

WARRANTY CARD

1. KH Trading machines and tools are covered by 6/24 months warranty, starting on the date of purchase, as described in the Civil Code (proof of purchase or invoice receipt must be enclosed with the warranty card when making a claim).
2. This warranty does not cover defects caused by unprofessional handling, machine overloads, not complying with instructions contained in this manual, using accessories that are not approved, unauthorized repair, regular wear and tear and damages occurred during transport. Further, this warranty does not cover parts and accessories such as the motor, carbon brushes, seals and hot-air operated parts and parts that need to be changed regularly.
3. If the repair is to be found as not covered by the warranty policy, all costs including the repair and shipping to and from the repair centre will be paid by the customer, according to valid price list. See www.
4. When making a claim, you must present the warranty card, showing the date of the purchase, the serial number of the machine, vendor stamp and signature of sales clerk, as well as the proof of purchase receipt.
5. Warranty claim shall be made at the vendor shop where you bought your machine or you may mail it to a service centre. The vendor is obligated to fill out the warranty card (date of sale, serial number, vendor stamp and signature). All these information must be filled in at the time of sale.
6. The warranty period will be extended for the period of time for which the machine has been in the service centre possession. If the repair or defect is not covered by the warranty policy, all costs including the repair and shipping will be paid by the owner of the machine / tool. We recommend sending the machine in its original packaging. Please, also enclose brief description of the defect with the packaging.
7. Before sending the machine for repair, clean it thoroughly. If the received machine is dirty, it may be rejected by the service shop or you may be charged a cleaning fee.

SERVICE

Logistic centre Klecany

Topolová 483

250 67 Klecany

Czech Republic

Claim department phone number: 266 190 156

T-mobile: 603 414 975

266 190 111

O2: 601 218 255

Fax:

260 190 100

Vodafone: 608 227 255

<http://www.KHnet.cz>

Email: servis@KHnet.cz

Product: ELECTRICAL CONCRETE VIBRATOR	
Type: MS6802	Serial number (product series):
Date of manufacture:	Repair centre notes:
Date of sale, stamp, signature:	

Without the correctly filled warranty card or without proof of purchase receipt, including the product type (invoice, purchase receipt) no warranty claim will be processed.

uni-max

USER'S MANUAL

ELECTRICAL CONCRETE VIBRATOR



MS6802

Dear customer. Thank you for purchasing equipment from KH Trading, s.r.o.
Our company is ready to offer you our services - before, during and after you buy our product.
If you have any question, comment or idea, please contact our business centre. We will do our best to address your comment or question in timely matter.

Before first use, please read this manual carefully. It is your responsibility to study all instructions, necessary for safe use and operation and to understand all risks that may be involved during the use of power machines.

WARNING! Do not try to use this machine before reading this entire manual and before you know how to handle it. Keep this manual for future reference.
Pay special attention to safety instructions. Not complying with safety rules may cause injury to the operating person or to people standing by or it may cause damage to the machine or to the work piece.
Pay special attention to safety notes and safety labels on the machine.
Never remove or damage them.

Please, write information such as the invoice number and the number of the sale receipt here in this box.

DESCRIPTION

This machine has been designed for concrete product solidification such as casting structures, steel-concrete structures and for air bubbles removal from concrete solutions.
It is very convenient mainly in hart-to-reach spaces.
Powered by small, light weight, commutating electric motor.
The vibration head design requires very little maintenance.
Two carbon brushes D308 (6.3 x 10 mm) are supplied with your machine.

TECHNICAL SPECIFICATION

Input voltage	~230V
Frequency	.50/60 Hz
Power input	.580 W
Motor insulation class	.H
Power cable length	.5 m
Waterproof switch	
Vibration head diameter	.35 mm
Vibration head length	.384 mm
Flexible shaft diameter	.10 mm
Flexible shaft guide diameter	.30 mm
Idle revolutions	.13,000 rpm
Weight	.6 kg

The accuracy of instructions, graphs and information contained herein, depends on the printing date. Due to continuous product improvement, the manufacturer reserves the right to change technical parameters of the product, without prior customer notification.

REVISION REPORT

The user is obligated to perform tests and revisions of machine electrical equipment in accordance with valid rules and regulations. Maintenance record:

DATE	REVISION REPORT	REVISION TECHNICIAN NO. / SIGNATURE

REPAIR AND MAINTENANCE REPORT

Maintenance and repair report:

DATE	REPAIR AND MAINTENANCE REPORT	AUTHORIZED SERVICE SHOP

MAINTENANCE

- Maintain your tools clean. Dirt may enter the inner mechanism of your machine and cause damage.
- Do not use aggressive cleaning solution or paint thinners to clean the machine.
- Clean plastic parts with cloth dipped in soap water.
- Clean and lubricate metal surfaces with a cloth dipped in paraffin oil.
- If you are not using your machine, lubricate it with suitable grease and store it in a dry place to prevent corrosion.
- Perform maintenance every 100 hours.
- All parts: the hose, flexible shaft and the vibration head must be cleaned and lubricated with grease containing lithium.
- Inspect rubber seals as well. If damaged change it immediately.
- Inspect seals and the conditions of the O-ring. If damaged or worn out, change it immediately. Using your equipment with bad seal will quickly damage your machine.

In accordance with the applicable law, carbon brushes and saw blades are considered expandable material and are not covered by the warranty policy.

Lubrication

Lubricate working surfaces with suitable grease regularly.

DISPOSAL

When the operational life of your device is over, dispose off it in accordance with valid rules and regulations. Your product is made of metal and plastic parts that may be recycled when separated.

1. Disassemble all parts.
2. Separate all parts according to the material they are made of (e.g. metals, rubber, plastics, etc.). Take the separated parts to the recycling facility near you for further processing.
3. Electrical waste (used electrical power tools, electric motors, recharging equipment, electronics, accumulators, batteries etc.).

Dear customer. In accordance with the valid regional rules and regulations describing the management of electrical waste, electrical waste is considered dangerous. Disposal of electrical waste must be therefore handled as dangerous waste in accordance with waste management rules valid in the state you are in. It is prohibited to mix electrical waste with regular household waste. You may return your used electrical appliance to a recycling facility near you. More information about electrical and dangerous waste disposal may be obtained from your local authority or from the Internet.

CAUTION

If the machine breaks down, send it back to the vendor for quick repair. Please, enclose brief description of the defect. That makes repair easier. If the machine is still covered by warranty, enclose the warranty card and proof of purchase receipt. After the warranty period expires, we repair your machine for a special price.

To prevent possible damages during shipping, packed the machine carefully or use the original packaging material. We are not liable for shipping damages due to incorrect packaging of your machine. If making a claim at the shipping company the level and method of packaging plays a major role during claim evaluation process.

Note: Pictures and contents in this manual may slightly differ from the actual product or accessories. It is due to continuous improvement of our products. Such small differences have no effect on the product functionality.

SAFETY PRECAUTIONS

- **This device may be used by a qualified person, 18 years or older who has been trained in work and environmental safety procedures.**
- **Any person using this equipment must possess a medical certificate demonstrating his eligibility to operate this equipment.**

Symbols used in this manual



Warning!

This symbol informs you about the risk of personal injury or damage to the machine or materials.



Caution! You are using electrically powered machine!

Danger of injuries by electric current.



Danger of being caught by moving machine parts!

Caution! Loose clothing or body parts may get caught by moving machine parts.



Caution!

Danger of damages



Note:

Additional information



Use personal protective gear



General instructions

- Make sure you know how to control your tool or machine and that you are familiar with its operating procedure. Know the hazards that may occur, if not used correctly.
- If other person is using this machine make sure that he knows how to safely operate this equipment and that he is familiar with hazards and risk that may occur, if not used correctly.
- Always pay attention to safety instructions on the safety labels. Do not remove or damage them. If the warning label becomes unreadable, please contact your vendor.
- Disorganized and dirty work shop may cause accidents.
- Never work in narrow or poorly lit rooms. Always keep stable posture.
- Maintain your tools clean.
- Handles must be kept free of grease and dirt.
- Make sure no children, unauthorized persons or animals have access to your workshop.
- Do not put legs or hands inside the working space.
- Never leave your equipment unattended during work.
- Use only for purposes for which it has been designed.
- Use personal protective gear such as safety goggles, ear protection, respirator, safe working shoes etc.
- Do not overreach, use both hands.
- Never work under the influence of alcohol or other drugs.
- Do not use the machine/tool if you feel dizzy or weak.
- Any modifications or improvements to the machine are strictly prohibited. DO NOT USE if you discover bent part, crack or other damage.
- Never perform any maintenance during operation.
- If you see any unusual sign or hear any strange sound, switch off the machine immediately.
- Always remove wrenches and screwdrivers from your machine after use.

- Before use, make sure all screws are tightened securely.
- Perform maintenance regularly. Before use make sure the machine is in good working conditions and without any damage.
- Use only original spare parts during repairs.
- Using extension pieces or accessories not approved by the manufacturer may cause injuries to the operating personnel.
- Use suitable tool for particular type of work. Do not overload your machine or accessories. Do not attempt to use machine with insufficient power to perform heavy duty work.
- Do not overload your device. Measure the work load in such way, so it could be done with comfortable speed. Damages due to machine overloads are not covered by the warranty.
- Do not expose to extremely high temperature or direct sunlight.
- This machine is not designed for use in humid environments or under water.
- If you are not using your machine, store it in a dry and safe place, out of reach of children.
- Before use make sure that all safety elements work correctly and efficiently. Make sure all moving parts are in good working conditions.
- Before use make sure that no part is cracked or stuck, Make sure all parts are attached and assembled as designed. Beware of all other conditions that may have a negative effect on the proper functioning of your machine.
- If not stated otherwise in this manual, all damaged parts and safety elements must be repaired or changed.



Fine mechanics

- Never use a vise to hold you device.
- Protect your machine from fall and impact. When you finish your work store your equipment back inside the briefcase.



Assembly

- Do not use the machine unless completely assembled.



Electrical equipment

- Observe all basic safety rules when using electrical equipment to prevent risk of fire, injuries by electrical shock and other hazards. Before using this device, read this manual entirely and follow all safety instructions.
- Make sure the power cable plug is plugged into the correct wall outlet. The voltage in the wall outlet must be the same as shown on the specification label to prevent damage to the electric motor. Too low voltage will not provide your machine with enough power.
- Before connecting the machine to the wall outlet make sure that the main switch is in the "OFF" position. When you finished your work, disconnect the power plug from the wall outlet and switch off the main switch.
- Never carry electrical tools and appliances by their power cord. When disconnecting the plug from the wall outlet, never pull the cable by its cord.
- Protect the power cable from high temperatures, oils, paint thinners and make sure that the cable is not hanging over sharp edges.
- Inspect the power cable regularly. If damaged have it replaced by qualified technician. Inspect extension cables regularly. If damaged, have it replaced.
- If you need to use an extension cable, use cable with appropriate power rating. Use only completely unwound. Inspect extension cables for damages regularly. Damaged cable must be repaired or changed immediately.
- Before performing any maintenance, repair or adjustment, switch off the main switch and disconnect the power cable from the wall outlet.
- Make sure that machine may not be switched on accidentally. Do not keep your fingers close to the main switch, unless absolutely necessary.
- If you mount your machine to the work table, release the safety button after installation.

- Do not use in environments where explosives are stored or used (paint shops, warehouse with flammables etc.).
- Do not use in humid environments or if wet.

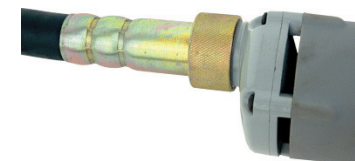


Hand tools

- Do not lay aside your machine unless it is completely stopped.
- When placing you machine aside, make sure that the machine is not pressing on its tool.
- Never use a vise to hold you device.

ASSEMBLY

- Make sure no part is left inside the packaging box before throwing the packaging materials out. If so, take it out and install it. Use the part listing for check-up and the installation drawing for guidance.
- Using the grooved nut, fix the hose to the motor and fasten it securely.
- CAUTION. The nut has left thread!



OPERATION

- The machine is equipped with waterproof switch that may be fixed in the ON position to ensure continuous operation. By pressing the switch again you will switch the machine OFF. You do not need to hold the switch all the time.
- When you press the engine switch, you may discover that the machine will not start working every time you press the switch. This is due to the machine design. The vibration head contains planetary gear motion and therefore such phenomenon is not considered defect. In such case, knock on the vibration head or tap the head on the floor and the machine starts to work.
- Submerge the entire steel head (at the end of the flexible shaft) to the concrete mixture.
- Then you may submerge the vibration head into the concrete solution and start the solidifying process.
- Never switch the machine on or interrupt your work if the vibration head is submerged in the concrete mixture. Switch of the engine only when you pulled out the entire vibration head out of the mixture.
- Inspect the machine and couplings during work. If water and/or the concrete mixture gets inside the hose, it will damage the shaft bearings and will cause irreversible damages to your machine.
- Inspect the carbon brushes regularly. The minimum length is 6 mm. If you use your machine with carbon brushes shorter than 6 mm you will damage the engine.
- Make sure no water may enter the inside of your machine and/or the engine. That way you ensure long operational life of your machine.
- If you hear unusual noise or the temperature goes up quickly or you smell a strange smell, remove the vibration head from the concrete mixture immediately, switch off the machine and disconnect the power cable from the wall outlet.
- You may continue working only after you find out the defect and repaired it.
- After work, clean the outer surface of your machine and the power cable with cloth thoroughly.
- Wind the cable on the machine. Make sure you don't twist the cable unnecessarily.
- Inspect if the coupling between the vibration head and the hose is in good conditions.

