Electric concrete smoother 60cm 2200W



Instructions for use

Translation of the original instructions

This manual contains NOTES, WARNINGS that must be followed to reduce the possibility of improper use of the equipment, damage to the equipment, or personal injury. Read and follow all NOTES, WARNINGS listed in this manual.

ATTENTION: Internal combustion engines as well as gearboxes are not filled with oil at the factory, always check the oil level before starting work!

Security

Warning labels



Read the instruction manual before starting work; the information it contains will enable you to work more safely and efficiently.



You should wear earmuffs.



Wear high rubber boots when working with the electric squeegee to reduce the risk of possible electric shock.



Risk of suffocation by exhaust fumes. Use the combustion chiller in a well-ventilated room or outdoors!



Hot surface!



Risk of electric shock!



Watch out for moving parts! Keep limbs out of reach!



A label declaring that the product meets the New Approach standards.

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General safety rules

Knowledge of the machine and appropriate training is required for safe use of the machine! Improperly used equipment or equipment operated by untrained persons can be dangerous! Read the operating instructions in the manual below as well as the engine manual and familiarize yourself with the location and proper operation of all switches.

-The scraper must not be used by children, persons under the influence of alcohol, strong drugs or narcotics, or persons with disabilities.

- Always use proper heavy lifting techniques when moving equipment.

-Switch off the engine before refuelling. And wait for it to cool down.

- NEVER use this machine for anything other than troweling and leveling concrete.

-NEVER allow this equipment to be used by untrained persons. Persons using it must be familiar with the possible risks/hazards associated with its operation.

-NEVER touch the motor or muffler during concrete screening or immediately after it has been completed and shut down. These parts become hot and can cause burns.

-NEVER use attachments or accessories that are not designed for use with this machine. Use of unsuitable parts may cause damage to the equipment and/or personal injury.

-NEVER operate this machine without the timing belt guard. An exposed drive belt as well as pulleys are potential hazards that can cause serious injury.

- NEVER leave the appliance running unattended.

-Never wear loose jewellery when working with the machine.

-NEVER use the machine indoors or in confined spaces. Exhaust gases coming from the engine contain poisonous carbon monoxide: exposure to carbon monoxide can cause loss of consciousness and can even lead to death.

- NEVER smoke while refuelling.

ALWAYS refuel in a well-ventilated area, away from sparks and open flames.

-ALWAYS check that there are no obstructions in the work area before starting work.

-ALWAYS check that starting work will not cause a hazard to the environment and colleagues.

-ALWAYS keep hands, feet and loose clothing away from moving parts of the equipment.

-ALWAYS read, understand and follow the procedures in the equipment manual.

-ALWAYS ensure that the machine operator is familiar with the appropriate safety precautions and techniques before using the machine to trowel and smooth concrete.

-ALWAYS close the fuel valve on engines equipped with them when the machine is not in use.

-When the equipment is not in use, ALWAYS store it properly. The equipment should be stored in a clean, dry place out of the reach of children.

-ALWAYS operate the machine with all guards in place; removing them can result in injury.

- ALWAYS use the machine along straight moulds/shapes. Avoid objects protruding from the concrete, such as rods or water pipes that could interfere with the operation of the unit. Snagging on infrastructure components can cause loss of control!

-The operator must be familiar with local health and safety regulations and with the operation of concrete screening machines.

Before starting work

Always keep an eye on the equipment's workspace. The operator must ensure that bystanders and objects in the vicinity are at a safe distance from the machine. Remove all dangerous objects from the finish area (e.g. protruding pole or water infrastructure elements). Do not forget to maintain the smoothener in purity. Never operate the machine when you are tired or sick. Operators must be vigilant and always watch for possible signs of danger or improper machine use. Do not operate the machine in hazardous environments.

Always check the quality of the connections between the power cords, plugs and the condition of the cord before working with the power stroker so that it is not damaged or frayed. Damaged cables can cause electric shock.

Be sure to wear special footwear that prevents conduction of electricity to reduce the risk of electric shock. Make sure the power cord is thick enough to allow the stroker to operate at full power.

Motorised stroker

Always keep an eye on the machine's workspace. The operator must ensure that bystanders and objects in the vicinity are at a safe distance from the machine. Remove any dangerous objects from the end area (e.g. protruding rod). Remember to keep the trowel clean. Never operate the machine when you are tired or ill.
The operator must be vigilant and always be on the lookout for possible signs of danger or misuse of the machine.
Do not use the machine in an environment with a risk of explosion, flammable vapours and dust of textile origin.

Fuel

Handle the fuel with care. Motor fuels are flammable and can be very dangerous if handled incorrectly.

Do not smoke while refuelling and do not be near open flames or sparks. Make sure the engine has cooled down and is switched off before refuelling. Do not refuel with the engine running.

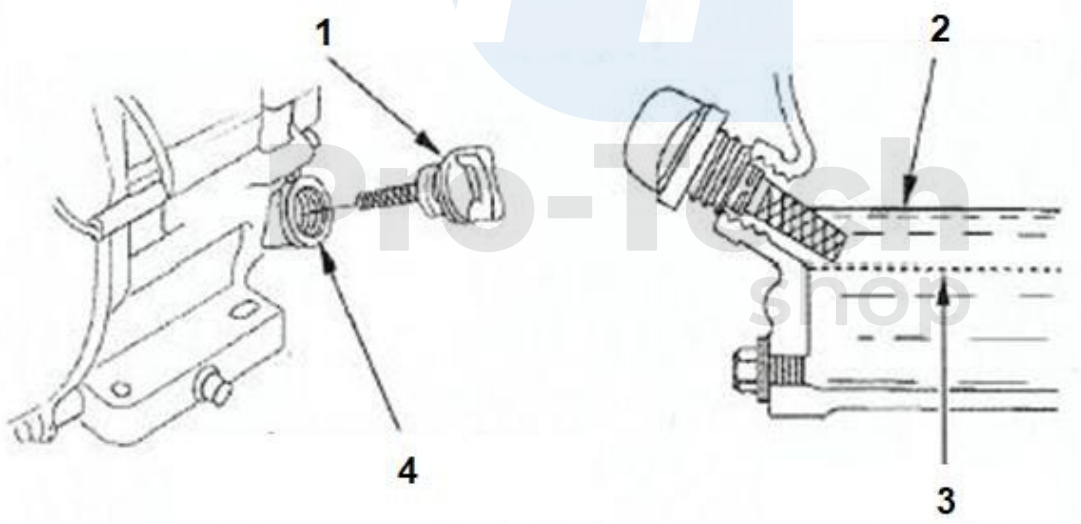
If fuel spills during refuelling, be sure to wipe it up and wait until the fuel residue has evaporated before starting the engine.

Do not leave the machine with fuel in the tank for long periods of time.

Engine oil

The oil level should be checked when the engine is switched off and positioned horizontally.

1. Remove the oil filler cap with the dipstick and wipe the dipstick clean.
2. Insert the oil level dipstick plug into the oil filler neck as shown in the illustration, but do not tighten the plug. Then remove the dipstick plug and read the oil level.
3. If the oil level is near or below the lower limit mark on the dipstick, add the recommended oil up to the upper limit mark (to the bottom edge of the bore).
4. Fit and tighten the measuring cap.



1. Oil filler cap with dipstick2 **. Upper limit**
4. Bottom edge of oil filler hole3 **. Lower limit**

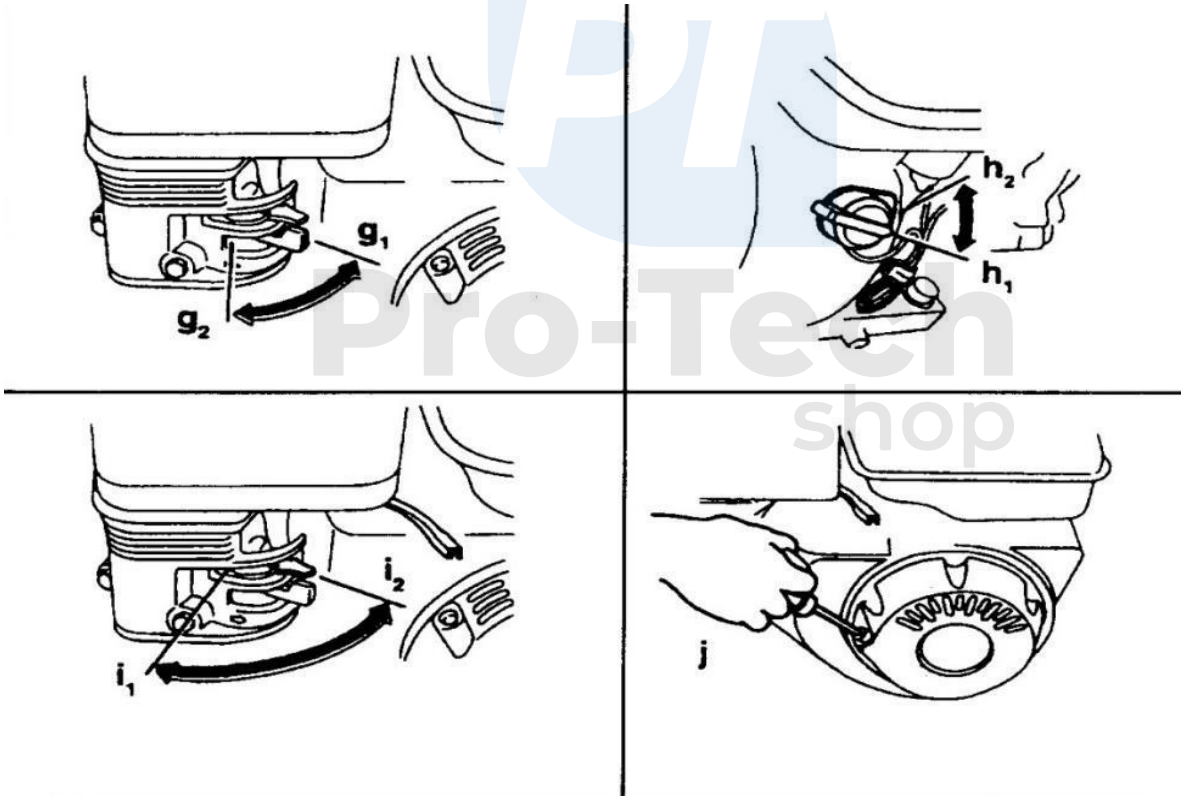
Oil change

Used oil should be drained when the engine is warm. Warm oil will drain faster and no residue will remain in the engine. Extra care must be taken when doing this.

1. Place a suitable used oil container under the engine, then unscrew the oil dipstick plug, oil drain plug and remove the washer.
2. Wait until all the used oil has drained and then screw the oil drain plug back in, fitting a new washer. Tighten the oil drain plug securely.
3. Dispose of used engine oil in an environmentally safe manner. We recommend that you take used oil in a sealed container to your local used oil collection/recycling centre. Do not dispose of the oil container in the garbage, pour the oil on the ground or down the drain.
4. Place the engine in a horizontal position and add the recommended oil until the oil level reaches the upper limit mark (the bottom edge of the filler hole rim).
5. Fit the oil filler cap with the dipstick and tighten it carefully.

Use SAE30 engine oil Other oil viscosities can lead to accelerated wear of engine components or sudden engine failure.

Starting the combustion machine



Remember to set the accelerator handle to the minimum position before starting the engine. The centrifugal clutch engages the drive as the engine speed increases, starting at full speed will result in loss of control.

1. Open the fuel valve by moving the lever to the right.
2. If the engine is cold, move the intake lever to the closed position. If the engine is hot, move the intake lever to the open position.
3. Switch the engine ignition switch to the "ON" position.
4. Pull the starting cord.

Note: If the engine oil level is low, the engine will not start. In this case, check the oil level and top it up if necessary.

5. Open the intake while the engine is warming up.
6. Allow the engine to warm up for a few minutes before starting to level the concrete.

Shutdown

1. Turn the engine knob to the "OFF" position.
2. Close the fuel valve by turning the lever to the left.

Note: Turn the engine knob to the "OFF" position to quickly shut off the engine in an emergency. Or move the intake lever to the closed position to silence the running engine.

Maintenance

NOTE: Before performing maintenance, remove the spark tube from the spark plug to prevent accidental starting of the engine.

After each use, thoroughly clean the entire trowel of dirt and concrete. Carefully inspect the trowel for damage. If any abnormalities are found, they shall be corrected before work commences again.

Repository

If the trowel will be stored for more than 30 days, then:

1. Change the oil in the engine.
2. Drain the fuel from the engine.
3. Remove the spark plug, pour 15-20 ml of engine oil into the hole, and then screw in the spark plug, do not plug the spark plug tube.
4. Detach the trowel handle from the machine body to save space.
5. Cover the trowel together with the motor and store them in a clean and dry place.
6. The site must not be accessible to children or animals.
7. Keep the stroker in its original packaging together with the instruction manual.

Transport

If you want to transport the combustion appliance, it is necessary to empty the fuel from the tank. And secure the appliance against movement using the transport straps. Only the luggage compartment of the vehicle may be used for transport.

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Electric iron

Electrical safety

Before connecting the appliance to the mains, it is essential to check the mains parameters; they must correspond to the information on the type plate. The electrical installation must be equipped with a working fuse and earthing pin.

If an extension cord is used, the cross-section of its conductors must be twice the cross-section of the appliance's

power cord. Never modify the power plug.

All electrical connections must be made by qualified personnel.

Maintenance and storage

NOTE: Before servicing, unplug the power plug from the power outlet to prevent accidental starting of the unit.

Make sure that the smoother is disconnected from the power supply before carrying out maintenance. After each use, thoroughly clean the entire trowel of dirt, concrete. Carefully inspect the trowel for damage and condition. If any abnormalities are found, they must be corrected before work is resumed.

Before storage, the trowel should be thoroughly cleaned, dried and packed in its original packaging with instructions for use. The storage area should be dry with low humidity and protected from precipitation such as rain or snow.

Instructions for use

Note: Do not leave the trowel on soft concrete for long periods of time. This will cause the device to dig into the concrete!

Depending on the type of concrete to be poured and the desired surface finish, use steel blades or a disc. The work

must be carried out by a trained worker who is familiar with concrete floor finishing techniques.

Do not squeeze the handles hard when working, this transfers more vibration to the operator's

hands and arms. The trowel should be pulled behind the operator to even out the reflection of the

shoes in the concrete.

When working with the electric stroker, pay attention to the position of the power cord, the rotating blades can damage it and cause electric shock.

Changing the blade

Be careful when replacing the blades, because the way the blades wear, their edges are very sharp, like a knife blade. Use reinforced work gloves when working to prevent injury. Loosen the screws and remove the flexible washers from each arm of the trowel, then remove the blades. Clean the underside of the blades before fitting new blades.
the machine away from any residual concrete or cement and make sure the blades are fitted correctly (the edge of the trowel is behind the arm). Finally, fit the flexible washers and tighten the screws securing the blades to the arms of the trowel head well.

Regular maintenance plan

The periodic maintenance schedule below outlines the basic maintenance intervals for the engine and trowel. The following points regarding machine maintenance can be carried out by a layman using common tools.

	Every day before using	After the first 20 hours	Everyone every two weeks or every 50 hours	Everyone month or every 100 hours	Everyone annually or every 300 hours
Check the fuel level.	-				
Check the oil level in the engine.	-				
Inspection of air purification components (filter). Replace it if necessary.	-				
Check and tighten iron objects.	-				
Check and lubricate the bearing of the marginal ring.	-				

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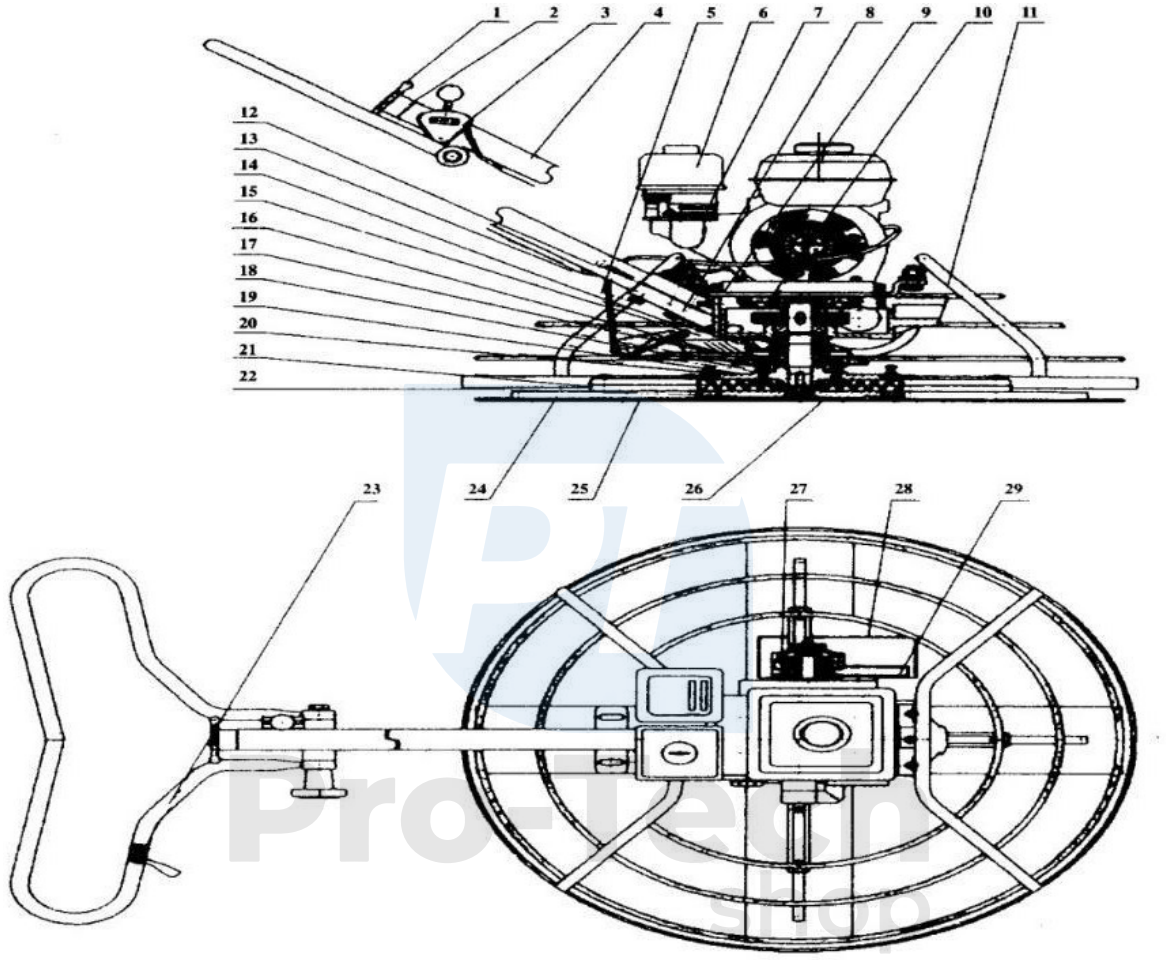
Clean the air purification components.*			-		
Change the oil in the engine.*		-			
Clean the cooling system.				-	
Check and clean the spark plugs.				-	
Clean the oil dipstick.				-	

Problems and solutions

Problems/questions	Solutions/Answers
The radiator is not working at full speed	1. Adjust the engine speed 2. Clean or replace the air filter. 3. Clean dirt from rotating parts and blades. 4. In harsh winter conditions Warm up the engine for longer at idling speed.
The engine works, but the effect is not satisfactory	1. Check that the drive belt is not damaged. 2. Check that the clutch is not damaged 3. Clean the rotating parts and the cross leg
The engine does not run or runs intermittently	1. Check the air filter 2. Checking and replacing the spark plug 3. Check fuel filter 4.Check oil position 5.Check the "on" and "off" switches 6.Check the safety switch

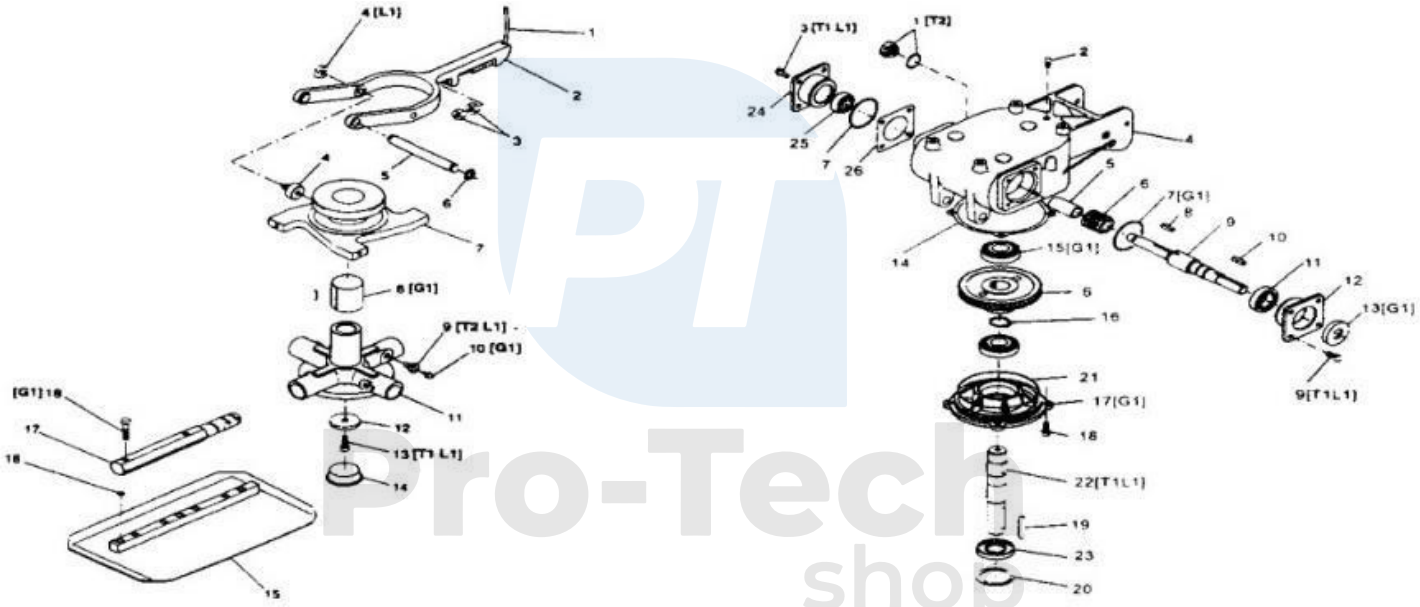
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Machine layers



1. Hand controller
2. Handle
3. Emergency button
4. Pipeline
5. Cable
6. Petrol engine
7. Clamping screw
8. Handle fixing
9. Machine base plate
10. Heat shield
11. Protective ring
12. Bearing
13. Bearing bath
14. Bearing cover
15. Common

16. Trigger switch
17. Adjusting plate
18. Adjusting screw
19. Collecting spring
20. Pin
21. Hexagonal axis
22. Adjusting pin
23. Gas handle
24. Shield
25. Blades
26. Pressure suction cup 27. Coupling
28. Protective strip
29. Belt protector



1. Layer control cable reinforcement angle
2. Sliding layer of trowel fork 3.Nut
4. Bearing distribution device - sliding/pressure rod
5. Axis
6. Ring latch
7. Sliding ring layer 8.Bearing sleeve 9.Locking arm bolt
10. Maznica
11. Group cross hoist

12. Gasket
13. Screw
14. Stopcock
15. Blade
16. Blade arm axis

Transport

1. When transporting, loading or unloading the concrete screed, the appropriate fixing straps or hooks must be used at the designated points marked on the machine.
2. The load capacity of the loading ramps must be adequate and the ramps must be adequately secured to prevent them from tipping over. It must be ensured that no-one is endangered by any overturning or slipping of the machinery or moving parts of the machinery.
3. The concrete trowel shall be secured to prevent it from turning, shifting or tipping over during transport.

Final safety instructions (for motorised stroking)

If you lose control of the tool, move away immediately. The emergency stop should then be activated.

The smoother must not be used indoors as the exhaust gases contain deadly carbon monoxide!

The blade controls of the electric trowel work in the same way as those of an internal combustion engine. The engine is started by pressing the green ON button and stopped by pressing the red OFF button

Final safety instructions (for electric trowel)

Persons electrocuted should be removed from the power source or protected with a dry insulator; the person electrocuted should be removed from the power line.

Care should be taken not to touch a person electrocuted with bare hands until they have been unplugged from the power cord.

Assistance in the form of qualified and trained personnel should be summoned

immediately. If you lose control of the trowel, move away immediately and disconnect

power.

The connection of the electric motor must be carried out by an authorised electrician. The condition of the power cable must be checked before each operation. If loss of insulation, cracks or other damage to the cable is found, it is strictly forbidden to operate the machine until the fault has been rectified.

	Specification		
Model	M79503	M79504	M79506
Maximum performance:	6.5 hp	6.5 hp	2.2 kW
Power supply:	Unleaded petrol	Unleaded petrol	230V/50hz
Working average:	100 cm	60 cm	60 cm
Vibration level:	6.8 m/s2	6.8 m/s2	6.8 m/s2
Net weight:	90 kg	70 kg	76 kg
Noise level:	86 dB(A)	86 dB(A)	72 dB(A)

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