



VIBRATING SHAFTS

OPERATING AND MAINTENANCE INSTRUCTIONS



ENA25/ENA38/ENA48/ENA58/ENA58-9/ENA58R/ENA70

TO PREVENT SERIOUS INJURY
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.

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Model No — ENA25/ENA38/ENA48/ENA58/ENA58-9/ENA58R/ENA70

Plant Name — Enar Vibrating Shafts

Manufacture — Enarco



INTRODUCTION

Thank you for trusting the ENAR brand. For the maximum performance of the equipment, we recommend you read carefully the safety recommendations, maintenance, and usage listed in this manual. Defective parts should be replaced immediately to avoid major problems. The effective longevity of the equipment will increase if the manual instructions are followed. We will be glad to help you with any comments or suggestions in reference to our equipment.

USAGE CONDITIONS

WARNING! Read and understand all instructions.

WORK AREA

KEEP your work area clean and well lit and free of hazards.

DO NOT OPERATE power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

KEEP bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

PERSONAL SAFETY

STAY ALERT, watch what you are doing and use common sense when operating a power tool.

DO NOT USE TOOL while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

DRESS PROPERLY.

DO NOT WEAR loose clothing or jewellery. CONTAIN long hair.

KEEP your hair, clothing, and gloves away from moving parts. Loose clothes, jewellery, or long hair can be caught in moving parts.

AVOID accidental starting.

REMOVE adjusting keys or switches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

DO NOT overreach.

KEEP proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

USE safety equipment.

Always WEAR eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

DO NOT FORCE tool.

USE the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

DO NOT USE tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

SERVICE

Tool service **MUST BE PERFORMED** only by qualified repair personnel. When servicing a tool, **USE** only identical replacement parts.

SPECIFIC SAFETY RULES

For the proper operation of the motor, **MAKE SURE** that operators have been instructed in the proper management of this machine.

AVOID flattening of the cable by heavy machinery which could cause breakage.

DO NOT CONNECT the flexible shaft to the motor when it is working.

DO NOT WORK with the plastic housing broken.

DO NOT PERMIT untrained personnel to operate the motor or connections. **MAINTAIN** free ventilation of air.

KEEP the motor in a clean and dry area.

BEFORE DOING any type of repair, **DISCONNECT** the motor from the drive unit.

WHEN FINISHING the job or when taking a break, the operator must disconnect it from the drive unit and have it placed in such a way that it is not a hazard

First read the instructions about the petrol motor.

For the proper use of this device, please make sure that the operator has been correctly informed of the content of this manual before using it.

This poker can be used only under the applications for which it has been designed and according to these safety instructions.

Do not over bend the flexible shaft.

Do not run the poker out of the concrete for more than 5 minutes.

If the poker doesn't vibrate correctly, knock the cap softly on the floor.

Do not allow inexperienced or untrained personnel to use the poker alone.

OPERATION AND MAINTENANCE

MOTOR CONNECTION TO FLEXIBLE SHAFT

The Vibrating shaft is designed to connect to the drive unit quickly and safely.

Connection procedure:

1. Connect the vibrating shaft to the 3 dog drive unit by inserting it into the housing and raising the lever until the shaft clicks in. Shaft is secured correctly when the lever returns to its original position.

INSPECTION

1. Before starting the work, check the correct working of all handling and safety devices.
2. Do not work in closed rooms. The exhaust fumes may be toxic. Check the petrol level. Check the oil level, it must be at the maximum level (See the instruction manual).
3. If defects are found in the safety devices or other defects which could reduce the safe handling of the equipment, stop working and do the maintenance.

RECOMMENDATIONS FOR USE OF CONCRETE VIBRATOR

1. Choose the type of vibrator suitable for the dimensions of the structure to vibrate, the distance among the reinforcement and the slump cone. It is recommended to have an additional concrete vibrator.
2. Before starting check that the concrete vibrator is in good use and it works correctly. Use the correct safety procedures and protective clothing.
3. Pour the concrete in the structure avoiding high heights. Try to pour the concrete level. The thickness of every layer should be less than 50 cm, it is recommended between 30 and 50 cm.
4. Introduce the vibrator vertically in the concrete mass without moving it horizontally. Do not use the vibrator to push the concrete horizontally. The concrete vibrator should be introduced into the mass at regular intervals. The interval should be from 8 to 10 times the diameter of the poker. To obtain an optimum compacting of the concrete, plunge it 10 cm into the precedent

layer to assure a good adherence. The time in vibrating the different layers should not be big to avoid cold joints. Do not push or force the vibrator into the mass, it could be stuck in the reinforcements.

5. The time of vibration in each point depends on the type of concrete, the size of the vibrator and other factors. This time can be from 5 to 15 seconds after the immersion in each point. The time is shorter for a fluid mass, vibrating in excess can produce segregation. The concrete is considered to be well vibrated when the surface around the poker is shiny and compact and there are no more air bubbles. Also a change in the noise of the vibrator is produced.
6. Do not push or force the vibrator against the reinforcement. Keep a distance of 7cm minimum from the walls.
7. Always remove the poker vertically with movements upwards and downwards so the concrete fills the empty space again. Do not switch off until you stop the vibration completely. The speed of removing is approximately 8 cm per second, when the vibrator is nearly out extract quickly to avoid shaking the surface.
8. Do not keep the concrete vibrator out of the concrete during long periods. If you do not continue vibrating stop it.
9. The concrete has to be carefully prepared to get the best effects of the vibration in terms of consistency and resistance.