

# What brand name portable drill should you buy between Bosch, Makita and Maktec?

On the market today there are quite a few brands of hand-held drilling machines that make many people feel anxious when making choices. In the following article, we will help you evaluate 3 brands of drilling machines: Bosch, Makita and Maktec. Let's check it out!

Today drillers have become a familiar item for us. In addition to use in carpentry workshops, mechanical workshops, portable drills are also equipped by many families for common repair work.

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## I. Structure and operating principle of portable drill

Hand drill is a device that is quite popular and widely used in construction works, wood and metal processing .

The device is relatively small in size, but has a complex structure and operation. In this section we will provide you with all the information you need, thereby making it easier for you to understand.

### Structure:

1. Body and handle.
2. Power supply for the machine.
3. Engine starter.

4. Brush and brush holders.
5. Large rotor of the motor or rotating motor part.
6. The stator of the engine or the engine part is stationary.
7. Cooling fan.
8. Transmission gears.
9. Drill shaft.
10. Drill head clamps mounted on the drill shaft of the hand drill.
11. Motor shaft bearings.

### **Principle of operation:**

The portable drill has a principle similar to that of other hand-held portable grinders, which operate mainly based on the power supplied to the machine.

When the user starts the portable drill, the machine is being supplied with a power source that can adjust the voltage. However, the main and most important task of this power source is to create a direct current to the brush and indirectly to turn the motor.

This motor will transfer rotation to the drive, which causes the shaft with the drill to rotate and start the drilling process. In addition, the engine indirectly makes the rotary fan help cool the engine, making the engine more durable.

## **II. Which brand name portable drill should you buy between: Bosch, Makita and Maktec?**

### **1. Bosch hand drill**

Bosch is known as a very famous brand of Germany founded in 1886. This is a brand providing the largest automotive equipment in the world. In addition to car equipment, Bosch has always been a leader in the field of handheld devices such as: portable drills, hand-held grinders, electronic welding machines or standing steam irons.



Most of Bosch's products are highly appreciated by consumers in the beautiful design, the luxurious level is extremely good, because most of its products are in high-class products, so the price will be higher than those of other products. others.

All Bosch power tools are tested under the most rigorous conditions such as in rigs, in tunnels through mountains or on open-air tunnels. Therefore, these products are always guaranteed to be durable and meet the highest requirements, as well as ensure safety when using. Convenient products and high safety index, compact, healthy and durable with reliable warranty services.

### **Some of the most popular Bosch portable drill today:**

#### **a. Bosch GSB 550 RE dynamic drill - Reference price: VND 1,320,000**

The machine comes with 100 genuine Bosch accessories such as wood drill bits, wall drill, full-size steel drill, screw drivers, screws with all aspects, hammer, pliers, knife, tape, li- infinity . will meet the needs of the family or the carpenters, house repairers, electricians .

Bosch GSB 550 RE has an anti-slip grip, with electronic speed reversing control function to support drilling and screwing. The dynamic drill is equipped with extra handle and drill depth gauge to assist the drill user more easily.

#### **Specifications:**

1. Warranty: 6 months
2. Brand: Germany
3. Made in China
4. Capacity: 550W
5. Dam speed: 41,800 times / minute

6. No-load speed: 2,800 rpm

**b. Bosch GSB 13 RE power drill - Reference price: 1,590,000 VND**

Bosch GSB 13 RE is a series of powerful and compact dynamic drills in Bosch drilling machines, equipped with powerful motors, which can be drilled on many different materials: wall, concrete, wood .

Bosch wood drills easily switch the driving and drilling modes with switches, as well as the ability to rotate in the direction so that you can perform the screwing tasks conveniently.

The machine is made of high quality material, good anti-shock, anti-slip rubber body, safe during use. Moreover, the drill is also equipped with an extra handle to help users be flexible and easy to manipulate during use.

**Specifications:**

1. Warranty: 6 months
2. Brand: Germany
3. Manufactured in: Malaysia
4. No-load speed: 0 - 2,800 rpm
5. Capacity: 650W
6. Output power: 301W

**2. Makita drilling machine**

Makita is a corporation specializing in industrial equipment and tools from Japan, established in the early days of 1915. Mikita's products are quite popular by users such as: Hand drill, dynamic drill , battery drill .

In the market today, the Makita brand is being evaluated as the biggest and most worthy competitor for the Bosch brand. The common point in Makita handheld drill products is the sharpness of finishing, stable operation and variety of models as well as the price to choose.

Makita drill machine is produced from leading Japanese technology so it works very durable and strong . not hot when drilling long. Comes with great quality is an extremely affordable price. Suitable for the budget of many customers.



Here is a typical product of Makita:

### **Makita HP457DWE hammer drill battery - Reference price: VND 2,490,000**

Makita HP457DWE operates with strong capacity, high applicability in industry, construction, repair, mechanical .

It can be combined with specialized 13mm drill bits for you to drill steel plates, wood or hard materials.

In addition, the machine also has a standard design with a rigid drill with a maximum no-load speed of about 1400 revolutions per minute, helping you get the job done quickly with maximum performance.

#### **Specifications:**

1. Warranty: 6 months
2. Brand: Japan
3. Made in China

### **3. Maktec drilling machine**

In fact, Maktec is a brand belonging to the famous Makita group, but the difference of Maktec is that it only focuses on producing handheld devices.

Since focusing only on handheld products, the quality is highly appreciated, compared to Bosch or Makita, the products of Maktec are no less numerous and gradually selected by many Vietnamese consumers to use.

Some typical products:

#### **a. Maktec MT60 drilling machine - Reference price: VND 550,000**

The Maktec MT60 drill rig has a compact design, light weight of only 1.2kg for long operation without fear of hand fatigue.

Drill body design floating edge helps increase friction when holding drilling operations, the material is definitely durable and good impact resistance, ensuring use.

The product is equipped with a reversing function with switch to keep the machine running continuously, meeting the drilling needs of users. You can adjust the speed of the drill hard or weak depending on the force of the trigger.

#### **Specifications:**

1. Warranty: 6 months
2. Brand: Japan
3. Made in China
4. Capacity: 350W
5. Voltage source: 220V / 50Hz
6. No-load speed: 3,000 rpm

#### **b. High speed drill Maktec MT652 - Reference price: 680,000 VND**

High-speed drill Maktec MT652 possesses compact design, easy-to-handle grip and ergonomic handle. Just installing the appropriate drill head can be used to drill wood and drill steel easily, saving time and effort for users.

The case of the machine is made of synthetic plastic with good strength and anti-deformation when impacted.

Maktec uses 230W capacity, no-load speed up to 4,500 rpm, suitable for many different user needs.

#### **Specifications:**

1. Warranty: 6 months
2. Brand: Japan
3. Made in China

### **III. Note to use the portable drill effectively and safely**

To use the drill efficiently and safely you need to pay attention to the following:

1. Read the user guide carefully, all products when purchased will be accompanied by instructions for use, so the first step is to carefully read the user guide to master the operation of the device.
2. Store the device carefully and keep out of reach of children.
3. Use the drill in a clean, cool environment. Avoid using the drill in wet environments.
4. If working conditions in dangerous places must be supervised.

After this article, surely you will have more information to make the decision to buy a brand drill? Find yourself a prestigious and reliable address.

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