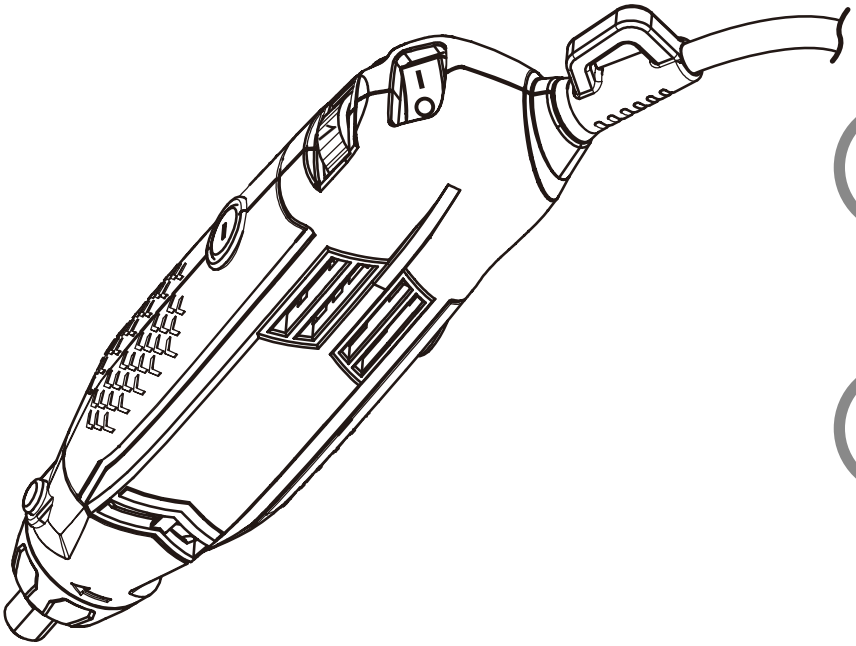
TITAN

130W Rotary Tool



TTB863MLT

Barcode: 5059340264301

WARNING: Read the instructions before using the product!

Original Instructions_TTB863MLT_GB_V05_20210824

Let's
get started...

These instructions are for your safety. Please read through them thoroughly before use and retain them for future reference.

Getting **started...** 02

In more **detail...** 26

Safety warnings

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 mains-operated (corded) power tool or battery-operated (cordless) power tool.

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.

Electrical safety

>**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.

>**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.

Safety warnings

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

>**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.

>**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.

>**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.

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

>**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 energising power tools that have the switch on invites accidents.
>**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.
>**Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
>**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.
>**If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

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

Safety warnings

>**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. Check for misalignment or binding of moving parts, breakage of parts and any other condition 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 different from those intended could result in a hazardous situation.

Service

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

Safety warnings for all operations

Safety warnings common for grinding, sanding, wire brushing, polishing, carving or abrasive cutting-off operations.

>**This power tool is intended to function as a grinder, sander, wire brush, polisher, carving or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

>**Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.

>**The rated speed of the grinding accessory must be at least equal to the maximum speed marked on the power tool.** Grinding accessories running faster than their rated speed can break and fly apart.

>**The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.

>**The arbour size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

>**Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck.** If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.

Safety warnings

>**Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tears or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.

>**Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

>**Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

>**Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

- **Always hold the tool firmly in your hand(s) during the start-up.** The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- **Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use.** Clamping a small workpiece allows you to use your hand(s) to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- **After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened.** Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

Safety warnings

>**Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

Further safety instructions for all operations – Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, sanding band, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

>**Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces.** The operator can control kickback forces, if proper precautions are taken.

>**Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

>**Do not attach a toothed saw blade.** Such blades create frequent kickback and loss of control.
>**Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown).** Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.
>**When using rotary files, cut-off wheels, high-speed cutters or tungsten carbide cutters, always have the work securely clamped.** These wheels will grab if they become slightly canted in the groove, and can kickback. When a cut-off wheel grabs, the wheel itself usually breaks. When a rotary file, high-speed cutter or tungsten carbide cutter grabs, it may jump from the groove and you could lose control of the tool.

Safety warnings specific for grinding and abrasive cutting-off operations

>**Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
>**For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length.** Proper mandrels will reduce the possibility of breakage.
>**Do not “jam” a cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or snagging of the wheel in the cut and the possibility of kickback or wheel breakage.

Safety warnings

> **Do not position your hand in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your hand, the possible kickback may propel the spinning wheel and the power tool directly at you.

> **When wheel is pinched, snagged or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel pinching or snagging.

> **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

> **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

> **Use extra caution when making a “pocket cut” into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

Safety warnings specific for wire brushing operations

>**Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.

>**Allow brushes to run at operating speed for at least one minute before using them. During this time no one is to stand in front or in line with the brush.** Loose bristles or wires will be discharged during the run-in time.

>**Direct the discharge of the spinning wire brush away from you.** Small particles and tiny wire fragments may be discharged at high velocity during the use of these brushes and may become imbedded in your skin.

Safety warnings for bonded abrasive wheels

>**General**

Abrasives are breakable and shall therefore be handled with utmost care! The use of damaged or improperly mounted or used abrasives is dangerous and can cause serious injuries.

>**Delivery, handling and storage**

Abrasives shall be handled and transported with care. Abrasives shall be stored in such a manner that they are not subjected to mechanical damages and harmful environmental influences.

>**Selection of abrasives**

Information on the label or the abrasive as well as restrictions of use, safety indications or any other instruction shall be followed. In case of doubt concerning the selection of abrasives, the user shall request information from the manufacturer or supplier.

Safety warnings

>**Visual inspection**
Abrasives shall be subjected to a visual inspection as received before mounting.

>**Mounting, before starting and information for grinding**
The mounting of abrasives shall be carried out according to the instructions provided by both, the abrasive and the machine manufacturer. Special attention shall be drawn to the fact that mounting of abrasives is to be carried out by a qualified trained person. Each time after mounting, the abrasive shall be test run for a reasonable time – the specified maximum operating speed of the abrasive shall not be exceeded.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

Take the following points into account to minimise the vibration and noise exposure risks:

>Only use the product as intended by its design and these instructions.

>Ensure that the product is in good condition and well maintained.

>Use correct attachments for the product and ensure they are in good condition.

>Keep tight grip on the handles/grip surface.

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

>Plan your work schedule to spread any high vibration tool use across a longer period of time.

Emergency

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

>**Always be alert when using this product, so that you can recognise and handle risks early.** Fast intervention can prevent serious injury and damage to property.

>**Switch off and disconnect from the power supply if there are malfunctions.** Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

>Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.

>Injuries and damage to property due to broken cutting attachments or the sudden impact of hidden objects during use.

>Danger of injury and property damage caused by flying objects.

Safety warnings

WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

WARNING! Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paint
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated timber

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

- Work in a well-ventilated area.
- Work with approved protective equipment, such as those dust masks that are specially designed to filter microscopic particles.

Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarize yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt, (alternating voltage)	mm	Millimetre
Hz	Hertz	kg	Kilogram
W	Watt	dB(A)	Decibel (A-rated)
/min or min^{-1}	Per minute	m/s^2	Metres per second squared


Lock / to tighten or secure.


Unlock / to loosen.


Note / Remark.


Caution / Warning.


Read the instruction manual.


Wear hearing protection.


Wear eye protection.


Wear a dust mask.


Wear protective gloves.


Wear protective, slip-resistant footwear.

yyWxx Manufacturing date code; year of manufacturing (20yy) and week of manufacturing (Wxx)


Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.


This product is of protection class II. That means it is equipped with enhanced or double insulation.

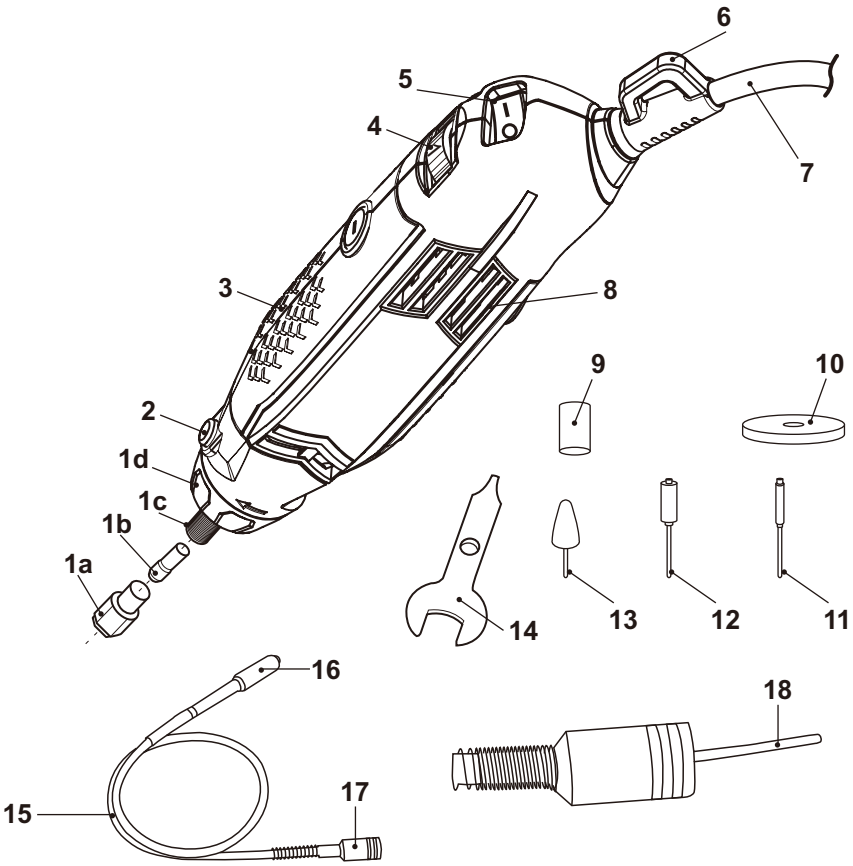

The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.


UK Conformity Assessed.


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

Getting started...

Your product



1. Tool socket
   a. Clamp nut
   b. Collet
   c. Spindle
   d. Threaded nut
2. Spindle lock button
3. Gripping surface
4. Speed dial
5. On/off switch
6. Hook
7. Power cord with plug
8. Air vents
9. Grinding belt (x2)
10. Cutting disc (x10)
11. Mandrel for cutting disc
12. Mandrel for grinding belt
13. Diamond grinding pin
14. Wrench
15. Flexible shaft
16. End cap
17. Aluminum ring
18. Inner shaft

Technical specifications

General		
> **Rated voltage, frequency**	:	220 – 240 V~ , 50 Hz
> **Rated power input**	:	130 W
> **Rated speed n**	:	max. 36000 min^{-1}
> **Spindle thread**		M8
> **Protection class**	:	II ⧈
> **Weight**	:	approx. 1.2 kg
Rated capacity		
> **Collet size**	:	Ø 3.2 mm
> **max. allowable overhang of mandrel**	:	20 mm
> **max. mandrel length**	:	40 mm
> **max. recommended diameter of tool attachment**	:	35 mm
Sound values		
> **Sound pressure level L_{pA}**	:	70.7 dB (A)
> **Sound power level L_{WA}**	:	81.7 dB (A)
> **Uncertainty K_{pA} , K_{WA}**	:	3 dB (A)
Hand arm vibration values		
> **Vibration value a_h**	:	2.935 m/s^2
> **Uncertainty K**	:	1.5 m/s^2

The sound values have been determined according to noise test code given in EN 60745-1, using the basic standards EN ISO 3744 and EN ISO 11203.

The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary.

The declared vibration value has been measured in accordance with a standard test method (according to EN 60745-2-23) and may be used for comparing one product with another. The declared vibration value may also be used in a preliminary assessment of exposure.

⚠ **WARNING!** Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into consideration.
Proper measures include among others regular maintenance and care of the product and cutting attachments, keeping hands warm, periodical breaks and proper planning of work processes.

Getting started...

Rating Label Explanation:
TTB863MLT = Model Number
TT = TITAN
B = 230 - 240V AC
863 = Version Number
MLT = Rotary Tool

Unpacking

> Unpack all parts and lay them on a flat, stable surface.
> Remove all packing materials and shipping devices, if applicable.
> Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
> Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

WARNING! The product and the packaging are not children's toys! Children must not play with plastic bags, sheets and small parts! There is a danger of choking and suffocation!

You will need

(items not supplied)
suitable personal protective equipment

(items supplied)
252pc accessories
Flexible Shaft (15)

Setup

WARNING! The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!
Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!
Do not connect the product to power supply before it is completely assembled!

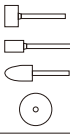
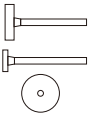
Tool attachments

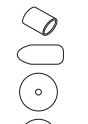
Different tool attachments can be used with this product depending on the material being worked.

WARNING! Check the voltage! The voltage must comply with the information on the rating label!

WARNING! Always use the correct tool attachment according to the intended use!
Observe the technical requirements of this product (see section Technical specifications) when purchasing and using tool attachments!
Some tool attachments are very sharp and become hot during use! Handle them carefully! Wear protective gloves when handling tool attachments in order to avoid injuries like burns and cuts!

Tool attachments are available in various shapes and sizes. Below is only overview of the supplied attachments. Ask in store for more choices.

Picture	Num.	Description	Parameter/corn	rpm*	Usage
	2 2 2 6	Aluminium Oxide Grinding wheel Aluminium Oxide Grinding wheel Aluminium Oxide Grinding Cone Aluminium Oxide Grinding Wheel	15.8x9.6 mm 120 grit 9.5x12.7 mm 120 grit 9.5x20 mm 120 grit 20.0x3.0 mm 120 grit	8000 - 33000	Cleaning, deburring, grinding and polishing of various materials including: - rust - cast parts - welding points - rivets
	2 2 6	Silicon Carbide Grinding wheel Silicon Carbide Grinding wheel Silicon Carbide Grinding wheel	20x4.0 mm 120 grit 10.3x4.0 mm 120 grit 20.0x3.0 mm 120 grit	8000 - 33000	Cleaning, deburring, grinding and polishing of - non-ferrous metal - rock - metal - ceramic - porcelain
	8 4	Abrasive cylinder Abrasive cylinder	6.4x12.7 mm 80 grit 12.7x12.7 mm 80 grit	8000 - 26000	For shaping of wood and fiberglass
	1 1 1 1	Cylindrical Diamond Cutter Ball Shaped Diamond Cutter Cone Shaped Diamond Cutter	2.3x9.5mm 4.1 mm 2.0 mm 3.2 mm	8000 - 33000	For fine detailed work on: - wood - soft stone material - ceramic - glass
	1 1 1	Cylindrical HSS Cutter Ball Shaped HSS Cutter Cone Shaped HSS Cutter	3.2x9.5 mm 3.2 mm 3.2x8.0 mm	8000 - 33000	Plastic. wood, soft steel. Soft metals, fibreglass
	5 60 72	Cut-off wheel Fiberglass Cut-off wheel Thin cut-off wheel	32x1.2 mm 24x0.6 mm 24x0.45 mm	8000 - 33000	Cutting of - plastic - wood - metal
	40	Sand wheel 180 grit	20.5 mm	8000 - 20000	For sanding of: - plastic -wood - metal
	1	Flat wrench	9.5 mm	N/A	For loosening and tightening of chuck
	1 1	Radial nylon brush Axial nylon brush	21.0x43.0 mm 5.0x43.0 mm	8000 - 15000	Cleaning, polishing of - silver - jewellery
	1 1 1	Rustfree Axial brush Rustfree Axial brush Rustfree Radial brush	12.7x43.0 mm 5.0x43.0 mm 21.0x43.0 mm	8000 - 15000	Removing of rust, corrosion, Polishing of metals

Picture	Num.	Description	Parameter/corn	rpm*	Usage
	1 1	Axial Brass brush Radial Brass brush	12.7x43.0 mm 21.0x43.0 mm	8000 - 15000	Cleaning of electrical parts
	1	Flap wheel	32.0x9.5 mm 80 grit	8000 - 15000	For shaping and polishing of wood and fiberglass
	4 1 1 1	Felt wheel Pointed felt wheel Felt wheel Rubber wheel	12.0x6.0 mm 9.5x19 mm 25.4x6.35 mm 22.0x3.1 mm	8000 - 20000	Polishing
	1	Cloth wheel	25.4x3.2 mm (16-layer)	8000 - 20000	Polishing of - wood - soft stone material - metal
	2 2 2	HSS steel driller	3.2 mm 2.4 mm 1.6 mm	8000 - 33000	Drilling holes in: - plastic -wood - fiberglass - metals
	1 1	Grinding shaft	12.7x12.7 mm 6.4x12.7 mm	N/A	For fixing of grinding wheels
	2 1 1	Clip socket chromed	3.2 mm 2.4 mm 1.6 mm	N/A	For accessories with different diameters
	3 1	Rod for grinding wheel. Extension rod for felt wheel.	M1.6 mm -	N/A	For fixing of polishing-, grinding- and separating wheels
	1	Silicon carbid grinding rock	9.5x9.5x25.4 mm 60 grit	N/A	For cleaning of grinding wheels

NOTE: The aluminium oxide tools, diamond tools, HSS Tools, flap tool and brushes are ready to be inserted. The mandrels (11, 12) must be assembled before using.

Tool attachments

Abrasive Cylinder

> Loosen the end screw, align the abrasive cylinder(9) with the mandrel (12) and slide cylinder(9),tighten the end screw to secure the cylinder on it(Fig.1).

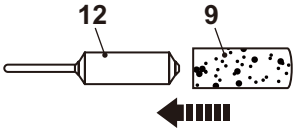


Fig. 1

Cutting disc

> Loosen the screw and remove it with the washers from the mandrel (11). Be careful not to lose the washers (Fig. 2).

> Place a cutting disc (10) between the washers on the screw and attach it to the mandrel (11).

> Tighten the screw carefully. Test if the cutting disc (10) is securely fixed. It should not be possible to spin it on the mandrel (11).

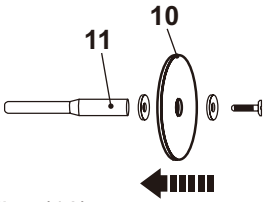


Fig. 2

Inserting

WARNING! Always ensure that the shaft diameter of the tool attachment suits the collet fitted with the product. Never use a tool attachment with a shaft diameter that does not fit to the collet. Specialised dealers offer collets in different sizes.

> Lay the product on a flat stable surface.
> Press the spindle lock button (2) and hold it in position while loosening the clamp nut (1a) with the wrench (14) (Fig. 3).

NOTE: Choose a suitable collet according to the used tool attachment. Inspect the collet regularly for damage and wear. Replace it with a new one of the same type if required.

> Check if the fitted collet (1b) is suitable for the desired tool attachment, if not remove the clamp nut (1a) and collet (1b) from the spindle (1c). Insert a suitable collet (1b) and refit the clamp nut (1a) (Fig. 3).
> Insert a suitable tool attachment into the tool socket (1) with at least 1/2 of its shaft into the collet (1b) (Fig. 4).

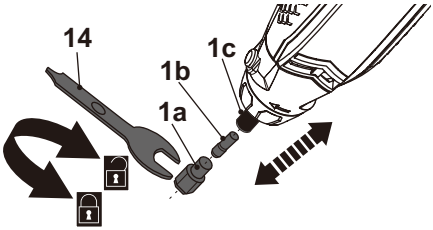


Fig. 3

> Press the spindle lock button (2) and hold it in position while tightening the clamp nut (1a) with the wrench (14) (Fig. 5).
> Carefully pull on the tool attachment to test if it is securely fixed. It should not be possible to pull it out.

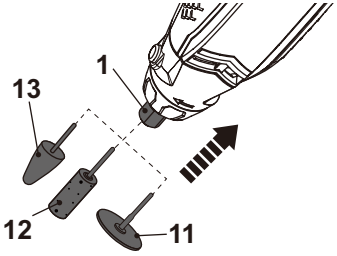


Fig. 4

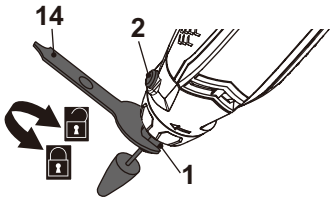


Fig. 5

Removing/Replacing

NOTE: Replace the tool attachment if it is worn or shows damage. Never use a tool attachment which is damaged or worn in order to avoid hazards and resulting injuries and damages.

> Lay the product on a flat stable surface.
> Press the spindle lock button (2) and hold it in position while loosening the clamp nut (1a) with the wrench (14).
> Pull the tool attachment out of the tool socket (1) and insert a new one as required (Fig. 6).

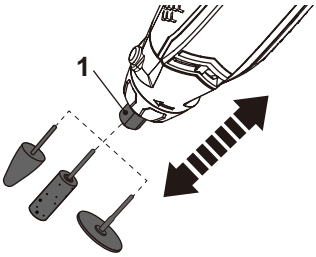
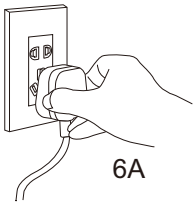


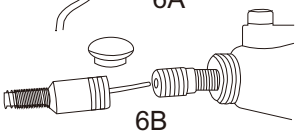
Fig. 6

Flexible shaft

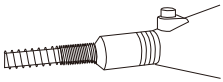
WARNING! Make sure the tool is switched off and the plug removed from the socket.
To fix the flexible shaft (15), remove the threaded nut (1d), loosen the clamp nut (1a), and loosen the collet. Pull the inner shaft (18) from the flexible shaft by 3 to 5 cm (6B) and insert the tip into the collet of tool. Re-tighten the clamp nut (1a) and screw the aluminum ring (17) of the flexible shaft to rotary tool housing (6C).



6A

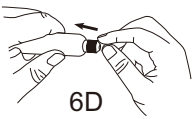


6B

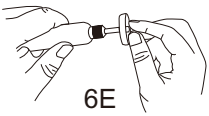


6C

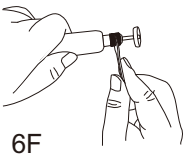
To attach accessories to the flexible shaft: Pull back the end cap (16) of the flexible shaft in the direction shown by the lock/unlock symbols (6D).
While pulling back the end cap, hold the knurled collar and twist to release it. Insert the desired tool into the chuck (6E) and re-tighten the collar (6F). release the end cap (16) to the fwd position (6G).



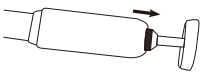
6D



6E



6F



6G

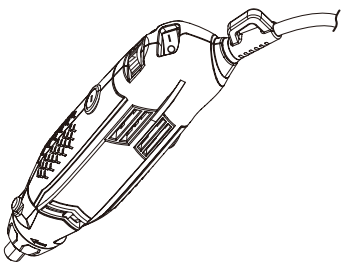
Connection to power supply

> Make sure the on/off switch (5) is in its off position.
> Connect the plug with a suitable socket.

WARNING! Check the voltage! The voltage must comply with the information on the rating label!

> Your product is now ready to be used.

In more detail...



Intended use

The intended use of this product includes the use of the corresponding tool attachment:
> rough grinding of wood, welds, plastics, leather and steel;
> abrasive cutting of hooks, nails and screws;
> polishing work in the fields of electronics, precision engineering, model construction, optics and jewellery production etc.;
> sanding of stainless steel, welds, aluminium castings, steel, non-ferrous metals, plastics, leather and wood;
> engraving glass, ceramics, porcelain, plastic, wood and steel;
> furthermore, working with a wire brush is possible.

This product is not suitable for large-scale material removal and bigger drill and cutting work.
The product may be used for dry operation only without water or other cooling liquids and should not be used in a stationary manner.
For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.
This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

Speed dial

Limit the maximum speed using the speed dial (4).
> Turn the speed dial (4) right to increase the speed (Fig. 7). A higher setting is suitable when using tool attachments with a large diameter or working on hard materials like wood.
> Turn the speed dial (4) left to decrease the speed (Fig. 8). A lower setting is suitable when using tool attachments with a small diameter or working on soft materials like plastic.

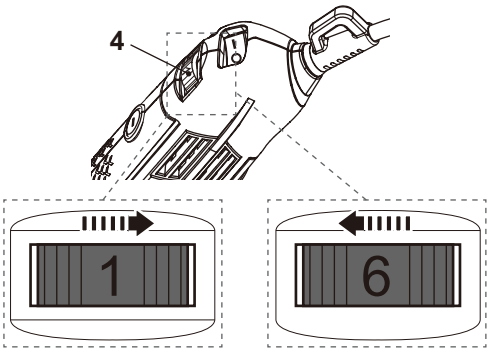


Fig. 7 Fig. 8

In more detail...

Speed dial

Recommended rotational speed

Material	Speed stages
Hardwood (beech)	4 – 6
Softwood (pine)	5 – 6
Chipboard	3 – 5
Plastic	2 – 3
Aluminium	1 – 4

Speed stages	Approx. speed
1	8000
2	15000
3	18000
4	20000
5	30000
6	33000

NOTE: Above values are for guidance only and may vary according to the actual workpiece and tool attachment.

Switching on/off

> Switch the product on by pressing the on/off switch to position **"I"** (5) (Fig. 9).
> Switch the product off by pressing the on/off switch to position **"O"** (5) (Fig. 10).

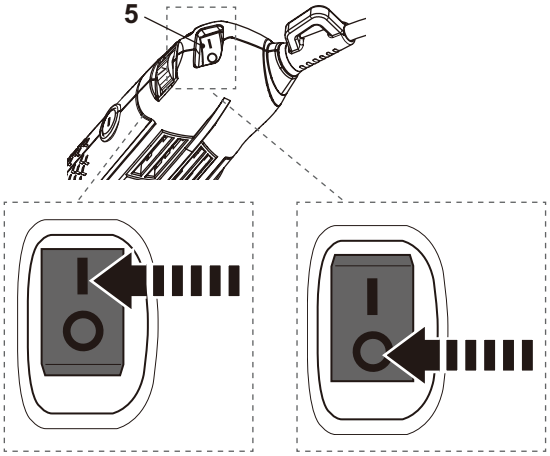


Fig. 9 Fig. 10

General operation

> Check the product, its power cord and plug as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
> Double check that the accessories and attachments are properly fixed.
> Always hold the product on its handle/gripping surface (3). Keep the handle/gripping surface dry to ensure safe support.
> Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
> Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
> Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

WARNING! Keep in mind that there are buried objects hidden in every household! Ensure that there are no gas, water or power lines hidden in the working area that may be hit before operation – danger of electrical shock and serious damage to people and property! Use a suitable detector to trace such objects in advance!

Handling

General

WARNING! During operation fine dust will be generated!
Some dusts are highly inflammable and explosive! Do not smoke during operation, keep heat sources and open flames out of the working area!
Always wear a dust mask to protect yourself against hazards resulting from fine dust!

> Support the workpiece properly, e. g. with clamps.
> Attach the desired tool attachment and make sure it is properly secured.
> Select a suitable revolution speed.

In more detail...

In more detail...

Handling

> Hold the product firmly by the gripping surface (3) and securely according to the application and switch it on.
> Wait until the tool attachment has reached its full speed before applying it to the workpiece.
> Move the product slowly toward the work piece.
> Work with steady, careful movements.
> Observe the work piece and the tool attachment.

Work positioning

Depending on the application, the product must be held in different positions in order to work safely and reach optimal work results.
> For fine work, such as engraving, hold the product like a pen. (Fig 11).
> Hold the product like a hammer shaft for coarse work such as with a cutting disc (Fig. 12).

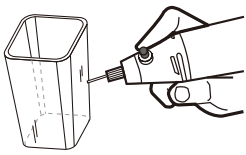


Fig. 11

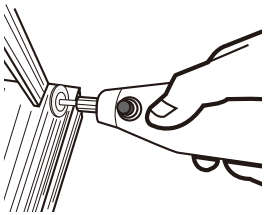


Fig. 12

WARNING! Switch the product off, let it come to a complete stop and disconnect it from the power supply if the attachment gets stuck in the workpiece. Only then free the jammed attachment.

After use

> Switch the product off, disconnect it from the power supply and let it cool down.
> Check, clean and store the product as described below.

The golden rules for care

WARNING! Always switch the product off, disconnect the product from the power supply and let the product cool down before performing inspection, maintenance and cleaning work!

> Keep the product clean. Remove debris from it after each use and before storage.
> Regular and proper cleaning will help ensure safe use and prolong the life of the product.
> Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.

WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

General cleaning

> Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
> In particular clean the air vents (8) after every use with a cloth and brush.
> Remove stubborn dirt with high pressure air (max. 3 bar).

NOTE: Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

> Check for worn or damaged parts. Replace worn parts as necessary or contact an authorised service centre for repair before using the product again.

Maintenance

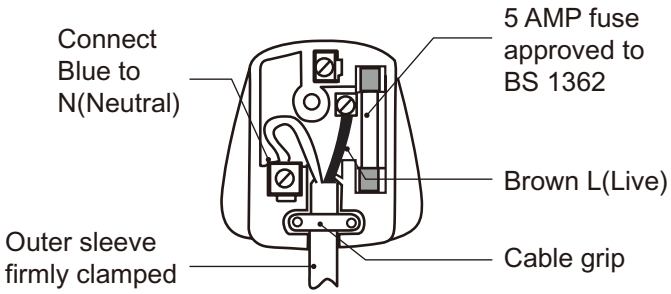
Before and after each use, check the product and accessories (or attachments) for wear and damage. If required, exchange them for new ones as described in this instruction manual. Observe the technical requirements.

Power cord

If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

UK plug

If you need to replace the fitted plug, then follow the instructions 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 wire in the mains lead of this product may not correspond with the coloured marking 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 or coloured black. The wire, which is coloured brown, must be connected to the terminal, which is marked L or coloured red.



WARNING! Never connect live or neutral wires to the earth terminal of the plug, which is marked with E.

Only fit an approved 13 Amp BS 1363 or BS 1363/A plug and the correctly rated fuse. If in doubt, consult a qualified electrician.

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.

Repair

This product does not contain any parts that can be repaired by the consumer. Contact an authorised service centre or a similarly qualified person to have it checked and repaired.

Storage

> Switch the product off and disconnect it from the power supply.
> Clean the product as described above.
> Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
> Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10°C and 30°C.
> We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

Transportation

> Switch the product off and disconnect it from the power supply.
> Attach transportation guards, if applicable.
> Always carry the product by its gripping surface (3).
> Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
> Secure the product to prevent it from slipping or falling over.

Troubleshooting

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible Cause	Solution
1. Product does not start	1.1 Not connected to power supply 1.2 Power cord or plug is defective 1.3 Other electrical defect to the product	1.1 Connect to power supply 1.2 Check by a specialist electrician 1.3 Check by a specialist electrician
2. Product does not reach full power	2.1 Extension cord not suitable for operation with this product 2.2 Power source (e.g. generator) has too low voltage 2.3 Air vents are blocked	2.1 Use a proper extension cord 2.2 Connect to another power source 2.3 Clean the air vents
3. Unsatisfactory result	3.1 Attachment is dull/ damaged 3.2 Attachment not suitable for work piece material	3.1 Replace with new one 3.2 Use proper attachment
4. Excessive vibration or noise	4.1 Attachment is dull/ damaged 4.2 Bolts/nuts are loose	4.1 Replace with a new one 4.2 Tighten bolts/nuts

Recycling and disposal

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

Guarantee

We take special care to select high quality materials and use manufacturing techniques that allow us to create products incorporating design and durability. This product TITAN 130W rotary tool has a manufacturer's guarantee of 2 years against manufacturing defects, from the date of purchase (if bought in store) or date of delivery (if bought online), at no additional cost.

To make a claim under this guarantee, you must present your proof of purchase (such as a sales receipt, purchase invoice or other evidence admissible under applicable law), please keep your proof of purchase in a safe place. For this guarantee to apply, the product you purchased must be new, it will not apply to second hand or display products. Unless stated otherwise by applicable law, any replacement product issued under this guarantee will only be guaranteed until expiry of the original guarantee period.

This guarantee covers product failures and malfunctions provided the product was used for the purpose for which it is intended and subject to installation, cleaning, care and maintenance in accordance with the information contained in these terms and conditions, in the user manual and standard practice, provided that standard practice does not conflict with the user manual.

This guarantee does not cover defects and damage caused by normal wear and tear or damage that could be the result of improper use, faulty installation or assembly, neglect, accident, misuse, or modification of the product. Unless stated otherwise by applicable law, this guarantee will not cover, in any case, ancillary costs (shipping, movement, costs of uninstalling and reinstalling, labour etc), or direct and indirect damage.

This guarantee does not cover defects and damage caused by or resulting from:
Normal wear and tear
Overload, misuse or neglect
Repairs attempted by anyone other than an authorised agent
Cosmetic damage
Damage caused by foreign objects, substances or accidents
Accidental damage or modification
Failure to follow manufacturer's guidelines
Loss of use of the goods

If the product is defective, we will, within a reasonable time, repair or replace it.

Rights under this guarantee are enforceable in the country in which you purchased this product. Guarantee related queries should be addressed to the store you purchased this product from.
The guarantee is in addition to and does not affect your statutory rights.

EC declaration of conformity

UK
CA

(UK) DECLARATION OF CONFORMITY

Product

- 130W Rotary Tool
- TTB863MLT
- Serial number: from 000001 to 999999

Name and address of the manufacturer or his authorised representative:

Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX
United Kingdom

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

Object of the declaration

Product	Model	EAN
130W Rotary Tool	TTB863MLT	5059340264301

The object of the declaration described above is in conformity with the relevant legislation:

Supply of Machinery (Safety) Regulations 2008 as amended
Electromagnetic Compatibility Regulations 2016 as amended
The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

BS EN 60745-1:2009 +A11: 2010
BS EN 60745-2-23: 2013
BS EN 55014-1:2017+A11:2020
BS EN 55014-2:2015
BS EN IEC 61000-3-2:2019
BS EN 61000-3-3:2013+A1:2019

Authorised signatory and technical file holder:
Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX
United Kingdom

David Awe
Group Quality Director

On 17/08/2021

In more detail...

EC declaration of conformity

(EN) EU DECLARATION OF CONFORMITY
(FR) DÉCLARATION UE DE CONFORMITÉ
(PL) DEKLARACJA ZGODNOŚCI UE
(RO) DECLARAȚIA DE CONFORMITATE UE
(ES) DECLARACIÓN UE DE CONFORMIDAD
(PT) DECLARAÇÃO DE CONFORMIDADE UE

Product/ Produit/ Produkt/Produsul/Producto/Produto

- 130W Rotary Tool
- TTB863MLT
- SN: 000001-999999

Name and address of the manufacturer or his authorised representative:
Nom et adresse du fabricant ou de son mandataire:
Nazwa i adres producenta lub jego upoważnionego przedstawiciela:
Denumirea și adresa producătorului sau a reprezentantului său autorizat:
Nombre y dirección del fabricante o de su representante autorizado:
Nome e endereço do fabricante ou do respetivo mandatário:

Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer.
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.
Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.
Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.
La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.
A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante.

Object of the declaration/Objet de la declaration/Przedmiot deklaracji/Obiectul declarației/
Objeto de la declaración/Objeto da declaração

Product/Produit/Produkt/Produsul/Producto/ Produto	Model/Modèle/Model/Modelul/Modelo/Modelo	EAN
130W Rotary Tool	TTB863MLT	5059340264301

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:
L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:
Wymieniony powyżej przedmiot niniejszej deklaracji jest zgodny z odnośnymi wymaganiami unijnego prawodawstwa harmonizacyjnego:
Obiectul declarației descris mai sus este în conformitate cu legislația relevantă de armonizare a Uniunii:
El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:
O objeto da declaração acima descrito está em conformidade com a legislação de harmonização da União aplicável:

2006/42/EC as amended Machinery Directive
2014/30/EU as amended Directive Electromagnetic compatibility
2011/65/EU as amended Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2006/42/CE relative aux machines
2014/30 / UE telle que modifiée Directive Compatibilité électromagnétique
Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques

EC declaration of conformity

2006/42/WE w zmienionej dyrektywie maszynowej
2014/30 / UE ze zmianami Dyrektywa Kompatybilność elektromagnetyczna
2011/65 / UE ze zmianami Dyrektywa Ograniczenie stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym

2006/42/CE, astfel a fost modificată Directiva privind echipamentele
2014/30/UE, astfel a fost modificată Directiva privind compatibilitatea electromagnetică
2011/65/UE, astfel a fost modificată Directiva privind limitarea utilizării anumitor substanțe periculoase în echipamentele electrice și electronice

Directiva sobre maquinaria modificada 2006/42/CE
2014/30/UE modificada Directiva Compatibilidad electromagnética
2011/65/UE modificada Directiva Restricción del uso de determinadas sustancias peligrosas en equipos eléctricos y electrónicos

2006/42/CE como diretiva de máquinas alteradas
2014/30/UE como alteração da compatibilidade eletromagnétic
2011/65/UE como restrição diretiva alterada da utilização de certas substâncias perigosas em equipamentos elétricos e eletrónicos

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:
Références des normes harmonisées pertinentes appliquées, y compris la date de celles-ci, ou des autres specifications techniques, y compris la date de celles-ci, par rapport auxquelles la conformité est déclarée:
Odwołania do odnośnych norm zharmonizowanych, które zastosowano, wraz z datą normy, lub do innych specyfikacji technicznych, wraz z datą specyfikacji, w odniesieniu do których deklarowana jest zgodność:
Trimiteri la standardele armonizate relevante folosite, inclusiv data standardului, sau trimiteri la celelalte specificații tehnice, inclusiv data specificațiilor, în legătură cu care se declară conformitatea:
Referencias a las normas armonizadas pertinentes utilizadas, incluidas las fechas de las normas, o referencias a las otras especificaciones técnicas, incluidas las fechas de las especificaciones, respecto a las cuales se declara la conformidad:
Referências às normas harmonizadas aplicáveis utilizadas, incluindo a data da norma, ou às outras especificações técnicas, incluindo a data da especificação, em relação às quais é declarada a conformidade:

EN 60745-1:2009 +A11:2010
EN 60745-2-23:2013
EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019

Authorized Signatory and technical file holder/ Signataire et responsable de la documentation technique autorisé/ Podmiot uprawniony do wystawienia i adres przechowywania dokumentacji technicznej/ Semnatar autorizat şi deţinătorul dosarului ethnic/ Firmante autorizado y titular del expediente técnico/Signatário a utorizado e detentor da ficha técnica:

Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

David Awe
Group Quality Director

On: 17/08/2021

In more detail...

TITAN

Manufacturer • Fabricant • Producent • Producător • Fabricante:

UK Manufacturer: Kingfisher International Products Limited
3 Sheldon Square
London
W2 6PX
United Kingdom
www.kingfisher.com/products

EU Manufacturer: Kingfisher International Products B.V.
Rapenburgerstraat 175E 1011 VM Amsterdam
The Netherlands

www.screwfix.com | www.screwfix.ie

To view instruction manuals online
visit www.kingfisher.com/products