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VIBRATING ROLLER - (Diesel)

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. This equipment is designed to compact crushed hardcore, backfill, asphalt and other similar road surfacing materials.

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. This equipment is heavy. Enlist additional assistance to move it.
5. Vibration from this equipment may be at a level that could be hazardous to the user, if operated for extended periods. Always wear gloves and ensure hands are warm before starting work and they remain warm and dry. Do not grasp the equipment too tightly, only sufficiently to safely control the machine. If you experience tingling, numbness or loss of strength in the fingers – stop working immediately. Take frequent breaks and exercise the hands and arms to minimise risks.
6. This equipment employs the use of diesel, which can cause fire and explosion if not handled in a safe manner.
7. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
8. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
9. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Ear defenders giving protection for levels up to 98dB(A).
 - Safety waterproof boots to EN345 or BS1870/4972.
 - Impact resistant goggles to EN166-B or BS2092 protection.
 - Appropriate industrial gloves.

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

OPERATING AREA SAFETY

WARNING: If used indoors or in confined spaces this equipment could cause fatal carbon monoxide poisoning. Never use it in domestic premises and if used in other indoor situations you must ensure you first assess its suitability and the ventilation required for safe use. Mechanical extraction ventilation will be required in almost every case.

10. 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.

11. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
12. Never run the equipment inside buildings, or in poorly ventilated locations, where they may be risk of serious or fatal injury from inhaling exhaust (toxic) fumes. **See warning above.**
13. 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.
14. Take care not to damage cables and pipes that lay under the surface to be rolled.
15. Do not use this equipment on sloping ground or inclines if you consider that the equipment may be difficult to control.
16. Anybody who is working near to you will also need to wear the appropriate PPE.
17. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

18. Visually inspect the equipment and all its accessories (engine, roller, 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.
19. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
20. Stop the equipment before attempting to make any adjustments.
21. Before you start the equipment, you must know how to **STOP** it in an emergency.

OPERATING THE EQUIPMENT

USING THE EQUIPMENT

22. Adjust and secure the steering arm of the equipment correctly before use.
23. Retract any support jacks/legs before starting work.
24. Hold the steering arm securely with both hands when using the equipment.
25. The equipment becomes more manoeuvrable once the equipment is in motion.
26. This equipment is not to be used in the vibrating mode when on solid ground (i.e. concrete, paving blocks, frozen ground, etc.).
27. If the equipment has a water dampening system, ensure the water tank is topped-up before commencing work and periodically check the water level.
28. Ensure the route you are to take when working is clear and free of all obstructions.
29. The engine 'stop' switch is mounted on the engine unit (or the steering arm on some equipment). It may be labeled '**RUN/STOP**'.
30. The throttle lever is mounted on the steering arm and should be in the '**IDLE**' position when starting the equipment and the '**RUN**' position to drive the equipment backwards or forwards. On some machines the throttle controls the vibration action, on others there is either a third position; '**VIBRATION**' or a separate control device.

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31. Two levers on the steering arm control the forward and reverse movement of the equipment. The '**FORWARD**' lever moves the equipment forward and when released stops the movement. The '**REVERSE**' lever moves the equipment backwards.
32. Should an obstruction become jammed between the roller and the drum scraper, stop the equipment immediately and remove the object.

STARTING & STOPPING THE EQUIPMENT

Note: Below is a brief description of **STARTING** procedure for the majority of rollers. If the hire company has provided dedicated instructions for your type of machine – follow them.

ELECTRIC START

33. Ensure the hand brake has been fully applied; the gear lever is in '**NEUTRAL**' and that the '**STOP CONTROL**' knob is pushed fully home.
34. Rotate the ignition key part way to engage the '**COLD START**' device and hold it in that position for 20 seconds, then rotate the key further to start the equipment whilst keeping the throttle '**OPEN**'.
35. If the equipment fails to start after a few seconds, repeat the procedure at step 31 (above) again, maintaining the key at the '**COLD START**' position a few seconds longer.

Note: If the equipment has previously been running, there is no requirement to operate the '**COLD START**' device.

36. To stop the engine, pull out the '**STOP CONTROL**' knob, never use the '**DECOMPRESSION**' lever and remove the ignition key.

MANUAL START

37. Check for correct oil and fuel levels before attempting to start the equipment.
38. Move the '**STOP**' control to the '**RUN**' position.
39. Move the throttle lever to the '**IDLE**' position.
40. Fit the starting handle to the shaft, turn it anti-clockwise to engage the ratchet mechanism. Check also that the handle slides on and off the shaft easily.
41. Move the decompression valve lever into the '**DECOMPRESSION**' position.
42. If the equipment has been fitted with a '**COLD START**' button, press it in when starting from cold.
43. Grasp the starting handle firmly in one hand, but do not wrap your thumb around the handle, keep it in line and on the same side as your remaining fingers. Failure to do this, should the engine 'kick-back', may result in serious injury to your thumb.
44. Crank the engine vigorously before lowering the '**DECOMPRESSION**' lever smoothly. Should the engine fail to start, repeat steps 34 to 40.
45. Once the engine is running, slide the starting handle off the shaft.
46. Never stop the engine using the '**DECOMPRESSION**' lever. This may damage the engine and will be regarded as misuse by the hire company. Only use the proper '**RUN/STOP**' control to stop the engine.

REFUELLING

47. Refuel with diesel only.
48. Before refuelling, move the machine to a safe environment.
49. Stop the engine and allow it to cool down before refuelling.
50. Do not smoke whilst refueling, as diesel is inflammable.
51. Ensure the area around the filler cap is clean.
52. Use a clean funnel and clean diesel when refueling.
53. Be careful not spill any fuel on yourself or the machine. Should a spillage occur, wipe clean and dispose of all fuel soaked material carefully and safely.
54. Replace the fuel cap and secure correctly.

SECURITY AND MAINTENANCE

55. Visually check the condition of the equipment at the start of each day.
56. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
57. Periodically clean the equipment to ensure it is free from debris.
58. When the equipment is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.

COLLECTION & PICK-UP

59. For safety reasons this equipment requires you to use a **LORRY** or a **TOWING BAR**.

