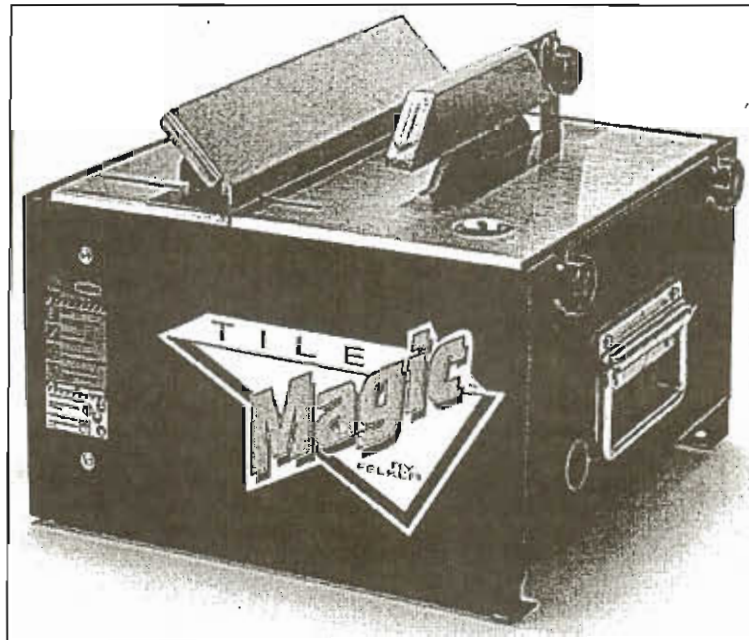


OPERATING INSTRUCTIONS AND PARTS LIST
INSTRUCCIONES DE OPERACIÓN Y LISTA DE PIEZAS



TILE MAGIC

FELKER®

MODEL: TMG-851

17400 West 119th Street
Olathe, Kansas 66061
Customer Service 800-365-4003
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SAFETY FIRST!



WARNING: FAILURE TO COMPLY WITH THESE WARNINGS AND OPERATING INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS BODILY INJURY.

DO

- DO read this entire operator's manual before operating this machine. Understand all warnings, instructions, and controls.
- DO keep all guards in place and in good condition.
- DO wear safety approved hearing, eye, head and respiratory protection.
- DO read and understand all warnings and instructions on the saw.
- DO read and understand the symbol definitions contained in this manual.
- DO keep all parts of your body away from the blade and all other moving parts.
- DO know how to stop the saw quickly in case of emergency.
- DO turn the "ON/OFF" switch to the "OFF" position prior to connecting the machine to the power source.
- DO make sure electric powered saws are plugged into a properly grounded circuit
- DO turn off the motor and disconnect from the power source prior to working on saw.
- DO inspect the blade, flanges and shafts for damage before installing the blade.
- DO use only steel center diamond blades manufactured for use on tile saws.
- DO use only blades marked with a maximum operating speed greater than the blade shaft speed. Verify speed by checking bladeshaft RPM.
- DO read all safety materials and instructions that accompany any blade used with this saw.
- DO inspect each blade carefully before using it. If there are any signs of damage or unusual wear, DO NOT USE THE BLADE.
- DO disconnect the saw from the power source prior to installing, removing or tightening the blade.
- DO mount the blade solidly and firmly, Wrench tighten the arbor nut.
- DO make sure the blade and flanges are clean and free of dirt and debris before mounting the blade on the saw.
- DO use only the blade flanges supplied with the saw. Never use damaged or worn blade flanges.
- DO use the correct blade for the type of work being done. Check with blade manufacturer if you do not know if blade is correct.
- DO use caution and follow the instructions when loading and unloading the saw.
- DO operate this machine only in well ventilated areas.
- DO instruct bystanders on where to stand while the saw is in operation.
- DO establish a training program for all operators of this machine.
- DO clear the work area of unnecessary people. Never allow anyone to stand in front of or behind the blade while the motor is running.
- DO make sure the blade is not contacting anything before starting the motor.
- DO use cautions when lifting and transporting this machine.
- DO clean the water tray frequently.

SAFETY FIRST!



WARNING: FAILURE TO COMPLY WITH THESE WARNINGS AND OPERATING INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS BODILY INJURY.

DO NOT

- DO NOT operate this machine unless you have read and understood this operator's manual.
- DO NOT operate this machine without the blade guard, or other protective guards in place.
- DO NOT stand behind or in front of the blade path while the motor is running.
- DO NOT leave this machine unattended while the motor is running.
- DO NOT work on this machine while the saw is connected to the power source..
- DO NOT operate this machine when you are tired or fatigued.
- DO NOT use a wet blade without adequate water level for the blade.
- DO NOT use carbide tipped blades.
- DO NOT exceed maximum blade speed shown for blade size. Excessive speed could result in blade breakage.
- DO NOT use damaged equipment or blades.
- DO NOT touch or try to stop a moving blade with your hand.
- DO NOT cock, jam, wedge or twist the blade in a cut.
- DO NOT use a blade that has been dropped.
- DO NOT touch a dry cutting diamond blade immediately after use. These blades require several minutes to cool after each cut.
- DO NOT use damaged or worn blade flanges.
- DO NOT allow other persons to be near the machine when starting or when the saw is in operation.
- DO NOT operate this machine in an enclosed area unless it is properly vented.
- DO NOT operate this machine in the vicinity of anything that is flammable. Sparks could cause a fire or an explosion.
- DO NOT operate this machine while using drugs or alcohol.

This saw was designed for certain applications only. DO NOT modify this saw or use for any application other than for which is it was designed. If you have any questions relative to its application, DO NOT use the saw until you have written Diamant Boart, Inc. and we have advised you.

Diamant Boart, Inc.
17400 West 119th Street
Olathe, Kansas 66061
In USA: 1-800-365-4003



MANDATORY



INDICATION
INFORMATION
INSTRUCTION



WARNING



PROHIBITION

These signs will give
advice for your safety.



Before leaving our factory every machine is
thoroughly tested.

Follow our instructions strictly and your machine will
give you long service in normal operating conditions.

1 FEATURES

Use: Water cooled cutting of tile materials.

Blade Capacity: Rim 8" (200 mm) - Bore 5/8" (15.9mm)

Depths of Cut (Maximum): 1" (25mm) @ 90°;
0.7" (17mm) @45°

Cutting Width With Guide At 90°: 6" (15 cm)

Length of Cut: Unlimited

Blade RPM: 3400 (6500 maximum, no load)

Power: 3/4 HP (560W)

F.L. Amps: 9A @ 115V and 4.5A @ 230V

Motor Protection: Thermal overload with manual
reset.

Weight: 35 lbs (16 kg)

Dimensions (L x W x H):

14.5" (37 cm) x 13.5" (34 cm) x 10.25" (26 cm)

Cutting Table: 12" x 13" (31 cm x 33 cm)

Tank Capacity: 1.2 Quarts (1 litre)

Blade Cooling: Partial immersion of blade in water

(For information, contact your Felker supplier)



Before starting up the machine, make sure you
read this entire manual and are familiar with
the operation of this machine.



The working area must be completely clear,
well lit and all safety hazards removed.



The operator must wear
protective clothing
appropriate to the work he
is doing.



Any persons not involved in the work should
leave the area.



Use only blades marked with a maximum
operating speed greater than the blade shaft
speed.

2 MACHINE SET-UP PROCEDURES

Your Tile Magic™ tile saw is factory assembled prior to
shipment to ensure accurate cuts when the saw is
delivered. However, since FELKER cannot control
rough handling during shipping, it is suggested that the
following procedures be followed:

- Remove the saw from the shipping carton
- Check the carton and all packing filler for any loose parts.

3 MOUNTING THE BLADE

- Disconnect the saw from power source.
- Remove the splash guard (Item 16) by loosening the knob (Item 18) and sliding the guard up and off.
- Loosen the two table locking knobs (Item 24), then remove the table assembly (Item 19).
- Before mounting the diamond blade, verify that the flanges (Item 11) are free from dirt and grease.



IMPORTANT: Make sure the blade is properly
installed. Failure to do so will result in
damage to the blade.

- Install the blade for counterclockwise (CCW) rotation. Check the blade for the direction arrow.
- With the blade properly seated and pushed against the inner flange, install the outer flange and tighten with a wrench. Never hand tighten!
- To reassemble, simply reverse the steps 2 and 3 above.

4 OPERATING PROCEDURE

- Fill the tank with clean water through the hole in the cutting table. Check the water level through the overflow hole in the tank side.
- During the operation, set the blade guard as close to the material as possible in order to avoid water splash.
- Plug the power cord into the proper current outlet using as short of a cord as needed to avoid unnecessary voltage drop. No. 16 gauge or larger is recommended.



WARNING: Keep the water clean and make
certain the water level is up to the overflow
hole.

NOTE: Follow the blade manufacturer's recommendations for dry or wet cutting. Only blades specifically designed for dry cutting can be run without coolant. Wet cutting blades can be damaged or destroyed without sufficient water.

5 MAKING STRAIGHT CUTS

1. Loosen the knobs (item 26) and position the rip guide (item 25) at the distance required. Use the scale on the front. Retighten the knobs.
2. Position the tile and push it into the cutting blade while holding it firmly against the guide in order to ensure a good, clean cut.
3. Pass the material slowly under the splash guard into the blade, without overly forcing it. This will enhance the diamond blade lifetime and prevent overheating the motor. Lighten the cutting pressure when approaching the end of the cut in order to prevent the tile from splitting.
4. The new blade needs a chance to "break-in" or "wear-in" slightly for best cutting. This may take several cuts. If the blade closes up or "glazes over", it can be opened back up with a conditioning stone.

6 MAKING BEVEL CUTS

1. Use the same procedure as for straight cuts, except position the rip guide about 5/8" back from the blade.

7 MAINTENANCE PROCEDURES

1. Unplug the tile saw before performing any maintenance.
2. Keep the table top clean and free of cuttings. Flush with water.
3. Drain, clean and refill the tank frequently. flush with plenty of water, then drain and refill the tank with clean water.
4. It is necessary to clean the machine after each day's use. Clean out the tank and drain the water.
5. Store your machine in a dry place.

8 THERMAL PROTECTOR - MANUAL RESET OPERATION

The motor has a manual reset thermal protector (Item 37). If the motor overheats, the red button "pops out" to open the motor circuit. If this occurs, turn the motor "ON-OFF" switch to "OFF" and after the motor cools, push in the red button. When the button stays in, the motor can be restarted.

9 REPAIRS

We carry out all repairs in the shortest possible time and at the most economical prices. (See front page for address and phone numbers) Contact your authorized Felker® dealer concerning maintenance and repairs.

10 SPARE PARTS

For quick supply of spare parts and to avoid any lost time, it is essential to quote the data on the manufacturers plate fixed to the machine and the part number(s) and description to be replaced with every order.

The instructions for use and spare parts found in this document are for information only and are not binding. As part of our product quality improvement policy, we reserve the right to make any and all technical modifications without prior notice.