

# Bäumr-AG®



## Bandsaw - BS30

### User Manual

[Revision 1.0 May 2017]

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READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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# Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

	You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be INJURED if you do not follow instructions or equipment damage may occur.
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It is important that you read and understand the instruction manual before use and keep the manual in a safe place for future reference. Safety information presented here is generic in nature – some advice may not be applicable to every piece of equipment.

All safety precautions must be observed to reduce the risk of personal injury when operating the equipment.

The term "equipment" refers to your product, be it electrical mains, battery or petrol engine powered.

**IMPORTANT** – Handle the equipment safely and carefully.

**BEFORE USE** - If you are not familiar with the safe operation/handling of this equipment, or are in any way unsure of any aspect of suitability or correct use it for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.

## WARNINGS

- Read all safety warnings and all instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.
- Never run a combustion engine in confined areas.
- Do not operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. Engine and equipment may create sparks or heat that may ignite vapours, dust etc
- Keep clear of moving parts.
- This equipment may be a potential source of electric shock if misused.
- Do not operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do not allow others to use the equipment unless they have read this manual and are adequately trained.
- When using the equipment, basic safety precautions detailed here must always be followed to reduce the risk of fire, electric shock, personal injury and material damage.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting equipment.

## General Work Area Safety

Work areas should be clean and well lit. Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.

## Personal Safety

Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

Prevent unintentional starting of the equipment - ensure equipment and power source switches are in the OFF position before connecting or moving the equipment. Do not carry equipment with hands/fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.

Stay alert and use common sense when operating equipment. Do not overreach. Keep proper footing and balance at all times. Do not use equipment when tired or under the influence of drugs, alcohol or medication. This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. Always wear eye protection. Protective equipment such as respirators, non-skid safety shoes, hard hat, hearing protection etc should be used for appropriate conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.

If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

## General Equipment Use and Care

Do not force the equipment. Use the correct equipment for your application. The correct equipment will perform better and be safer within its design parameters. Do not use the equipment if the ON/OFF switch malfunctions – any equipment that cannot be controlled with the ON/OFF switch is dangerous and must be repaired.

Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.

Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorized service centre or technician before use.

Always keep the equipment and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment, controls and handles dry and free from dirt, oil and grease.

Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place the equipment in places where there are flammable materials, combustible gases or combustible liquids etc.

The equipment is not weatherproof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or very humid.

## Product Use and Care

- The machine is for domestic use only.
- Not for outdoor use.
- Risk of injury when operating the machine. Always use caution when handling the workpiece. Use the "pusher" whenever possible.
- Health risks may be present from the inhalation of sawdust. Wear a respirator. A dust extraction system is recommended.
- Risk of injury when handling saw blades. Use caution and wear protective gloves.
- Do NOT use the equipment if the electrical supply cable or plug is damaged – have the equipment repaired.
- Ensure that the blade is correctly installed and adjusted before using the machine.
- Do NOT attempt to cut materials that are not suitable to the cutting speed of the machine and blade type. For example, ferrous metals.
- Extension cords up to 25m long must have a cross section of 1.5mm<sup>2</sup>. Extension cords over 25m long must have a minimum cross section of 2.5mm<sup>2</sup>.

**General Service Information**

- Have the equipment serviced or repaired at authorized service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to help ensure that equipment safety is maintained.
- Do not attempt any maintenance or repair work not described in this instruction manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance.
- Do not make adjustments while the equipment is running.
- Perform all service related activities under suitable conditions, such as a workshop etc.
- Replace any worn, damaged or missing warning labels immediately.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.

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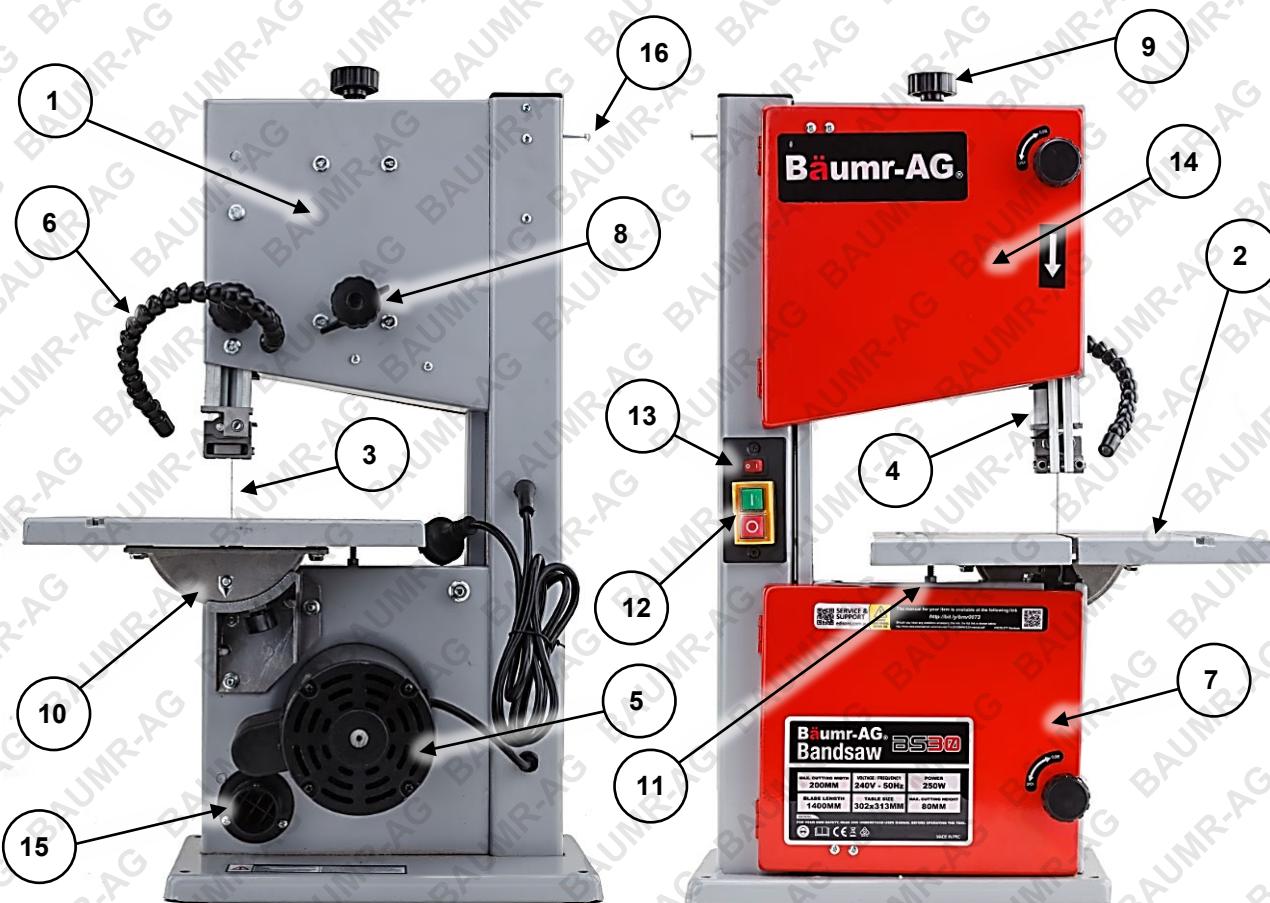
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# Parts Identification



No.	Name	No.	Name
1	Bandsaw	6	Tools / Fasteners: 3mm Allen Key 6mm Allen Key Spanner 4 M6x15 Screw
2	Table		
3	Fence		
4	Protractor		
5	Pusher		

## Machine Components



No.	Name	No.	Name
1	Machine Body	9	Blade Tension Adjustor
2	Table	10	Table Angle Adjustor
3	Blade	11	Table Stop Screw
4	Blade Guide	12	ON / OFF Switch
5	Motor	13	Lamp Switch
6	Lamp	14	Upper Door
7	Lower Door	15	Dust Port
8	Roller Adjustor	16	Pusher Hanger

# Assembly and Set-Up



It is recommended that the machine is bolted to a suitable flat and level surface. Use the 4 mounting holes on the machine base and M8 (3/8") fasteners (not supplied) to secure it. • The machine is for indoor use only. • The machine requires minimal assembly.

## Blade Tension

The bandsaw blade needs to be tensioned correctly. If the blade tension is too little, the blade may wander during cutting and / or slip on the drive rollers. If the blade tension is too great, unnecessary stress is placed on the machine and blade, leading to premature breakage of the blade. When tensioned correctly, the blade should "ring" when plucked.

If the blade tension requires adjusting, use the blade tension adjustor (A) at the top of the machine. To reduce tension, rotate the blade tension adjustor right (clockwise). To increase tension, rotate the blade tension adjustor left (anti-clockwise).

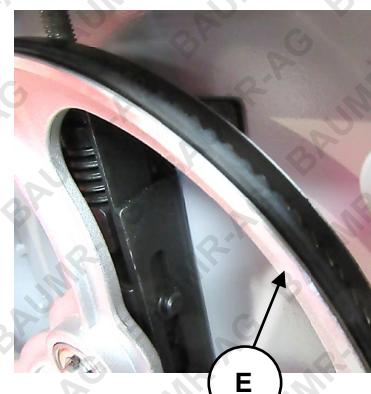
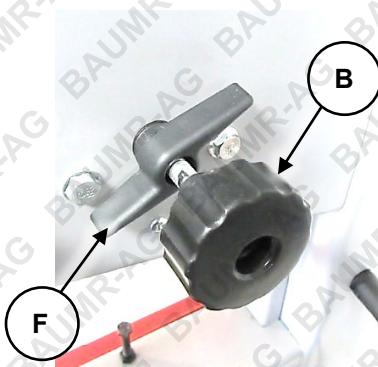
Over time, blades will stretch slightly, so check the tension before each use and adjust if required. Wider blades require more tension than narrow blades.



## Blade and Roller Alignment

The bandsaw blade must sit centrally on the rollers. The angle of the top roller can be adjusted so that the blade can be made to run centrally using the roller adjustor (B) on the rear of the machine. If the blade is not central, it may fall off the rollers during use or place unnecessary pressure on the blade counter-pressure bearings. If the blade is sitting near the front edge of the roller, the roller needs to be tilted back slightly. If the blade is sitting near the rear edge of the roller, the roller needs to be tilted forward slightly.

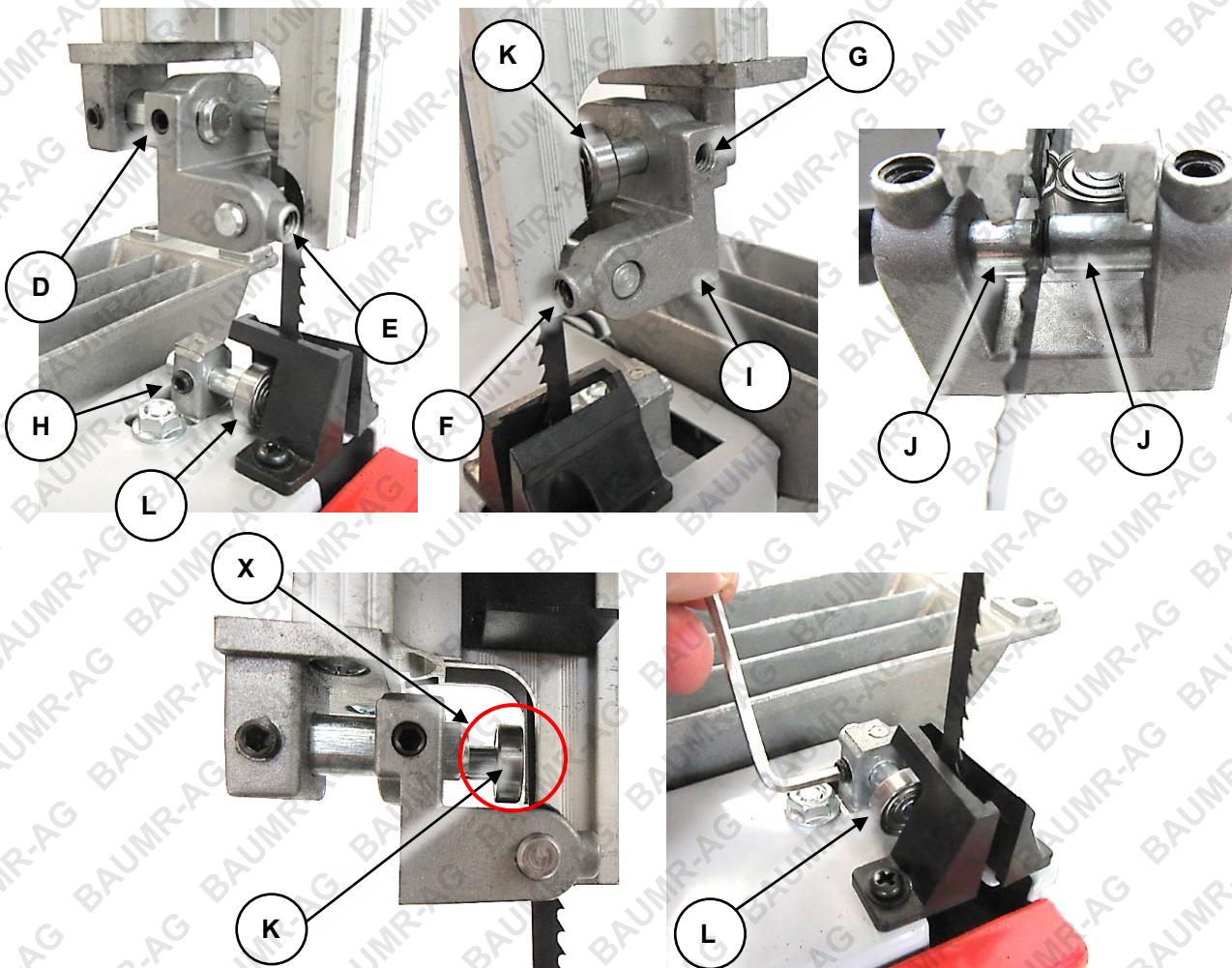
1. Open the upper door (C) of the machine by unscrewing the door knob (D).
2. Switch the machine ON and observe the blade position on the upper roller (E), then switch the machine OFF.
3. If adjustment is required, loosen the roller adjustor lock-nut (F). To move the blade forward, rotate the roller adjustor left (anti-clockwise). To move the blade backward, rotate the roller adjustor right (clockwise). When adjusting, only small changes are required.
4. Switch the machine ON and check the blade position – adjust the roller as required. When the blade is running centrally, tighten the roller adjustor lock-nut and close the upper door.



## Setting the Blade Guide and Counter-Pressure Bearings

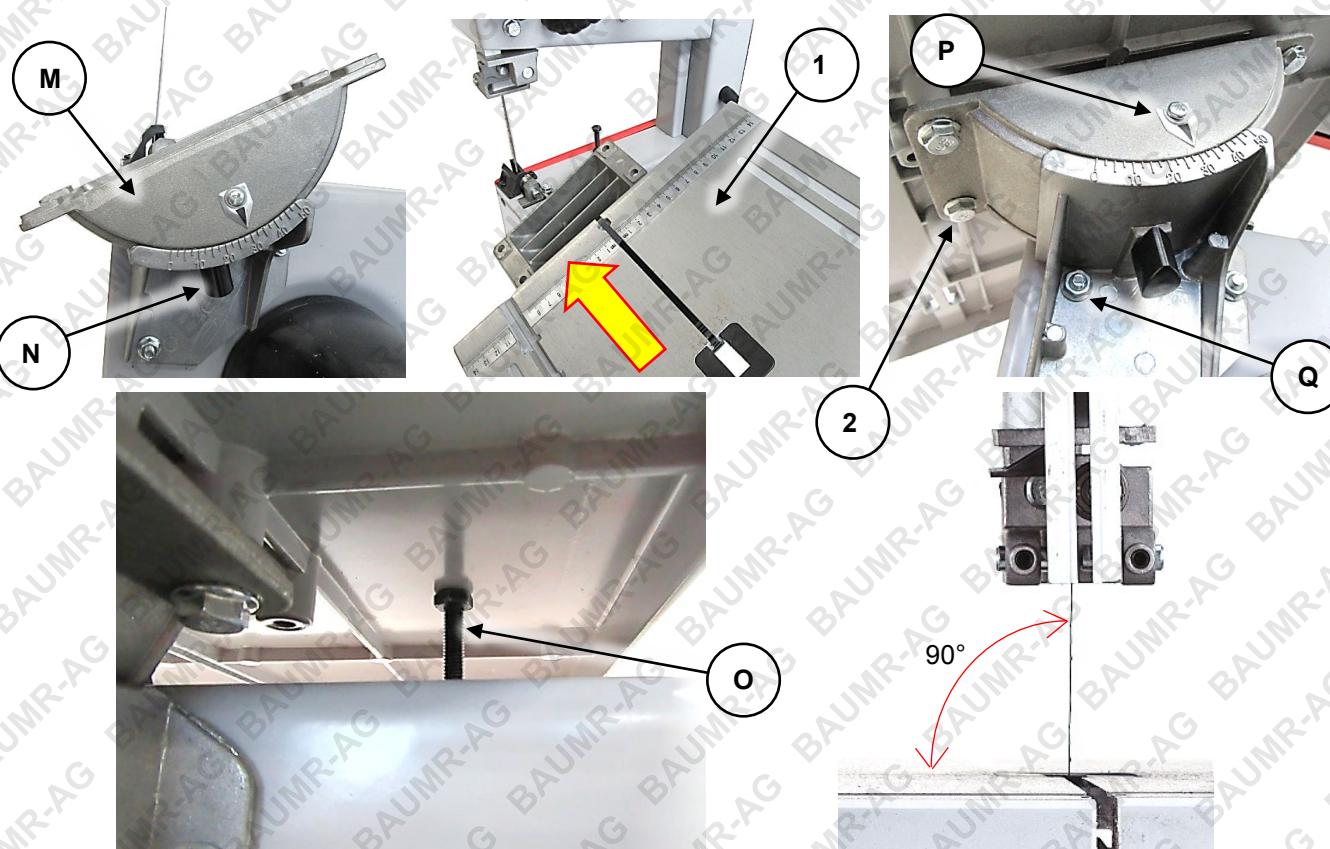
The machine has a blade guide to help keep the blade from deflecting sideways during cutting and 2 "counter-pressure" bearings that support the back edge of the blade and prevent it deflecting from the cutting pressure (that is, how much you push the work-piece against the blade during cutting).

1. Use the 3mm Allen key to loosen the "grub" screws in locations **D**, **E**, **F**, **G** and **H**.
2. Slide the blade guide carrier (**I**) as required so the guide pins (**J**) are aligned with the flat side of the blade. The guide pins are not to contact the blade teeth. When the blade guide carrier is in the correct position, tighten grub screw **D**.
3. Move the guide pins as needed so the ends of the pins are as close as possible to the blade, however, are not pinching or pushing against the blade. When the guide pins are in the correct positions, tighten grub screws **E** and **F**.
4. Slide the upper counter-pressure bearing (**K**) so it is as close as possible to the rear edge of the blade (**X**), but not pushing against it. When the counter-pressure bearing is in the correct position, tighten grub screw **G**.
5. Slide the lower counter-pressure bearing (**L**) so it is as close as possible to the rear edge of the blade, but not pushing against it. When the counter-pressure bearing is in the correct position, tighten grub screw **H**.



## Install and Level the Table

1. Set the table angle adjustor (**M**) to 30°, then tighten the thumbscrew (**N**) by hand.
2. Carefully slide the table (**1**) into position and align the mounting holes on the underside of the table with the holes in the table angle adjustor.
3. Attach the table to the table angle adjustor using the 4 M6 bolts (**2**) and tighten firmly using a spanner.
4. Loosen the table angle adjustor, then rotate the table down so it is resting on the table stop screw (**O**).
5. Tighten the table angle adjustor thumbscrew and check that the table angle adjustor is at "0" and that the table is 90° to the bandsaw blade. If the table stop screw requires adjusting, loosen the lock-nut and screw the stop screw in or out as required. When the stop screw is at the correct height, secure it by tightening the lock-nut. If the pointer (**P**) on the table angle adjuster needs to be moved to point to "0", loosen its screw, rotate the pointer as required, then tighten the screw.
6. The slot in the table should line up centrally with the blade. If the table needs to be adjusted sideways to centralise it and to the blade, loosen the 3 table angle adjustor nuts (**Q**) and carefully shift the table angle adjustor as required. When the table is in the correct position, tighten the table angle adjustor nuts.



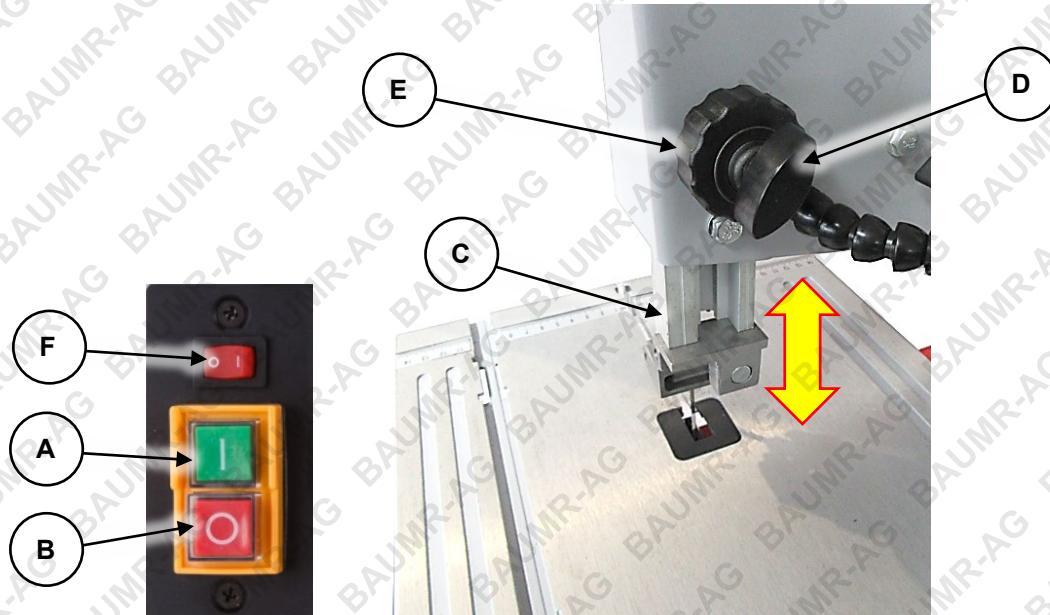
# Operation



Risk of injury when operating the machine. Always use caution when handling the workpiece. Use the "pusher" whenever possible. • Health risks may be present from the inhalation of sawdust. Wear a respirator. A dust extraction system is recommended. • Ensure that the blade and table is correctly installed and adjusted before using the machine. • Do NOT attempt to cut materials that are not suitable to the cutting speed of the machine and blade type. For example, ferrous metals. • When working with the machine, all protective devices and guards must be fitted. • Extension cords up to 25m long must have a cross section of 1.5mm<sup>2</sup>. Extension cords over 25m long must have a minimum cross section of 2.5mm<sup>2</sup>. • Check the condition of the saw blade before use. If the blade is damaged – cracked, kinked, has missing teeth etc, replace it. • Always hold the work-piece securely so that it does not spin or get pulled by the saw blade etc.

## Basic Operation

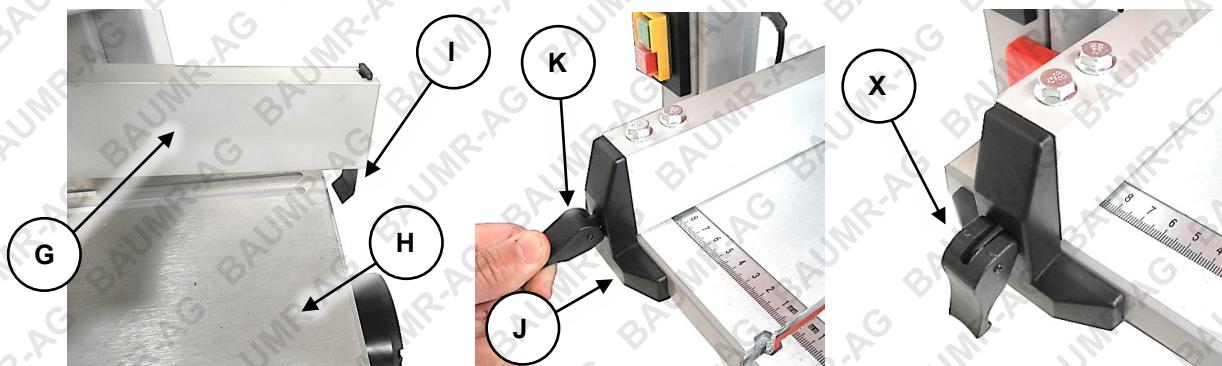
1. Connect the machine to a 240VAC electrical supply.
2. Switch the machine ON (A) and check that the blade is running smoothly – squealing or grinding noises may indicate incorrect machine set-up.
3. Switch the machine OFF (B).
4. Adjust the blade guide (C) so it just clears the top of the work-piece. To adjust, loosen the lock-nut (D), then rotate the adjusting knob (E) as required. Rotate the knob right (clockwise) to raise the guide; rotate left (anti-clockwise) to lower the guide.
5. If required, position the lamp – ensure it does not interfere with the work-piece or saw blade.
6. Switch the machine ON and the lamp (F), if required.
7. Cut the material – use the "pusher" wherever possible to move the work-piece against the saw blade. Vary the amount of pressure used to cut as required. Note that thicker pieces of material or materials such as hardwood will take longer to cut and may require additional pressure. Thin material may require a finer blade (more teeth) and less pressure to cut.



## Using the "Fence"

Use the "fence" to act as a work-piece guide for ripping lengths of wood, cutting many pieces to the same length etc.

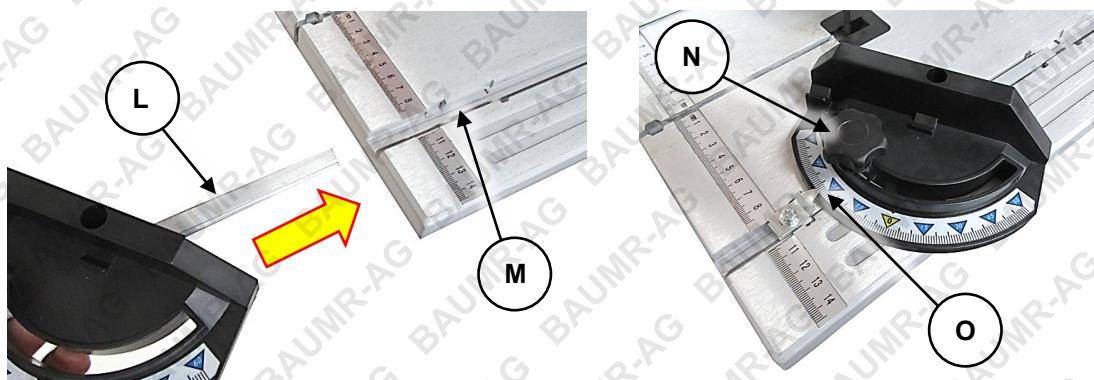
1. Hook the prong (I) on the end of the fence (G) over the end of the table (H).
2. Push the fence clamp (J) down so it is sitting against the edge of the table.
3. Position the fence as required, then flip the locking lever (K) into the fully locked position (X).
4. When cutting, keep the work-piece against the fence so the cut is straight and accurate.



## Using the "Protractor"

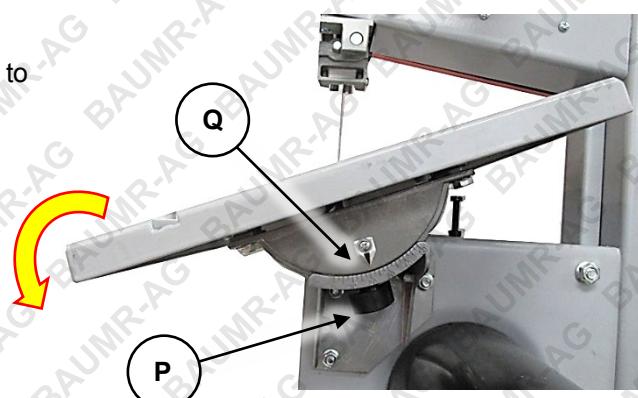
Use the "protractor" to act as a work-piece guide for cutting at a specific angle to the blade.

1. Slide the protractor guide (L) into the slot (M) in the table.
2. Loosen the lock-nut (N), then use the scale and pointer on the protractor (O) to position it at the required angle. Tighten the lock-nut.
3. When cutting, keep the work-piece held against the protractor and slide the protractor along the table.



## Tilting the Table

The table can be tilted up to 50° for cutting at an angle to the saw blade. To tilt the table, loosen the table angle adjustor lock-nut (P), position the table at the required angle using the scale and pointer (Q), then tighten the lock-nut securely.



## General Operational Recommendations

The following recommendation are a guide to improved safety as well as machine care. Not all recommendations can be applied to every task – caution and common-sense must also be applied to using the machine.

- Use a dust extraction system. Connect the machine to the dust extraction system via the dust port.
- Release tension on the saw blade when the machine is not in use.
- Store saw blades safely in a dry place and out of the reach of children.
- Wear protective gloves when handling saw blades.
- All protective and safety devices must be properly secured and operational.
- Never clean the saw or saw guide while the machine is running.
- Always position the saw guide as near to the workpiece as possible.
- Use the "fence" whenever possible as this provides the best results.
- Always use caution when handling the workpiece. Use the "pusher" whenever possible, especially on narrower item.
- The motor has thermal overload protection. If the motor becomes overheated, the thermal protection will trigger and stop the machine automatically. When the motor has cooled sufficiently, the machine can be used again.

# Maintenance



Ensure the machine is switched OFF and disconnected from the electrical supply before performing any maintenance tasks. • All protection and safety devices must be immediately re-installed once the maintenance work is completed. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools or experience for, have the unit serviced by a service centre or qualified technician. • Wear protective gloves when handling saw blades.

To keep the machine performing at optimal efficiency, regular checks and maintenance is required. Proper care and maintenance ensures best performance and longest service life.

- Regularly clean and lightly grease the table angle mechanism.
- Regularly lubricate the blade tension adjuster and roller tilt adjuster screw threads.
- Clean the machine after each use to help prevent the build-up of sawdust and wood resin in machine components, on the table and on the saw blade. Use a suitable cleaning agent for removing wood resin.
- Regularly check the blade guide pins and counter-pressure bearings and ensure that they are correctly adjusted.

## Changing the Saw Blade

1. Rotate the blade tension adjustor (**A**) left (anti-clockwise) until there is no tension on the blade.
2. Open the upper door (**B**) and lower door (**C**) of the machine by unscrewing the door knobs.
3. Carefully pull the blade from the rollers (**D**) then draw it out from the machine through the slot (**E**) in the table.
4. Carefully insert the new blade into the machine through the slot in the table and place it over the rollers.
5. Rotate the blade tension adjustor right (clockwise) until you feel the blade starting to tension up. Ensure that the blade teeth are facing outward and are pointing down through the blade guide.
6. Set the saw blade tension and alignment.



## Transportation and Storage

- Lift the machine at the identified points only. Never lift the machine using the doors, safety devices, adjusting knobs, or table.
- Disconnect the machine from the electrical supply.
- Lower the blade guide down to the table.
- Reduce tension on the blade before storage.
- Keep the machine covered and in a cool, dry place.



# Troubleshooting

The following information may assist in identifying a problem and rectifying it.

## **Saw blade breaks.**

Possible Fault	Action
Too much blade tension	Reduce blade tension.

## **Saw blade coming off rollers.**

Possible Fault	Action
Blade and rollers not aligned correctly	Set blade and roller alignment.

## **Saw blade wandering, cannot cut straight.**

Possible Fault	Action
Insufficient blade tension	Increase blade tension.
↓	
Blade guide set too high	Ensure that the blade guide height is set to just above the height of the work-piece.
↓	
Blade guides or counter-pressure bearings not set correctly	Set blade guides and counter-pressure bearings correctly.

## **Squealing sound when machine running or cutting.**

Possible Fault	Action
Insufficient blade tension	Increase blade tension.
↓	
Blade guides or counter-pressure bearings not set correctly	Set blade guides and counter-pressure bearings correctly.

## **Saw blade stops during use or gets loose after turning off the machine.**

Possible Fault	Action
Insufficient blade tension	Increase blade tension.

## **Motor does not start.**

Possible Fault	Action
No electrical supply	Ensure the machine is connected to a 240VAC electrical supply.
↓	
Thermal overload tripped	Switch the machine OFF and allow the motor to cool before attempting to use again.
↓	
Electrical or motor fault	Have machine inspected and repaired at an authorised service centre.

## **Motor stops during use.**

Possible Fault	Action
Thermal overload tripped	Switch the machine OFF and allow the motor to cool before attempting to use again. Check that the saw blade is correctly installed and adjusted and is sharp.

**Saw Blade Overheating or Work-Piece Burning**

Possible Fault	Action
<i>Fence not parallel</i>	Ensure the fence (if used) is parallel to the blade. Cut straight.
 <i>Saw blade blunt</i>	Replace saw blade.
 <i>Incorrect saw blade type</i>	Use correct type of saw blade for material.
 <i>Work-piece material not suitable</i>	Do not attempt to cut.

## Specifications

<b>Electrical Requirements</b>	240VAC / 50Hz
<b>Power</b>	250W
<b>Blade Length</b>	1400mm
<b>Table Dimensions</b>	302 x 313mm
<b>Table Angle Adjustment</b>	0 to 45°
<b>Maximum Cut Width</b>	200mm
<b>Maximum Cut Height</b>	80mm



**Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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