

MEFE
MITCHELL ENGINEERING
FOOD EQUIPMENT PTY LTD

Operating Manual



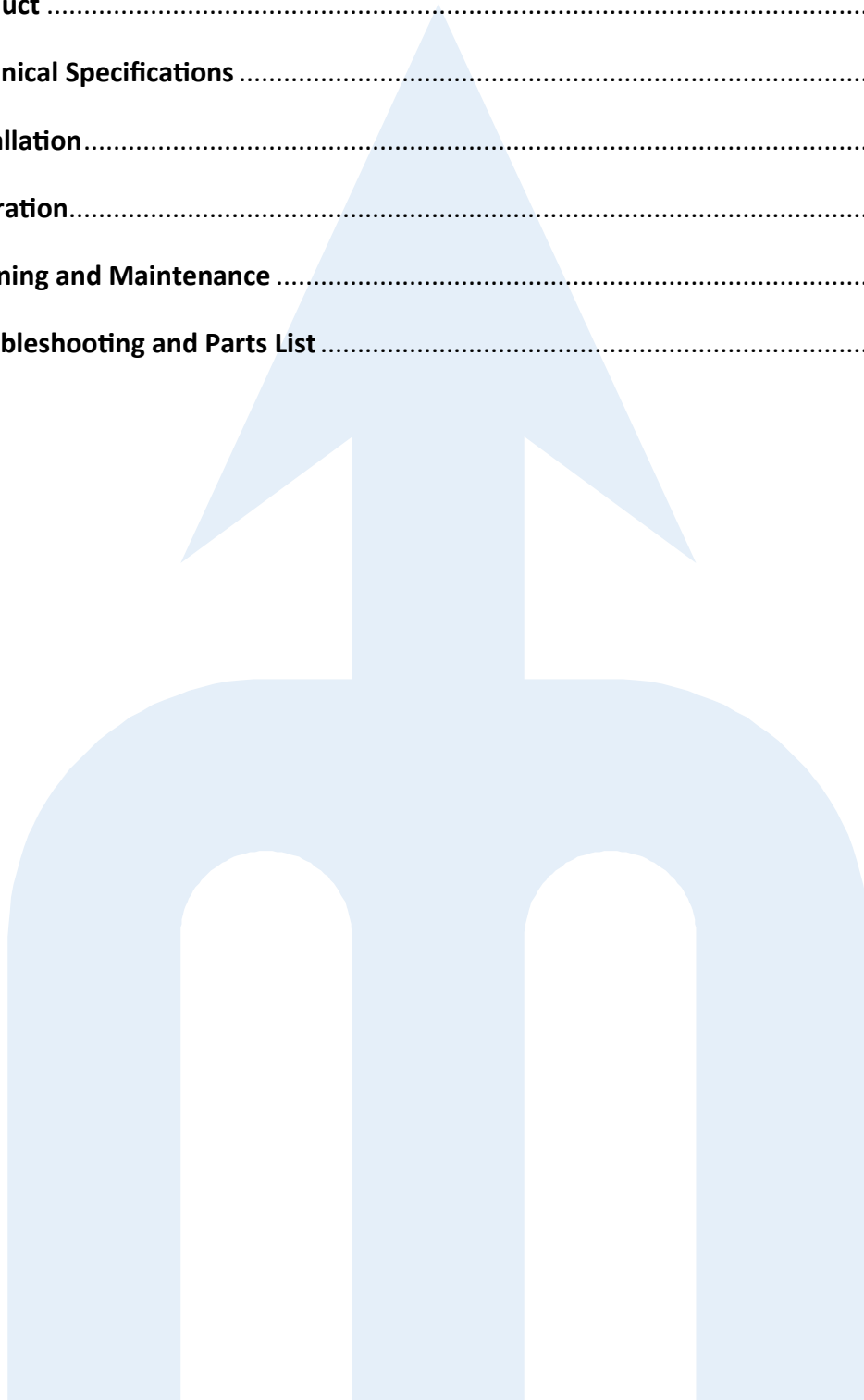
Industrial Butcher Bandsaw

CAT 350 360E

Revision 4

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1. General Safety Guidelines

Before Using This Power Tool

- Always wear recommended hand protection (steel chain mesh gloves).
- Keep bystanders out of the work area while operating the tool.
- Wheel guards and eye shields must be properly adjusted and tightened.
- Always make sure wheels are properly mounted and blade is tensioned correctly.
- Stand to the side of the bandsaw during start-up. Switch it on and let the band operate at full speed for approximately one minute so that any undetected flaws or cracks will become apparent.
- Keep hands clear of blade wheels, do not push meat by hand directly.
- Never reach behind or beneath the saw—never reach into or over the table.
- Disconnect power before changing blade or performing any cleaning. Always allow wheels to stop before adjusting or servicing. Do not stop the wheels with your hands or work piece.
- To avoid electric shock, DO NOT spray direct into motor or submerge machine in water.
- Use only accessories that are recommended by the manufacturer of your model.
- Grounded tools must be plugged into an outlet that has been properly installed and grounded in accordance with all local codes and standards. Never remove the grounding prong from the plug or modify it in any way.
- Do not use adapter plugs. If in doubt as to whether the outlet is properly grounded, consult a qualified electrician.
- Do not use the tool when tired or under the influence of drugs, alcohol or medication.
- Do not wear loose clothing, gloves or jewellery; tie up long hair and button all long sleeve shirts.
- Ensure the power switch is off prior to plugging in the tool.
- Do not over tighten spindle nuts.
- Service on these tools should only be performed by an authorized, qualified technician.

1.1 Additional Specific Safety Rules

1. DO NOT operate this machine until it is completely assembled and installed according to the instructions. A machine incorrectly assembled can cause serious injury.
2. OBTAIN ADVICE from your supervisor, instructor, or another qualified person if you are not thoroughly familiar with the operation of this machine. Knowledge is safety.
3. FOLLOW ALL WIRING CODES and recommended electrical connections to prevent shock or electrocution.
4. USE ONLY blades suitable for the product being cut and for the speed of the machine. Unsuitable blades can cause damage.
5. DO NOT over tighten wheel nut.

1.1 Additional Specific Safety Rules Continued

6. DO NOT USE A WHEEL THAT VIBRATES. Check blade guides and adjust / replace if worn
7. INSPECT WHEELS for cracks or fragments before starting the machine. REPLACE DAMAGED WHEELS immediately.
8. STAND TO ONE SIDE before turning the machine on.
9. NEVER START THE MACHINE with the work piece against the blade. The work piece can be drawn into the blade causing damage to the machine and/or serious injury.
10. CLEAN THE MACHINE thoroughly when processing different types of work pieces.
11. AVOID awkward operations and hand positions. A sudden slip could cause a hand to move into the blade.
12. KEEP ARMS, HANDS and fingers away from the blade.
13. NEVER APPLY COOLANT directly to the blade.
14. NEVER PERFORM LAYOUT, assembly, or set up work on the table/work area when the machine is running. A sudden slip could cause a hand to move into the wheel. Severe injury can result.
15. TURN THE MACHINE OFF, disconnect the machine from power source and clean the table/work area before leaving the machine. Lock the switch in the "OFF" position to prevent unauthorized use.

WARNING!

Failure to follow these rules may result in serious personal injury.

Read, understand and observe all instructions in this manual before using or operating the tool for which it is written and supplied. Ensure that anyone who is to use the tool has read and understood the instructions provided.

2. Product

The industrial band saw is ideal for heavy duty, high speed cutting efficiency and is well suited to a full range of applications from small home butchers to restaurants, large butchers, supermarkets and meat and fish factories.

The body, frame and cover of the saw are made out of Stainless Steel for durability, anti-rust properties and ease of cleaning. Fitted to the saw is a thickness adjustment plate, to adjust slicing thickness and prevent any trembling of the blades. The blade also runs through guides to allow for straight cuts. There are two work platforms: fixed and sliding table tops.

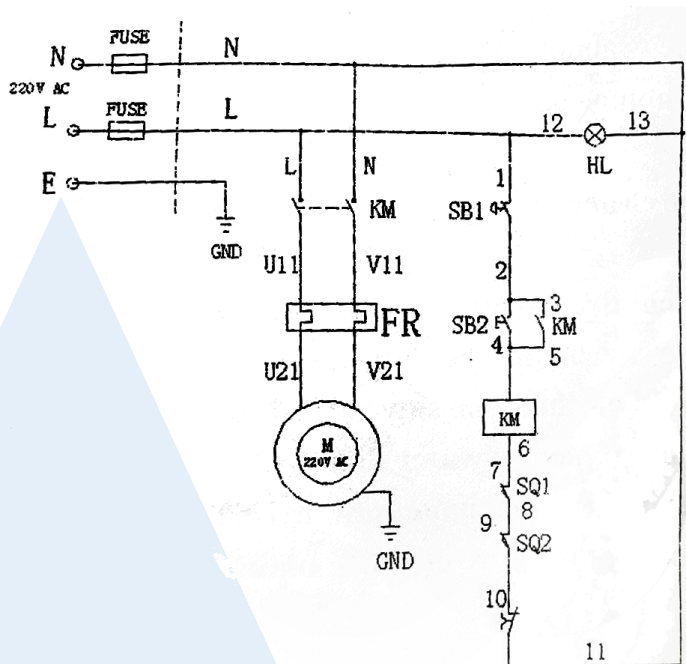
For safety purposes there is a safety knob on the body cover. At the top of the saw is a tension adjustment knob so that the workers can easily maintain the proper tension of the saw if necessary.

In order to minimize the heat from the motor, there is a ventilation on the motor cover.

There is an emergency stop beside the start switch. There is an emergency safety switch in the event the door is opened while operating which will shut down operation.

3. Technical Specifications and Electric Diagram

Model	CAT 350 360E
Voltage	220 V
Frequency	50-60Hz
Power	1.5 kW
Blade wheel diameter	300 mm
Blade speed	30m/s
Total table size	800 x 590mm
Cutting thickness	0-250mm
Dimensions	800 x 790 x 1690mm
Net weight	135kg



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4. Pre-Installation

- 1) Please ensure the mounting surface is clean (slip free) and level. Use the adjustable feet to level the machine on uneven surfaces.
- 2) Check the voltage before connection.
- 3) Place the machine at least 30cm away from the wall for ventilation.

5. Installation and Operation

- 1) Before use please check that the power supply corresponds to that required by the machine, and that the external casing wire is reliably connected.
- 2) Open the top blade door by using the central knob, and bottom door. Fit the saw blade through both wheels using the guides and check that the saw tooth is facing down. To adjust the saw blade one fitted turn the blade tension knob at the top.
- 3) Turn the wheel by hand to check if the saw blade is OK. Adjust the wheel nut as necessary until the blade is moving smoothly (Figure 1).
- 4) Close the doors and adjust the guards as necessary then press the switch on. Make sure you stand to the side of the bandsaw and let it run for a full minute to check the blade is properly fitted.
- 5) Put on chain mesh gloves then put the bone (or meat) between the feeding handle and the saw blade then lift the meat feeding handle with left hand, push the material to the locating plate by right hand, then push the feeding handle to feed the material forward until it is cut off.



Figure 1

5.1 Check list before operation

- 1) Check the power.
- 2) Check saw blade tension.
- 3) Check that the body covers are fully closed and latched.
- 4) Check that there are no obstacles on the work table.

5.2 Caution while operating

- 1) Keep the worktable free of any unnecessary products.
- 2) Never touch the blade with any metal object.
- 3) Always pay full attention to moving blade.
- 4) Always stop the machine before changing thickness.
- 5) Always use safety gloves.
- 6) When not being used the machine must be switched off and unplugged for safety.

6. Cleaning and Maintenance

6.1 Cleaning

- 1) Open the body covers.
- 2) Remove bone dust from the wheels with a brush. The bottom body cover has a chuted directing most bone dust into a container.
- 3) Remove the container and clean with water.
- 4) Replace draw and close cover.

NOTE: Though the unit is Stainless Steel and most components sealed for wash-down—be cautious not to direct any high pressure water on the motor due to ventilation slots exposing electrical parts.

6.2 Maintenance

Each time before use, clean the saw blade and other working parts with water and cloth. After the job, carefully clean the machine and open the door to sweep out the crumbs of meat and bone inside the machine.

Attention: Avoid cleaning internal components with water directly—use a cloth.

Replace the saw blade if the sawing speed is slow.

If the saw blade does not work after start-up of the motor make sure the cover is closed and the electric connectors are linked well.

NOTE: This machine is installed with an electromotor protective device, which will stop the power automatically when it overloads. To protect the motor, shut down the power, clean out any obstructions and then restart the machine after connecting power.

7. Trouble Shooting and Parts List

- **DO NOT USE THE MACHINE FOR ANYTHING OTHER THAN WHAT IT WAS INTENDED!**

Premature blade breakage

Reason :

- 1) Saw blades are worn and or cracked / blunt
- 2) Incorrect tension
- 3) Too much force applied when cutting

Fix :

- 1) Always use good quality blades
- 2) Constantly check blade tension
- 3) Let the blade do the work—do not force
- 4) Replace blade when blunt

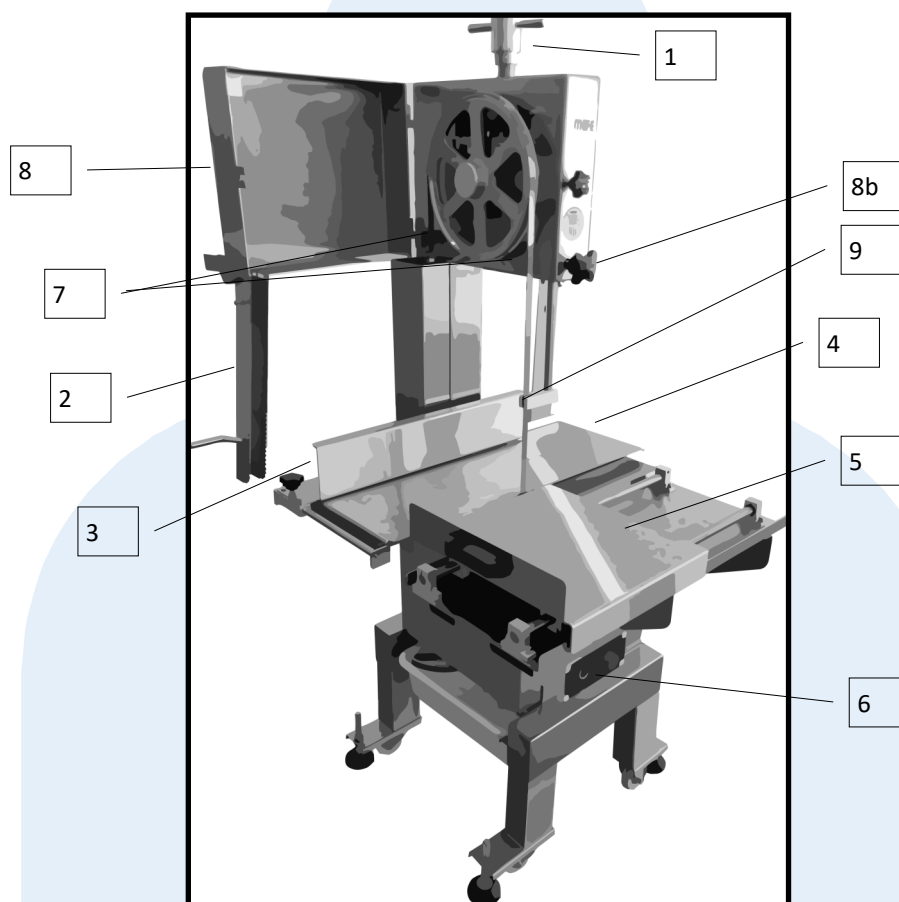
The saw blades have come off

Reason:

- 1) The tension has been wrongly adjusted—too weak
- 2) There is dirt on the upper or lower wheels
- 3) The wheels have worn away

Fix:

- 1) Adjust the tension properly
- 2) Clean the wheels
- 3) Check and replace the wheels



Part 350 360E *		Part 350 360E *	
NO.*	ITEM	NO.*	ITEM
1	Blade Tension Knob	6	Switch and Emergency Stop
2	Pusher (latched up)	7	Protein Scraper (6 per machine)
3	Sliding Thickness Board	8	Cover
4	Fixed Table	8B	Turn Knob
5	Rolling Table	9	Nylon Blade Guide