TOTAL

One-Stop Tools Station

KEYHOLE SAW

TS1141856

1400W

Security instructions

Caution

Read all safety warnings and all instructions. Failure to follow all warnings and instructions can result in electric shock, fire, and / or serious injury.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Note: Save all warnings and instructions for future reference.

1) **Work area safety**
    a. Keep the work area clean and well lit to avoid accidents.
    b. Do not use power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust that can cause fires.
    c. Keep children and other unauthorized persons away while using a power tool. Distractions can cause you to lose control of the tool.

2) **Electrical safety**
    a. Power tool plugs must match the outlet. Never modify the plug in any way. Using a proper plug reduces the risk of electric shock.
    b. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
    c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
    d. Never use the cord to carry, pull, or unplug the power tool. Keep the cord away from heat or oil.
    e. When using a power tool outdoors, use an extension cord suitable for outdoor use.
    f. If it is unavoidable to use the tool in a humid location, use a residual current device (RCD) protected supply to reduce the risk of electric shock.

3) **Personal security**
    a. Always be alert, watch what you are doing, and use common sense when operating the tool.
    b. Do not use a power tool if you are tired or under the influence of drugs or other substances.
    c. Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-slip safety shoes, hard hat, or hearing protection used in the right conditions will reduce personal injury. Also, do not wear loose clothing or jewelry.
    d. Avoid accidentally turning the tool on. Make sure the switch is in the off position before connecting it to the power supply and moving it.
    e. Remove any adjusting key or wrench before turning on the power tool. A wrench or wrench attached to a rotating part of the power tool can cause serious injury.
    f. If dust extraction and collection devices (such as a dust mask) are used, make sure they are connected correctly. Use these devices properly and you will reduce dust hazards.

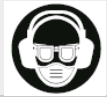
4) Use and care of power tools

a. Do not force the tool. Use the right power tool for each use.
b. Do not use the power tool if its ignition switch does not work. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
c. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool to avoid accidental starting.
d. Use the power tool, accessories and drill bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be carried out. Using the power tool for operations other than those intended could result in a dangerous situation.
e. Store power tools out of the reach of children and do not allow anyone unfamiliar with the tool to use it.
f. Carry out regular maintenance on power tools. Check for misalignment or binding of moving parts, broken parts, and any other conditions that may affect the operation of power tools. If damaged, have power tool repaired before use. Many accidents are caused by poorly maintained power tools.
g. Keep accessories clean and sharp, as with proper maintenance they are less likely to get stuck and are easier to control.

5) Service

a. Have your power tool repaired by a qualified person and use replacement parts recommended by the manufacturer. This will ensure that the safety of the power tool is maintained.

Safety rules for correct use

	Double insulation for additional protection
	Read the instruction manual before use.
	CE conformity.
	Wear safety glasses, hearing protection and a dust mask.
	Waste electrical products must not be disposed of with household waste. Please recycle at the appropriate facilities. Check with your local authority or retailer for recycling advice.
	Security alert. Use only accessories approved by the manufacturer.

Additional safety instructions

Safety instructions for saws

Court procedures

Attention

Keep your hands away from the cutting area and the blade. Keep your second hand on the auxiliary handle or motor housing. If both hands are holding the tool, the blade cannot cut them.

a. Do not reach under the workpiece. The guard cannot protect you from the blade under the workpiece.
b. Adjust the depth of cut to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible under the workpiece.
c. Never hold the workpiece in your hands or on your leg while cutting. Secure the workpiece to a stable platform. It is important to support the work adequately to minimize body exposure, blade or disc binding, or loss of control.
d. Hold the power tool by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wires or its own cord. Contact with a "live" wire will also cause the exposed metal parts of the power tool to be "hot" and could give the operator an electric shock.
e. When ripping, always use a rip fence or straight edge fence. This improves the precision of the cut and reduces the possibility of the blade jamming.
f. Always use discs with the correct size and shape (diamond or round) for the shaft bores. Blades or discs that do not match the saw mounting hardware will be off-center, causing loss of control.
g. Never use damaged or incorrect blade bolts or washers. The blade washers and bolt were specially designed for your saw, for optimum performance and safe operation.
h. When restarting a saw on the workpiece, center the saw blade or disk in the groove so that the saw teeth do not catch on the material. If a saw blade binds, it can move up or back from the workpiece when the saw is restarted.
i. Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Brackets should be positioned under the panel on both sides, close to the cut line and close to the edge of the panel.
j. Do not use dull or damaged blades. Dull or misplaced blades produce a narrow cut that causes excessive friction, blade binding, and kickback.
k. The blade depth and bevel adjustment lock levers must be tight and secure before cutting. If the blade setting shifts during cutting, it can cause binding and kickback.
l. Take special care when cutting existing walls or other blind areas. The protruding blade can cut objects that can cause kickback.

Safety Instructions for Pendulum Guard Saws and Kick Guard Saws

Lower protection function

a. Check that the lower guard is properly closed before each use. Do not use the saw if the lower guard does not move freely and does not close instantly. Never clamp or tie the bottom guard in the open position. If the saw is accidentally dropped, the lower guard may bend. Lift the guard with the retractable handle and make sure it moves freely and does not touch the blade / disc or any other part, at all angles and depths of cut.

b. Check the operation of the lower protection spring. If the guard and spring are not working properly, they must be serviced before use. Bottom guard may be slow due to damaged parts, gummy deposits, or accumulation of debris.
c. The lower guard can be manually retracted only for special cuts such as "plunge cuts" and "compound cuts". Lift the bottom guard by the retractable handle and as soon as the blade enters the material, the bottom guard should release. For all other saws, the lower guard should work automatically.
d. Always observe that the lower guard covers the blade before placing the saw on a bench or on the ground. An unprotected, inertially moving blade will cause the saw to run backward, cutting through whatever it encounters. Note the time it takes for the blade to stop after the switch is released.

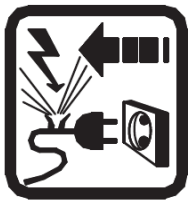
Other risks

Even when the power tool is used as prescribed, it is not possible to eliminate all residual risk factors:

a. Health defects resulting from the emission of vibrations if the power tool is used for a longer period of time or if it is not properly managed and maintained.
b. Injury and property damage from broken accessories suddenly breaking.

Caution

This power tool produces an electromagnetic field during operation. This field can, in some circumstances, interfere with active or passive medical implants.



To reduce the risk of serious injury, we recommend that individuals with medical implants consult their physician before using this power tool.

If the cord is damaged or cut during work, do not touch the cord, immediately unplug the tool. Never use the machine with a damaged cord.

The machine must not be damp and must not be used in a humid environment.

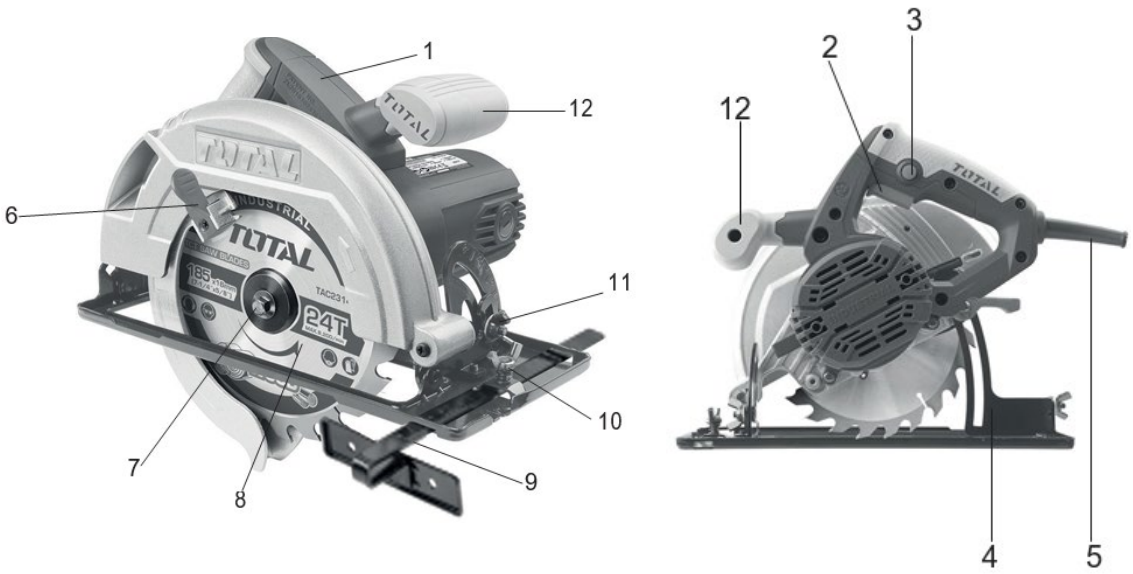
Attention

Safe working with this machine is only possible when the operating or safety information is fully read and the instructions contained therein are strictly followed.

Technical data

Data sheet	
Voltage	220-240V ~ 50 / 60Hz
Power	1400W
No-load speed	4800 / min
45 ° cutting capacity	45 mm
90 ° cutting capacity	65 mm
Disk	185 m
Isolation	II / ⧈

Product description



1. Mango
2. On / Off switch
3. On / Off switch lock button
4. Locking lever for cutting depth adjustment.
5. Cable
6. Disc protector
7. Set screw
8. Disc / saw blade
9. Parallel stop and guide bar
10. Locking screw for guide bar (9)
11. Set screw for miter cuts
12. Auxiliary handle

Note: Not all accessories illustrated or described have to be included in the standard delivery.

Note2: The hand circular saw is designed for straight sawing cuts in wood, wood-like materials and plastics.

Set up

Using the machine

- Always hold the circular saw firmly with both hands.
- The blade guard (6) can be automatically pushed aside by the workpiece.
- Never apply force. Advance the circular saw carefully and steadily.
- The off-cut piece should be to the right of the circular saw so that the wide part of the base plate is resting on its entire surface.
- When cutting along a marked line, guide the circular saw along the corresponding groove.
- Fix small pieces of wood securely before sawing. Never hold them with your hand.

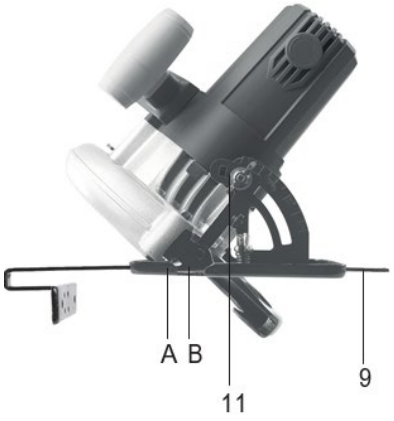
- Always respect the safety regulations and use the appropriate PPE for this type of task, such as protective glasses or gloves, among others.
- Do not use defective saw blades / discs or those with cracks and defects.
- Do not use flanges or flange nuts with a hole that is larger or smaller than that of the saw blade used.
- Do not try to stop the blade by hand or by applying pressure to the side of the blade.
- The blade guard cannot jam and must return to its original position after the job is complete.
- Before plugging in the circular saw, check that the hanging guard is working properly.
- Before each use, always check that safety devices (disc pendant guard, divider, or adjusting devices) are working properly and have been properly adjusted and secured.
- You can connect a suitable dust extractor to the pendant guard. Check that the dust extractor is installed securely and properly.
- The hanging safety disc guard must not engage the blade guard during sawing.

Parallel cuts

Important

Wear earplugs and goggles. First, make a test cut.

- Loosen the locking screw (11).
- For 90 ° cuts: adjust the parallel stop (9) using the scale in slot A.
- For 45 ° cuts: adjust the parallel stop (9) using the scale in slot B.
- Always consider the width of the saw blade / disc.
- Tighten the locking screw (11).

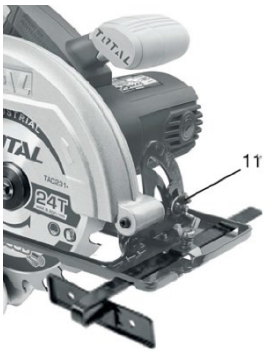


Adjusting the depth of cut

- Release the blade guard or lock lever (4).
- Flip down the cover.
- Adjust the depth of cut using the scale. The teeth of the saw or disc should protrude approx. 2mm from wood
- Push the blade guard or lock lever down.

Cutting angle adjustment

- Loosen locking screw 11
- Set the cutting angle to the desired angle between 0 and 45 °.
- Tighten the locking screw 11.

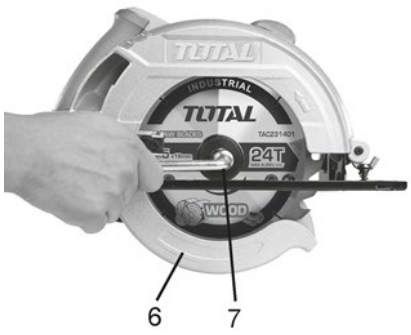


Disc change

Important

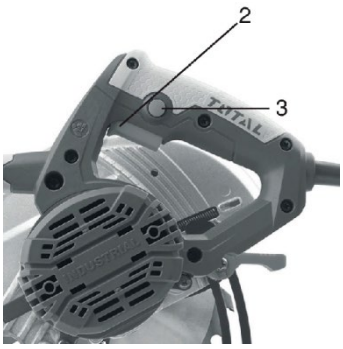
Disconnect the plug before making any changes to the circular saw

- Open the hanging guard (6) and hold it.
- Press the lock button.
- Loosen the screw
- Remove the tab (7) and the disc by dropping it downwards and outwards.
- Clean the flange and insert a new disc. Note the direction of rotation (see arrow on guard).
- Tighten the screw and check the concentricity.



Start up

Before pressing the On / Off switch, check that the blade is properly installed, that the moving parts are free of problems, and that the retaining screws are tight.



On and off

- To turn on: Press the lock button and the switch at the same time.
- To turn off: Release the lock button and the switch.

Maintenance and troubleshooting

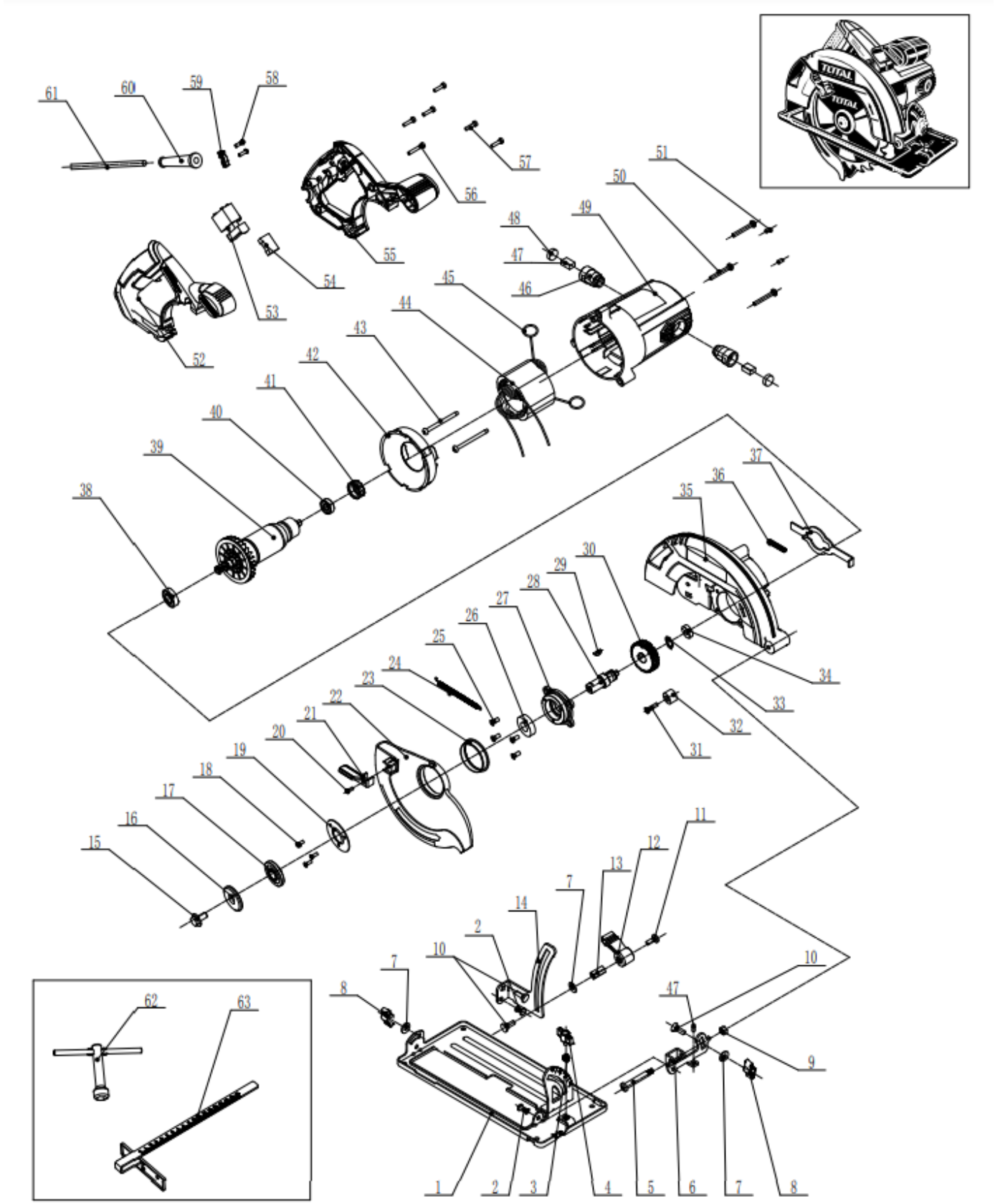
Maintenance

- Keep the vents on the engine cover clean and unobstructed at all times. Blow out dust and dirt at regular intervals.
- Have a specialized workshop check the coals for excessive sparking.
- Worn coals must only be replaced by a specialized workshop or an official dealer.
- Keep the machine clean at all times. Never use caustic products to clean plastic parts.
- If you ever discover damage, refer to the exploded view to determine exactly what replacement parts you need to order from your nearest official dealer.

Environment

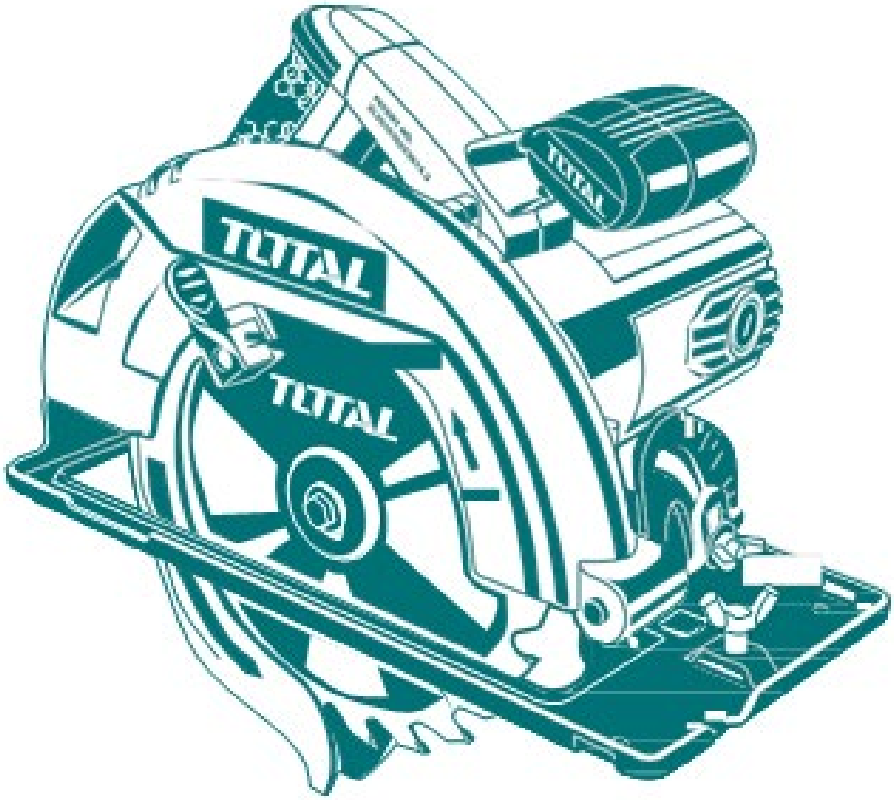
- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact your local authority for information on available collection systems.
- If electrical appliances are disposed of in landfills, hazardous substances can seep into groundwater and enter the food chain, damaging your health and well-being.
- Recycle raw materials instead of disposing of them as waste.
- The machine, accessories and packaging must be classified for environmentally friendly recycling.

Exploded view



TOTAL

One-Stop Tools Station



KEYHOLE SAW

1400W