leakage.
17. Ensure that the load to be lifted is safely slung (attached to designated lifting points) with serviceable chains, ropes, etc.
18. Ensure that all connections attached to the vehicle/plant (i.e. mounts, fuel lines, electrical connections, etc.) are fully disconnected and clear before attempting to lift the load.
19. Lifting the load must be done in a steady and controlled manner. Continually check for any missed disconnections.
20. Keep body parts and clothing clear of the load when operating the crane.
21. Be aware of people close to the crane when the crane is being operated.
22. When the load is clear of the vehicle/plant, carefully manoeuvre the crane, keeping the load as close to the ground as possible to prevent the load from swinging. Seek additional assistance as appropriate. Maintain control at all times.
23. Do not attempt to work under the load whilst it is suspended. Lower the load onto correct and safe supports (i.e. engine stand, trestles, etc.). Do not leave the load suspended longer than necessary, or unattended.

SECURITY & MAINTENANCE

24. Visually check the condition of the crane at the start of each day.
25. If the crane operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
26. Periodically clean the crane to ensure it is free from dust, dirt and other debris, check for any hydraulic fluid leaks.
27. Cranes that fold for transformation, or storage, can be 'locked' by inserting the locking pivot pin.
28. When the crane is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use.

COLLECTION & PICK-UP

29. For safety reasons this equipment requires you to use a **LORRY**.

