

# **BGA 25/35/45/55/68**

## **FLEXIBLE SHAFT VIBRATING POKER**

PSM012

### **Safety Rules**

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the Poker, consult your supervisor or Belle Group.

**CAUTION!!** Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

- Firstly read the instruction of the power unit, to which you are going to connect the vibrating pokers.
- Cordon off the work area and keep members of the public and unauthorised personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used (see section below).
- Always switch **OFF** and disconnect the drive unit before transporting, moving it around the site or servicing it.
- Never remove or tamper with any seals or covers fitted, they are there for your protection. Always check covers for condition and security, if any are damaged or missing, **DO NOT USE THE POKER** until it has been replaced or repaired.
- When the poker is left running out of concrete the poker head becomes extremely hot. Caution must be exercised when touching the poker head. The poker should never be left running out of concrete as it will damage the internal parts.
- Do not operate the Poker when you are ill, feeling tired, or when under the influence of alcohol or drugs.

### **VIBRATION**

Some vibration from the Poker is transmitted through the flexible shaft to the operator's hands. Operational exposure time may need limiting.

### **PPE (PERSONAL PROTECTIVE EQUIPMENT).**

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear. Wear clothing suitable for the work you are doing. Always protect skin from contact with concrete.

### **Pre-start Checks**

#### **PRE-USE INSPECTION**

The following Pre-use inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the poker must not be used until the fault is rectified.

1. Thoroughly inspect the poker for signs of damage. Check components are present and secure.
2. Check the flexible shaft for signs of damage.

**CAUTION!!** The maximum speed for the flexible shaft poker is 2800 rpm. If the poker is used above this speed, then it will cause damage to the poker and will invalidate the Belle Group Warranty.

### **Operating Instructions**

#### **CONNECTION PROCEDURE**

Before connecting the poker to the power unit, You must lay the poker out to its full length.

**CAUTION!! DO NOT** connect the poker to the power unit whilst the power unit is operating. This will cause the inner core to snap thus causing extensive internal damage.

1. To assemble the flexible drive to the power unit, raise the plunger knob on the flange and insert the flexible drive end piece connector.
2. On releasing the knob the plunger should locate in the end piece connector.
3. If the plunger fails to locate, rotate the engine crank shaft with the rope start or handle and push the end piece in.

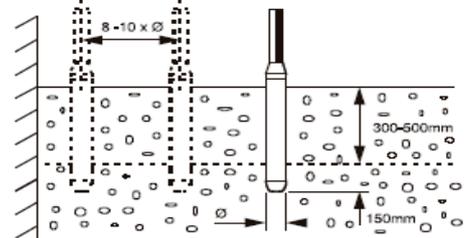


#### **RECOMMENDATIONS FOR USE OF CONCRETE VIBRATOR**

1. Choose the right size of poker for: the size of the job, the spacing of reinforcement, slump of the concrete and the mix design.
2. It is recommended to have an additional concrete vibrator available.
3. Pour the concrete evenly, into the form work, in 300-500 mm thick layers. Do not use the poker vibrator to spread the concrete. The operating hose should not be kinked or bent tightly, since this will increase wear.
4. Vibrate the concrete systematically. Make 300-500 mm vertical insertions at intervals of 8-10 times the tube diameter. Where possible, push the poker vibrator about 150 mm into the previous layer of the concrete, this will help obtain the best bonding between the two layers.
5. The concrete has been thoroughly vibrated when the surface around the poker is shiny and no large air bubbles rise to the surface of the concrete. This normally takes 10-20 seconds at each location of the poker.
6. Withdraw the poker slowly so that the concrete can flow into the void left by the poker.
7. Do not push or force the vibrator against the reinforcement. Keep a distance of 70 mm minimum from the walls.
7. Always remove the poker vertically, so the concrete fills the empty space again.

Do not switch off until the poker is withdrawn completely. The speed of removal is approximately 8 cm per second. When the vibrator is almost out, extract quickly to avoid shaking the surface.

**CAUTION!! DO NOT** keep the concrete vibrator out of the concrete for long periods. If you have stopped vibrating the concrete, turn the poker off.



### **Storage**

When it is not used for long periods of time, Store the poker in a clean, dry and protected environment.

### **Transportation**

When transporting, ensure the poker is safe against damage occurring as a result of slipping, overturning and sudden impact.

### **Troubleshooting Guide**

<b>Problem</b>	<b>Cause</b>	<b>Remedy</b>
Poker Not Vibrating	Core broken	Replace, ensuring that it is adequately greased
	Oil seal broken	Replace
	Bearing damaged / Broken	Replace
	Pendulum damaged / Broken	Replace