



THERMAL DRILL

Model: RACTT50-1
Instruction manual



WARNING: Read the instruction manual thoroughly before use

BUILDER SAS

32, rue Aristide Bergès -ZI 31270 Cugnaux –France

MADE IN PRC 2020



CONTENTS

1. SECURITY INSTRUCTIONS	3
2. YOUR PRODUCT	6
3. FILLING THE FUEL TANK	8
4. USE	9
5. MAINTENANCE AND STORAGE	11
6. DECLARATION OF CONFORMITY	12
7. WARRANTY	13
8. PRODUCT FAILURE	14
9. WARRANTY EXCLUSIONS	15

1. SAFETY INSTRUCTIONS

THIS MACHINE MAY CAUSE SERIOUS INJURIES. Read the instructions carefully for handling, preparing, maintaining, starting and stopping the machine. Learn more about all the controls and proper use of the machine.

- WARNING! When using this type of tool, basic precautions should always be followed to reduce the risk of fire, electric shock and injury.
- Read all instructions carefully before attempting to use this product and retain these instructions. Be familiar with all the operations described in these operating instructions. This product must be operated and operated by experienced users.
- If you are giving this machine to others, please also provide them with this instructions manual.
- Also read all markings on the product. The symbols on the tools are explained in the manual.
- Use this machine as described in this instruction manual. It is strictly forbidden to use this tool for applications other than those described in this manual.
- Failure to follow these instructions can result serious injuries and, in some cases, death.
- This product is intended for private domestic use only. Do not use it for commercial purposes.
- Never let people unfamiliar with these instructions or children use this product.
- National regulations may limit the use of the machine.
- People under the age of 18 must not use this product
- Keep in mind that the operator or user is responsible for accidents or risks to other persons or their property.
- Do not use the tool if you are drunk, tired, under the influence of drugs or ill. Do not use the tool if you are not in an adequate physical condition.
- This tool is intended for outdoor use. Never use it indoors.
- Never allow children use the machine;
- Avoid running it while people, especially children, are around;
- Dress properly! Do not wear loose fitting clothing or jewellery that can be caught in moving parts. Using resistant gloves, non-slip shoes and safety glasses is recommended;
- stop the engine or disconnect it before:
 - o cleaning or clearing a blockage;
 - o checking, maintaining, or working on the machine;
 - o when adjusting the working position of the cutting device.
- Handle fuel with care; it's highly flammable. Never add fuel to a machine with a running engine or when it's hot. Do not inhale fuel fumes as they are toxic;
- Do not attempt to repair the machine unless you are qualified to do so;
- Do not use the machine with a damaged or excessively worn cutting device;
- To reduce the risk of fire, keep the engine and muffler free from debris, leaves or excessive lubricant;
- Always make sure that all handles and guards are installed when operating the machine. Never attempt to use an incomplete machine or a machine equipped with an unauthorized modification
- When transporting or storing the machine, always install the cutting device protection if provided;
- Always be aware of your environment and pay attention to possible dangers that cannot be heard due to the noise of the machine.
- Keep people and animals away from the work area. Children and people who do not know how to use this tool should not touch it and handle it.
- Use the product only under daylight or under good artificial light.
- When using the machine, always wear full protective equipment including a helmet, protective mask, ear protection, gloves, non-slip footwear and protective clothing.
- Wear appropriate clothing. Do not wear loose or unbuttoned shirts. Do not wear jewellery that may come in contact with moving parts. If you have long hair, tie them down and wear an appropriate safety helmet.
- Do not operate the product with damaged guards or shields not in place.

- Keep hands and feet away from the unit at all times, especially when turning the tool off and on.
- Do not use the tool in an area where ventilation is poor. Gas emissions can cause injury.
- Do not work when it rains and in bad weather. Do not use the tool in damp locations.
- Do not use the tool in the presence of flammable liquids or gases.
- Caution: The machine releases gases when it is used. Avoid coming into contact with these gases.
- Keep the work area clear. Before working, inspect the work area and remove any materials or objects that could cause accidents.
- Do not force the tool.
- Keep the tool and drill clean for better and safer performance. Follow the instructions in this manual to lubricate and change the accessories.
- Always inspect the machine before and after operation. If the tool is damaged or faulty, stop using the tool and bring it to an authorized service for inspection and repair.
- Turn off the tool after use, when you leave it unattended, when changing these accessories and before servicing.
- Keep handles dry, clean and free from oil and grease.
- Be concentrated when using the tool. Look at what you do, make sense and do not use the tool when you are tired.
- Place the equipment in a well-lit area on a flat, stable, dry and well-ventilated surface, away from flammable materials and with plenty of space for sparking and sharpening waste.
- Do not allow anyone, especially children, to come within a radius of at least five meters around the work area when all work is in progress.
- Immediately stop the tool in the event of a malfunction of the motor or the ON/OFF button or in case of unusual noise.
- When not in use, the machine must be stored in a dry, locked place out of the reach of children.
- Before using the product and after any shock, please check it for signs of wear or damage. Please carry out repairs if necessary.
- Always switch off the machine:
 - o Every time you leave the device unattended;
 - o Before releasing an obstruction;
 - o before checking, cleaning or working on the product;
 - o after hitting a foreign object;
 - o Every time the product starts to vibrate abnormally.
- Pay attention to foot and cutting injuries.
- Inspect and regularly service the product. Repairs should be carried out only by an authorized service center or a similar qualified specialist.
- When not in use, store the product out of the reach of children.
- Children should not play with plastic bags, sheets and small parts! Keep them out of the reach of children. There is a danger of suffocation!
- Always carry the tool while holding the handle, never the drill.
- Do not use the product on a slippery surface.
- Do not use the product on steep, slippery slopes.
- If the machine has struck foreign objects, check if the tool is damaged and bring it to repair if necessary.
- Keep away all body parts from the running machine
- Be careful when using the machine in stormy weather. Do not use the machine during lightning, thunderstorms and bad weather in general.

Fuel Handling

- Be very careful when handling fuels. They are flammable and the vapours are explosive.
- Use only an approved container.
- Never remove the fuel cap or add fuel while the machine is on. Turn off the unit and allow the engine and exhaust components to cool before refuelling.
- Do not smoke.
- Never refuel inside a room
- Never store the tool and the fuel tray indoors where there is a naked flame, such as near a water heater.
- If fuel has spilled, do not attempt to start the machine, but rather move it away from the spill before starting to use it. Clean any spills.
- Replace and tighten the fuel tank cap after refuelling.
- Follow the instructions in this manual for filling the tool with fuel.

During maintenance and storage

- Stop the tool and wait until it stops. Make sure all moving parts have come to a standstill.
- Allow the machine to cool before performing inspection, adjustments, maintenance, servicing and storage.

Residual risks

Even if you use this product in accordance with all safety requirements, the potential risks of injuries and damage remain. The following hazards might happen within the structure and design of this product:

- **There are adverse health consequences due to the emission of vibrations if the product is used over long periods of time or not managed properly and maintained in a suitable way.**
- **There are risks of injuries and property damage caused by the attachments or broken attachments or sudden impact of hidden objects when using the cutting function.**
- **Risk of damage to persons and property caused by flying objects.**
- **A prolonged use of this product exposes the operator to vibration and may determine the so-called "white finger" disease. To reduce the risk, please wear gloves and keep your hands warm.**
- **If any of the symptoms of the "white finger" syndrome appear, consult a doctor immediately. Symptoms of the "white finger" include: numbness, loss of sensitivity, tickling, tingling, pain, loss of strength, colour changes or skin condition. These symptoms usually appear on fingers, hands or wrists. The risk is higher at low temperatures.**
- **Risk of hearing loss if the machine is used for long periods of time without hearing protection.**

Symbols



Warning symbol



Read the instruction manual



Wear protective equipment: protective helmet, safety glasses, noise protection
helmet



Wear protective gloves



Wear protective foot wear.



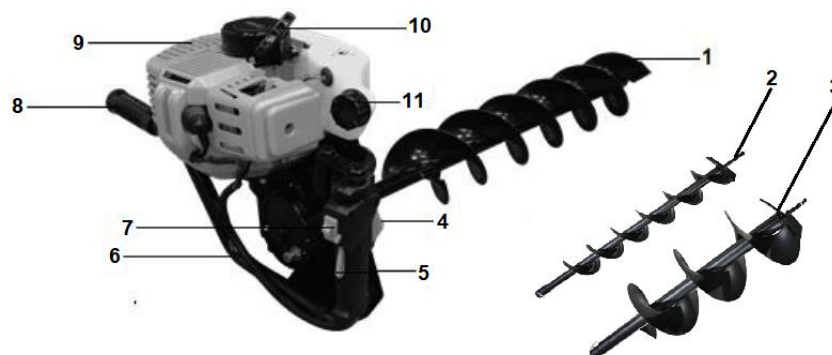
CAUTION : Hot surface



Don't smoke

2. YOUR PRODUCT

a. Description



1. Drill rod
2. Drill rod
3. Drill rod
4. Trigger
5. Safety button
6. Grab handle
7. ON/OFF switch
8. Handle
9. Motor
10. Recoil
11. Fuel tank

b. Technical data

Model	RACTT50-1
Engine capacity	52cm ³
Maximum engine power:	1.45kW 7500/min
Maximum speed of the motor	8500/min
Engaging speed	3800/min
Idle speed:	3000/min
Fuel tank volume	1.2l
Drilling specific diameter	100mm/150mm/200mm
Drilling speed at the maximum speed of the machine	240/min
Fuel consumption at maximum engine power	≥700kg/h
Fuel oil ratio	40:1
Guaranteed sound power	116dB(A)
Sound pressure	<u>Idling speed</u> 68.4dB(A) K= 3dB(A)
	<u>In operation</u> 93.8dB(A) K= 3dB(A)
Sound power	<u>Idling speed</u> 88.4 dB(A) K= 3dB(A)
	<u>In operation</u> 113.8dB(A) K= 3dB(A)
Vibration	<u>Idling speed</u> <u>Main handle</u> 5.948ms ² K=1.5m/s ²
	<u>Auxiliary handle</u> 6.812ms ² K=1.5m/s ²
	<u>In operation</u> <u>Main handle</u> 20.520ms ² K=1.5m/s ²
	<u>Auxiliary handle</u> 20.984ms ² K=1.5m/s ²
Weight	8.4kg

3. FILLING THE FUEL TANK

WARNING: When filling the tank:

- The drill should always be stopped and cooled.
- Never smoke during refueling. It must not have flames or sparks near the fuel.
- Do not attempt to refuel when the engine is hot.
- If fuel has been spilled, immediately stop refueling and do not start the engine. Clean up the spill and fill the machine in another location.
- Never fill the fuel tank to the flange; there is a risk of overflow.
- Do not refuel in a closed and unventilated area.

The fuel used for this tool is a mixture of unleaded gasoline and registered engine lubricant. When mixing gasoline with oil, use only gasoline that does not contain ethanol or methanol. Unleaded gasoline is a quality gasoline type. This will help to avoid damaging the fuel lines of the engine and other engine parts.

The recommended mixing ratio is 40:1 (make sure the mixing ratio is correct before filling the product).

a) Mixing

- Prepare the mixture in a clean and empty container.
- Pour the oil into the container.
- Pour the fuel into the tank. Stir the mixture long enough (more than one minute) to get a proper blending.

b) Filling the fuel tank

- Unscrew the fuel tank cap and remove it.
- Fill the tank slowly with the mixture. Do not exceed the maximum capacity (fill to 80% of its capacity preferably).
- Replace the cap on the fuel tank and tighten it.
- Wipe any spillage around the unit if necessary

Note: To avoid damage and accidents, DO NOT USE OTHER MIXTURES AND OTHER TYPES OF OIL / PETROL

c) Storage of fuel

The fuel must be kept in a clean and safe container and always closed.

If you are not using the product for a long time, remove the fuel mixture and add it to a container.

Do not leave the fuel for a long time in the product. The fuel may clog the carburetor and the engine will not operate properly.

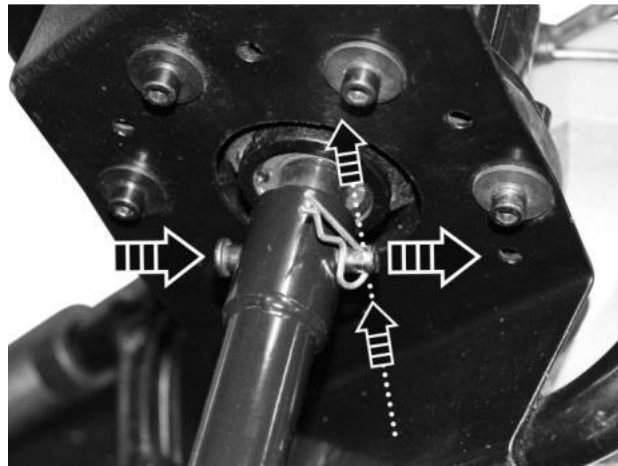
d) Disposal of fuel

When the fuel is no longer used or worn, please dispose of it in an authorized location. Check local laws regarding disposal of fuels.

4. USE

a. Drill rod assembly

- Place the machine body on a flat and stable location
- Remove the clip and pin on the drill rod
- Install the rod and align the holes to be able to connect the two sets
- Put the pin back in place by clipping
- Release the clipping and remove the pin



a. Before use

- Check the condition of the machine, that there is no damage or malfunction. In case of problems, do not use the machine and inspect it.
- Check that the drill rod is properly assembled.
- Check the fuel volume. Always refuel before operating the machine. Never use the machine with little or no fuel.
- Check the workspace; remove all obstacles, materials and objects that could pose danger and cause an accident.
- Secure the workspace by placing markings to alert spectators of existing potential risk.

b. Use

- Hold the drill vertically. Place the rod against the ground.
- Switch on the machine by turning the switch to ON



- Pull the launcher cable to start the machine.



- Hold the drill by grasping the holding handle and main handle
- Gradually increase the speed by pressing and holding the safety switch and then pulling the acceleration trigger. Exert some downward force.



- When the drill rod has penetrated 10 cm into the ground, grasp the frame strongly and increase the effort downwards.
- To drill a deep hole, lower the rod gradually.
- When you have dug the required size, decrease the drilling speed.
- Remove the rod, then stop the machine.
- You can start drilling another hole.
- To stop the machine, release the trigger and turn the switch to OFF. Let the machine stop completely before placing it on the ground.

c. Precautions during the operation

- Spectators (especially children and animals) should remain at least 5 metres away from the workspace. Stop anyone from entering the workspace during the operation.
- When a person comes close, stop the machine to avoid possible injury.
- Pay attention to your work and the environment where you work. Stop the operation immediately when something unexpected happens.
- Avoid working on slopes. If you absolutely have to work on a slope, pay double attention to avoid accidents and injuries.
- Stop the machine when you take a break, change the workplace and leave the machine unattended.
- Never touch the drill rod while operating the machine. Any intervention on the machine should be done with the machine switched off and cooled.
- During the operation, move all parts of the body away from the rod.
- Wait until the machine has stopped completely before placing it on the ground.

d. Jamming and breakdowns

- When the drill gets stuck, release the accelerator to slow down the machine. you have to release the accelerator and turn it back to idle to loosen it.
- In case of failure, stop the machine completely. Check the machine and have it inspected and repaired by a qualified service technician.

5. MAINTENANCE AND STORAGE

A. Maintenance

Service your tool regularly. This shall keep your tool in good working condition and extend its service life.

Do not use abrasive and corrosive agents to clean the tool. These types of products damage your tool.

Do not repair it yourself. Repairs and inspections should be performed by a qualified person or an authorized service centre (please contact your dealer).

a. After each use

Check the rod and tool body (cleanliness, wear, damage, etc.). If you notice damage, wear or malfunction, do not use the tool and submit it to a qualified service for inspection and repair.

b. Air filter

Check the air filter after each use. Remove the cover and clean the air filter and dry. Then put it back in its slot. Change the air filter after each season (or after 50 hours of use).

c. Spark plug

Check, clean and readjust, if necessary, the spark plug every 6 months. In case of replacement, contact the after-sales service.

d. Gear oil injection port

After 30 hours of use change the oil. Remove the valve with a wrench. Drain the oil inside. Add new special oil (gear oil, SAE 85W / 90, 150 ml maximum). Replace the valve.

B. Storage

- Cleaning the machine
- Store the machine in a dry and safe place. It should be out of the reach of children. Place the machine in its packaging to avoid contact with the drill rod.
- When storing for long periods of time, empty the fuel tank completely.

6. DECLARATION OF CONFORMITY CE



Declaration of conformity

BUILDER SAS

ZI, 32 rue Aristide Bergès – 31270 Cugnaux - France

Declares that the machinery designated below:

Thermal drill

Ref: RACTT50-1

Serial number: 20201206495-20201207958

Complies with the provisions of the Directive “ machinery ” 2006/42/EC and national laws transposing it:

Also complies with the provisions of the following European directives:

EMC Directive 2014/30/EU

Emission directive (EU) 2016/1628 & 2018/989/EU

Directive on environmental noise emissions from equipment intended for use outside buildings 2000/14 /EC and 2005/88/EC)

Also complies with European standards, with national standards and the following technical provisions:

EN ISO 12100:2010

PPP 58068A :2013

EN ISO 14982:2009

Cugnaux, 28/09/2020

Philippe MARIE / CEO

7. WARRANTY



WARRANTY

The manufacturer guarantees the product against defects in material and workmanship for a period of 2 years from the date of the original purchase. The warranty only applies if the product is for household use. The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor. The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

The warranty does not cover breakdowns due to:

- insufficient maintenance.
- abnormal assembly, adjustment or operations of the product.
- parts subject to normal wear and tear.

The warranty does not extend to:

- shipping and packaging costs.
- using the tool for a purpose other than that for which it was designed.
- the use and maintenance of the machine done in a manner not described in the user manual.

Due to our policy of continuous product improvement, we reserve the right to alter or change specifications without notice. Consequently, the product may be different from the information contained therein, but a modification will be undertaken without notice if it is recognized as an improvement of the preceding characteristic.

READ THE MANUAL CAREFULLY BEFORE USING THE MACHINE.

When ordering spare parts, please indicate the part number or code, you can find this in the spare parts list in this manual. Keep the purchase receipt; without it, the warranty is invalid. To help you with your product, we invite you to contact us by phone or via our website:

- **+33 (0)9.70.75.30.30**
- **<https://services.swap-europe.com/contact>**

You must create a "ticket" via the web platform.

- Register or create your account.
- Indicate the reference of the tool.
- Choose the subject of your request.
- Describe your problem.
- Attach these files: invoice or sales receipt, photo of the identification plate (serial number), photo of the part you need (for example: pins on the transformer plug which are broken).



8. PRODUCT FAILURE

WHAT TO DO IF MY MACHINE BREAKS DOWN?

If you bought your product in a store:

- a) Empty the fuel tank.
 - b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- Go to the store with the complete machine and with the receipt or invoice.

If you bought your product on a website:

- a) Empty the fuel tank.
- b) Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- c) Create a SWAP-Europe service ticket on the site: <https://services.swap-europe.com> When making the request on SWAP-Europe, you must attach the invoice and the photo of the nameplate (serial number).
- d) Contact the repair station to make sure it is available before dropping off the machine.

Go to the repair station with the complete machine packed, accompanied by the purchase invoice and the station support sheet downloadable after the service request is completed on the SWAP-Europe site

For machines with engine failure from manufacturers BRIGGS & STRATTON, HONDA and RATO, please refer to the following instructions.

Repairs will be done by approved engine manufacturers of these manufacturers, see their site:

- <http://www.briggsandstratton.com/eu/fr>
- <http://www.honda-engines-eu.com/fr/service-network-page;jsessionid=5EE8456CF39CD572AA2AEEDFD290CDAE>
- <https://www.rato-europe.com/it/service-network>

Please keep your original packaging to allow for after-sales service returns or pack your machine with a similar cardboard box of the same dimensions.

For any question concerning our after-sales service you can make a request on our website <https://services.swap-europe.com>

Our hotline remains available at +33 (9) 70 75 30 30.



9. WARRANTY EXCLUSIONS

THE WARRANTY DOES NOT COVER:

- Start-up and setting up of the product.
- Damage resulting from normal wear and tear of the product.
- Damage resulting from improper use of the product.
- Damage resulting from assembly or start-up not in accordance with the user manual.
- Breakdowns related to carburetion beyond 90 days and fouling of carburetors.
- Periodic and standard maintenance events.
- Actions of modification and dismantling that directly void the warranty.
- Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.
- Replacement of consumables.
- The use of non-original parts.
- Breakage of parts following impacts or projections.
- Accessories breakdowns.
- Defects and their consequences linked to any external cause.
- Loss of components and loss due to insufficient screwing.
- Cutting components and any damage related to the loosening of parts.
- Overload or overheating.
- Poor power supply quality: faulty voltage, voltage error, etc.
- Damages resulting from the deprivation of enjoyment of the product during the time necessary for repairs and more generally the costs related to the immobilization of the product.
- The costs of a second opinion established by a third party following an estimate by a SWAP-Europe repair station
- The use of a product which would show a defect or a breakage which was not the subject of an immediate report and/or repair with the services of SWAP-Europe.
- Deterioration linked to transport and storage*.
- Launchers beyond 90 days.
- Oil, petrol, grease.
- Damages related to the use of non-compliant fuels or lubricants.

* In accordance with transport legislation, damage related to transport must be declared to carriers within 48 hours maximum after observation by registered letter with acknowledgement of receipt.

This document is a supplement to your notice, a non-exhaustive list.

Attention: all orders must be checked in the presence of the delivery person. In case of refusal by the delivery person, it you must simply refuse the delivery and notify your refusal.

Reminder: the reserves do not exclude the notification by registered letter with acknowledgement within 72 hours.

Information:

Thermal devices must be wintered each season (service available on the SWAP-Europe site). Batteries must be charged before being stored.