

K SAW – ELECTRIC

Operating Instructions

Introduction

1. The K Saw is manufactured to the highest standards of strength for medium to heavy duty operations.
2. This machine is powered by a 2.4kw CMG electric motor.
3. The parts of which machine consists are kept to a minimum and standardised. This allows easy maintenance. Frame, cutting head and conveyor cart are aligned by Kaladari Industries. Misalignment can occur through handling damage or moving saw. This will dramatically shorten blade life.
4. Cutting head is positioned at required cutting depth by pivot point bearings with a locking lever.
5. Full power transmission by dual belt drive.
6. Mitre guide on conveyor cart allows highly accurate repeat cutting.

TO OPERATE THE K SAW – ELECTRIC

To fit legs

1. Place machine on ground.
2. Elevate operator's end of machine and fit one set of legs into front sockets. Secure with locking screws.
3. Raise other end using rear handle and fit pair of legs and secure.
4. Legs are adjustable to compensate for slightly uneven surfaces.

Connecting water

1. Attach water hose to the top of the blade guard (Part no.). If mains water is available, disconnect water pump drive belt and hose and connect water supply to water stop cock for a clean supply of water. Check water flow at regular intervals in case mains supply has been interrupted and tray is not choked with sediment.
2. If using pump (located in a baffled area behind tray and driven by a flexible shaft and belt from engine pulley), ensure reservoir pan is filled to within 1" (25mm) of top and the water pump inlet is always fully immersed in water. Water is recycled via the tray which acts as a reservoir. Pump intake is to be kept free of accumulated sludge and any other foreign material.
3. Drive belt can be removed to reduce wear if extended use is required.

Table rollers

1. Rollers should be aligned on both rails and table should be able to move freely.

Blades and blade setting

1. Blade should be mounted solidly and firmly to prevent pounding which can seriously damage blade.
2. Always check blade depth before commencing work so that table does not come into contact with table.
3. Blade cutting height can be set by locking hand knob on to arm fitted to left side of machine. Release and lock the hand knob for blade height.

4. Keep wet cutting diamond blades cool whilst cutting. Blade slots allow for thermal expansion, blade flexing under pressure and allows water to pass through which will cool blades, remove cuttings and dust.
5. **IMPORTANT!** Keep an adequate flow of water on both sides of blade. A blade that is allowed to become dry even for a short time may become damaged or ruined. Too little water is evident when steam is seen rising from cutting area.
6. Diamond blades are easily damaged, so ensure they are adequately protected if being transported.
7. If diamond blade is chipped or missing segments, return to Kaladari Industries for repair/replacement. Always inspect blades regularly.
8. This machine takes 350mm (14") diamond blades which will provide 110mm cutting depths.
9. If in doubt, contact Kaladari Industries for correct selection of diamond blades.

To operate machine

1. Before turning on machine, material to be cut should rest securely on table up against fence or adjustable work guide.
2. Water supply should be connected (see section on **connecting water** above) and pump drive connected.
3. Switch on electric motor by turning button on the motor to 'ON'. Single-phase motor has a thermal overload protection device located under switch. In the event that motor stops, turn machine to OFF position, try to rectify problem, allow motor to cool and then press re-set button. If motor does not restart, check power supply, fuses/circuit breakers and leads.
4. Push the conveyor cart with cutting piece gently towards the blade. Do not use excessive force. Several shallow cuts will produce more efficient results than one deep cut.
5. To prevent freshly cut surfaces binding and fouling the blade, locate work after the cut is completed.

MAINTAINING THE K SAW – ELECTRIC

Cleaning:

1. Reservoir pan is to be cleaned at least once a day with clean water (twice a day during heavy use) as accumulated waste is abrasive. Failure to do this will shorten the life of the submersible water pump. Drain hole is located at the bottom of tray at rear which has a removable rubber plug.
2. Flush out water pump and lines with clean water daily after use.
3. Clean and grease all moving parts once a day.
4. Bearings should be cleaned with Shell Alvania grease or equivalent once a day.

Belt Tension:

1. Always keep drive belts tight. To attain the right tension, loosen the four bolts that secure the motor to frame. Rotate cam lever which bears against base of motor for desired tension. Belts have been properly tensioned at manufacturing process.
2. When changing belts, a v-belt tester will ensure correct v-belt setting.

3. Check setting on single belt.
4. Apply load at the centre of belt span. Deflection should be 8mm for 1 – 1.5kg load.
5. Regularly check belts for wear or cracking.

IMPORTANT SAFETY INFORMATION:

1. **MAINTAIN GOOD FOOTING TO AVOID SLIPPING OR LOSING CONTROL WHEN STARTING OR OPERATING MACHINE.**
2. **THE APPROPRIATE DIAMOND BLADE AND BORES SHOULD ALWAYS BE USED. CONTACT KALADARI INDUSTRIES FOR THIS INFORMATION.**
3. **JAMMING MATERIAL INTO THE BLADE IS DANGEROUS AND SHOULD BE AVOIDED.**
4. **WHEN OPERATING THIS SAW, ALWAYS WEAR SAFETY GOGGLES OR OTHER PROTECTIVE EYE WEAR.**
5. **APPROPRIATE HEARING PROTECTION TO BE WORN WHENEVER OPERATING THIS MACHINE.**
6. **ENSURE CLOTHING, JEWELRY AND HAIR DOES NOT BECOME CAUGHT IN MACHINE.**
7. **PROTECTIVE GUARDS SHOULD ALWAYS BE IN PLACE.**
8. **MOTOR OPERATION SWITCH SHOULD BE TURNED OFF BEFORE REMOVING OR REFITTING THE DIAMOND BLADE OR MAKING ANY ADJUSTMENT TO VEE BELT TENSION.**
9. **HANDS AND FEET SHOULD BE KEPT CLEAR OF ALL MOVING PARTS AS SERIOUS INJURY COULD OCCUR.**
10. **ALWAYS SET UP AND USE ON A LEVEL SURFACE.**
11. **ALL WHEELS MUST HAVE CONTACT WITH SURFACE BEING CUT. DO NOT ELEVATE FRONT OF MACHINE WHILE CUTTING MATERIAL OR ATTEMPT TO CUT SECTION OF MATERIAL WHICH IS HELD IN THE HAND.**
12. **DO NOT LEAVE UNATTENDED WHILE MACHINE IS RUNNING.**
13. **USE ONLY IMPREGNATED DIAMOND BLADES NOT ABRASIVE OR WOODWORKING BLADES.**
14. **DO NOT INCREASE GOVERNED NO-LOAD ENGINE RPM ABOVE 3,500 AS THIS COULD RESULT IN PERSONAL INJURY OR DAMAGE TO MACHINE OR BLADE.**
15. **AVOID CONTACT WITH MUFFLER WHEN ENGINE IS HOT AS SERIOUS BURNS WILL RESULT.**