



# Operating Manual

## VPI 80



Before putting into operation, make sure that the equipment does not show any signs of exterior damage.

Connect the **VPI 80** to a suitable 42v - 48v or 110v [250v] / 200 Hz frequency converter. The CEE-type plug connector fits most commercially available transformers.

**Caution:** Converters with output voltages different from those allowed for the equipment can lead to the destruction of the equipment or considerably impair its performance.

**For model with hand switch:**

Immerse the vibratory poker completely in the concrete and operate hand switch. As soon as the desired compatibility is reached, withdraw equipment and switch off.

**For model with automatic switch:**

Immerse the vibratory poker completely in the concrete. As soon as an angle of inclination of about 30° is reached, the automatic switch installed in the connection hose (at approx. 60 cm above the connection) is triggered. As soon as the desired compatibility is reached, withdraw equipment again and put that section of the hose that contains the switch in a horizontal position (for example by laying it on the ground) to cut off the vibrator.

**To ensure proper cooling, all poker heads should be completely immersed in the concrete.** Where this doesn't happen, it increases the risk of the integrated thermo - switch automatically cutting down the equipment to protect it from overheating. If this should happen, please allow time for the equipment to cool down before restarting. Immersing in a bucket of cold water would speed up this process.

**Danger: HEALTH HAZARD Do not handle or touch vibrating part during operation**

**Dismantling.** The replacement of defective components as well as any subsequent assembly must be carried out by skilled technicians. **Always disconnect equipment from power supply.**

*Only if rubber nosepiece requires replacement, release locking weld points between rubber nosepiece (11), nosepiece adaptor (12). This thread has been assembled using 'Loctite' or similar thread sealant. To release, heat the area, to a temperature of 100° C –120° C, at the threaded point and unscrew nosepiece by using a pipe wrench (right-hand thread).*

To open vibratory poker, clamp the stator [5] firmly in a pipe vice, release locking weld points between nosepiece adaptor (12) or steel nosepiece (10) and the stator (5). This thread has been assembled using 'Loctite' or similar thread sealant. To release, heat the area, to a temperature of 100° C –120° C, at the threaded point and unscrew nosepiece by using a pipe wrench (right-hand thread).

By applying axial blows to the rotor with suitable mallet or piece of wood, entice the bearing (3) and rotor out of stator. Remove other bearing (3) from vibrator housing (12) with an internal puller.

To continue dismantling rotor, draw off inner raceways (4) and eccentric weight (2).

Screw an M10 studding into extraction nut (9) and pull needle bearing (7).

The assembly must be carried out in reverse order. The needle bearing (7) must be pre-lubricated.

**When re-assembling, threads must be treated with 'Loctite' or similar thread sealant.**

**If possible re-weld locking points.**

**Lubrication:** The VPI 80 is oil-lubricated. Quantity 20 cm<sup>3</sup>

### Technical Data:

	<b>VPI 80</b>
Diameter	80mm
Length head	445 mm
Weight ( head only)	13.6 kgs
Input (voltage)	42- 48v / 200 Hz
Output (power)	4 kVA
Speed	12.000 RPM
Compaction rate	60 m <sup>3</sup> /h
Length /rubber hose	5m
Length /supply cable	10m

