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dal<sup>1</sup>tool<sup>1</sup>



**1460 BrS**

9999 539491

**INSTRUCTION MANUAL**



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## 1. TECHNICAL DATA

Type .....	daltile 1460 BrS
Capacity.....	3,0 HP
Blade diameter/hole .....	14" / 1"
Saw height .....	max. 4"
Saw spindle speed .....	3.360 RPM
Sawing length.....	60"
Saw table dimensions .....	59" x 25"
Length.....	85"
Width.....	25 1/2"
Height (without legs) .....	39 3/4"
Weight.....	300 lbs
Noise level.....	87 dB (A)
Noise level during sawing .....	96 dB (A)



Carefully read the *Instruction Manual* and the *Safety Instructions* before connecting the machine to the power supply and start using it.

## 2. INTRODUCTION

This sawing machine is designed and intended for the professional contractor. The machine is equipped with a height adjustable saw head which moves horizontally along a guiding beam. The material to be cut is positioned on the saw table. The saw must be fed through the material. Through continuous supply of cooling water the cutting quality is improved as well as the wear on the saw blade is minimized. The cooling water also absorbs the saw dust.



The quality and construction of this sawing machine meet the highest standards. The design is based on longevity and minimal maintenance.

## 3. SAFETY REGULATIONS

1. The sawing machine is only to be used for sawing tiles, concrete products and natural stone.
2. Only saw blades advised by the manufacturer should be used.
3. Check the following before you start sawing:
  - the machine should be positioned on a stable, flat and horizontal base,
  - the saw blade must be correctly mounted, (direction of rotation and centred correctly)
  - the condition of the saw blade,
  - correct fixing of the saw cover,
  - sufficient supply of clean cooling water.
4. During sawing the material to be cut should not be tilted or moved.
5. During sawing with this sawing machine the max. sound pressure level is exceeded.



*Because the max. sound pressure level is exceeded during operation wearing hearing protection is mandatory.*

6. The safety label on the machine should never be removed.
7. In addition to the above mentioned safety regulations the user should pay attention to the following items:
  - Read the instructions for setting up and using the machine carefully.
  - Check that the power cord is correctly connected to the power supply.
  - Electrical cables may not come in contact with water or spray water.
  - Damaged saw blades should be replaced immediately.

## 4. ELECTRICITY AND SAFETY



### **ATTENTION!**

#### ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS:

In order to prevent potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided if it will not fit the outlet; have the proper outlet installed by a qualified electrician.
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock.
- The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- Replace a damaged cord immediately.

This tool is intended for use on a circuit that has an 3-pole outlet. The tool has a grounding 3-pole plug. To reduce the risk of electrocution, keep all connections dry and off the ground.

A Ground Fault Circuit Interrupter (GFCI) should



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be provided on the circuit(s) or outlet(s) to be used for the Saw. Receptacles are available having built-in GFCI protections and may be used for this measure of safety. On construction sites electrical appliances should be connected to specially designed power supplies. Suitable are grounded main power supplies equipped with an earthleak switch of max. 30mA or separating transformers.

**NON-GROUNDED COMMON HOUSEHOLD OR SIMILAR POWER OUTLETS ARE NOT SUITED AS A POWER SOURCE.**

## **5. CHARACTERISTICS**

### **Machine construction**

The stainless steel construction contributes to a stable, rigid and durable sawing machine. The detachable legs are to be installed in the leg sockets at the underside of the water container and fastened with the knobs.

### **Saw head**



The saw head is constructed of welded steel components. The height adjustment of the saw head is kept in balance by a spring. Two handles secure the saw head at the desired height.

### **Saw cover**

The saw cover is a welded steel plate cap, simple to remove and install for changing the saw blade by unscrewing 2 knobs.

### **Saw spindle**

The motor flange is mounted on the saw spindle. The saw flange is to be mounted on the saw spindle with a hexagon nut to clamp the saw blade. (Attention: Left-handed screw thread)



### **Saw table**

The saw table is constructed of welded stainless steel components, equipped with anti-slip rubber and adjustable side stop.

### **Cooling system**

The electrical water pump is switched on simultaneously with the saw motor and supplies cooling water to both sides of the saw blade. A drain hole, with a plug, is located in the water container. The mud flaps prevent most of the water mist and make sure most water flows back in the water container.

## 6. UNPACKING AND SET UP

### Setting up

- Unpack the sawing machine and inspect for any damaged parts.
- Install the legs in the sockets at the underside of the water container and fasten with the knobs. Markings show the right position.
- Level the sawing machine by adjusting the legs in the sockets and make sure its stable.

### Saw head

- Unscrew the transportation lock.



- By loosening the two handles the saw head can be positioned at the desired height.



### **ATTENTION!**

*The saw head is tightened by a spring and may accidentally jump up when the handles are loosened.*

- For 45° Miter sawing the upper frame with the saw head can be tilted at a 45° angle. By loosening the 2 handles at the front and back of the machine, the upper frame can be tilted until the end of the factory predefined 45° angle.



### Cooling system



### **ATTENTION!**

*Operating the water pump without a sufficient supply of water may result in pump damage.*

- Place the plug in the drain of the water container.
- Fill up the container with water until the water pump is completely submerged.



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## **Connecting to power supply**

First, check whether:

- the line voltage corresponds with the data on the machine's specifications plate,
- there is a grounded power supply,
- the extension cord's gage is AWG14.

## **Motor protection**

The motor is equipped with a thermal safety switch for protection against an overload. When the motor gets overheated the switch falls back into its initial position and can only be switched on again after the motor is cooled down. The switch is also protecting against power failure. When the power returns, the motor will not start on its own but must be switched on by hand.

## **Installing the saw blade**



### **WARNING!**

*Make sure you disconnect the machine from the power supply before fitting or switching the saw blade or when performing any maintenance on the machine.*

- Remove saw cover.



- Block the sawing spindle with the 8 mm. Allen wrench.
- Unscrew the 30 mm. hexagon nut with the wrench and remove the saw flange. (Attention: Left-handed screw thread)
- Clean the saw flanges.
- Fit the saw blade on the centre ring of the motor flange. (Check the direction of rotation and make sure the blade is well centred)
- Mount saw flange and tighten with the hexagon nut. Place saw cover and tighten with the 2 knobs.

## 7. VARIOUS SAWING PROCESSES

### One-step sawing

(Use only original saw blades as advised by the manufacturer)

- Move saw head down until the saw is approx. 3/8" below the saw table.
- Secure saw head with the knob.
- Place the material to be cut on the sawing table and position against the fixed stop and eventually the adjustable stop.
- Hold material to be cut with one hand while making sure your hand is not to close to the saw blade.
- Pull the saw head with medium force with the other hand through the material.

### Multiple-step sawing

During this sawing process the saw is positioned at the desired height and moved back and forth through the material to be cut until after a number of steps it is completely cut through.

- Place the material to be cut on the sawing table and position against the fixed stop and eventually the adjustable stop.
- Position the saw head at the desired height
- Hold material to be cut with one hand while making sure your hand is not to close to the saw blade.
- Switch the machine on and pull the saw head with medium force with the other hand through the material.

## 8. SAFETY

In addition to the valid safety regulations attention to the following items should be made:

- Carefully follow the directions of setting up and working with the sawing machine.
- Carefully check that the electrical connections are correct.
- Electrical cables should not come in contact with water or water spray.
- Damaged saw blades should be replaced immediately.
- Secure material to be cut by hand during sawing.
- Make sure your hands stay away as far as possible from the rotating saw blade.
- Wear protective goggles during sawing.
- Wear hearing protection during sawing.



## 9. MAINTENANCE

- The cooling water should be replaced and/or replenished regularly.
- It is recommended to clean the water container, pump, hoses and spray nozzle on a regular basis. For example, place the pump in a bucket of clean water after the sawing job and run the machine for a minute or so. This also guarantees a longer lifetime of the pump.
- When the machine is not used for a longer period of time, the pump should not remain in the muddy cooling water. It is better to clean the pump as described above and leave it outside the water container
- Regularly check the saw flanges for wearing out and replace if necessary.



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## 10. SPARE PARTS

POS. #	ITEM NR.	DESCRIPTION
01	6.516.010	MOTOR
02	6.513.215	CAPACITOR
03	6.509.010	ADJUSTABLE HANDLE
04	6.509.090	HANDLE
05	6.005.792	KNOB
06	6.509.053	HANDLE
07	6.516.012	MOTOR FLANGE
08	6.516.011	SAW FLANGE
09	6.516.013	FLANGE NUT
10	6.513.295	PUMP
11	4.800.080	GUIDING ROL
12	6.504.117	BALL BEARING
13	6.504.170	BALL BEARING
14	6.509.095	HANDLE
15	6.513.210	THERMAL PROTECTION
16	6.513.222	SWITCH

