

Manual





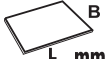




Tile Cutting Machine

Model: TCM250



Tile Cutting Machine

For your safety, please read this manual carefully before operation

Model									
TCM250	230V~,50Hz 1100W,2950rpm	IP54	250x25.4 x2.4mm	L=620mm H=62mm@90° 48mm@45°	810x500mm	90° to 45°	230V~,50HZ 6.5W,IPX8	1140x600 x560mm	48/58kg

Please Read First

Warning!

When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following.

- Read these instructions before attempting to operate this product and save these instructions.
- If you notice transport damage while unpacking, notify your supplier immediately. Do not operate the saw!
- Dispose of the packing in an environmentally friendly manner. Take to a proper collecting point.
- Keep these instructions for reference on any issues you may be uncertain about.

General safety instructions

1. Keep work area clear
 - ☞ Cluttered areas invite injuries.
2. Consider work area environment
 - ☞ Do not expose tools rain.
 - ☞ Do not use tools in damp or wet locations.
 - ☞ Keep work area well lit.
 - ☞ Do not use tools in the presence of flammable liquids of gases.
3. Guard against electric shock
 - ☞ Avoid body contact with earthed or grounded surfaces. (e.g. pipes, radiators, ranges, refrigerators).
4. Keep other persons away
 - ☞ Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.
5. Store idle tools
 - ☞ When not in use, tools should be stored in a dry locked up place. Out of reach of children.
6. Do not force the tool
 - ☞ It will do the job better and safer at the rate for when it was intended.
7. Use the right tool
 - ☞ Do not force small tools to do the job of a heavy duty tool.
 - ☞ Do not use tools for purposes not intended.
8. Dress properly
 - ☞ Do not wear loose clothing or jewellery, they can be caught in moving parts.
 - ☞ Non-skid footwear is recommended.
9. Use protective equipment
 - ☞ Use safety glasses.
 - ☞ Use face or dust mask if working operations create dust.
10. Do not abuse the cord
 - ☞ Never yank the cord to disconnect it from the socket.
 - ☞ Keep the cord away from heat, oil and sharp edges.
11. Do not overreach
 - ☞ Keep proper footing and balance at all times.
12. Maintain tools with care
 - ☞ Keep cutting tools sharp and clean for better and safer performance.
 - ☞ Follow instructions for lubricating and changing accessories.
 - ☞ Inspect tool cords periodically and if damaged have them repaired by an authorized service facility.
 - ☞ Inspect extension cords periodically and replace if damaged.
 - ☞ Keep handles dry, clean and free from oil and grease.
13. Disconnect tools
 - ☞ When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.
14. Remove adjusting keys and wrenches
 - ☞ Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
15. Avoid unintentional starting
 - ☞ Ensure switch is in "off" position when plugging in.
16. Use outdoor extension leads
 - ☞ When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.
17. Stay alert
 - ☞ Watch what you are doing use common sense and do not operate the tool when you are tired.
18. Check damaged parts
 - ☞ Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.
 - ☞ Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.

- ☞ A guard or other part that is damaged should be properly repaired or placed by an authorized service center unless otherwise indicated in this instruction manual.
- ☞ Have defective switches replaced by an authorized service center.
- ☞ Do not use the tool if the switch does not turn it on and off.

Warning!

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- ☞ The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.
- ☞ Use only saw blades for which the maximum possible speed is not less than the maximum spindle speed of the tool and the tool and the material to be cut.
- ☞ When transporting the machine use only transportation devices and do never use guards for handling or transportation.
- ☞ Do not use saw blades which are damaged or deformed.
- ☞ Wear respiratory protection to reduce the risk of inhalation of harmful dust.

20. Have your tool repaired by a qualified person.

- ☞ This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user

UNPACKING



Note:

Make sure all items are accounted for before discarding any packaging material.



Warning!

To avoid injury, if any parts are missing, do not attempt to assemble the machine, do not plug in the power cord, do not turn the switch on until missing parts are obtained and installed correctly.

Installation



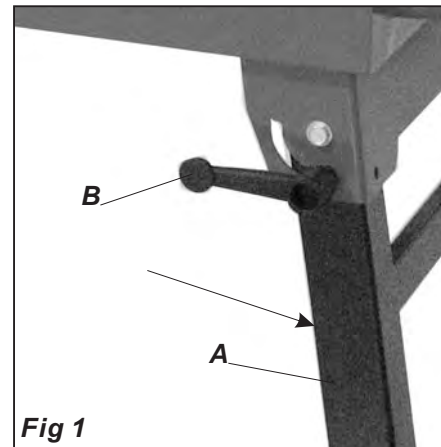
Warning!

Do not lift the saw without help.

The saw is too heavy to lift without help, customers should seek assistance from staff to lift this machine.

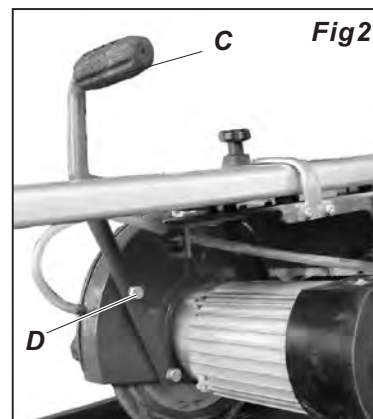
After unpacking, install all the loosen parts on the main body in according to the explosion drawing on the manual. Make sure all the loosen parts correctly installed.

Turn the folding legs(A) out, and lock it in position with ratchet lever (B).



Installing the working handle

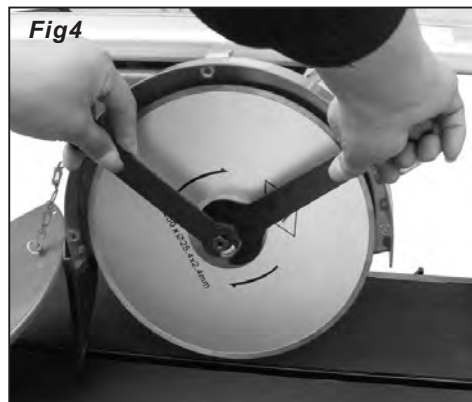
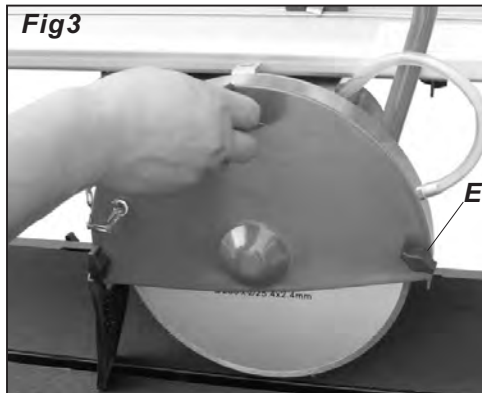
Fit the working handle (C) onto the fixed blade guard and tighten it with 2-M8x30 hex head screws(D).



Replacing the Saw Blade (Disc)

Warning!

Make sure the switch is off, and your saw is unplugged in power supply. Failure to do so could result in serious personal injury.



Remove 3 wing screws (E), and remove the blade guard.

Remove the blade lock nut (**lefthand thread**) with 2 spanners (supplied 30mm & 12mm).

Remove the outer flange and worn blade disc. (carefully)

Place a new blade disc onto the saw arbor shaft, and sure the disc rotation direction must be clockwise.

Place the outer flange and lock nut onto the saw arbor shaft and tighten the blade with 12 & 30mm spanners.

Re-install the blade guards.

Check the space between the blade and blade guards. Keep the blade free from the blade guards. And keep the water tube free from the blade disc.

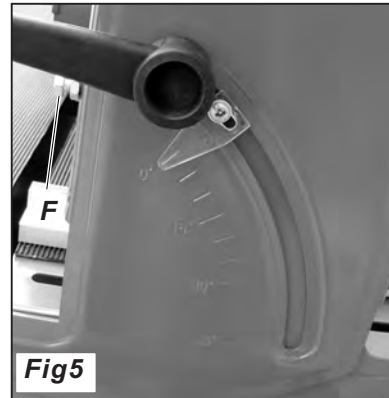
Tighten 3 wing screws on the blade guards, and always have the blade guards installed during operation.

OPERATION

90° Cutting

Fill the tank with water and keep the water pump sunk into water.

Check the angle of saw blade with the work table by a combination square, if the saw blade is not 90° with the work table, loosen the two hex head screws (F) on support bracket to adjust.

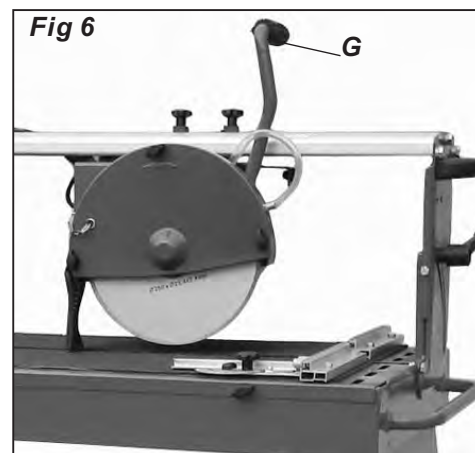


Fix the workpiece on table, the end of workpiece is against the guide bracket.

Plug the power cables for main machine to power supply.

Turn the switch on, check the water supply, if necessary adjust the water-cock on the upper of blade guard. Make sure the water is sprayed on the two sides of saw blade.

Pull the head handle (G) backward to workpiece for cutting.



Bevel cutting

The head assembly can be tilted from 0° to 45° for bevel cutting.

Loosen two ratchet levers (H) on support brackets, turn the head to desired angle. Then re-tighten two ratchet levers.

Then performance the cutting as normal cut.

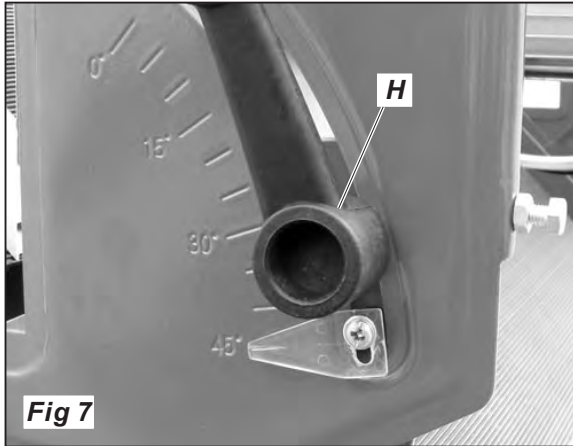


Caution:

Do not over force the workpiece, otherwise may cause the blade disc overheat.

When cut a long or thick workpiece, the blade disc must backward to avoid overheat more-times.

When cutting, must keep the workpiece stably and avoid sliding.



Risk of kickback

Do not attempt to stop the saw blade by pushing the work-piece against its side.

Never cut several work-pieces at the same time and also no bundles containing several individual pieces.

Risk of personal injury

If individual pieces are caught by the saw blade uncontrolled.

Turn off the saw, when you finish one time of cutting.

Make sure the saw is turned off and disconnected from power supply, when you leave the saw.

MAINTENANCE

Before switch on

Visual check if distance blade disc blade guard is 1-2mm.

Visual check of power cable and power cable plug for damage.

Daily

Don't drop the water onto the motor and switch.

Make sure the saw is turned off and disconnected from power supply before clean the saw.

Clean table, tank with brush or soft damp cloth.

Dry the water tank with soft damp cloth or foam after

dairy operation.

Clean the water pump with sprinkler, don't dismantle the water pump.

Monthly

Apply a light coat of oil to guide element: rotating frame, guide rail, up-down thread rail and swivel elements etc.

TROUBLE SHOOTING GUIDE



Warning!

Before carrying out any fault service or maintenance work always:

- Switch machine OFF
- Unplug power cable
- Wait for saw table to come to standstill.

Motor is slow or weak:

Voltage from source is low
Request a voltage check from local power company

Windings are burned out or open.
Have the Motor checked / repaired.

Power Switch is defective.
Have the Power Switch replaced.

Motor overheats:

Motor is overloaded.
Request a voltage check from the local power company.

Dull saw blade.

Replace the saw blade.

The machine is vibrative when cutting:

The direction of saw blade running is anticlockwise
Keep the direction of saw blade running clockwise

The handles for adjusting cutting depth or bevel cutting is loosen
Tighten the handles for adjusting cutting depth or bevel cutting

Bore diameter of saw blade is unmatched with the diameter of motor axis.
Replace the saw blade

Track of blade cutting is deflective :

The saw blade is bent, broken, or dirt
Replace or clean the saw blade

PARTS LIST & DIAGRAM

Part No.	Description	Part No.	Description
1	Rubber feet A	49	Star type knob
2	Rubber feet B	50	Block A
3	Support A	51	Block B
4	Water tank	52	Rotate frame B
5	Ratchet lever	53	Pan head screw M5x20
6	Support B	54	Rotating pointer
7	Washer 8mm	55	Spacer
8	Hex head screw M8x20	56	Guard segment
9	Working table	57	Outer guard
10	Basin Table	58	Blade lock nut M16L
11	Scale rail A	59	Outer flange
12	Scale rail B	60	Blade
13	Scale A	61	Inner flange
14	Scale B	62	Guard
15	Hex head screw M6x25	63	Pan head screw M8x25
16	Washer 6mm	64	Hex head screw M6x14
17	Wing Nut	65	Water protection plate
18	Bolt guide	66	Plate
19	Knurled knob	67	Wing Nut M6
20	Gauge segment	68	Flat washer 5mm
21	Pointer	69	Pan head screw M5x16
22	Washer 4mm	70	Triangle plate
23	Pan head screw M4x8	71	Hex head screw M6x12
24	Miter gauge	72	Push lever
25	collar	73	Hex head screw M8x30
26	Star type knob	74	Water outlet
27	Rotate center pin	75	Motor
28	Rotate frame A	76	Push lever gloves
29	Hex nut M8	77	Spacer
30	Water plug	78	Bearing 6000Z
31	Hex head screw M6x16	79	Rod
32	Hex nut M6	80	Spring
33	Hex head screw M6x20	81	Motor support
34	Holding handle	82	Circle ring 9
35	Hex head screw M8x25	83	Bearing 609Z
36	Spring washer 8mm	84	polar
37	Working head rail	85	Lock nut M8
38	Rail scale	86	Pointer
39	Pan head screw M5x12	87	Washer 6mm
40	Spring washer 5mm	88	Spring washer 6mm
41	Washer 5mm	89	Pan head screw M6x12
42	Bracket chain	90	Switch
43	Chain	91	Thread
44	Sunk head screw M4x8	92	Triangle plate
45	Power cable	93	Lock nut M5
46	Water hose		
47	Cable pump		
48	Water pump		

