



Get a free 2-year warranty



MAGNETIC BASE DRILL

PPBM50V

IN GOOD HANDS

TRANSLATION OF ORIGINAL INSTRUCTION MANUAL

DE / FR / PT / SP





WHO ARE WE?

Peugeot Professional Tools was born out of several obvious considerations.

The first was to combine the know-how of **Peugeot**, which has mastered the art of cutting since 1810, with the expertise of **Tivoly**, a metalworker since 1917, in order to create a wide range of machines and tools for construction and maintenance professionals.

It was also a natural step to want to serve craftsmen and small businesses driven by strong family and heritage values.

For these professionals, **Peugeot Outils Professionnels** offers machines and tools designed specifically for their needs. **These tools are reliable, durable, and can be repaired in France** and in countries under distribution agreements by local industrial and family partners.

Trustworthy equipment with a longer warranty, logistics, and

French after-sales service. The assurance of dealing with the people who assembled these tools and know every part that goes into them inside out.

From exceptional projects to everyday work, these tools are designed to withstand the most demanding conditions and stand the test of time.

Peugeot Professional Tools was born out of one obvious fact: that our tools are in good hands. The hands of those who work behind the scenes and give their all to satisfy their customers.

Since 1810, many things have changed, but the hands have remained the same. The hands of enthusiasts, craftsmen, dedicated technicians and installers, workers who are proud of themselves and their achievements.

Peugeot Professional Tools: tools in good hands.

THANK YOU FOR YOUR PURCHASE.

We are delighted that you have chosen Peugeot Professional Tools. Every detail has been designed to offer you an exceptional experience, and we hope you enjoy using it as much as we enjoyed creating it for you.

Your trust is essential to us, and we are delighted to accompany you every step of the way in your experience with the Peugeot Professional Tools brand.

Your purchase comes with a 2-year warranty, extendable to an additional 2 years.

To benefit from this, register at www.peugeot-outils-pro.com

If you have any questions or need assistance, our team is available to provide you with the best possible service.

To contact our after-sales service, visit [www.peugeot-outils-pro.com](#), call [+33\(0\)4.79.89.59.00](tel:+330479895900), or email service@peugeot-outils-pro.com.

Thank you for choosing Peugeot Professional Tools. Your satisfaction is our priority.

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1 INTRODUCTION



**For safety reasons, read these instructions carefully before using this machine.
Failure to follow the instructions will result in damage to persons and/or the machine.**

This instruction manual is intended for the operator, adjuster, and maintenance technician.

This instruction manual is an important part of your equipment. It provides rules and guidelines that will help you use this machine safely and efficiently. You must familiarize yourself with the functions and operation by carefully reading this instruction manual. For your safety, it is particularly important that you read and observe all recommendations on the machine and in this instruction manual.

These recommendations must be strictly followed at all times when using and maintaining the machine. Failure to follow the safety guidelines and warnings in the instruction manual and on the machine and/or use other than that recommended in the instruction manual may result in machine failure and/or injury.

Please keep this instruction manual with the machine or in a place that is easily accessible at all times for future reference. Ensure that all personnel involved in the use of this machine can consult it periodically.

If the instruction manual is lost or damaged, please contact us or your dealer to obtain a new copy.

Always use PEUGEOT OUTILS PROFESSIONNELS components and parts. Replacing components or parts other than PEUGEOT OUTILS PROFESSIONNELS may cause damage to the machine and endanger the operator.

This manual describes the safety instructions to be followed by the user. It is the responsibility of the employer or user, in accordance with Article L.4122-1 of the Labor Code, to take care of their health and safety and that of other persons affected by their actions or omissions, in accordance, in particular, with the instructions given to them.

The employer must carry out an assessment of the specific risks associated with their activity, must train workers in the use of the machine and in the prevention of these risks, and must appropriately inform workers responsible for the use or maintenance of work equipment of the instructions or guidelines that apply to them.

2 PICTOGRAMS

2.1 MACHINE SAFETY PICTOGRAMS

Meaning of the safety pictograms affixed to the machine (keep them clean and replace them when they are illegible or detached):



Wearing protective eyewear is mandatory



Protective clothing must be worn



Respiratory mask must be worn



Read the instructions carefully



Danger: sharp object



Danger: risk of entanglement



Wearing of hearing protection mandatory



Safety footwear must be worn



Do not wear loose clothing, wide sleeves, jewelry, bracelets, watches, wedding rings, etc.
Wear hair nets for long hair



Do not wear gloves when using the machine



Do not touch



Danger: presence of electricity

2.2 PICTOGRAMS USED IN THIS INSTRUCTION MANUAL



Direct danger to persons and damage to the machine



Possible damage to the machine or its surroundings



Wear protective gloves when changing tools and cleaning



Note



Electrical work must be carried out by qualified personnel authorized to perform low-voltage electrical work.

3 SAFETY

3.1 GENERAL SAFETY REQUIREMENTS



To reduce the risk of fire, electric shock, mechanical shock, and personal injury when using power tools, follow basic safety precautions.

This instruction manual only takes into account reasonably foreseeable behavior.

Our machines are designed and manufactured with operator safety in mind.

We accept no liability for damage caused by inexperience, incorrect use of the machine and/or damage to it and/or failure to comply with the instructions and safety rules contained in this instruction manual.

As a general rule, accidents always occur as a result of misuse or failure to read the instruction manual.

We remind you that any modification to the machine will result in our disengagement.

Check the presence, condition, and operation of all guards before starting work.

Ensure that moving parts are working properly, that there are no damaged components, and that the machine is operating perfectly during start-up.

Only competent and authorized personnel are permitted to repair or replace damaged parts.

Keep the work area clean and tidy.

Ensure that the entire work area is visible from the work position. Cluttered work areas and workbenches are a potential source of injury.

Do not use the machine outdoors, in very humid conditions, or in the presence of flammable liquids or gases.

Position the machine in a sufficiently lit work area.

The machine must not be used by young workers under the age of 18.

Do not allow unauthorized persons, especially children or animals, to enter the work area, touch the tools or electrical cables, and keep them away from the work area.

Never leave the machine unattended while it is in operation. Always disconnect the power supply. Only leave the machine when it has come to a complete stop.



Do not force the tool; it will perform better and be safer at the speed for which it is designed.

Do not force small tools to do the work of larger tools.

Do not use tools for jobs for which they are not intended.



Do not damage the power cord.

Never pull on the power cord to remove it from the electrical outlet.

Keep the power cord away from heat sources, greasy areas, and/or sharp edges.

Protect the power cord from moisture and any potential damage. Check the power cord periodically and, if damaged, have it repaired by an authorized repairer.

A faulty switch must be replaced by an authorized service center. Do not use the machine if the switch does not control the stop or start functions.



Do not overestimate your strength.

Always maintain a stable position and good balance.

Pay attention to what you are doing, use common sense, and do not use the machine when tired.

Always use both hands to operate this machine.

The use of any accessories other than those described in the instruction manual may present a risk of injury to persons.

The user is responsible for their machine and must ensure that:

The reel is used by persons who have read the instructions and are authorized to do so.

Safety rules are followed.

Users have been informed of the safety rules.

Users have read and understood the instruction manual.

Responsibilities for maintenance and any repairs have been assigned and observed.

Defects or malfunctions have been immediately reported to an authorized repairer or your dealer.

The reel must be used in the areas of application described in this manual.

Any use other than that specified in these instructions may constitute a hazard.

Mechanical and/or electrical guards must not be removed or bypassed.

No modifications and/or conversions must be made.

PEUGEOT OUTILS PROFESSIONNELS declines all responsibility for damage caused to persons, animals, or objects as a result of failure to comply with the instructions and safety rules contained in this instruction manual.

3.2 SPECIAL SAFETY REQUIREMENTS

Use the safety strap

The safety strap prevents the drill from falling in the event of a power failure. Each time you use the drill, attach the safety strap to the drill and to a fixed structure nearby.

Magnetic base

Do not disconnect the drill when the magnetic base is in operation, as there is a risk of it falling.

The adhesion of the magnetic base magnet depends on:



The thickness of the workpiece. Ensure that the workpiece is made of ferrous metal (steel) and is at least 12 mm thick. If the drill bit diameter is ≥ 60 mm, the minimum thickness of the workpiece is 20 mm.

The cleanliness of the magnet and the workpiece. Chips and other debris impair the adhesion of the magnet. Ensure that the magnet and the workpiece are clean before starting work.

The drill must be plugged into its own power outlet with a residual current device. If this outlet is shared with other devices, this could cause the magnetic base to lose its adhesion.

Drill position

Use the drill at an angle not exceeding 90° from the horizontal. Do not use the drill upside down.

Do not hold the drill in your hand or against your body.

Tool

Ensure that the tool is correctly mounted and firmly secured.

Do not stop the tool by hand.

Do not touch the tool while it is moving.

Always keep the tool clean.

The tool can become very hot during machine operation. Wait for the tool to cool before replacing it.

Never leave the tightening key on the chuck.

Do not add additional accessories for operations for which they are not designed.

Using an inappropriate accessory increases the risk of accidents.

Do not mount anything other than the tool.

Do not use damaged or deformed tools.

Only use tools recommended by SIDAMO.

Workpiece to be drilled

Always ensure that the drill is securely attached to the workpiece before starting work.

Never hold the parts to be drilled by hand.

Ensure that the workpiece is secured on a stable, unobstructed, and well-lit base. If necessary, use clamps or other suitable means to secure the workpiece.



Never place the machine on a workpiece between the electrode and the ground of an arc welder.

Use only one magnetic drill on the workpiece. Using several magnetic drills on the same workpiece may cancel out the magnetic field of the magnets and cause them to release.

Do not use a welding machine or any other device that could overload the same electrical circuit as the machine.

Do not start drilling against the workpiece.

Do not strike the tool against the workpiece to be drilled, but apply gradual pressure.

Use appropriate drilling speeds.

Always wear protective eyewear.

Ensure that no one is in the path of debris and sparks caused by cutting.

Cutting fluid is only intended for use when milling with a pilot drill. When drilling and tapping, cooling with cutting fluid must be done manually. The service life of the tool and performance depend on this.

Always keep the work area clean and uncluttered.

In all cases, remain focused on the task at hand.

It is not advisable to wear gloves during machining. Reserve them for cleaning operations.

For all operations involving a risk of cutting, burning, pinching, snagging, entanglement, or crushing, in particular when loading and unloading parts to be drilled, changing tools, or handling clamps and the part to be drilled, stop the machine and wear protective gloves.

Rushing rarely saves time: the tool heats up, becomes blunt, and needs to be resharpened. The work is poorly done. The risk of accidents is increased.

Wear hearing protection.

Wear respiratory protection to reduce the risk of inhaling hazardous dust.

Keep the fan cover clean and uncovered to ensure the machine operates correctly.

Before changing a part to be drilled, a tool, a speed, and before performing any operation to position or remove waste material, stop the machine.

Disconnect the power supply for any major operation (maintenance, servicing, etc.).

Cleaning

Remove chips regularly, as too many chips can cause dangerous situations.

When cleaning, remove chips that may be sharp and hot while wearing protective goggles and gloves, with the machine turned off, and collect them in bins. Avoid using a blow gun; instead, use a vacuum cleaner, brush, long-handled brush, hook, or magnetic collector.

Do not clean the tool while it is in motion.

Storage

Remove all objects from the drill, clean it carefully, and store it in its plastic case.

Transport and store the machine in its case, in a dry place out of the reach of children.



Accidents are usually the result of:

- Lack of accessories that allow the workpiece to be held correctly.
- Disorder: accessories, if any, are not stored and the operator cannot find them and therefore does not use them.
- Inappropriate or dangerous operating procedures.
- Insufficient training, learning, and/or experience of operators in the use of the machine.
- Absence of protective covers during machine use.
- Ill-fitting clothing, lack of safety glasses for certain tasks.

3.3 OPERATOR PROTECTION



For operator safety, ensure that protective screens and guards are in good condition and in place. Ensure that non-working parts are always covered by a protective guard.

This machine is designed for a single operator.

The operator must wear appropriate personal protective equipment:

- Safety glasses.
- Hearing protection.
- Safety shoes.
- Respiratory protection.

When cleaning the machine or changing tools:

- Safety shoes
- Protective gloves
- Safety glasses

The operator must wear close-fitting clothing and, if necessary, hair coverings for long hair.

The operator must not wear, for example:

- Loose-fitting clothing with wide sleeves.
- Bracelets, watches, wedding rings, jewelry.
- Any other objects that could get caught in the moving parts of the machine.



4 DESCRIPTION AND OPERATION

4.1 INTENDED USE OF THE MACHINE

The PPBM50V magnetic base drill is a mobile drilling unit designed for regular use (3-5 hours/day) for drilling and core drilling operations on steel parts under lubrication.

This machine is designed for drilling with appropriate tools.

Drilling is performed by manually lowering the spindle.

The drill is secured by magnetization to the steel part to be drilled, which must have a minimum thickness of 12 mm to ensure magnetization of the magnetic base.

The manufacturer declines all responsibility in the event of misuse or machining of materials not recommended for the machine.

Under proper conditions of use and maintenance, safe operation and work are guaranteed for several years.

To do this, explore the machine's various functions.

4.2 FEATURES

- Powerful, compact, and lightweight magnetic drill.
- Machine designed for drilling or coring steel.
- Base with strong magnetic attraction of 14,800 N.
- Electronic speed variator.
- Motor with soft start and constant torque.
- Protective screen.
- Spindle with 19 mm Weldon-type mounting.
- Integrated cutting fluid reservoir.
- Lubrication through the center of the tool.
- Spirit level for easy alignment.
- Supplied in a carrying case with:
 - 1x Adapter for drill chuck.
 - 1x 13 mm keyed chuck (key included) for drill bits.
 - 1x Safety strap.
 - 2x Service wrench.
 - 2x 1A fuse.

Capacities (mm)	Cutter	Drill bit (in chuck)	Tap	Stroke of spindle (mm)	Magnetic force (N)	Dimensions Base (L x W x H) (mm)	Speed in load (rpm)	Power engine (kW)	Fuel	Weight (kg)	Dimensions (L x W x H) (mm)
Ø machining max	50	10	-	130	15,600	166 x 80 x 50	100 ~830	1.7	230 V single-phase	11	310 x 180 x 420
Mounting Ø x L max	12 to 50 x 35	10 x 110	-								

4.3 MACHINE DESCRIPTION



1. Spirit level
2. Engine casing
3. Spindle drop arm
4. Spindle
5. Protective screen
6. Magnetic base
7. Fuse
8. "SPEED" potentiometer
9. "MOTOR" switch
10. "MAGNETIC BASE" switch
11. Carrying handle
12. Cutting fluid tap
13. Cutting fluid reservoir

5 INSTALLATION

5.1 PACKAGING

The magnetic drill is packaged in a carrying case for easy handling, transport, and storage.

When unpacking, remove each component of the machine, check its overall condition, and then proceed with assembly.

Check that the machine is clean.

Keep the instruction manual for future reference.

If the product does not appear to be in good condition or if any parts are broken or missing, contact your dealer.



A small moisture-proof bag may be included in the packaging. Keep it out of the reach of children and throw it away.

5.2 HANDLING AND TRANSPORT

Given the weight (11 kg) and dimensions of the machine, it can be handled by one person.

The machine must only be transported in the carrying case to prevent damage.

5.3 INSTALLING THE MACHINE



Installation environment:

- Power supply voltage in accordance with the machine's specifications.
- Ambient temperature between +5°C and +35°C.
- Relative humidity not exceeding 90%.
- Sufficient ventilation at the installation site.
- Work area sufficiently lit for safe working: lighting must be 500 LUX.

This type of machine is placed at the drilling location on the workpiece to be drilled (steel beam, steel plate, IPN, etc.) (chapter 7 "Use").

5.4 ASSEMBLY

A. Cutting fluid reservoir

The drill has a cutting fluid reservoir. Cutting fluid is used for drilling and milling through the center of the tool. The service life of the tool and its performance depend on this, so make sure that this reservoir is not empty while the drill is in use. For optimum results, we recommend using pure machining oil:

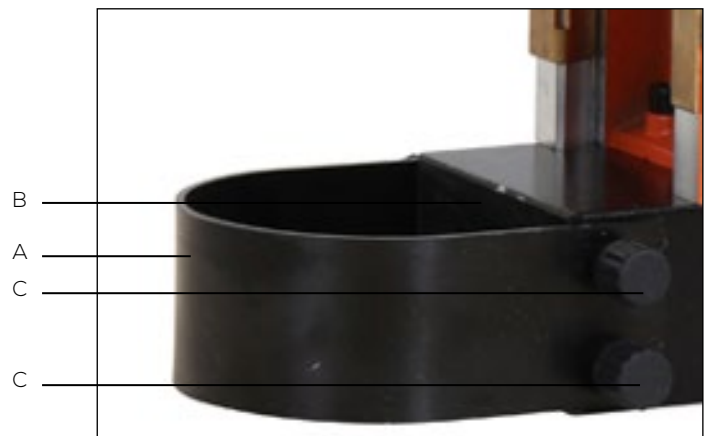
1. Position the reservoir correctly using the pins on the frame.
2. Connect the cutting fluid hose to the left side of the machine, at the spindle.
3. Fill the reservoir with cutting fluid.
4. The flow of cutting fluid can be adjusted using the tap.



B. Protective screen

The drill has a removable protective screen:

1. Align the holes in the protective screen (A) with the threaded holes on the base (B).
2. Tighten the wing screws (C).



C. Safety strap

Attach the safety strap around the drill and to a fixed element of the surrounding structure to prevent the drill from falling. The safety strap prevents the drill from falling in the event of a power failure (as the magnetic base is no longer powered).



Each time you use the drill, attach the safety strap to the drill and to a fixed structure nearby.

5.5 ELECTRICAL CONNECTION



Electrical work must be carried out by qualified personnel authorized to perform low-voltage electrical work.



**Check that the cutting shaft is rotating in the correct direction.
The warranty does not cover damage caused by incorrect connection.**



ELECTRICAL SUPPLY

Ensure that the mains supply voltage corresponds to that of the machine and that the electrical outlet is in good condition and earthed.

Check that the electrical outlet in your installation is compatible with the machine's power cable plug.

The electrical outlet must comply with "EN 60309-1" standards.

Connect the machine using the power cable.

Ensure that the machine switch is in the "0" position.

Check that the electrical installation to which the machine will be connected is properly grounded in accordance with current safety standards.

We remind the user that there must always be a magnetothermal protection device upstream of the electrical installation to protect all conductors against short circuits and overloads.

This protection must always be selected based on the electrical characteristics of the machine, as specified on the nameplate:

- Voltage: 230 V single-phase
- Frequency: 50 Hz
- Current: 7.4 A
- Motor power: 1.7 kW



Do not use a welding machine or any other device that could overload the same electrical line as the machine.



The machine can operate with both water and electricity, so it is important for safety reasons that the ELECTRICAL OUTLET IS EARTHED.



**Use of the machine with a damaged power cord is strictly prohibited.
Regularly check the condition of the power cord, cable gland, and switches.**



**Use a cable reel with a cross-section and length appropriate for the power of the machine, and unroll it completely.
Electrical connections and extension cords must be protected from splashes and kept on dry surfaces.**



For outdoor use, cables and reels are subject to specific standards and approvals. Check these before use.



Do not remove the plug from the electrical outlet by pulling on the power cord; pull only on the plug.



**Check that the pin rotates clockwise.
The warranty does not cover damage caused by improper connection.**

Generator

- Can be connected to a generator, but with caution.



Risk of power loss to the magnetic base.



Must be secured with a strap.

5.6 INITIAL TEST AND INSPECTION BEFORE FIRST USE

- Check that the protective devices are present, intact, and in good working order.
- Check that the moving parts are working properly and that there are no damaged components.
- Check the condition of the tool.
- Check that the drill is in the most correct position possible.
- Check that the machine runs perfectly when idle.
- Check the descent and rotation of the spindle and the operation of the magnetic base magnet.

6 TOOLS



Disconnect the machine from the power supply before performing these operations.



Observe the maximum capacity of the machine.

Use sharp tools. Dull tools can cause breakage, poor drilling, and/or machine overload.



Check that the spindle, accessories, and tools are clean before assembly



The tool may become very hot during machine operation. Wait for the tool to cool before replacing it



Wear protective gloves (risk of puncture, pricking, pinching, or crushing).

6.1 MOUNTING A 19 MM WELDON CUTTER



Never leave the tightening key on the spindle

1. Check that the spindle and cutter shank are clean.
2. Insert the cutter into the spindle.
3. Turn the cutter so that its flat sides are facing the two screws on the spindle.
4. Tighten the spindle screws.



Ensure that the two spindle screws are in contact with the flat surfaces of the cutter and not on the round part of the shank.

6.2 SPIRAL DRILL BIT ASSEMBLY

1. Check that the spindle and drill chuck adapter are clean.
2. Screw the chuck onto the adapter using a wrench.
3. Insert the drill bit into the chuck.



7 USE



Follow the specific safety instructions for magnetic base drills (section 3.2)

Before starting operation, familiarize yourself with the controls



The drill is attached magnetically to the steel workpiece to be drilled, which must be at least 12 mm thick to ensure that the magnetic base adheres properly



Each time the drill is used, attach the safety strap to the drill and to a fixed element of the surrounding structure



During use, there is a risk of sparks or hot metal debris being projected



Do not apply excessive pressure to the tool. Applying high pressure to the tool will not improve machining performance, but will reduce the service life of the tool and the machine



Except in emergencies, do not stop drilling and resume later. Once drilling has started, it must be completed without removing the tool or machine

Wearing appropriate personal protective equipment is mandatory.

Before any maintenance or servicing operation, disconnect the machine.

7.1 CUTTING FLUID

Cutting fluid is used for drilling and milling through the center of the tool. The service life of the tool and performance depend on this, so ensure that the reservoir is not empty while using the drill.

For optimal results, we recommend using full machining oil.

In a horizontal position, make sure the reservoir is positioned correctly with the air hole on the cap at the top to prevent the cutting fluid from leaking.

Ensure that there is sufficient cutting fluid to lubricate the tool generously.
Adjust the flow using the tap located under the reservoir.



7.2 DRILLING WITH A MILLING CUTTER

1. Mount the milling cutter on the machine (section 6.1).
2. Adjust the protective screen.
3. Plug in the drill's power cord.
4. Place the drill on the workpiece to be drilled.
5. Press the magnetic base switch to position "I" to activate the magnetic base.
6. Attach the safety strap to the drill and to a fixed element of the surrounding structure.
7. Select the speed.
8. Press the green motor switch "I" to rotate the spindle.
9. Open the cutting fluid tap.
10. Ensure that sufficient cutting fluid is flowing.
11. Bring the tool close to the workpiece using the spindle descent arms to make its mark.
12. Increase the pressure on the spindle descent arms to obtain a complete chip.
13. Reduce the pressure when the tool exits the workpiece.
14. Retrieve the plug ejected at the end of drilling.
15. Reassemble the tool completely at the end of drilling.
16. Stop the machine by pressing the red "0" motor switch.

Check that the magnetic base is securely attached to the workpiece.



Using a milling cutter creates a "plug" (a piece of material left over from drilling). Make sure you have a way to retrieve the plug, as it can cause injury. Be careful, as the plug ejected at the end of drilling is very hot.

7.3 DRILLING WITH A TWIST DRILL BIT

1. Mount the drill bit on the machine (section 6.2).
2. Adjust the protective screen.
3. Plug in the drill.
4. Place the drill on the workpiece to be drilled.
5. Press the magnetic base switch to position "1" to activate the magnetic base.
6. Attach the safety strap to the drill and to a fixed element of the surrounding structure.
7. Select the speed.
8. Press the green motor switch "1" to rotate the spindle.
9. Open the cutting fluid tap.
10. Ensure that sufficient cutting fluid is flowing.
11. Bring the tool closer to the workpiece using the spindle lowering arms.
12. Increase the pressure on the spindle lowering arms to obtain a full chip.
13. Reduce the pressure when the tool exits the workpiece.
14. Raise the tool completely at the end of drilling.
15. Stop the machine by pressing the red "0" motor switch.

Check that the magnetic base is securely attached to the workpiece.

7.4 OPERATING INCIDENTS

Tool jammed in the workpiece

1. Stop the machine by pressing the red "0" motor switch.
2. Unblock the tool by raising the spindle with the spindle lowering arms.
3. Check the condition of the tool and replace it if necessary.
4. Work by applying more moderate pressure on the spindle lowering arms.



Do not use a tool that is bent, cracked, worn, or damaged.

7.5 TABLE OF FAULTS AND SOLUTIONS

FAULTS	SOLUTIONS
Burnt or smoking tool:	Adjust the spindle speed. If chips are not being removed, frequently remove the drill bit and clean the hole. Sharpen or replace the tool. Lubricate the tool.
Excessive vibrations:	Adjust the carriage clearance. Use a tool that is not bent and is sharp. Secure the tool correctly in the spindle or chuck.
The drill bit remains stuck in the workpiece:	Reduce the downward pressure on the tool. Check the magnetic base's adhesion to the workpiece and clean if necessary.

7.6 TAKING THE MACHINE OUT OF SERVICE

If the magnetic base drill is not to be used for an extended period of time, it is recommended to proceed as follows:

1. Unplug the power cord from the power supply.
2. Remove the tool.
3. Empty the cutting fluid reservoir.
4. Remove the accessories.
5. Clean the machine carefully.
6. Place the machine in its carrying case.
7. Store the machine in a dry place out of the reach of children.

8 MAINTENANCE



**Disconnect the power supply before performing any maintenance or servicing.
Wear gloves and protective eyewear.**



**Do not use a blow gun to remove machining chips.
Do not use aggressive solvents or detergents for cleaning.
Do not immerse the machine in water or wash it with a water jet.**



Chips are often very sharp and very hot. Do not touch them with your bare hands

To maintain the efficiency of the machine and its components, it is necessary to perform maintenance.

The most important maintenance tasks are listed below.

Failure to perform the prescribed tasks will result in premature wear and tear and reduce the machine's performance.

Before performing any maintenance, it is essential to disconnect the machine from the power supply to prevent accidental start-up.



8.1 DAILY MAINTENANCE

- Clean the machine as normal to remove any chips that have accumulated.
- Clean the cutting fluid outlet.
- Check that the motor ventilation grilles are clear.
- Check and fill the cutting fluid reservoir.
- Check that the tool is not worn and/or broken.
- Check that the screen, magnetic base, safety devices, and stop devices are working properly.
- Check the carriage play.

8.2 WEEKLY MAINTENANCE

- Thoroughly clean the machine.
- Clean, oil, and check the spindle and accessories.
- Clean, oil, and check the carriage guides (oil for slides).
- Check the tightness of the screws.
- Check and adjust the carriage play if necessary (section 8.6).

8.3 MONTHLY MAINTENANCE

- Check the motor brushes for wear and replace if necessary (section 8.5).
- Check and replace the power cable if necessary.

8.4 SIX-MONTHLY MAINTENANCE

Test the continuity of the equipotential protection circuit

8.5 REPLACE MOTOR BRUSHES



Always replace carbon brushes in pairs



For a simple check, make sure to replace the motor brushes correctly as originally installed



Do not swap the motor brushes after checking



Replace the motor brushes when a brush has reached a length of less than 6 mm or when a brush has burned out

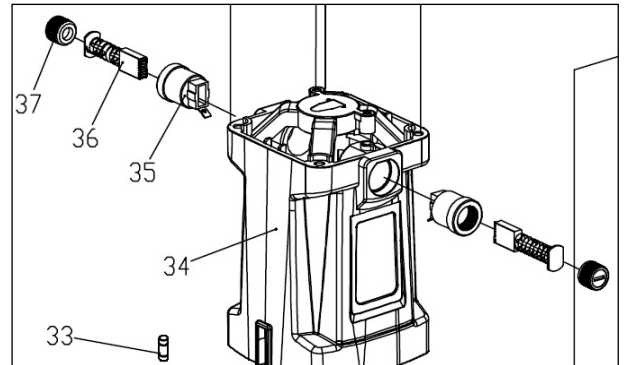
Motor brushes are normal wear parts and must be replaced when they reach their wear limit.

The service life of motor brushes varies depending on the load on the motor and its use.

Check the motor brushes regularly and replace them when they reach their wear limit.

The motor brushes are located on either side of the motor:

1. Disconnect the magnetic drill.
2. Unscrew the carbon brush holder cap (37) located on the motor housing (34).
3. Remove the motor brush (36) from the brush holder (35).
4. Clean the carbon brush holder (35).
5. Insert the new motor brush.
6. Replace the carbon brush holder cap (37) on the motor housing (34).



8.6 ADJUSTING THE CARRIAGE CLEARANCE

The carriage operation can be adjusted using the slides:

1. Loosen the locknuts on the adjustment screws.
2. Tighten the adjustment screws slightly and evenly.
3. Check that the carriage moves freely without play.
4. Tighten the locknuts on the adjustment screws.
5. Check again that the carriage moves freely without play.



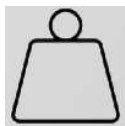
Adjust the carriage slides so that they move freely but without play to ensure safe operation of the machine.

8.7 DESCRIPTION OF PICTOGRAMS USED ON THE MACHINE

A. Nameplate



: Motor specifications: power, voltage, frequency, amperage



: Machine weight



: Rotation speed



: Maximum machinable diameter

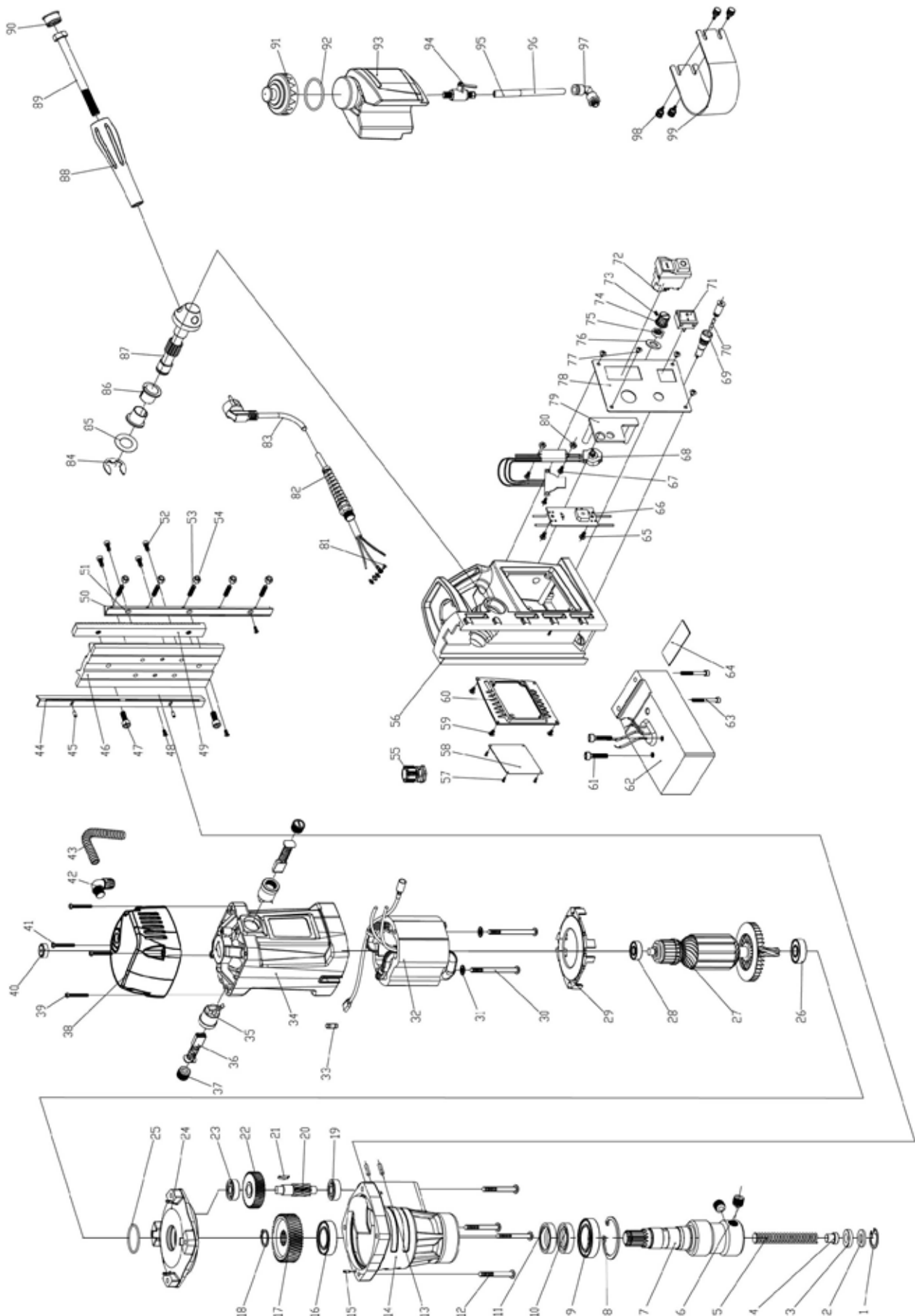


: Magnetic force



: Machine protection rating

9 EXPLODED VIEW



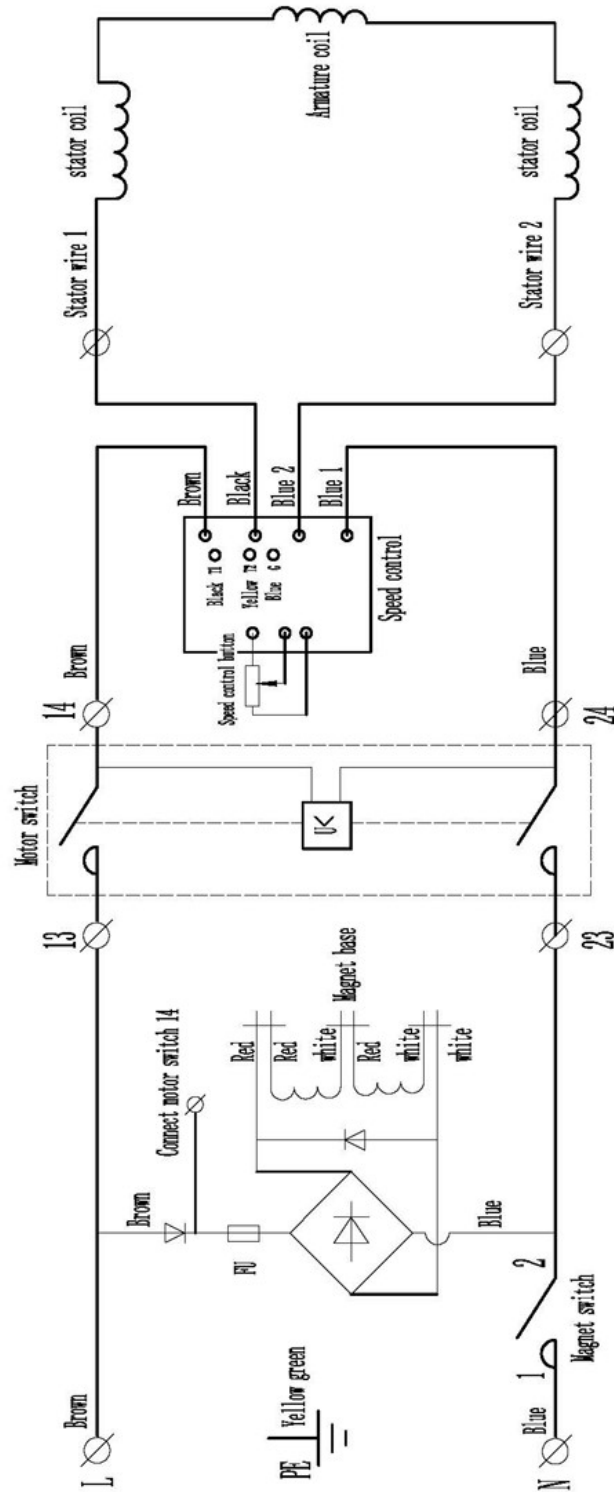
EXPLODED VIEW NOMENCLATURE PPBM50V FRAME (VIEW 01)

Reference	Description	Quantity
1	CIRCLIP Ø19	1
2	WASHER Ø9.4x18.8x2	1
3	GASKET 9.5x19.2x3.8	1
4	SPRING CUSHION 7x10.3x12	1
5	SPRING 1.3x10x90x20	1
6	M10x12 SCREW	2
7	PIN	1
8	CIRCLIP Ø42	1
9	BEARING 6905	1
10	SEAL 22x32x7	1
11	SEALING GASKET 22x32x7	1
12	M5x40 SCREW	4
13	PIN Ø5x15	1
14	SPROCKET COVER	1
15	PIN Ø4x12	1
16	BEARING 6904	1
17	SPROCKET	1
18	CIRCLIP Ø16	1
19	BEARING 608	1
20	PINION SHAFT	1
21	KEY 3x9	1
22	SPROCKET	1
23	BEARING 608	1
24	ROTOR SUPPORT	1
25	SEALING GASKET Ø25.8x18	1
26	BEARING 6000	1
27	STATOR	1
28	BEARING 608	1
29	STATOR SUPPORT	1
30	M4x65 SCREW	2
31	FLAT WASHER M4	2
32	STATOR	1
33	LEVEL BUBBLE Ø8x23	1
34	ENGINE COVER	1
35	COAL HOLDER	2
36	COAL 11x7x16	2
37	COAL HOLDER CAP	2
38	ENGINE COVER	1
39	M5x30 SCREW	4
40	LEVEL BUBBLE Ø14.8x5.6	1
41	M5x45 SCREW	2
42	PIPE CONNECTOR M12x1.5	1
43	HOSE	1
44	GUIDE	1
45	PIN Ø3x8	2
46	CARRIAGE	1
47	M6x16 SCREW	2
48	M3x8 SCREW	3
49	RACK	1
50	ADJUSTMENT GUIDE	1
51	FLAT GUIDE	1
52	M5x20 SCREW	4
53	M5x22 SCREW	5
54	M5 NUT	5
55	M12x1.5 PIPE CONNECTOR	1
56	FRAME	1
57	RIVET	4
58	PLATE	1
59	M3x8 SCREW	4
60	PLATE FRAME	1
61	M6x20 SCREW	2
62	MAGNETIC BASE	1

63	M6x45 SCREW	2
64	SEPARATOR PLATE	1
65	M4x8 SCREW	4
66	ELECTRONIC BOARD	1
67	M4x12 SCREW	2
68	SPEED POTENTIOMETER	1
69	FUSE HOLDER MF-527	1
70	FUSE 5x20-1.0A	1
71	MAGNETIC BASE SWITCH	1
72	KJD17-220V MOTOR SWITCH	1
73	M3x5 SCREW	1
74	SPEED POTENTIOMETER KNOB	1
75	M10 NUT	1
76	FLAT WASHER M10	1
77	M3x6 SCREW	4
78	CONTROL PANEL	1
79	ELECTRONIC BOARD SUPPORT	1
80	M4 NUT	2
81	M4x8 SCREW	1
82	CABLE GLAND M16x1.5	1
83	ELECTRICAL POWER CABLE	1
84	CIRCLIP Ø15	1
85	WASHER 17x30x0.5	1
86	BEARING 25/19x17x15	2
87	CAPSTAN AXLE	1
88	CAPSTANE ARM	3
89	M10x110 SCREW	3
90	CAP FOR CAPSTANE ARM	3
91	CUTTING FLUID RESERVOIR CAP	1
92	SEALING GASKET Ø45x2.65	1
93	CUTTING FLUID RESERVOIR	1
94	VALVE 1/4-Ø6	1
95	SPRING	1
96	HOSE Ø6x4	1
97	HOSE CONNECTOR PL06-M6	1
98	M4x8 SCREW	4
99	PROTECTIVE SCREEN	1

10 ELECTRICAL DIAGRAM

ELECTRICAL DIAGRAM PPBM50V



11 NOISE LEVEL

The noise level emitted by this machine during operation will depend on the type of material being ground and the type of grinding wheel. For this reason, the measurement data is relative.

The risk of hearing damage to the operator depends on the length of exposure to noise.

The operator must wear ear defenders or other appropriate personal protective equipment when the sound power level exceeds 85 dB(A) in the workplace.

- Sound power level:
L_{WA} = 89 dB(A)

The sound power was calculated taking into account factors such as: reverberation at the test site, ground noise absorption, and other factors that may interfere with the measurements. This estimate allows us to state that the degree of error in the values obtained is around 3 dB(A).

The values given are emission levels and not necessarily levels that allow for safe working. Although there are correlations between emission levels and exposure levels, these cannot be used reliably to determine whether additional precautions are necessary. Parameters that influence actual exposure levels include workshop characteristics, other sources of noise, etc., i.e., the number of machines and neighboring manufacturing processes. In addition, permissible exposure levels may vary from country to country. However, this information allows the machine user to make a better risk assessment.



12 VIBRATION LEVEL

The data relating to the vibrations transmitted by this machine during the working process will depend on the type of material being ground and the type of grinding wheel. For this reason, the measurement data is relative.

Exposure to vibrations can have serious consequences for the health of workers. A person exposed daily to high-amplitude vibrations may develop neurological and joint disorders in the long term.

These values must be taken into account when assessing the level of exposure.

Regular and frequent exposure to a highly vibrating work tool exposes workers' hands and arms to chronic disorders known as "vibration syndrome."

- Average hand/arm vibration level:
A(8) = 3.5 m/s²

The exposure level assessment is based on the calculation of the daily exposure value A(8), normalized to a reference period of 8 hours.

Whenever an employee is exposed to A(8) vibrations exceeding the daily exposure level triggering action set at 2.5 m/s², the employer must assess the risks of the task assigned to the employee and implement control measures.

Exposure values for vibrations transmitted to the hand-arm system:

- Daily exposure limit value A(8) = 5 m/s²
- Daily exposure value triggering action A(8) = 2.5 m/s²

13 ENVIRONMENTAL PROTECTION

Your machine contains many recyclable materials.

This logo indicates that used machines must not be mixed with other waste.

This will ensure that the machines are recycled under the best conditions, in accordance with European Directive WEEE 2012/19/EU on waste electrical and electronic equipment.

Contact your local council or dealer to find out where your nearest collection points for used machines are located.

Thank you for your cooperation in protecting the environment.



14 WARRANTY

If the machine is covered by warranty, it must be serviced exclusively by an authorized after-sales service center.

The machine warranty is valid for 2 years from the date of purchase by the user.

This product benefits from an additional 2-year warranty extension, provided that the user registers the product on the PEUGEOT OUTILS PROFESSIONNELS website (www.peugeot.outils-pro.com) within 30 days of the date of purchase. This warranty extension is subject to the same conditions as the initial warranty.

Accessories and consumables are not covered by the warranty.

It is important to keep the invoice, which serves as the warranty certificate.

The warranty is limited to the repair or replacement of defective parts free of charge, after evaluation by the manufacturer.

For any requests for information or spare parts relating to the machine, it is essential to provide the exact information shown on the nameplate.

The warranty does not cover damage caused by the user or by a repairer not approved by Tivoly.



Link to the General Warranty Terms and Conditions:

CE AL DECLARATION OF CONFORMITY "ORIGINAL"

The undersigned (Manufacturer/Importer):

TIVOLY

266 ROUTE PORTES DE TARENTEISE 73790 TOURS-EN-SAVOIE

Declares that the following new machine:

- Designation: MAGNETIC BASE DRILL
- Brand: PEUGEOT PROFESSIONAL TOOLS
- Model: PPBM50V
- Reference: PPM01100002
- Serial number:

Complies with applicable harmonized legislation:

- **Machinery Directive 2006/42/EC (until January 19, 2027)**
- **EU Regulation 2023/1230 (from January 20, 2027)**

Complies with the essential safety requirements applicable to it:

- **Low Voltage Directive 2014/35/EU**
- **Electromagnetic Compatibility Directive 2014/30/EU**
- **WEEE Directive 2012/19/EU**
- **RoHS-2 Directive 2011/65/EU**
- **REACH 1907/2006**
- **Noise Directive 2003/10/EC**
- **Vibration Directive 2002/44/EC**

Done at TOURS-EN-SAVOIE
On

Stéphane Le Mounier
Managing Director



Person authorized to compile the technical file:

- Mr. LE MOUNIER – TIVOLY – 266 ROUTE PORTES DE TARENTEISE 73790 TOURS-EN-SAVOIE

	TIVOLY: Registered office: 266 ROUTE PORTES DE TARENTEISE 73790 TOURS-EN-SAVOIE www.peugeot-outils-pro.com	USER SERVICE Tel: +33(0)4 79 89 59 00
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