

Engine Crane

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet and any others issued before you use the Engine Crane

1. This engine crane generates enormous pressure inside the hydraulic ram.
2. The engine crane is designed to lift engines, flywheels and other heavy items in and out of awkward places.
3. The action of this engine crane can cause injury or damage if not used in a careful and controlled way.
4. If the operator has not used this type of equipment before they should familiarise themselves with how it works, and the hazards it presents, before starting work.
5. The work should be planned and thought out to make sure it will always be carried out safely.
6. The following items of personal protective equipment must be worn as a minimum: Safety boots to EN345 or BS1870/4972; Gloves.
7. This engine crane should not be used by minors, or by anyone under the influence of drugs or alcohol.
8. This engine crane is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



WORK AREA

1. Make sure that the work area is clear and safe and that no-one is nearby or could cause a distraction.
2. Protect other people from injury. Warn others to keep away.
3. Ensure the floor is level and strong enough to support the weight.

OPERATORS

1. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever this engine crane is used. Particular jobs or environments may require a higher level of protection.
2. Safety Boots must be worn (EN345 or BS1870/4972).
3. Anybody who is working nearby will also need to wear appropriate personal protective equipment.

v:032017



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ENGINE CRANE

1. Check the engine crane and all its equipment. If anything is found to be damaged, do not use the engine crane – contact the hire company.
2. Do not exceed the safe working load (SWL) marked on the crane.
3. Test the engine crane before using, by operating it with no load on. Ensure that the boom rises and lowers correctly and that there are no leaks.
4. This crane should be used with the extending feet under the load being lifted. For example, the feet of the engine crane should be pushed under the front of the car in order to lift the engine out.
5. If the extending feet cannot be positioned under the load, a special counter weighted crane can be hired – contact the hire company.
6. If the engine crane folds up for storage or transport, ensure the pivot pin used to lock the crane in its working position is inserted correctly.
7. Always attach the correct sling or tackle to attach the load to the hook. Do not use any sling or tackle that is damaged.
8. If the load being lifted has several connections, like a car engine with cables and fuel pipe, the load should be lifted 1 inch (3cm) at a time. Continuously check that anything that will prevent the load lifting out clear has been disconnected.
9. Always keep the load as close to the ground as possible.
10. Take care when transporting a load on the engine crane. Do not let it swing out of control.
11. Never work on or under a unit while it is suspended. Always lower it to the ground or on to supports as soon as possible.
12. Do not use bricks or blocks as supports, they may give way without warning. Use proper supports.
13. Before using the engine crane the operator must understand how it works. They must be aware of the potential hazards present and the precautions to take.

USING THE ENGINE CRANE

1. Safety boots and gloves must be worn.
2. The load must be checked and secure before lifting.
3. Suspended loads must not be left unattended.
4. The safe working load (SWL), marked on the engine crane must not be exceeded.
5. Hands must be kept clear while lifting or lowering – they could become trapped between the load and any projecting fixture.
6. Loads should not be left suspended needlessly. Lift it or lower it and off load it.
7. Work must be stopped if someone approaches.
8. If the equipment does not work properly, do not attempt to repair it. Contact the hire company.

Keep this leaflet in a safe place until work is finished as it may need to be referred to again.



Hire Association Europe
2450 Regents Court
The Crescent
Birmingham Business Park
Solihull B37 7YE

Telephone: 44 (0) 121 380 4600
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk