

INSTRUCTION MANUAL

Electronic Poker RPXX_E-HF



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Foreword

These operating and maintenance instructions are part of your machine.

They provide necessary information to operate your machine safely and properly.

They also contain information on required operating, maintenance and repair measures.

Carefully read the operating and maintenance instructions before taking your machine into operation.

Please observe the safety regulations strictly and follow all instructions to ensure safe operation.

The description of the individual operating steps including the notes on safety to be followed can be found in chapter "Operation"

Ensure the compliance with the specified operating, maintenance and repair measures to maintain the functional safety of your machine.

Do not service or repair your machine by yourself to avoid harming persons or damaging material or environment.

The machine must only be serviced and repaired by qualified and authorised personnel.

Contact our customer service to carry out the required maintenance work or necessary repairs.

In case of operating errors, inadequate maintenance or the use of unapproved fuels and lubricants all warranty claims will become null and void.

For your own personal safety you should only use original parts from REDLINE.

For your machine we offer service kits to make maintenance easier.

In the course of technical development we reserve the right for technical modifications without prior notification.

These operating and maintenance instructions are also available in other languages.

Apart from that, you can also order the spare parts catalogue against the serial number of your machine.

The above notes do not constitute an extension of the warranty and liability conditions specified in the general sales and delivery conditions of REDLINE GmbH.

We wish you successful work with your REDLINE machine.

2-1. General Characteristics

The HIGH FREQUENCY transmissions, for concrete is designed to give maximum satisfaction to the user, as long as the instructions of use and maintenance contained in this manual.

The transmissions will be used by personnel trained for this job it will only be used in specific jobs for which it has been technically developed, after having read the instructions contained in this manual and which must be followed correctly.

The manufacturer or authorized distributor must be consulted about any doubts.

REDLINE DYNPAC will not accept any responsibility derived from incorrect installation, manipulation or misuse of the transmissions. The data contained in this manual are correct from the moment of editing. However the manufacturer reserves the right to modify the characteristics, without prior notice in consideration of contract commitment of continuous improvement.

No acting according to the instructions indicated in this manual, will cause the cancellation of the guarantee.

2.2 Technical Specifications

Type	Ø Needle (mm)	Length Needle (mm)	Hose length Cable length	Vibrations per minute	Centrifugal Force (N)	Amplitude (mm)	Weight (Kg.)	Nominal Current (A)
RP40e HF	38	360	5/7/12 mts 10 mts	12.000	1.500	1,3	12	6
RP50e HF	50	398	5/7/12 mts 10 mts	12.000	3.000	1,6	14	12
RP60e HF	60	405	5/7/12 mts 10 mts	12.000	4.800	2,1	16	13
RP70e HF	70	398	5/7/12 mts 10 mts	12.000	7.000	2,5	18	17
Input Voltage: 42 V. - 200 Hz. Note: T = With Thermal Protection								

2-3. Safety at Work

The HIGH FREQUENCY transmissions fulfills the E.C regulation of safety at work low voltage and vibration in portable machines or hand driven, as well as ISO 6081 regulation, regarding noise at the place of work. However the use of hearing protection during the vibrating time.

The manufacturer will not accept responsibilities for accidents if they derive from structure modification.

For safety reasons and so as to avoid an accidental starting, don't forget to disconnect the transmission from the converter when some kind of operation or part substitution is made.

In addition to our recommendations the safety regulations of each country in force.

2-4. Conditions for Use

The HIGH FREQUENCY transmissions are designed to vibrate concrete and be used under the hardest conditions, both environmental as well as use.

The vibrating needle are equipped with a powerful motor encased in EPOXY resin, protecting the from vibration.

All the models RPXXe-HF-, are factory-equipped with thermal protection against over-heating. When the system detects an increase of temperature over the predetermine levels, the needle stops automatically. One has missing the conditions that have produced the stopping the starting is automatic.

The vibrating needle are protected by a thermal system, the stopped for the needle doesn't mean a fault, only when the vibrating needle is into the concrete, probably exist a fault.

If the stopped is produced with the needle out of concrete, its not an fault, is simply a natural protection.

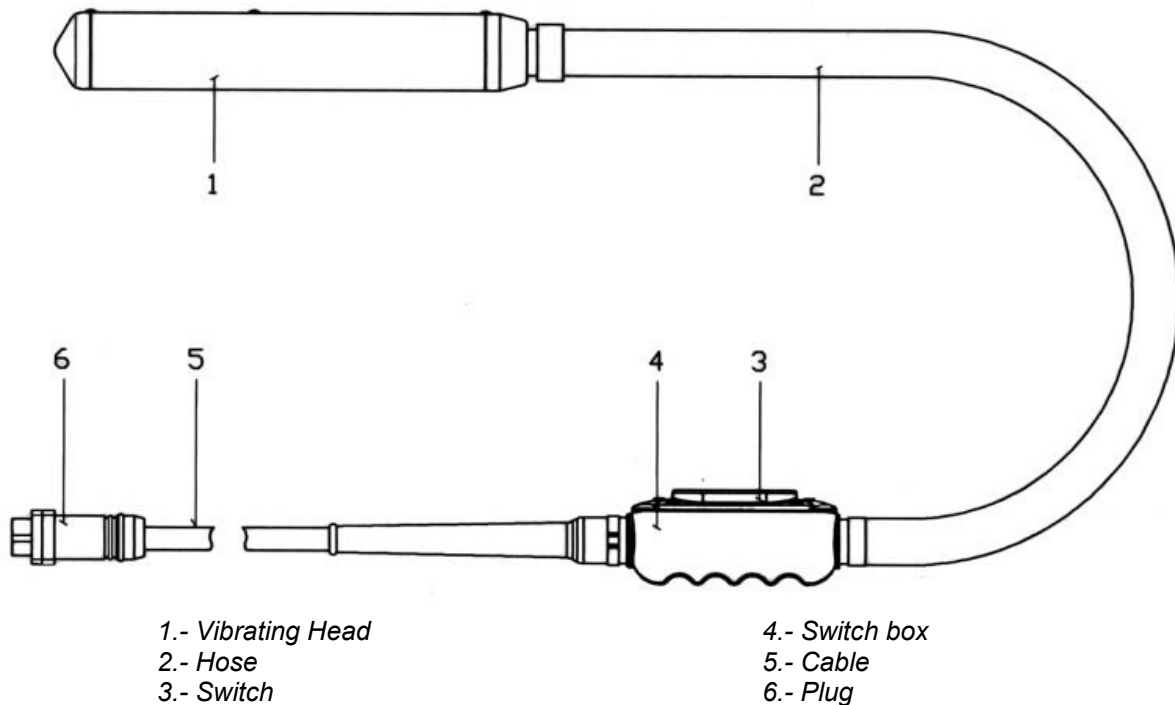
The transmissions' needle of HIGH FREQUENCY must be submerged into the concrete as a minimum two third parts, to facilitate its cooling.

Avoid the vibrating needle working in contact with solid and ridged prominent objects for long periods of time.

The needles without thermal can't be out of the concrete more than 5 minutes, for avoid a possible damage of the winding.

In case that the stopping will be produced with the needle into the concrete and vibrating it, the equipment must be stopped immediately. It will be check and repair if it is necessary. Under any circumstance, continue vibrating, because it produced the breakdown in the needle motor.

3 INSTRUCTIONS FOR INSTALLATION AND USE



3-1. Starting

The **HIGH FREQUENCY** transmissions are equipped with vibrating needles type **RPXXe-HF** that must be connected necessarily to converts of **HIGH FREQUENCY** with output voltage of 42V. 200Hz. of frequency. No connect directly to the network. Before starting, the transmission must be checked, paying special attention for the started of plug, electric cable, switch box, and functioning of this. Before any rib, rupture or damage it must be repaired, to avoid subsequently faults. Under no circumstance, make any reparation or change of pieces with the hose plug into the connection plug of the converter. Once it has been revised, check that the transmission's switch is in position "0", connect the plug up to the connection base of the converter and may be started subsequently the transmission switch may be moved to the position "1". NOT use converter's plug for starting up or stop it, always must be used with the corresponding switch. Under ANY circumstances, have the arrange switch of the needle in position "1" (starting position) before that the converter has been started, it means that the first the converter must be started and then the vibrating needle, because it starts on load and overcoat in Single-Phase models may produce a fault in the motor of the converter. With temperatures below 3°C., the vibrator may present difficulties to start after a long period stopped, this is due to the solidifying of the grease bearings and of the cable, it must start letting the vibrator run light long enough for normal vibration to be achieved.

3-2. Instructions for Use

Be careful to avoid that the electrical cable works forming Knots or interlacing, also with very closed bend, this produces premature and unnecessary wearing of the flexible cable, causing even their immediate breakage.

Avoid the electrical cable being near heat sources, or that it slips to where there are objects with sharp edges, it must also be protected from heavy machines and other objects which may cause its deterioration.

Do not allow personnel not capable to make use of the vibrator or manipulate the electric parts.

The concrete must vibrate in horizontal layers, the needle must **NEVER** be used to move the concrete laterally.

The vibrator must **NEVER** be stopped while it is introduced into the concrete, to stop it must be taken out of it first.

4 MAINTENANCE INSTRUCTIONS

4-1. Overhauling

Depending on conditions of use and at the maximum every year, must be carried out a complete overhauling of the converter. The state of the plug, electric cable, needles bearings, wear of exterior tubs and the ends must be check.

If the loose bearings, heats up or make too much noise must be replaced and always remember **ORIGINAL SPARE PARTS MUST BE USED.**

The greasing of the bearing must be done with grease STABURAGS NBU 4 from the firm KLÜBER LUBRICATION or any other equivalent one.

Remember, for safety reasons do not forget to disconnect converter the transmissions when some kind of operation or part substitution is made.

5 TRANSPORT AND STORAGE

5-1 Conditions for transport and storage

The packaging of the HIGH FREQUENCY transmissions allows its easy transport without taking any special precaution.

Its storage the HIGH FREQUENCY transmissions if it is for a long period of time, its storage will be in a safe dry place.

Before storage and after use the transmissions must be perfectly cleaned outside, taking all the concrete removing, this operation can be carried out be hydro jet avoiding the electric parts.

6 INSTRUCTIONS FOR ORDERING SPARE PARTS

The spare parts are on sale at the official dealers and from the distributors of the make in your neighborhood.

When you require spare parts do not forget to indicate:

- The type of the vibrator, and diameter of the needle.
- Units required, code and description of the parts ordered and whenever possible provide the serial number of the machine.
- Indicate also the delivery means preferred, the delivery will be made in the means desired.

7 TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	COUNTER MEASURE
The motor needle doesn't work	Electrical connections are let or broken. Faulty switch. Fail of the line.	Checking and replacing if it was necessary. Replace. Checking the plugs of the converter.
The needle makes more noise than normally	Faulty bearing	Replace them with original spare
The needle stops when it is vibrating the concrete	The thermal protection switch of	Checking electrical parts and bearings.
Doesn't start with below temperatures	The grease is solidified	Starting the vibrating needles to work without load enough time until it works normally.
The needle revolves with a slow speed and warm it	The voltage line is low Blocked bearings The motor rotor frictioned	Checking the output voltage of the converter must be (48 V). Replace bearings with original spare. Sending to our factory or Official Agent.

8 GUARANTEE

8-1 Period of Guarantee

REDLINE Dynapac guarantees the products and components they manufacture, for a period of 6 months.

8-2 Coverage of Guarantee

The guarantee covers all the defects from manufacturing of the components of the product, as well as their replacement or substitution, on behalf of the Technical After Sales Service.

8-3 Cancellation of Guarantee

The guarantee does not cover the misuse or inadequate manipulation, on behalf of the use of the transmission, nor the incorrect connection, knocks, maltreatment or repairing by unauthorized personnel.

(It must never be connected directly to network)

During the period of guarantee the breakdowns must be repaired by personnel from REDLINE Dynapac authorized to do so, if this is not so the right given by the guarantee will be lost.

The equipment which has been dismantled or manipulated previously by personnel unauthorized by REDLINE Dynapac will not be in guarantee.

In all the cases of application for guarantee, **prior notice** must send the equipment to REDLINE Dynapac or where they indicate.

(Do not forget to always indicate: Name, Address, and Telephone, as well as name of person of contact.)

IMPORTANT NOTICE:

REDLINE Dynapac are not responsible for damage caused to the product or persons due to their misuse or bad manipulation.

RPXXe-HF Do's and Don'ts :

1. Do not use power tools in potentially explosive environments, such as those containing flammable liquids, gases, or dust.
2. Ensure that your workspace is kept clean and well lit.
3. Maintain a safe distance between bystanders, children, and visitors while using power tools.
4. Grounded tools must be plugged into an outlet that is properly installed and grounded in accordance with all relevant codes and ordinances.
5. Never remove the grounding prong or make any modifications to the plug.
6. Avoid the use of adapter plugs.
7. If you have any doubts about the grounding of an outlet, consult with a qualified electrician.
8. Be cautious to prevent bodily contact with grounded surfaces, such as pipes, radiators, ranges, and refrigerators.
9. Avoid exposing power tools to rainy or wet conditions.
10. Avoid exposing power tools to dust, blowing sand, or sandstorms.
11. Refrain from abusing the power cord, and never use it to transport the tool.
12. Keep the cord away from heat sources, oil, sharp edges, or moving parts.
13. Promptly replace damaged cords, as they increase the risk of electric shock.
14. When using a power tool outdoors, use an outdoor extension cord of the H07RN-F type.
15. Stay vigilant and pay close attention to your actions when operating a power tool.
16. Do not use the tool while fatigued or under the influence of drugs, alcohol, or medication.
17. Dress appropriately, avoiding loose clothing or jewelry.
18. Keep hair, clothing, and gloves away from moving parts, as loose items can become entangled.
19. Take precautions to prevent accidental starting.
20. Ensure that the power switch is in the off position before plugging in the tool.

21. Avoid overreaching while operating the tool.
22. Maintain proper balance and footing at all times.
23. Utilize appropriate safety equipment, including eye protection, a dust mask, non-skid safety shoes, a hard hat, or hearing protection, as required by the specific conditions.
24. Secure and support the workpiece using clamps or other practical methods on a stable platform.
25. Refrain from forcing the tool; instead, use it with the correct application in mind. The appropriate tool will perform the task more effectively and safely, according to its design specifications.
26. Do not use the tool if the switch fails to turn it on or off.
27. Before making any adjustments, changing accessories, or storing the tool, disconnect it from the power source by removing the plug.
28. . Keep tools out of reach of children and untrained individuals.
29. Maintain the tool meticulously.
30. Regularly inspect the tool for any misalignment, binding of moving parts, breakage, or other conditions that may affect its operation. If any issues are identified, have the tool serviced by a professional before use.
31. Use only accessories recommended by the manufacturer for your particular model.
32. Tool servicing should only be carried out by qualified repair personnel.
33. When servicing a tool, use identical replacement parts exclusively.
34. Adhere to the maintenance instructions provided in the manual.
35. Ensure that the vibration transmitted to the operator does not exceed 2.5 m/s^2 of acceleration.
36. Avoid operating vibrating pokers out of concrete for more than 15 seconds.
37. Prior to commencing work, verify that all components of the poker are securely fastened.
38. When completing the task or taking a break, switch off the equipment, disconnect it from the electrical system, and position it securely to prevent falls or tipping.

