

**challenge**  
**xtreme**  
READY FOR THE CHALLENGE

## 1300W CIRCULAR SAW WITH LASER



M1Y-DU26-185J-43-1300  
ORIGINAL INSTRUCTIONS

## INTRODUCTION

Thank you for purchasing a CHALLENGE XTREME circular saw.

We would like you to be completely satisfied with your new product and hope you get many years of satisfaction out of this tool.

Your M1Y-DU26-185J-43-1300 circular saw is suitable for cutting soft and hard wood. **Please note that the blade pre-installed in the saw as supplied is intended for use with soft wood only.** Any other use or modification of the tool constitutes improper use and can pose a serious risk of accident. The manufacturer is not liable for damage caused by improper use of the tool.

## GENERAL POWER TOOL SAFETY WARNINGS



**WARNING:** Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

The term "power tool" in the warnings refers to your electric (corded) power tool or battery-operated (cordless) power tool.

### 1) Work Area Safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **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.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### 2) Electrical Safety

- **To avoid danger to life from electric shock: The mains plug on the device must be compatible with the socket. The plug must not be modified in**

**any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified plugs and matching sockets reduce the risk of electric shock.

- **Avoid bodily contact with earthed surfaces such as pipes, radiators, ovens and refrigerators.** There is an increased risk of electric shock if your body is earthed.
  - **Keep the device away from rain or moisture. Water ingress into an electrical device increases the risk of electric shock.**
  - **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the socket. Keep the mains lead away from heat, oil, sharp edges or the moving parts of the device.** Damaged or tangled mains leads increase the risk of electric shock.
  - **When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors.** The use of an extension cable suitable for outdoor use reduces the risk of electric shock.
  - **Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable.** The use of an RCD reduces the risk of electric shock.
- ### 3) Personal Safety
- **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.
  - **Use personal protective equipment. Always wear eye protection.**

## ORIGINAL INSTRUCTIONS

Protective equipment such as dust mask, non-skid safety shoes, hard hat, or ear protection used for appropriate conditions will reduce personal injuries.

- **Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or carry it.**

Accidents can happen if you carry the device with your finger on the ON / OFF switch or with the device switched on.

- Remove any setting tools or spanners before you switch the device on. A tool or spanner left attached to a rotating part of the device can lead to injury.
- **Avoid placing your body in an unnatural position.** Keep proper footing and balance at all times. By doing this you will be in a better position to control the device in unforeseen circumstances.
- **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves clear of moving parts.** Loose clothing, jewellery or long hair can become trapped in moving parts.
- **If vacuum dust extraction and collection devices are fitted do not forget to check that they are properly connected and used correctly.** The use of these devices reduces the hazard presented by dust.

#### 4) Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** Correct usage will complete the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the On/Off switch does not work.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storage.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **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.
- **Maintain power tools properly.** Check for misalignment or binding of moving parts, for breakage of parts and any other conditions that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations other than those intended could result in a hazardous situation.

#### 5) Service

**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.

## SAFETY WARNING FOR CIRCULAR SAWS

- **DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.

- **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- **Never hold the workpiece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- **Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.
- **Causes and operator prevention of kickback:**
  - Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
  - When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
  - If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator. Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces.** Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** Investigate and take corrective actions to eliminate the cause of blade binding.
- **When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material.** If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- **Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight.** Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.

- **Use extra caution when making a "plunge cut" into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.
- **Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If saw is accidentally ripped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- **Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.
- **Always observe that the lower guard is covering the blade before placing saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.
- **Do not reach into the saw dust ejector with your hands.** They could be injured by rotating parts.
- **Do not work overhead with the saw.** In this manner you do not have sufficient control over the power tool.
- **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **Do not operate the power tool stationary.** It is not designed for operation with a saw table.
- **Do not use high speed steel (HSS) saw blades.** Such saw blades can easily break.
- **Do not saw ferrous metals.** Red hot chips can ignite the dust extraction.
- **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

## SAFETY WARNING FOR YOUR LASER

The laser device fitted to this tool is class 1 with a maximum radiation of 1mW and 650nm wavelength. These lasers do not normally present an optical hazard although staring at the beam may cause flash blindness. Do not stare directly at the laser beam. **A hazard may exist if you deliberately stare into the beam, please observe**

## ***all safety rules as follows:***

1. The laser shall be used and maintained in accordance with the manufacturer's instructions.
2. Never aim the beam at any person or an object other than the work piece.
3. The laser beam shall not be deliberately aimed at another person and shall be prevented from being directed towards the eye of a person for longer than 0.25 seconds.
4. Always ensure the laser beam is aimed at a sturdy work piece without reflective surfaces, e.g wood or rough coated surfaces are acceptable.  
Bright shiny reflective sheet steel or similar is not suitable for laser applications as the reflective surface may direct the laser beam back at the operator.
5. Do not change the laser device with a different type. Repairs must be carried out by the manufacturer or an authorized agent.

***6. CAUTION: Use of controls or adjustments other than those specified herein may result in hazardous radiation exposure.***



**WARNING:**  
**LASER RADIATION**  
**DO NOT STARE INTO**  
**BEAM**  
**Wave length 650nm**  
**Power max.< 1mW**

## **SYMBOLS**



To reduce the risk of injury, user must read instruction manual



Warning



Double insulation



Wear eye protection



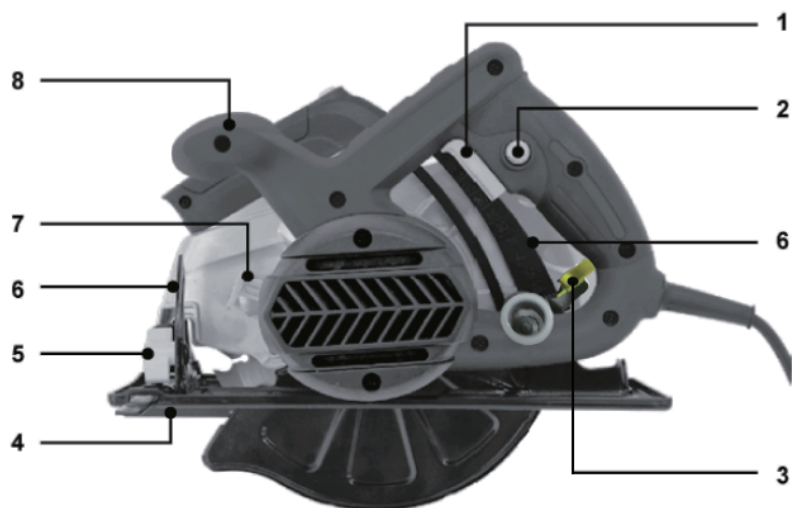
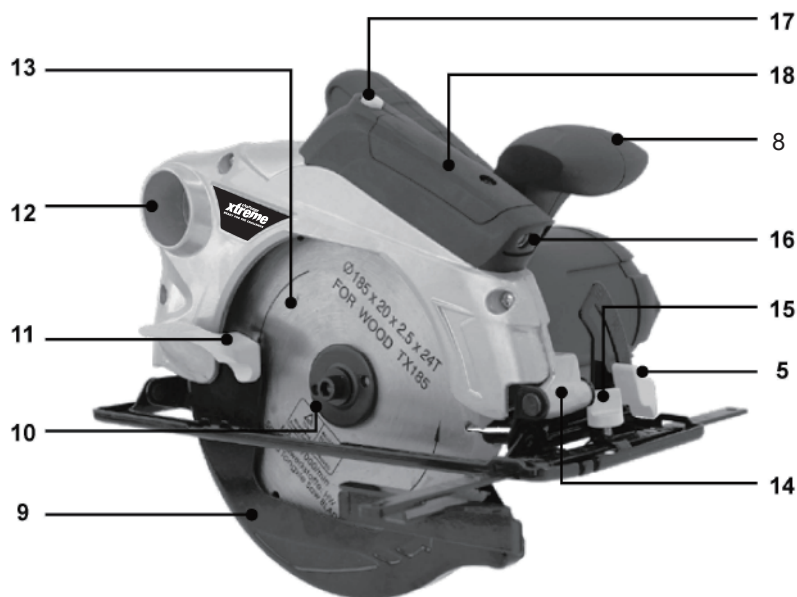
Wear ear protection



Wear dust mask



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





## **COMPONENT LIST**

1. On/Off switch
2. Safety lock switch
3. Cutting depth clamping knob
4. Baseplate
5. Sawing angle clamping knob
6. Protractor Guide
7. Spindle lock pin
8. Handgrip
9. Saw blade safety guard
10. Blade clamping washer
11. Blade guard knob
12. Dust Extraction port
13. Saw blade
14. Depth adjustment pivot shaft
15. Parallel guide clamping knob
16. Laser
17. On/off switch for laser
18. Laser battery compartment

## **CHECK THE DELIVERY PARTS**

Carefully remove the machine from its packaging and check as the following parts are complete:

- 1300W circular saw with laser
- 1 x 24T saw blade pre-assembled on the machine
- 1 x dust port
- 1 x Parallel guide
- 2 x 1.5V AAA batteries for the laser
- 1 x hex key
- operating instructions


If any parts are missing or damaged, please contact your dealer.



**TECHNICAL DATA**


Voltage	230-240V~50Hz
Input power	1300W
No load speed	4700/min
Cutting capacity 90 degree	65mm
Cutting capacity 45 degree	47mm
Bevel degree	0-45°
Blade size	185mm
Protection class	□/II
Machine weight	4.1kg

**NOISE INFORMATION**

A weighted sound pressure	94dB(A)
A weighted sound power	105dB(A)
$K_{PA}$ & $K_{WA}$	3dB(A)
Wear ear protection when sound pressure is over	80dB(A) 

**VIBRATION INFORMATION**

Vibration total values (triax vector sum) determined according to EN 60745:	
Vibration information	Vibration emission value $a_h = 4.26 \text{ m/s}^2$
	Uncertainty $K = 1.5 \text{ m/s}^2$

 **WARNING** The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.


The tool being in good condition and well maintained.

The use of the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and if any anti vibration accessories are used.

And the tool is being used as intended by its design and these instructions.

***This tool may cause hand-arm vibration syndrome if its use is not adequately managed.***

 **WARNING:** To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

If the tool is to be used regularly then invest in anti vibration accessories.

Avoid using tools in temperatures of 10°C or less.

Plan your work schedule to spread any high vibration tool use across a number of days.

## OPERATING INSTRUCTIONS



**NOTE:** Before using the tool, read the instruction book carefully.

### ADJUSTMENTS

With this saw you can adjust: the blade cutting depth and the mitre cutting angle.

#### 1. CUTTING DEPTH ADJUSTMENT

1. To adjust the blade cutting depth, face the saw away from you.
2. Loosen the cutting depth adjustment knob which is located at the back of the saw guard.
3. Hold the baseplate flat against the edge of the workpiece and lift the main body until the blade is at the required depth.
4. Firmly tighten the cutting depth adjustment screw.

#### 2. Mitre cutting

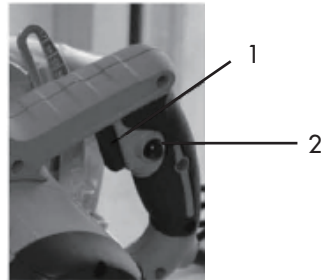
1. For mitre cutting undo the mitre cutting adjustment knob which can be found at the front of the metal base plate.
2. Twist the main body until the required angle is reached. Use the mitre adjustment guide to help set the required angle.
3. Tighten the screw to secure the baseplate.



## USING THE CIRCULAR SAW

### 1. SAFETY ON/OFF SWITCH

The switch is locked off to prevent accidental starting. To operate the power switch for use, squeeze the lock button (2) and the power switch will operate freely. When the power switch is then released it will automatically become locked again.



### 2. USING THE PARALLEL GUIDE

A parallel guide allows you to make parallel cuts in sheets of wood which are consistently the same width.

1. Slide the parallel guide into position.
2. Adjust the guide to the required width, and secure by tightening the parallel guide securing screw.

When you now use the saw, ensure that the edge of the parallel guide is resting against the edge of the wood to give a perfect parallel cut.

### 3. OPERATION

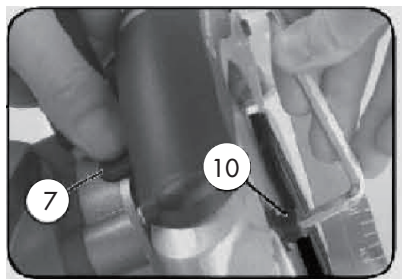
Adjust the mitre angle and cutting depth to the required level and place front of the base plate on the workpiece (do not allow the blade to touch the workpiece at this time).

Start the saw, when the saw is at maximum speed slowly push forward. Hold the saw securely with both hands.



## REMOVAL OF THE SAW BLADE

- 1) Before you commence any work on the Circular Saw, ensure that the Circular Saw is turned off and unplugged from the power outlet.
- 2) Wear protective gloves when installing a saw blade. Contact with the saw blade can lead to injuries.
- 3) To change the saw blade, it is best to place the Circular Saw with the blade face pointing upwards
- 4) Press the spindle lock (7) keeping it pressed while turning the hexagon key in a clockwise direction. Tilt the automatic blade safety guard back and hold firmly. Remove the clamping bolt, clamping flange (10) and the saw blade from the saw spindle.



## MOUNTING THE SAW BLADE

- 1) Clean the saw blade and all clamping parts to be assembled.
- 2) Pull the automatic blade safety guard backwards and hold firmly.
- 3) Place the saw blade on to the mounting flange. The cutting direction of the teeth (direction of arrow on saw blade) and the direction of rotation arrow on the blade guard must correspond.
- 4) Mount the clamping washer and screw in the clamping bolt. Observe correct mounting position of the mounting flange and clamping bolt.
- 5) Press the spindle lock and keep it pressed.
- 6) With the hexagon key, tighten the clamping bolt firmly by turning in a counterclockwise direction.

## USING THE LASER GUIDE

**IMPORTANT NOTE:** *Never stare directly into the laser beam and never point the beam at anybody. The laser beam energy is extremely harmful to your eyes.*

1) The laser guide is for the purpose of precision cutting. Make sure the batteries are fitted in the laser guide before carrying out precision cutting. To fit the batteries, remove the battery storage cover, insert 2 x 1.5V AAA batteries( supplied) , then assemble the cover.

NOTE: Ensure correct battery polarity.

2) To use the laser guide, simply push the on/off switch to the on position, the laser guide then projects a visible red line on the workpiece surface, make your cut along the red line.

NOTE: The sawdust may block the laser beam, clean the laser generator periodically. Switch off the laser when you stop the machine, Switch off the laser when machine stops.

**Warning!** *Take out batteries if you do not need to use the laser for a long time.*

**Never stare directly into the laser beam and never point the beam at anybody.**

## MAINTENANCE AND CLEANING

Before any work commences on the Circular Saw, ensure that it is unplugged from the power outlet.

For optimum use, regularly check to see if any dust or foreign matter has entered the ventilations slots near the motor and around the on/off switch. Use a soft brush if required. Wear safety glasses to protect your eyes whilst cleaning. If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but not alcohol, petrol or other cleaning agents.

Never use caustic agents to clean plastic parts. Lubricate all moving parts at regular intervals.



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

If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organisation.

If the supply cord is damaged it must be replaced by a service agent or a similarly qualified person in order to avoid hazard.

## PLUG REPLACEMENT

Your Power Tool is supplied with a fitted plug, however if you need to fit a new plug follow the instruction below.

### IMPORTANT

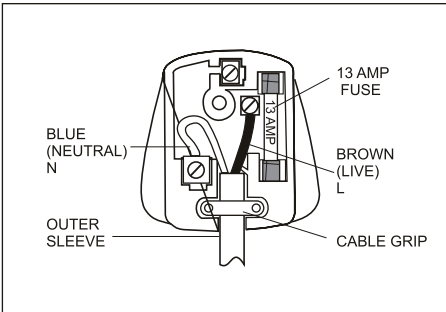
The wires in the mains lead are coloured in accordance with the following code:

**Blue = Neutral Brown = Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with **N**.

The wire which is coloured brown must be connected to the terminal which is marked with the letter **L**.

If a 13 AMP (BS 1363/A) Plug is used, a 13 AMP Fuse must be fitted, or if any other type of plug is used a 13 AMP Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.



**Note:** If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.

## **DISPOSAL**



Do not dispose of electrical appliances with your domestic waste! The packaging comprises exclusively environmentally- friendly material. Dispose of it in your local recycling containers. General inspection.

Regularly check that all the fixing .They may vibrate loose over time.

## **GUARANTEE**

This product is selected for DOMESTIC USE ONLY and not for business use. This product is guaranteed against manufacturing defects for a period of 12 months. This does not cover the product where the fault is due to misuse, abuse, use in contravention of the instructions, or where the product has been the subject of unauthorised modifications or alterations, or has been the subject of commercial use. In the event of a problem with the product within the guarantee period please contact the service centre for assistance on 08454 505299. If the item is shown to have an inherent defect present at the time of sale, you will be provided with a replacement. Your statutory rights remain unaffected.

Guarantor: Home Retail Group, MK9 2NW



## EC Declaration of Conformity

Year of 1st Issue .  
12

Argos Ltd

489-499 Avebury Boulevard  
Saxon Gate West  
Milton Keynes  
Buckinghamshire  
MK9 2NW

We hereby certify that the product stipulated above complies with all the relevant provisions of the following EC new approach directive/s.

**This declaration of conformity is issued under the sole responsibility of the manufacturer**

Type of Product: **1300W Circular Saw With Laser**

Model Number: **M1Y-DU26-185J-43-1300**  
Cat / Article Number: 7107205

Product Description:

Photograph:

Voltage: 230-240V~ 50Hz  
Input power: 1300W  
No load speed: 4700/min  
Cutting capacity 90 degree: 65mm  
Cutting capacity 45 degree: 47mm  
Bevel degree: 0 - 45°  
Blade size:  $\Phi$  185mm



Applicable EC Directives		
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<input checked="" type="checkbox"/> 2006/42/EC (MD)	<input checked="" type="checkbox"/> 2004/108/EC (EMC)	<input type="checkbox"/> 1999/5/EC (R&TTE)
<input checked="" type="checkbox"/> 2006/95/EC (LVD)	<input type="checkbox"/> 2009/105/EC (Pressure)	<input type="checkbox"/> 2000/14/EC Annex , 2005/88/EC
<input type="checkbox"/> 2009/125/EC (ErP)	<input type="checkbox"/> 2009/48/EC (Toys)	<input type="checkbox"/> L <sub>WA</sub> = 105dB(A), L <sub>PA</sub> = 94.0dB(A), K=3dB(A)
<input type="checkbox"/> 2009/142/EC (Gas)	<input type="checkbox"/> 89/106/EEC (Construction)	<input type="checkbox"/> / /EC (Others)

Applicable Harmonized Standards:	Report Date	Verification of conformity Certificate	Notified Body
EN60745-1:2009 EN60745-2-5:2007+A11:2009 EN60825-1:2007	2009.12	GS ITS	
EN 55014-1: 2006+A1:2009 EN 55014-2: 1997/+A1:2001/+A2 :2008 EN 61000-3-2:2006/+A1:2009/+A2:2009 EN 61000-3-3:2008	2011.5.26	EMC ITS	
EC Type approval certificate number			

Issued number: 1.0

Issued on : 2012-5-14

Signed :

Creator: Max Shi

Name : Roger Panton-Kent

Position: QA

Position: Head of Quality Assurance

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