

# Bäumr-AG



## Double Bevel Sliding Mitre Saw DBS-305

### User Manual [Revision 1.0 February 2019]

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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.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use 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.

- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury 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.
- 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.

## 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.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

## General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / 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.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if 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.

## General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

## General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines **OUTSIDE** only, and far away from windows, doors and vents.

## General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- 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 authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or 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.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- 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.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- 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 or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

**General Electrical Safety**

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

**General Electrical Safety**

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

**General Service Information**

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this 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 adjusting, changing accessories or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

**Intended Use**

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse.

To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area. The same applies for the general rules of occupational health and safety.

The machine is used for:

- Cutting wood and plastic materials in sizes commensurate with the machine size.
- It is NOT SUITABLE for cutting firewood.

**Any manipulation of the machine or its parts is a misuse, the manufacturer cannot be made liable for ANY direct or indirect damage.**

Even when the machine is used as prescribed it is still impossible to eliminate certain residual risk factors.

**Use only saw blades allowable for this machine!**

**Never use a damaged saw blade!**

**Use the machine never with defective or without mounted guard!**

**The removal or modification of the safety components may result in damage to equipment and serious injury! HIGHEST RISK OF INJURY!**

The machine shall not be operated in areas exposed to increased fire or explosion hazard.

**Prohibited Use**

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- Operation of the machine without safety device is prohibited.
- The use of the machine not according with the required dimensions is forbidden.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- The unattended operation on the machine during the working process is forbidden!
- It is not allowed to leave the immediate work area during the work is being performed.

**Security Instructions**

**Missing or non-readable security stickers have to be replaced immediately! The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine! To avoid malfunction, machine defects and injuries, read the following security instructions!**

- Read the manual carefully and get familiar with all components before operating the machine for the first time.
- This manual contains important information for correct operation of the machine.
- This manual is part of the machine and shall be stored for later reference. Add this manual to the machine if handed to 3rd persons for use.
- Stick to these Security Warnings and Instructions to reduce the risk of serious injuries.
- Assure that the working area is sufficiently lighted!

## Double Bevel Sliding Mitre Saw - DBS-305

- Keep your work area dry and tidy! An untidy work area may cause accidents. Avoid slippery floor.
- Do not overload the machine
- Provide good stability and keep balance all times
- Avoid abnormal working postures! Make sure you stand squarely and keep balance at all times.
- Always stay focused when working. Reduce distortion sources in your working environment. The operation of the machine when being tired, as well as under the influence of alcohol, drugs or concentration influencing medicaments is forbidden.
- The plug of an electrical tool must strictly correspond to the socket. Do not use any adapters together with earthed electric tools
- Each time you work with an electrically operated machine, caution is advised! There is a risk of electric shock, fire, cutting injury.
- Avoid body contact with earthed
- Protect the machine from dampness (causing a short circuit)
- Use power tools and machines never in the vicinity of flammable liquids and gases (danger of explosion)
- Check the cable regularly for damage
- When working with the machine outdoors, use extension cables suitable for outdoor use
- Do not use the cable to carry the machine or to fix the work piece
- Do not overload the machine
- You will work better and safer at specified power range.
- Use the correct power tool
- Do not use low-power machines for heavy work.
- Do not use the power tool for such purposes for which it was not designed. For example, do not use hand circular saw for cutting tree limbs or logs.
- Respectively trained people only and only one person shall operate the machine.
- Do not allow other people, particularly children, to touch the machine or the cable. Keep them away from your work area.
- Make your workshop childproof.
- Wear suitable work clothes! Do not wear loose clothing or jewellery as they might be caught and cause severe accidents!
- Wear a hair net if you have long hair.
- Loose objects can become entangled and cause serious injuries!
- Operation with safety gloves is forbidden. Safety gloves must only wear at saw blade changing.
- Use personal safety equipment: ear protectors and safety goggles when working with the machine.
- Wood dust may contain chemical substances that have a negative impact on personal health. Work on the machine only in well-ventilated areas with suitable dust mask perform!
- When working outdoors non-slip footwear is recommended.
- Never leave the machine running unattended! Before leaving the working area switch the machine off and wait until the machine stops.
- Always disconnect the machine prior to any actions performed at the machine.
- Avoid unintentional starting
- Do not use the machine with damaged switch
- Never use the power cord for transportation or manipulation of the machine!
- Never leave Before starting the machine remove any adjusting wrenches and screwdrivers
- Use a clip or clamping jaws to secure the workpiece
- Do not fix the workpiece with your hands
- Rotating parts can cause severe cut injuries
- Keep the saw blades sharp and clean, so they get stuck less often and are easier to guide
- Keep any machine that is not being used out of reach of children
- Connect the dust extraction device to
- Do not use the cable to remove the plug from the socket.
- Protect the cable from heat, oil and sharp edges
- Even Lasers with relatively small output can harm your eyes! Therefore:
- Never look directly into the laser or into the laser beam!
- Never direct the laser beam towards reflecting surfaces, persons and animals.
- Do not manipulate the laser device!!
- Use only saw blades that are suitable for the use with the machine, especially regarding technical parameters and which are tested and comply with the directive EN 847-1.
- Deflected, defect or worn saw blades have to be replaced immediately.
- Blunt saw blades have to be sharpened or replaced.
- Blunt saw blades highly increase the danger of kickback!
- Assure yourself that the saw blade is correctly mounted and does not touch the base plate.
- Do not stop the saw blade by touching it on the side. This will ruin the drive mechanism.
- Do not manipulate or remove the saw blade protecting cover!

- Do not fix small workpieces by hand, instead only use the down holder.
- No material feed, no material removal, no adjustments or other activities when saw blade is running.
- Do not position your hands near the saw blade or in a way that they could slip into the cutting line.
- Long workpieces have to be supported by the double bar guide.
- Take especially care when cutting round workpieces!
- Check the workpiece for nails, clamps and other material!
- Just cut one workpiece at once. Do not stack or attempt to cut several work-pieces in one cutting operation!
- Do not cut firewood
- Wear gloves when handling the saw blades and rough materials. It is recommended that saw blades, whenever practicable be carried in a container.
- Make sure that the speed indicated on the saw blade is at least as high as that on the saw speed specified.
- Be sure to use only those spacers and screw rings, which are suitable for the purpose specified by the manufacturer.
- No reload, remove or adjust workpieces, or material remains with the machine running!
- Do not place hands in near circular saw blade or in a position where they could slip direction circular saw blade!
- The use of other application tools and other accessories can mean a risk of personal injury.
- Let your power tool repaired by a qualified electrician
- The machine does not require extensive maintenance. If malfunctions and defects occur, let it be serviced by trained persons only.

## Remaining Risk Factors

**It is important to ensure that each machine has remaining risks. In the execution of all work (even the simplest) greatest attention is required. A safe working environment depends on you!**

Even if the machine is used as required it is still impossible to eliminate certain residual risk factors totally. The following hazards may arise in connection with the machine's construction and design: Despite of correct and proper use and maintenance there remain some residual risk factors:

- Risk of injury to the hands / fingers by the rotating tool during operation.
- Risk of injury due to sharp edges of the workpiece, especially in non-fixed with a suitable tool / device workpiece.
- Risk of injury: hair and loose clothing, etc. can be captured and wound up! Safety regulations must be observed with regard to clothing.
- Risk of injury due to contact with live electrical components.
- Risk of injury due to breakage or cracking of the abrasive
- Risk of injury due to dust emissions, treated with harmful agents' workpieces
- Risk of injury to the eye by flying debris, even with safety goggles.
- Risk of injury to the hearing by prolonged labour without hearing protection.

These risk factors can be minimized through obeying all security and operation instructions, proper machine maintenance, proficient and appropriate operation by persons with technical knowledge and experience.

## Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p><b>Flammable Material Hazard</b> Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p><b>Read User Manual</b> Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p><b>Use Hand Protection</b> Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p><b>Carbon-Monoxide Hazard</b> Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p><b>Electrocution / Electrical Shock Hazard</b> High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p><b>Toxic Fumes / Dust Hazard</b> Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p><b>Explosive Material Hazard</b> Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p><b>Cutting / Amputation Hazard</b> The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p><b>Crush Hazard</b> The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p><b>Single Operator Only</b> The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p><b>Use Face Protection</b> Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p><b>Use Foot Protection</b> Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p><b>Use Eye / Ear / Head Protection</b> Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p><b>Running Hazard</b> Do not run on or near the product as doing so may present a fall hazard.</p>	 <p><b>Diving Hazard</b> Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p><b>Adult Supervision Required</b> Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p><b>Skin Penetration / Puncture Hazard</b> The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p><b>Hot Surface Hazard</b> Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p><b>Flying Debris Hazard</b> Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p><b>Moving Parts Hazard</b> Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>

			
<b>Carbon-Monoxide Hazard</b> Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	<b>Pull Hazard</b> Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	<b>Slope / Fall Injury Hazard</b> Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	<b>"Slam Dunk" Warning</b> Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
			
<b>Electrocution / Electrical Shock Hazard - Outdoor</b> High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.	<b>Electrocution / Electrical Shock Hazard - Disconnect</b> High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	<b>Power Line Electrocution Hazard</b> High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	<b>"Kick-Back" Hazard</b> High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
			
<b>Winch Operator Position Hazard</b> Do NOT stand between winch and load. Do NOT use winch to move people.	<b>Winch Lift Hazard</b> Do NOT LIFT load vertically. Use machine to PULL only.	<b>Cable Hazard</b> Ensure that load bearing cable is not kinked or knotted.	<b>Winch Cable Hazard</b> Ensure that there is a minimum number of cable coils on winching mechanism.
			
<b>Winch Hook Hazard</b> Carry hook to load – do NOT throw or run.	<b>Flash / Blinding Hazard</b> Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	<b>Laser Hazard</b> Laser may be in use – do NOT look directly at laser or allow others to.	

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# Assembly and Transport

## Cutting Head

### Raising:

1. Push down slightly on the Handle (1) and pull out the stop latch knob (2).
2. Allow the cutting head to rise to the up position.

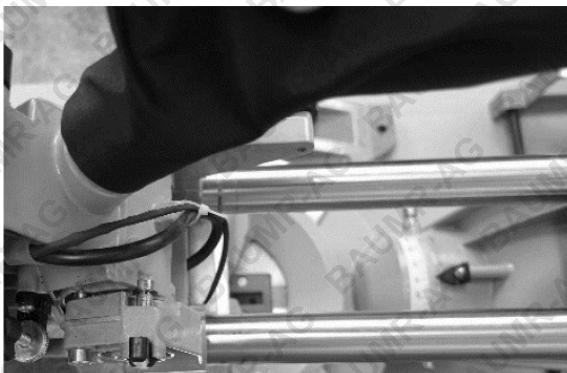


### Locking:

1. Push the cutting head down to its lowest position.
2. Push the stop latch knob into the locking hole.

## Dust bag (2):

1. Pull the dust bag over the dust collector plug



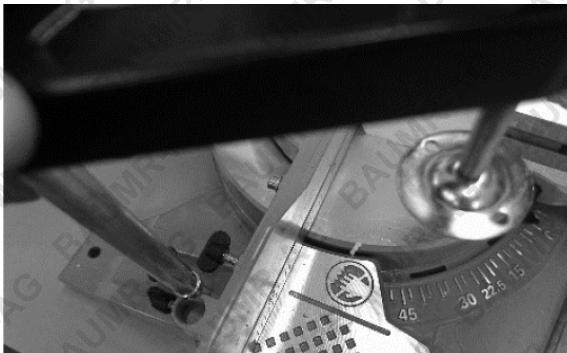
## Extension bracket:

1. Insert the extension bracket bars into the holes.
2. The extension bracket must be secured.



## Work piece down holder:

1. Place it in one of the mounting holes (whether on the left or right side of the table).



## Transport

When bringing the machine to the workplace you have to prepare it for transport. These instructions have to be followed prior to every transport of the sliding compound saw

- Disconnect the machine from the power supply.
- Swing the saw arm into the lowest position and lock it in that position with the interlock knob.
- Lift the machine only at the transport handle. or t the external cast parts

# Operation

## Operation Instructions

Device to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.



**WARNING!** Perform all machine settings with the machine being disconnected from the power supply!



**CAUTION!** • Do not look directly into the laser beam. Never direct the laser beam at people or objects other than the workpiece. • Do not deliberately point the laser beam at people. • Only point the laser beam at insensitive workpieces with a dull surface. Wood or rough surfaces are ideal for this. Shiny, reflective surfaces are not suitable for using a laser since the laser beam could be directed at the user by the reflective surfaces. • Always switch off the laser when you have finished work at the ON/OFF switch for the laser light. • Only switch on the laser beam if there is a workpiece on the mitre saw bench.



**NOTICE** • The machine must be attached to the underground. For this purpose, there are 4 borings at the ground plate, two at the front side and two at the back side. Furthermore, you can attach the machine to mitre saw stands. • Do not use damaged or warped saw blades. • Replace the worn table insert. • Select the appropriate saw blade for the material to be cut. • Warning! Protective equipment must not be used for the purpose of transport. • Use the saw only if the safety devices are functional, in good condition and in the provided position. • Do not remove offcuts or other workpiece parts from the sectional area, if the machine with unprotected blade is moving. • The workpiece must always be clamped to the saw table. • Before each cutting operation make sure that the machine stands safely. • Mark the cutting line on the workpiece. • Set the angle of the cutting operation. • To make a cut from the workpiece hold the laser along the marked line. • Remove the workpiece only after the cut has been completed.

## Adjustments

### Angle

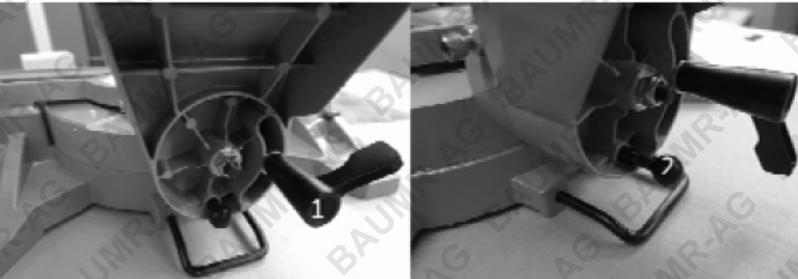
1. Press the saw unit (7) into the lowered position and press the release knob (6) to lock the sawing arm in its transport position.
2. Release the mitre angle lock.



3. Turn the table (20) until the mitre angle indicator points to 0°.
4. Tighten the mitre angle lock.



5. Release the vertical angle lock (1) and set the saw unit to a vertical angle of 0° (in other words the saw blade is at an angle of 90° to the table. Tighten the vertical angle lock.
6. The edge of the angle bracket should run parallel to the saw blade.



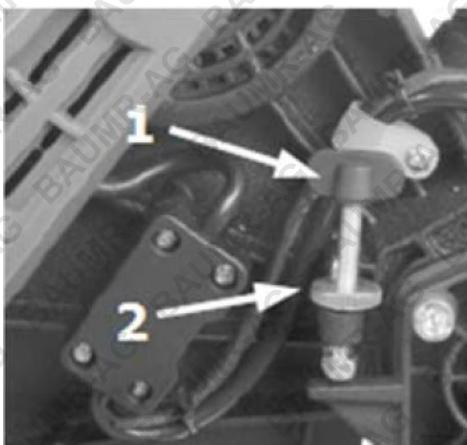
If the saw blade is not parallel to the angle bracket, make the adjustment as follows:

- Undo the lock nuts on the sawing head vertical angle using a wrench or an adjustable wrench.
- Undo the lock nut which is secured by the 0° vertical angle setting screw using a wrench or an adjustable wrench. Release the vertical angle lock.
- Adjust the screw on the sawing head vertical angle with a screwdriver by turning it clockwise and anti-clockwise so that the saw blade is on the 90° angle bracket.
- Undo the screw which holds the pointer on the vertical angle scale and set the pointer so that it points to 0°. Tighten the screw again.
- Tighten the vertical angle lock and the lock nut to secure the sawing head vertical angle.



## Cutting Depth

1. Set the required cutting depth using the setting screw (1).
2. Secure the stop screw using the lock nut (2).



## Laser

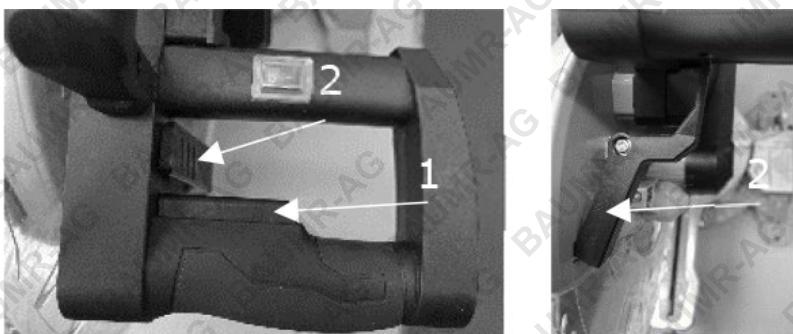
The Laser marks the cutting line. After having set all angles and cutting depth, you should fine-tune your laser.

1. Attach the workpiece to the back fence, fix it with the down holder.
2. Perform a slot cut on the workpiece so that it gets not cut through entirely.
3. Now turn on the laser (Laser ON/OFF Switch) and check if the laser beam marks exactly the real cutting line.
4. If not, you need to adjust the whole laser assembly until laser indication matches exactly the actual cutting line.

## Operating the Mitre Saw

### Switch ON

1. Connect the machine to the power supply.
2. Read, understand and apply the security instructions.
3. Push safety switch (3) and ON-OFF-switch (1).
4. Wait until the saw blade has reached its full speed.
5. With the forefinger you now push the safety lock lever blade guard (2) to the left to unlock the lower blade guard.



### Switch OFF

As soon as you release the ON-OFF-switch, the motor and the saw blade will stop.

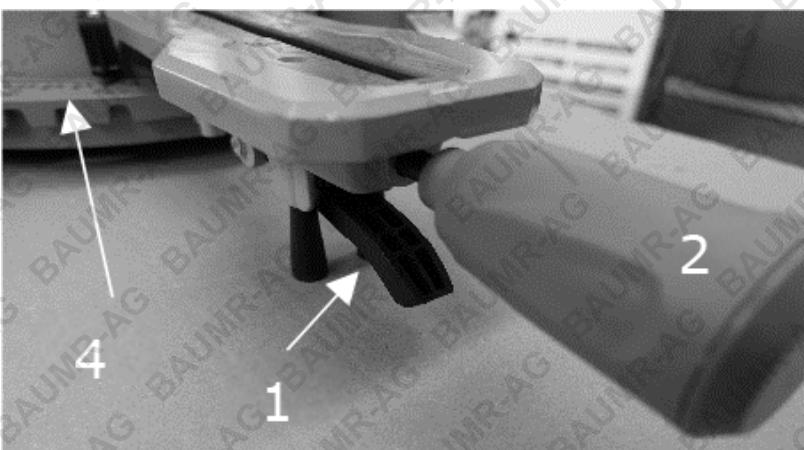
## Fence

1. Extend the fence (2) by sliding it out to match the degree of the bevel cut.
2. Unlock the fence cam locking knob (1) and position the fence.
3. Lock the fence cam locking knob.



## Mitre Cut

1. Loosen the mitre lock (2) and push mitre angle lock (1). Set the desired angle (4).
2. Tighten the mitre lock.



## Bevel Cut

3. Release the vertical angle lock (1) and pull out lock knob (2).
4. Set the desired angle.
5. Tighten the vertical angle lock.



## Operation Modes

### Mitre Cuts

1. Ideal for cutting short workpieces in mitre and/or bevel angles.
2. For mitre cuts fix the saw unit on the sliding bars with drag lock.
3. Place the material to the fence and fix the material additionally with the down holder.
4. Prepare to cut and perform the cutting operation.
5. Swing the saw unit back up, release the accelerator lever and wait until the electric saw brake stops the saw.
6. Now you can take the workpiece away.

### Sliding Cuts

1. Sliding cuts are ideal for performing longer cuts.
2. Fix the material.
3. Pull the saw towards your body (drag lock open).
4. Switch the machine on, wait until saw blade reaches full speed.
5. Now swing the saw arm down and let it work its way slowly through the material. Now push the saw arm slowly backwards.

Advantage: If the material cracks or material parts are catapulted, then not towards the operator.

Disadvantage: You MUST fix workpiece additionally with down holder to prevent it from kickback.

### Slot Cuts

Adjust the cutting depth for slot cuts as desired.

# Maintenance



**CAUTION!** Perform all maintenance machine settings with the machine being disconnected from the power supply! Serious injury due to unintentional or automatic activation of the machine!

- The machine does not require extensive maintenance. If malfunctions and defects occur, let it be serviced by trained persons only.
- Before first operation as well as later every 100 operation hours, you should lubricate all connecting parts (if required, remove beforehand with a brush all swarf and dust).
- Check regularly the condition of the security stickers. Replace them if required.
- Check regularly the condition of the machine.
- The good condition and perfect adjustment are essential for a smooth and a clean cut.
- Store the machine in a closed, dry location.



**NOTICE** Clean your machine regularly after every usage – it prolongs the machines lifespan and is a prerequisite for a safe working environment. Repair jobs shall be performed by respectively trained professionals only!

## Maintenance Plan

Loose or lost screws	Prior to every operation
Damage of any part	Prior to every operation
Saw blade condition	Prior to every operation
Clean machine	After every operation
Empty dust bag	After every operation
Readjust mitre and bevel angle, laser	Monthly
Sharpen saw blade	When necessary
Change saw blade	When worn or defect
Change carbon brush	When carbon brush is worn (< 4mm)
Belt tension	Monthly

## Changing the Saw Blade

In the following cases, the blade needs to be changed:

- You need to change to a different type of blade for better cutting result.
- You replace a worn saw blade with a new one

**NOTE:** Use only saw blades with

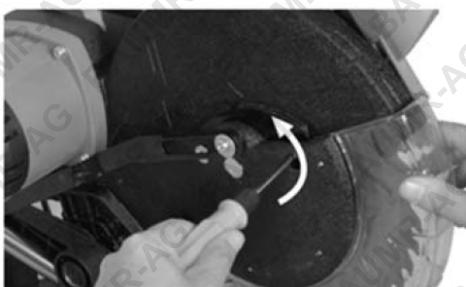
- Max. diameter Ø of 305mm
- Max. thickness of 3mm
- Ø 25, 4mm inner diameter

- Max. RPM of the saw blade must be at least 4200min<sup>-1</sup>.



**CAUTION!** To eliminate the risk of cuts, wear protective gloves when handling the circular saw blade.

1. Set cutting head in raise position.
2. Remove the screw which secures the saw blade screw cover.
3. Pull the moving safety hood downwards and then swing it upwards together with the saw blade screw cover.
4. If the moving safety hood is above the top, fixed safety hood, the saw blade screw is accessible.
5. Hold the moving safety hood in its top position
6. Press the spindle interlock slightly and rotate the blade until the spindle interlock locks.
7. Loosen the flange bolt by turning it clockwise. **ATTENTION: Left thread!**
8. Remove the flange bolt and flange.
9. Remove the blade from the shaft.
10. Install the new blade onto the spindle and pay attention to the **right direction!**
11. Place the flange bolt and flange and tighten it by turning anticlockwise.
12. Move the moving bottom safety hood and the saw blade screw cover into the correct position and tighten the securing screws.
13. Check whether the safety hood functions correctly and covers the saw blade when the saw unit is lowered.



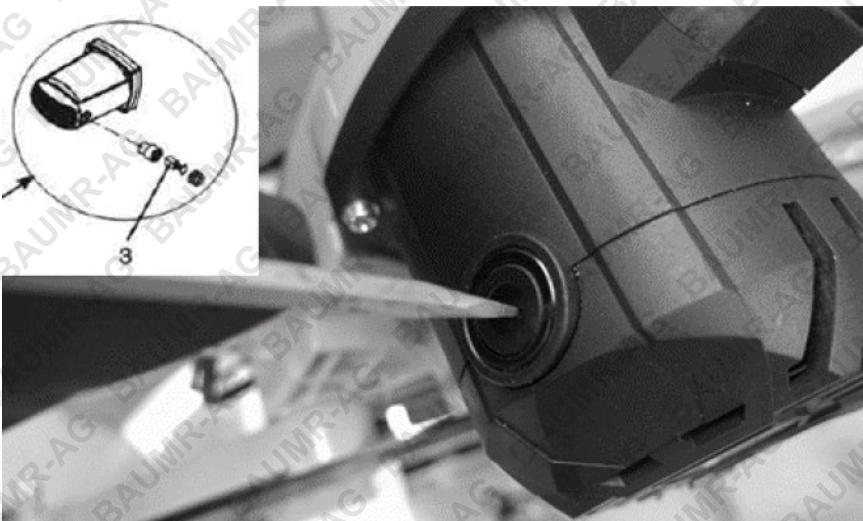
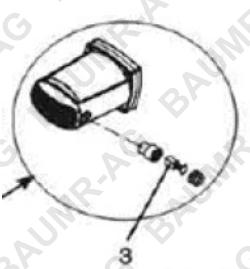
## Changing the Carbon Brush

If the motor becomes loud or even does not start anymore, the carbon brushes are probably worn.

If the carbon brush is worn (<4mm) you need to replace the 2 carbon brushes. 2 carbon brushes are included.

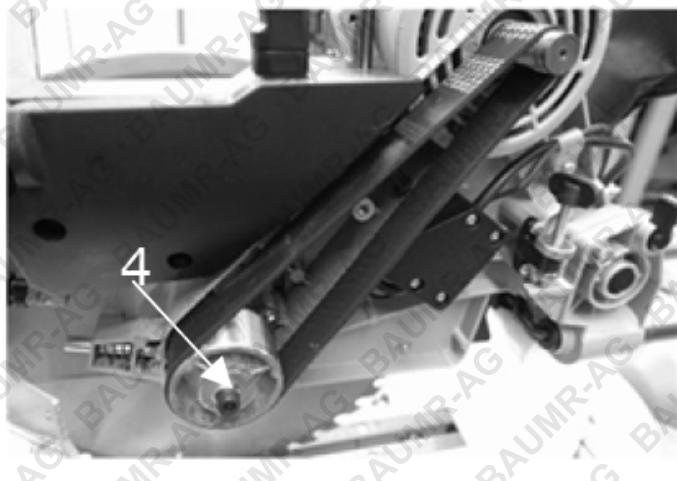
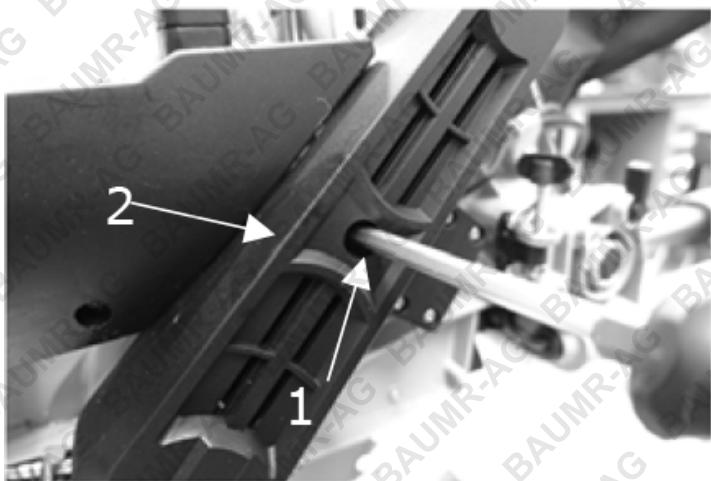
Memorize the direction of the carbon brushes when removing them.

1. Open the carbon brush holder at the motor.
2. Change carbon brush (3).
3. Close the carbon brush holder.



## Changing the Belt

1. Loosen screw (1).
2. Remove belt cover (2).
3. Loosen the belt tension by turning the screws (4) anticlockwise!
4. Change belts.
5. Retighten the screws (4). Do not overtighten!
6. Replace the belt cover and tighten all bolts.



## Cleaning

After each work shift, the machine must be cleaned. Remove chips etc. with a suitable tool. Do not remove them by hand (cutting injury!). Remove dust as well.



**NOTICE** Do not use certain solutions containing ingredients that could damage metallic surfaces as well as using scrubbing agents that could damage the machine surface.

Clean the machine surface with a wet cloth soaked in a mild detergent. Put on all coatless flats a thin coat of oil.

# Troubleshooting



**CAUTION! BEFORE YOU START TROUBLESHOOTING YOUR UNIT, DISCONNECT IT FROM THE POWER SUPPLY FIRST.**

Trouble	Possible cause	Solution
<b>Engine doesn't run (or not running correctly).</b>	Switch is defective.	Repair switch.
	Power supply is OFF.	Repair power supply.
	Carbon brushes are defective.	Change carbon brushes.
	Motor is. Defective.	Repair or change motor.
<b>Saw blade gets stuck.</b>	Blunt saw blade.	Sharpen or change saw blade.
	Work piece to be cut is too hard or too much pressure.	Conform the cutting speed on work piece hardness and engine power.
<b>Material kickback</b>	Blunt saw blade.	Sharpen or change saw blade.
	Wrong running direction of the saw blade.	Re-adjust.
<b>Wrong cutting angle Wrong mitre angle</b>	Wrong adjustments for fence or saw aggregate.	Re-adjust.
<b>Saw blade touches the machine bed</b>	Wrong adjustments for the cutting depth.	Re-adjust.

Many potential sources of error can be avoided if the unit is expertly connected to the electric grid.

If problems persist, please contact a qualified technician for repairs.

## Specifications

<b>Model</b>	DBS-305
<b>Type</b>	Double Bevel
<b>Rated Power</b>	2,000W
<b>No-Load Speed</b>	3,800rpm
<b>Blade</b>	305mm Carbide
<b>Blade Teeth</b>	40
<b>Cutting Capacity</b>	0°/90°: 335 x 105mm, 0°/45°: 235 x 105mm
<b>Laser Class</b>	2
<b>Input Voltage</b>	220-240V / 50Hz
<b>Power Plug</b>	Australian Standard

Minimal Assembly required.



**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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