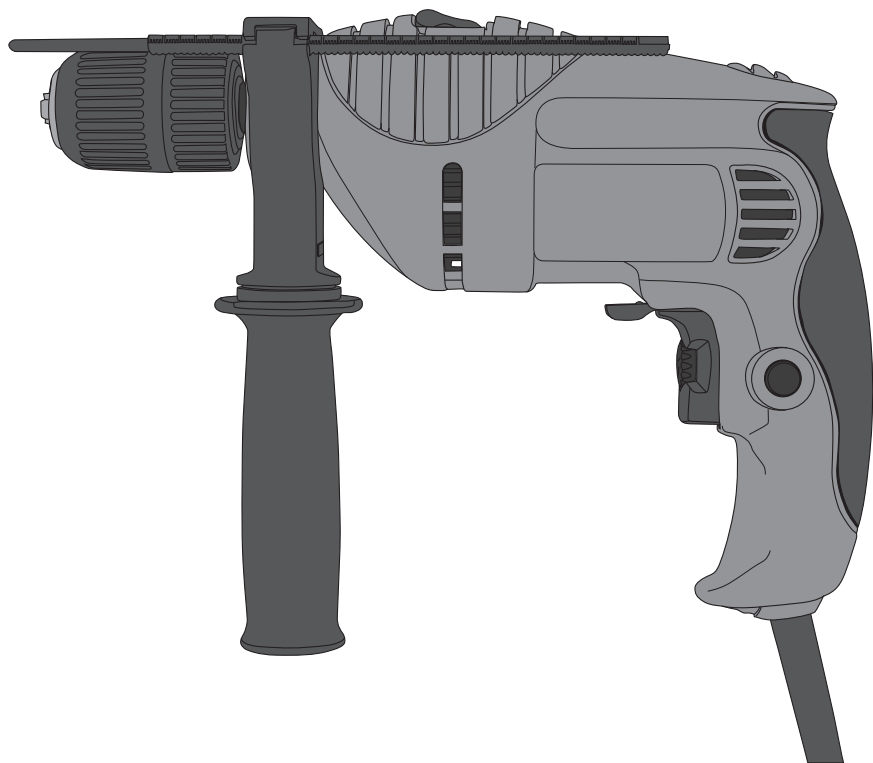


650 W Hammer drill



Art.no
18-3465

Model
Z1J-TD3-13(E)-UK

Ver. 201302

clas ohlson

650 W Hammer Drill

Art.no 18-3465 Model Z1J-TD3-13(E)-UK

Please read the entire instruction manual before use and save it for future reference. We reserve the right for any errors in text or images and for making any necessary technical changes to this document. If you should have any questions concerning technical problems please contact our Customer Services.

Safety

Warning! Read all the instructions. If the instructions below are not followed, there is a risk of electric shock, fire and/or serious injury. The term “power tool” in the warning text below refers to your mains or battery powered hand tool.

Work area

- a) Keep the work area clean and well lit. Accidents are more likely to happen in cluttered and dark areas.
- b) Do not use power tools in explosive environments, for example in the presence of flammable liquids, gases or dust. Power tools generate sparks which may ignite dust or fumes.
- c) Keep children and bystanders away when you are operating the power tool. You may lose control if you are distracted.

Electrical safety

- a) The plug on the power tool must match the wall socket. Never modify the plug in any way. Never use an adapter plug with an earthed power tool. Using unmodified plugs and matching wall sockets reduces the risk of electric shock.
- b) Avoid body contact with earthed objects such as pipes, radiators, cookers or refrigerators. There is an increased risk of electric shock if your body is earthed.
- c) Do not expose the power tool to rain or wet conditions. If water gets into the power tool, the risk of electric shock is increased.
- d) Do not abuse the mains lead. Never use the mains lead to carry or drag the power tool or to unplug it. Keep the mains lead away from heat, oil, sharp edges and moving parts. Damaged or tangled mains leads increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension lead suitable for outdoor use. Using an extension lead suitable for outdoor use reduces the risk of electric shock.
- f) If you need to use a power tool in a humid location, connect the tool to the power supply via a residual current device (RCD). Using an RCD reduces the risk of electric shock.

Personal safety

- a) Stay alert and use common sense when using a power tool. Do not use a power tool if you are tired or under the influence of drugs, alcohol or medication. A moment of inattention when using a power tool may result in serious injury.
- b) Use safety equipment. Always wear safety glasses. Using safety equipment such as a dust mask, non-slip safety shoes, a hard hat and ear protectors reduces the risk of injury.
- c) Avoid starting the tool accidentally. Make sure that the switch is in the OFF position before you plug the tool in. You could cause an accident if you carry a power tool with your finger on the trigger switch or connect a power tool to the power supply when the switch is at ON.
- d) Remove all service tools/keys before you switch on the power tool. A service tool left attached to a rotating part of the power tool may result in injury.
- e) Do not overreach. Keep proper footing and balance at all times. This allows you to have better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loosely-fitting clothes, jewellery or long hair may get trapped in moving parts.
- g) If dust extraction and collection equipment is available, make sure it is connected and properly used. Using such equipment can reduce dust-related hazards.

Using and maintaining the power tool

- a) Do not overload the power tool. Use the correct power tool for the work you are doing. The correct power tool will do the job better and more safely at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. A power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Unplug the power tool before you make any adjustments, change an accessory or put the tool away. These preventive safety measures will reduce the risk of the tool being started accidentally.
- d) Store idle power tools out of the reach of children and do not allow people unfamiliar with the power tool and these instructions to use it. Power tools are dangerous in the hands of inexperienced users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, for broken parts or anything else that may affect the operation of the power tool. If there is any damage it must be repaired before the tool can be used again. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories, etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the type of work to be done. Using the power tool to do work for which it is not intended may result in a hazardous situation.

Special safety rules for hammer drills

- a) Wear ear protectors when working with a hammer drill.
Exposure to noise may damage your hearing.
- b) Use the handles supplied when working with the hammer drill.
Loss of control may result in injury.

Product marking with safety symbols



Read the entire user guide!



Always wear safety glasses/visor and ear protectors.

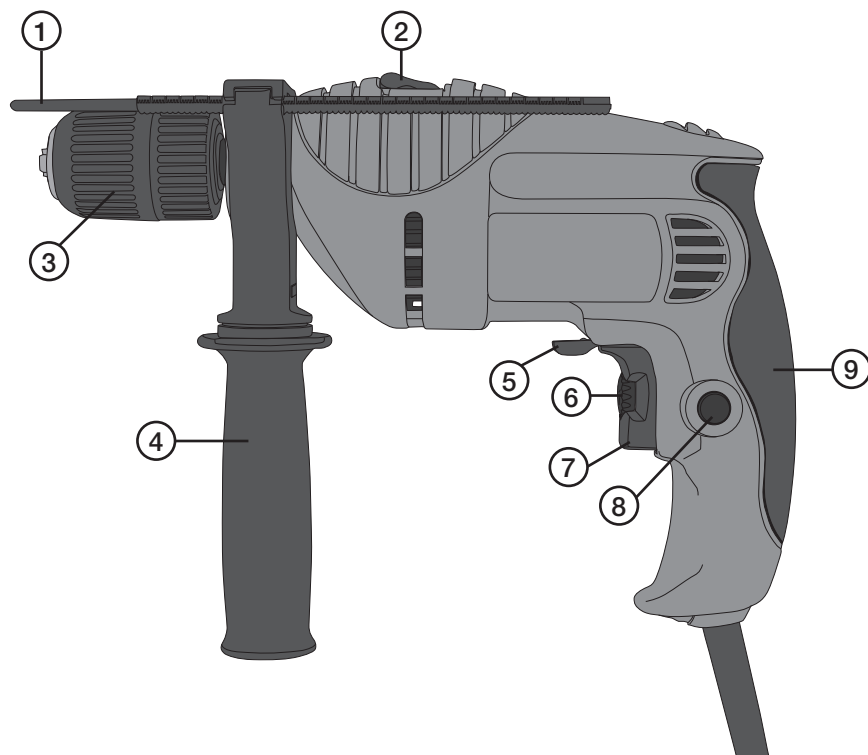
Waste management

Follow local ordinances when disposing of this product. If you are unsure about how to dispose of this product contact your municipality.

Specifications

Mains voltage		230 V AC, 50 Hz	
Power		650 W	
Stepless speed		0–2800 rpm	
Chuck		13 mm	
Drilling capacity	Steel	ø 10 mm	
	Concrete	ø 13 mm	
	Wood	ø 25 mm	
Weight		2 kg	
Noise levels	LwA	96 dB(A)	KwA 3 dB
	LpA	85 dB(A)	KpA 3 dB
Impact Drilling	ah ID	6,83 m/s ²	KID 1,5 m/s ²
	ah D	2,44 m/s ²	KD 1,5 m/s ²

Description of the product

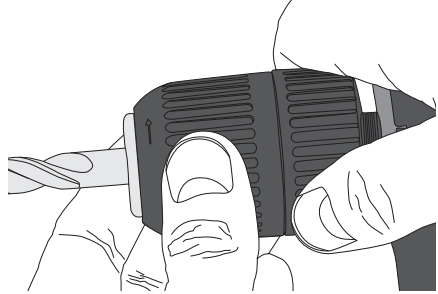


1. Depth stop
2. Hammer/normal drilling control
3. Keyless chuck
4. Side handle
5. Reversing lever
6. Stepless speed control
7. Trigger switch
8. Switch locking button
9. Handle

Use

Chuck

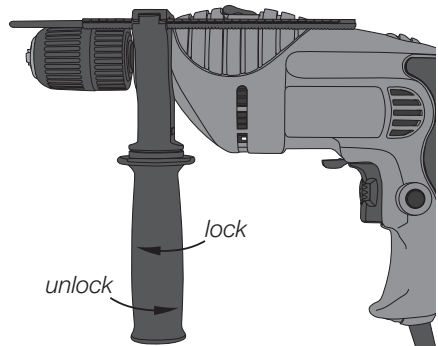
1. The hammer drill is fitted with a keyless chuck (1.5–13 mm).
2. Hold the rear part of the chuck and turn the front part anticlockwise until the opening is big enough to accept the drill bit.
3. Insert a drill bit or another tool.
4. Hold the rear part of the chuck and turn the front part clockwise so that the drill bit is gripped.



Note! Do not attempt to tighten the chuck by holding the outer part of the chuck and starting the drill, as this may result in an accident. Besides, the chuck locks better if you hold the front and rear parts and tighten it by hand.

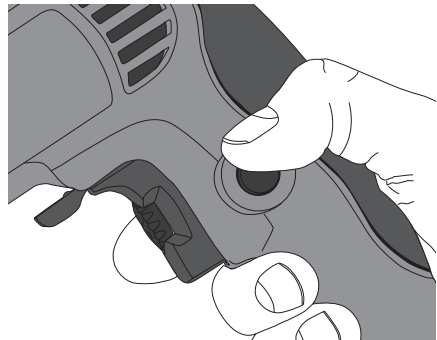
Side handle

1. Turn the side handle (4) anticlockwise to unscrew it.
2. Set the side handle to the position you want and set the depth stop if necessary.
3. Turn the side handle clockwise to lock both the handle and the depth stop.



Trigger switch

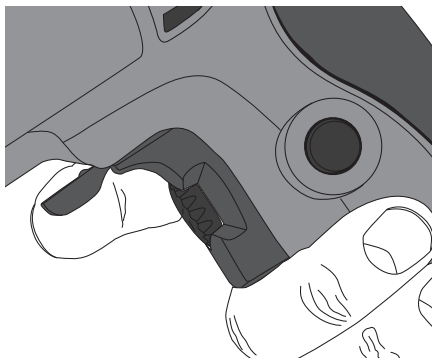
1. Connect the plug to a power socket when you have fitted a tool to the chuck and tightened it.
2. To start the hammer drill, slowly squeeze the trigger switch (7). Check that the tool is rotating in the right direction. To stop the machine, release the trigger switch.
3. When the chuck is rotating you can lock the trigger switch by pressing the locking button (8) and releasing the trigger.
4. To stop the drill, press and release the trigger switch.



Changing the direction of rotation

1. Stop the drill.
2. Turn the reversing lever (5) to the left or right to select the direction of rotation you want.

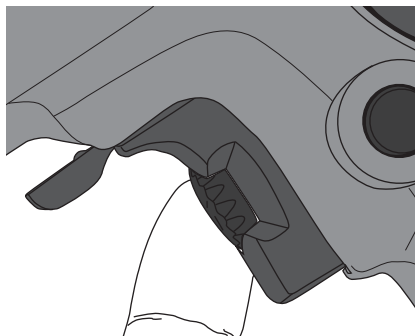
Note! The drill does not work if the reversing lever is in an intermediate position. The lever must be moved all the way in the required direction.



Stepless speed control

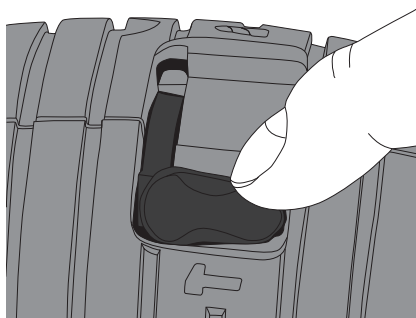
1. Start the hammer drill by pressing the trigger switch (7).
2. Turn the speed control (6) anticlockwise to reduce the speed and clockwise to increase it.
3. The speed control regulates how far in the trigger switch can be squeezed.

Note! Always start at a low speed when drilling without a pilot hole or centre punch dimple. As a rule, use a higher speed with thin drill bits and a lower speed with thick drill bits. Generally, buffing and polishing calls for a high speed.



Hammer or normal drilling

1. Stop the drill completely.
 2. Select the required drilling method with the selector (2). Choose hammer drilling for hard materials (concrete, stone, etc.) and choose normal drilling for steel, aluminium, wood, etc.
- When the hammer symbol can be seen at the selector, the machine is set to operate as a hammer drill.
 - When the drill bit symbol can be seen at the selector, the machine is set to operate as a conventional drill.



Note! Only operate the selector when the chuck is stationary. Make sure that the selector is in the right position. You will hear a click when it is correctly set.

Tip!

- When the drill has been operating under a heavy load, run the motor with no load for a few minutes (until the cooling air from the drill is at room temperature) to cool down the drill.
- Use the side handle to give you extra control while drilling.
- Only use sharp tools.
- Titanium-coated drill bits are used for hard metals and carbide-tipped drill bits are used for concrete/tiles. Check the pack!
- Firmly secure the workpiece to be drilled. Use clamps or a vice where possible. This lets you use both hands to control the drill, giving greater precision.
- If you are drilling thin materials it is important to place a piece of waste material behind the drilling site, otherwise there is a major risk of the hole having rough edges at the back.
- The drill must be perpendicular to the workpiece before you start drilling. Check from several angles. Make sure that you are not pressing at an angle when drilling.
- Do not press too hard, so that the drill slows down. Let the tool do the job! Reduce the pressure before the drill goes through.
- Keep the drill running after you have drilled the hole and pulled back the drill. This cools down the drill motor and clears swarf from the drill bit.

Points to remember when you drill in wood and plastics

- For wood and other softer materials there are several different types of tool, such as hole saws, flat bits, etc. Choose the most suitable tool! Try out the drill bit on a piece of scrap material first.
- The tool may overheat if you do not pull it back frequently to clear swarf.
- Place a piece of scrap material behind the site of the hole before you start drilling, otherwise there is a major risk of the edges of the hole breaking away at the back.

Points to bear in mind when drilling in metal

- Mark the position of the hole and make a dimple with a centre punch.
- The tool may overheat if you use the wrong speed. It is a good idea to use a coolant suitable for your material, eg methylated spirits for aluminium (cast iron and brass must be drilled dry).
- Use the lowest gear and low speed for large holes.
- Take extra care when clamping thin or sharp metal objects so that they do not come loose and cause cut injuries when drilling. Use a vice if possible.

Points to bear in mind when drilling in concrete, tile or brick

- Use carbide-tipped drills!
- Use the hammer drill setting and press carefully, with the same feed rate all the time.
- The drilled-out material is in the form of powder or dust. Use a dust mask.
- Use the hammer drill setting and press carefully, with the same feed rate all the time.
DO NOT use hammer drilling on tiles.

Care and maintenance

- Check before using the drill that all its screws are tight. The machine is subject to severe vibration during hammer drilling.
- Make sure that all the cooling air openings of the machine are clear and open.
- If necessary, clean them with a cloth moistened with a mild detergent.
Never use solvents or strong cleaning agents.
- Keep the user guide together with the hammer drill.

Declaration of Conformity

Försäkran om överrenstämelse

Samsvarerklæring

Vakuutus yhdenmukaisuudesta



CLAS OHLSON AB

SE-793 85 INSJÖN, SWEDEN

Declares that this product complies with the requirements of the following directives and standards

Intygar att denna produkt överensstämmer med kraven i följande direktiv och standarder

Bekrefter at dette produktet er i samsvar med følgende direktiver og standarder

Vakuuttaa, että tämä tuote täyttää seuraavien direktiivien ja standardien vaatimukset

Impact Drill

18-3465

Z1j-TD3-13(E)-UK

**Machinery directive
2006/42/EC**

EN 60745-1:2009
EN 60745-2-1:2010

**EMC directive
2004/108/EC**

EN 55014-1:2006
EN 55014-2:1997
+A1:2001+A2:2008
EN 61000-3-2:2006
EN 61000-3-3:2008

**Low Voltage directive
2006/95/EC**

Klas Balkow
President

Insjön, Sweden, 2011-06-13

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