

Before putting into operation, make sure that the equipment does not show any signs of exterior damage. Connect the VPI 30 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.

For model VPK 30 with integral Inverter Control:

Connect the VPK 30 to a suitable 110v 1ph 50Hz supply. The CEE-type plug is standard for 110v connection.

The VPK 30 is fitted with a special version of the VPI 30 using a different stator, otherwise mechanically its the same and therefore can be serviced as described below.

**The Inverter Control is a sealed unit and no servicing is necessary or possible.**

**NOTE: If the VPK range is being run off a generator the generator must be a regulated type. The electronics of the VPK switch box will only accept +/- 10% voltage variation. Spikes of over 150 volts will damage the switch box. Impact sensitive electronics are used in the switch box. Impacts over 100m/s<sup>2</sup> may damage the unit.**

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.**

To dismantle the poker, clamp the stator body [9] firmly in a pipe vice. Release locking weld points between the steel nose piece [14] from the stator [9]. This thread has been assembled using 'Loctite' or similar thread sealant. To release, heat the area, to a temperature of 100oC –120oC, at the threaded point and unscrew steel head by using a pipe wrench (right-hand thread). After separation of the two parts, the rotor is secured inside the steel head. Pull out needle bearing [6] by using a suitable internal pull-out tool. Screw a M 8 threaded rod into the extraction nut [13] and pull out needle bearing [11]. To continue dismantling of rotor, place a suitable guard ring against the end face of the steel head [14] or put on a protective covering, then clamp rotor very firmly between the vice jaws. Finally, push rotor carefully from the steel head by using two assembly levers. After loosening the locking nut [4] and driving out spiral pin [3], the ball bearing [8], the needle bearing [6], the inner raceway of the needle bearing [7] as well as the eccentric weight [2] can be removed i.e. pulled off. The assembly must be carried out in reverse order. Always pay particular attention to the correct orientation of the spring washers (see exploded view). The needle bearing [11] must be pre-lubricated.

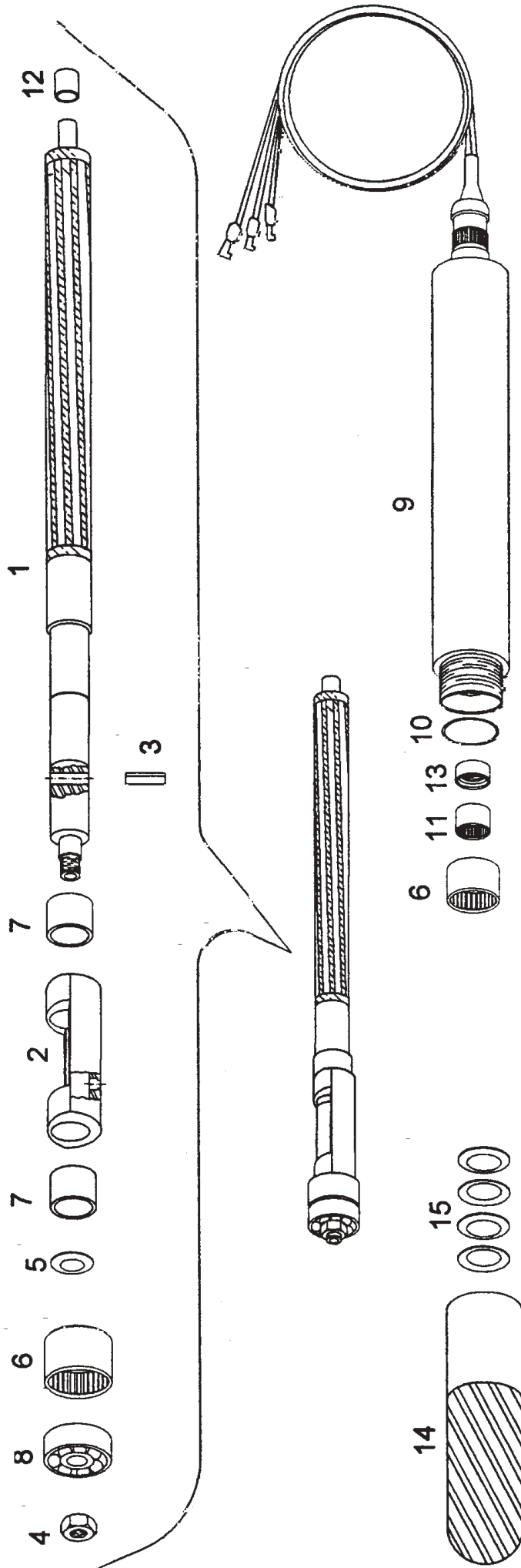
**When re-assembling, threads must be treated with 'Loctite' or similar thread sealant.**  
**If possible re-weld locking points.**

**Lubrication**      The VPI 30 is oil-lubricated. Quantity 4 cm<sup>3</sup>

### Technical Data

	VPI 30	VPK 30
Diameter	31mm	31mm
Length head	320 mm	320mm
Weight ( head only)	1.7 kgs	4.6 kg ( Head & Control less hose)
Input (voltage)	42- 48v / 200 Hz	110v 1ph 50Hz
Output (power)	0.7 kVA	0.7 kVA
Speed	12.000 RPM	12.000 RPM
Compaction rate	12 m <sup>3</sup> /h	12 m <sup>3</sup> /h
Length /rubber hose	5m	5m
Length /supply cable	10m	10m

# VPI 30



Item	Description	Ref. No.	Item	Description	Ref. No.
1	Rotor / 30H	R1000	9	Stator 250v / 30H	R1010
2	Eccentric weight / 30H	R1001	10	'O' ring stator / 30H	R1011
3	Spiral pin / 30H	R1002	11	Needle bearing / 30H	R1012
4	Locking nut / 30H	R1003	12	Inner race of needle bearing / 30H	R1013
5	Belleville spring washer (small) / 30H	R1004	13	Extraction nut / 30H	R1014
6	Needle bearing rotor / 30H	R1005	14	High resistance Treated head (coated)	R1015
7	Inner race of needle bearing / 30H	R1006	15	Belleville spring washer (large) / 30H	R1016
8	Ball bearing / 30H	R1007			
9	Stator 42v / 30H	R1008			
9	stator 115v / 30H	R1009			