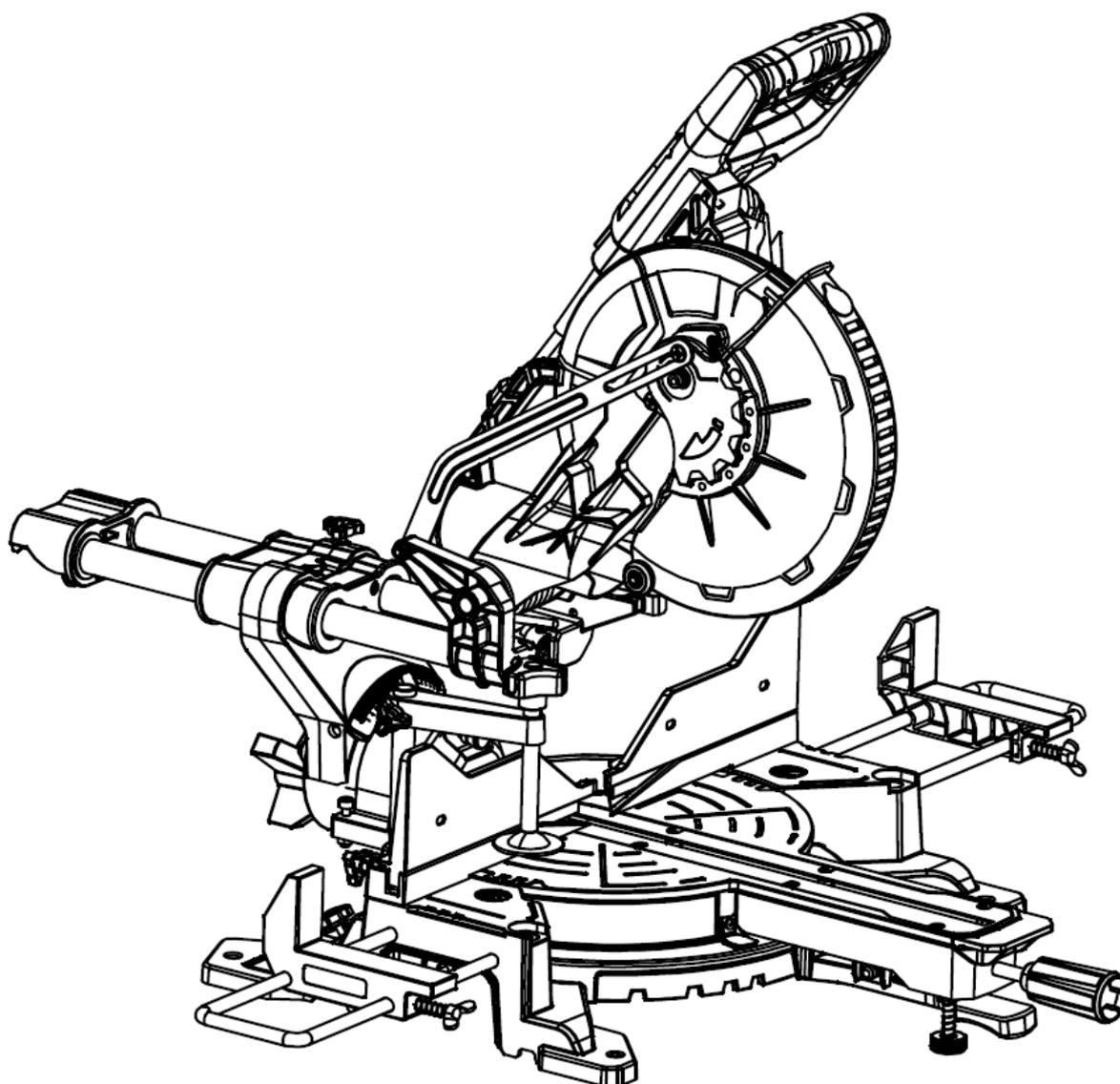


EXCEL

Original operating instructions

MITRE SAW
Model: 11734



UK
CA

CE



2021

Danger! Read all safety regulations and instructions.
Keep all safety regulations and instructions in a safe place for future use.

CONTENTS

Know your product
Description, specifications and instructions
General safety instructions
Additional safety rules for mitre saws
Operating instructions
Maintenance and servicing
Guarantee



Read the instruction manual.



Caution! Wear ear-muffs. The impact of noise can cause damage to hearing.



Caution! Wear a breathing mask.



Wear eye protection.



Caution! Risk of injury! Do not reach into the running saw blade.



In accordance with essential requirements for products sold in the United Kingdom.



Caution: Laser radiation.



Laser class 2 product!



Double insulated for additional protection.



Conforms to relevant safety standards.

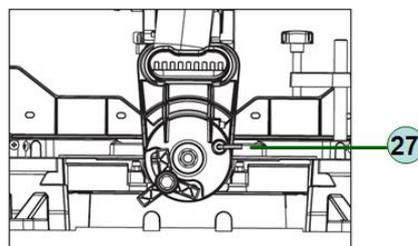
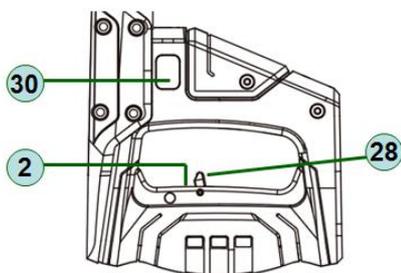
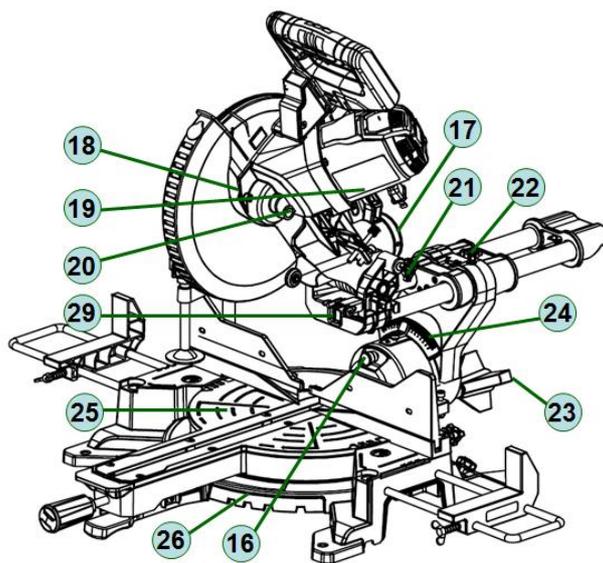
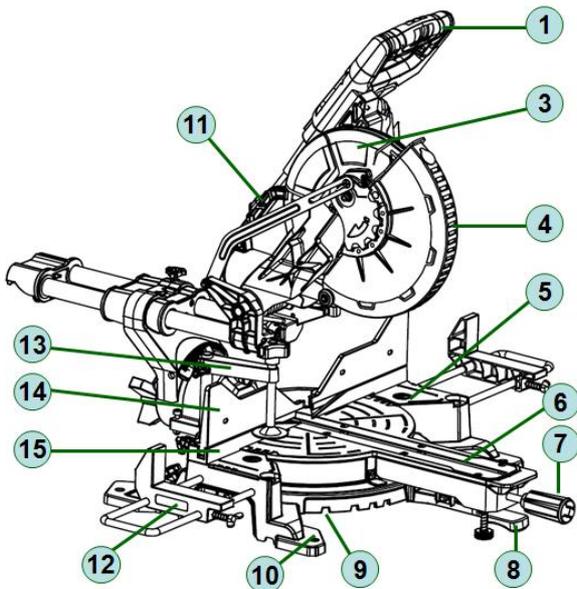


Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

KNOW YOUR PRODUCT

PARTS LIST

1. Switch handle
2. On/Off trigger switch
3. Upper blade guard
4. Lower blade guard
5. Base
6. Table insert
7. Mitre handle
8. Mitre stop locking lever
9. Positive mitre stop
10. Mounting hole
11. Handhold for transportation
12. Extension wing
13. Work clamp
14. Upper fence
15. Lower fence
16. 0° stop pin
17. Dust bag connector
18. Blade
19. Motor
20. Spindle lock
21. Lock-down pin
22. Slide carriage lock knob
23. Bevel lock knob
24. Bevel scale
25. Table
26. Mitre scale
27. Hex wrench
28. lock-off lever
29. Laser
30. On/ Off switch for laser



SPECIFICATIONS

TECHNICAL DATA

- Voltage : 220-240V ~ 50Hz
- Power rating: 2000W
- No-load speed : 5000 RPM
- Saw blade :
Blade diameter:.....Ø255
Blade teeth:.....48T
Blade arbour:.....Ø30mm
Minimum blade thickness:.....2mm
Maximum blade thickness:.....4mm

CUTTING CAPACITY

- Mitre table angles : 0° to 45° to the left & right
- Bevel cuts : 0° to 45° to the left & right
- Straight cut at 0° x 0° : 315 x 90 mm
- Mitre cut at 0° x 45° : 215 x 90 mm
- Bevel cut at 45° x 0° : 315 x 40 mm left & right
- Compound mitre cut at 45° x 45° : 215 x 40 mm left & right
- Net weight : 17 kg
- Minimum size of the workpiece:
45mmX5mmX5mm
- Maximum cross-section size of the workpiece for cross-cutting: 6000mmX315mmX90mm

- L_{pA} sound pressure level94.7 dB(A)
K_{pA} uncertainty3 db
- L_{WA} sound power level107.7dB(A)
K_{WA} uncertainty3 dB

– the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another;

– the declared vibration total value may also be used in a preliminary assessment of exposure.

Warning:

– the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and
– of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

This mitre saw is intended for cutting wood

and analogue materials

WARNING ! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following.

Read all these instructions before attempting to operate this product and save these instructions.

All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and infirm people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area. The same applies for general rules of occupational health and safety

Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

- Contact with the blade.
- Kickback of workpiece and parts of workpiece.
- Blade fracture.
- Catapulting of blade pieces.
- Damage to hearing if effective earmuffs are not worn.
- Harmful emissions of sawdust when the machine is used in closed rooms. Always use supplementary dust extraction where possible.
- Do not use blades that are deformed or cracked.
- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the blade. To ensure safe operation of the mitre saw you must follow these guidelines:
 - Select the correct blade for the material to be cut.
 - Do not use the saw to cut materials other than those recommended by the manufacturer.
The mitre saw can be safely carried by the main handle but only once it has been removed from the mains power and secured in the locked down position.
 - Do not use the saw without the guards in position, in good working order and properly maintained.
 - Ensure that the arm is properly secure when bevelling.
 - Keep the floor area around the machine level, well maintained and free of loose materials.
 - Provide adequate lighting.
 - Ensure that you are trained in the use, adjustment

and operation of the machine.

- Use correctly sharpened blades and observe the maximum speed marked on the blade.
- Do not remove any cut-offs from the cutting area until the guard is fully locked in place and the blade has come to rest.
- Ensure that the mitre saw is fixed to a work bench wherever possible.
- When cutting long pieces which extend well over the table width ensure that the ends are adequately supported at the same height as the saw table top. Supports should be positioned in such a way to ensure that the workpiece does not fall to the ground. once the cut has been made. A number of supports at regular intervals may be required if the workpiece is extremely long.

GENERAL SAFETY INSTRUCTIONS



WARNING! Read all safety warnings instructions, illustrations and specifications provided with this power tool. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

Save all warnings and instructions for future reference.

1) Work area safety

- a) Keep work area clean and well lit.** *Cluttered and dark areas invite accidents.*
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2) Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

- c) Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

- f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

3) Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*

- b) Use safety equipment. Always wear eye protection.** *Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

- c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*

- d) Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

- e) Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*

- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

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

- h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) Do not use the power tool if the switch does not turn it on and off. *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. *Power tools are dangerous in the hands of untrained users.*

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. *Many accidents are caused by poorly maintained power tools.*

f) Keep cutting tools sharp and clean. *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. *Use of the power tool for operations different from intended could result in a hazardous situation.*

h) Keep handles and grasping surfaces dry, clean and free from oil and grease.

Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the power tool is maintained.*

Additional safety rules for mitre saws

a) Mitre saws are intended to cut wood or wood-like products, they cannot be used with abrasive cut-off wheels for cutting ferrous material such as bars, rods, studs, etc. *Abrasive*

dust causes moving parts such as the lower guard to jam. Sparks from abrasive cutting will burn the lower guard, the kerf insert and other plastic parts.

b) Use clamps to support the workpiece whenever possible. If supporting the workpiece by hand, you must always keep your hand at least 100 mm from either side of the saw blade. Do not use this saw to cut pieces that are too small to be securely clamped or held by hand. If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.

c) The workpiece must be stationary and clamped or held against both the fence and the table. Do not feed the workpiece into the blade or cut "freehand" in any way. *Unrestrained or moving workpieces could be thrown at high speeds, causing injury.*

d) Push the saw through the workpiece. Do not pull the saw through the workpiece. To make a cut, raise the saw head and pull it out over the workpiece without cutting, start the motor, press the saw head down and push the saw through the workpiece. *Cutting on the pull stroke is likely to cause the saw blade to climb on top of the workpiece and violently throw the blade assembly towards the operator.*

e) Never cross your hand over the intended line of cutting either in front or behind the saw blade. *Supporting the workpiece "cross handed" i.e. holding the workpiece to the right of the saw blade with your left hand or vice versa is very dangerous.*

f) Do not reach behind the fence with either hand closer than 100 mm from either side of the saw blade, to remove wood scraps, or for any other reason while the blade is spinning. *The proximity of the spinning saw blade to your hand may not be obvious and you may be seriously injured.*

g) Inspect your workpiece before cutting. If the workpiece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the workpiece, fence and table along the line of the cut. *Bent or warped workpieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.*

h) Do not use the saw until the table is clear of all tools, wood scraps, etc., except for the workpiece. *Small debris or loose pieces of wood or other objects that contact the revolving blade can be thrown with high speed.*

i) Cut only one workpiece at a time. *Stacked multiple workpieces cannot be adequately clamped*

or braced and may bind on the blade or shift during cutting.

j) **Ensure the mitre saw is mounted or placed on a level, firm work surface before use.** A level and firm work surface reduces the risk of the mitre saw becoming unstable.

k) **Plan your work.** Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the workpiece and will not interfere with the blade or the guarding system. Without turning the tool ON and with no workpiece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.

l) **Provide adequate support such as table extensions, saw horses, etc. for a workpiece that is wider or longer than the table top.** Workpieces longer or wider than the mitre saw table can tip if not securely supported. If the cut-off piece or workpiece tips, it can lift the lower guard or be thrown by the spinning blade.

m) **Do not use another person as a substitute for a table extension or as additional support.** Unstable support for the workpiece can cause the blade to bind or the workpiece to shift during the cutting operation pulling you and the helper into the spinning blade.

n) **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.** If confined, i.e. using length stops, the cut-off piece could get wedged against the blade and thrown violently.

o) **Always use a clamp or a fixture designed to properly support round material such as rods or tubing.** Rods have a tendency to roll while being cut, causing the blade to bite and pull the work with your hand into the blade.

p) **Let the blade reach full speed before contacting the workpiece.** This will reduce the risk of the workpiece being thrown.

q) **If the workpiece or blade becomes jammed, turn the mitre saw off. Wait for all moving parts to stop and disconnect the plug from the power source and/or remove the battery pack. Then work to free the jammed material.** Continued sawing with a jammed workpiece could cause loss of control or damage to the mitre saw.

r) **After finishing the cut, release the switch, hold the saw head down and wait for the blade to stop before removing the cut-off piece.** Reaching with your hand near the coasting blade is dangerous.

s) **Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position.** The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.

RESIDUAL RISKS

1. Only use insertion tools if you have mastered their use.
2. Observe the maximum speed. The maximum speed specified on the insertion tool may not be exceeded. If specified, observe the speed range.
3. Observe the motor / saw blade direction of rotation.
4. Do not use any insertion tools with cracks. Sort out cracked insertion tools. Repairs are not permitted.
5. Clean grease, oil and water off of the clamping surfaces.
6. Do not use any loose reducing rings or bushes for the reducing of holes on saw blades.
7. Make sure that fixed reducer rings for securing the insertion tool have the same diameter and have at least 1/3 of the cutting diameter.
8. Make sure that fixed reducer rings are parallel to each other.
9. Handle insertion tool with caution. They are ideally stored in the originally package or special containers. Wear protective gloves in order to improve grip and to further reduce the risk of injury.
10. Prior to the use of insertion tools, make sure that all protective devices are properly fastened.
11. Prior to use, make sure that the insertion tool meets the technical requirements of this electric tool and is properly fastened.
12. Only use the supplied saw blade for cutting wood and or wood-like products, never for the processing of metals.

WEAR GOGGLES

WEAR EARMUFFS

WEAR A BREATHING MASK

OPERATING INSTRUCTIONS

ACCESSORIES

The Compound Mitre Saw is supplied with the following accessories as standard:

- Saw blade (fitted)
- 6mm hex key
- Dust bag
- Instruction manual

- Attachments weight: 1.5kg

CROSS CUT 90° AND TURNTABLE 0°

For cutting widths up to approx. 100 mm it is possible to fix the saw's drag function with the locking screw (22) for drag guide in rear position. If the cutting width exceeds 100 mm you must ensure that the locking screw (22) for drag guide is slackened and that the machine head (19) can be moved.

- Move the machine head (19) to its upper position.
- Use the handle (1) to push back the machine head (19) and fix it in this position if required (dependent on the cutting width).
- Place the piece of wood to be cut against the workpiece stop (15) and on the turntable (25).
- Caution! Lock the material with the clamping device (13) on the fixed saw table to prevent the material from moving during the cutting operation.
- Clamp flat material in lying position using the vertical clamping device.
- Alternatively, clamp flat material which you want to cut in upright position using the horizontal clamping device.
- To turn the saw on: push the switch lock (24) to left meanwhile depress and hold the on/off trigger switch (2).
- With the drag guide fixed in place: Use the handle (1) to move the machine head (19) steadily and with light pressure downwards until the saw blade (18) has completely cut through the workpiece.
- With the drag guide not fixed in place: Pull the machine head (19) all the way to the front and then use the handle (1) to move it downwards steadily and with light pressure. Now push the machine head (19) slowly and steadily to the very back until the saw blade (18) has completely cut through the workpiece.
- When the cutting operation is completed, move the machine head (19) back to its upper (home) position and release the On/Off button (2) to turn the saw off.

Important! The integral resetting springs will automatically lift the machine head. Do not simply let go of the handle (1) after cutting, but allow the machine head (19) to rise slowly, applying slight counter pressure as it does so.

CROSS CUT 90° AND TURNTABLE 0° - 45°

The crosscut saw can be used to make crosscuts of 0°-45° to the left and 0° - 45° to the right in relation to the stop rail.

- Release the turntable (25) by undoing the locking

screw (7) & Locker lever (8).

- Turn the turntable (25) and scale pointer to the desired angular setting on the dial (26) and lock into place with the locking screw (7). The saw has locking positions at angles of - 45°, -30°, -22.5°, -15°, 0°, 15°, 22.5°, 30° and 45°, at which the turntable (25) audibly clicks into position.
- Re-tighten the locking screw (7) to secure the turntable (25) in place.
- Cut as described before.

MITER CUT 0°- 45° AND TURNTABLE 0°

The crosscut saw can be used to make miter cuts to the left of 0°-45° and to the right of 0°-45° in relation to the work surface.

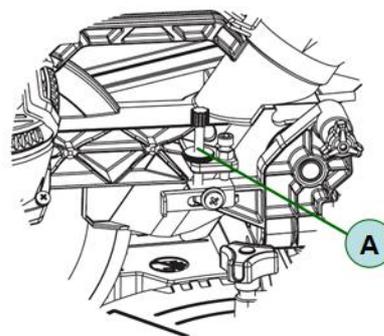
- If required, dismantle the clamping device (13) or mount on the opposite side of the fixed saw table.
- Move the machine head (19) to its upper position.
- Fasten the turntable (25) in 0° position.
- Cut as described before.

MITER CUT 0°- 45° AND TURNTABLE 0°- 45°

The crosscut saw can be used to make miter cuts to the left of 0°-45° and to the right of 0°-45° in relation to the work surface, with simultaneous setting of the turntable from 0°-45° to the left or 0°-45° to the right in relation to the stop rail (double miter cut).

- If required, dismantle the clamping device (13) or mount on the opposite side of the fixed saw table.
- Move the machine head (19) to its upper position
- Release the turntable (25) by undoing the locking screw (7) & Locker lever (8).
- Use the handle (1) to adjust the turntable (25) to the angle required.
- Re-tighten the locking screw (7) to secure the turntable in place.
- Cut as described before.

LIMITING THE CUTTING DEPTH



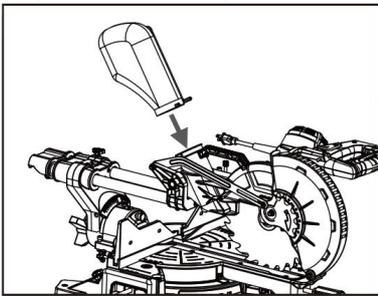
- The cutting depth can be infinitely adjusted using the

screw (A). To do so, undo the knurled nut on the screw (A). Turn the screw (A) in or out to set the required cutting depth and then re-tighten the knurled nut on the screw (A).

- Check the setting by completing a test cut.

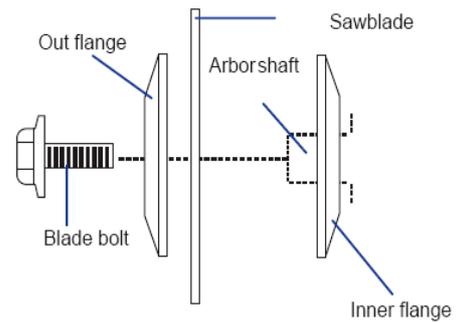
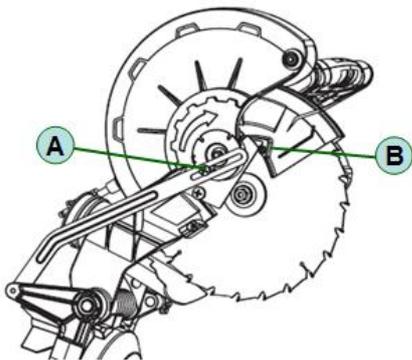
SAW DUST BAG

The saw is equipped with a saw dust bag for saw dust and chips. Slip the sawdust bag onto the connector along side the transport handle (11). The saw dust bag can be emptied by means of a zipper at the bottom. The sawdust bag can be removed in order to connect the suction hose of a dust extractor (wet and dry vacuum cleaner or extraction system). The extraction system is then plugged onto the same position (suction hose/extraction system is not included in the scope of this delivery).



CHANGING THE SAW BLADE

- **Warning!** Before changing the saw blade: Pull out the power plug!
- **Caution!** Wear work gloves to prevent injury when changing the saw blade.



- Swing the machine head up wards.
- Loosen the cover plate screw (A) about 2 turns with a Phillips screwdriver. Do not remove this screw from the tool.
- Lift and hold up the lower blade guard (4) to expose the threaded blade bolt.
- Press the saw shaft lock (20) with one hand while positioning the Allen key on the flange bolt with the other hand. The saw shaft lock (20) engages after no more than one rotation.
- Now, using a little more force, slacken the flange screw in the clockwise direction.
- Turn the flange screw right out and remove the external flange .
- Take the blade (18) of the inner flange and pull out down wards.
- Carefully clean the flange screw, outer flange and inner flange.
- Fit and fasten the new saw blade (18) in reverse order.
- Important! The cutting angle of the teeth, in other words the direction of rotation of the saw blade (18) must coincide with the direction of the arrow on the housing.
- Check to make sure that all safety devices are properly mounted and in good working condition before you begin working with the saw again.
- Important! Every time that you change the saw blade, check to see that it spins freely in the table insert (6) in both perpendicular and 45° angle settings.
- Important! The work to change and align the saw blade (18) must be carried out correctly.

TRANSPORT

- Re-tighten the locking screw to secure the turntable in place.
- Activate the release button (28), press the machine head downwards and secure with the safety pin (21). The saw is now locked in its bottom position.

- Fix the saw's drag function with the locking screw (22) for drag guide in rear position.
- Carry the equipment by the fixed saw table (11) and the transport handle.

OPERATING THE LASER

To switch on: Press the On/Off switch (30) to the "I" position to switch on the laser (29). A laser line is projected onto the material you wish to process, providing an exact guide for the cut. To switch off : Press the On/Off switch (30) to the another position.

ELECTRIC BRAKE

For safety reasons, the equipment is supplied with an electric brake system for the saw blade. The equipment may therefore emit an odor or generate sparks when it is switched off . This has no influence on the operational performance or safety of the equipment.

Maintenance and servicing

MAINTENANCE

Warning! Remove the plug before carrying out any adjustment, servicing or maintenance!

1. Store the tool, instruction manual and accessories in a secure place. In this way you will always have all the information and parts on hand.
2. Keep the tool's air vents unclogged and clean at all times.
3. Regularly check to see if any dust or foreign matter has entered the grills near the motor and around the trigger switch. Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes whilst cleaning.
4. Re-lubricate all moving parts at regular intervals.
5. If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.
6. Never use caustic agents to clean plastic parts.

CAUTION. Water must never come into contact with the tool.

GENERAL INSPECTION

Regularly check that all the fixing screws are tight, particularly the outer flange. They may vibrate loose over time.

The supply cord of the tool and any extension cord used should be checked frequently for damage. If damaged, have the cordset replaced by an authorised service facility.

Replace the extension cord if necessary.

LUBRICATION

The grease in the gearbox will require replacement after extensive use of the tool. Please refer to an authorised service agent to provide this service.

GENERAL INSPECTION

1. Regularly check that all the fixing screws are tight. They may vibrate loose over time.

SERVICE

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.