

# JBC

[www.jbctools.com](http://www.jbctools.com)

## INSTRUCTION MANUAL



## WSB

High-Temperature  
Wire Stripper Station

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This manual corresponds to the following references:

**WSB-9A** (100V)

**WSB-1A** (120V)

**WSB-2A** (230V)

## Packing List

The following items are included:



**Control Unit** ..... 1 unit



**Stand** ..... 1 unit  
Ref. WSBT-SA



**High-Temperature Wire Stripper Tweezers** ..... 1 unit  
Ref. WS440-A



**Cartridge Holder** ..... 1 unit  
Ref. SCH-A



**Stand cable** ..... 1 unit  
Ref. 0024227



**Power Cord** ..... 1 unit  
Ref. 0024092 (100V)  
0023715 (120V)  
0023714 (230V)



**Cartidges Extractor Pliers** ..... 1 unit  
Ref. PLR195



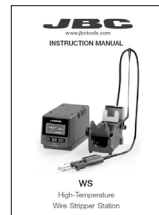
**Metal Brush**..... 1 unit  
Ref. 0022793



**WS440 Sealing Plug** .... 2 units  
Ref. OB3000 (includes 10x)

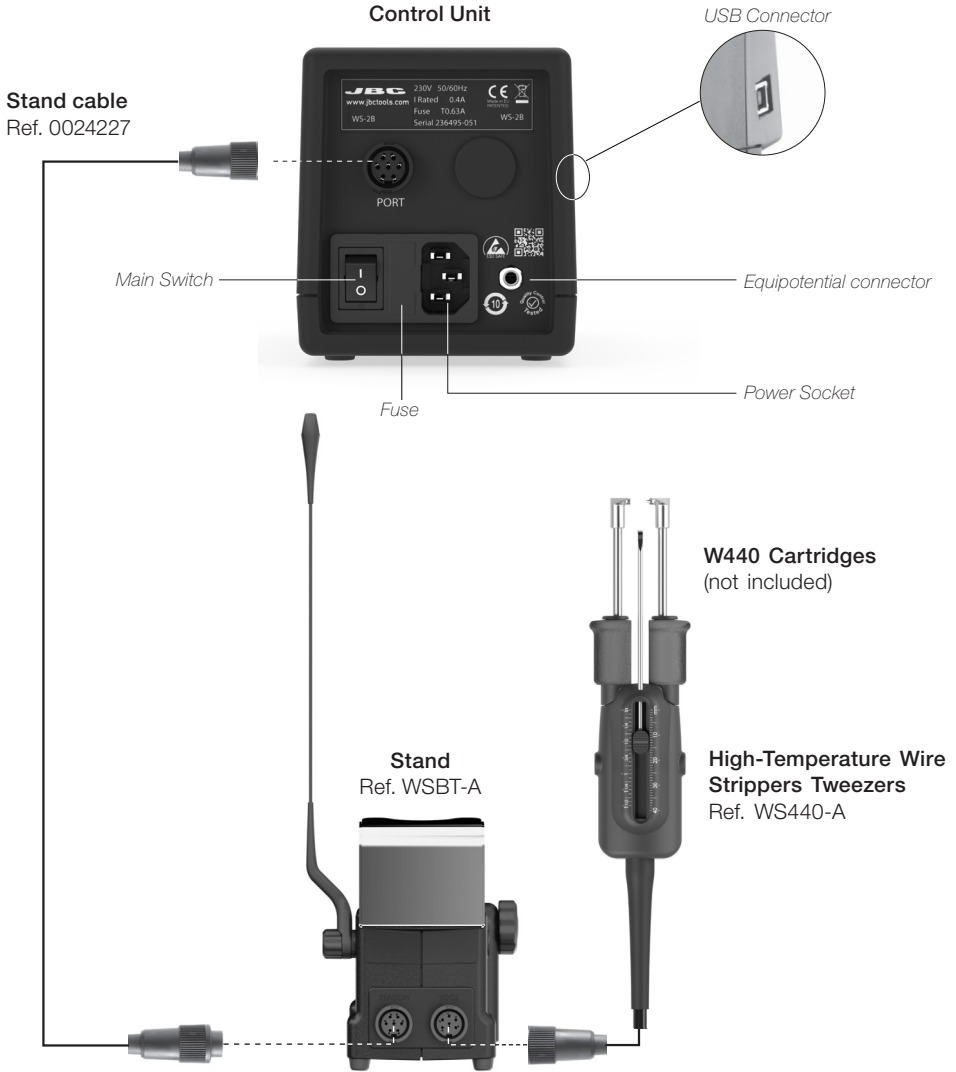


**Screw Driver** ..... 1 unit  
Ref. 0023511



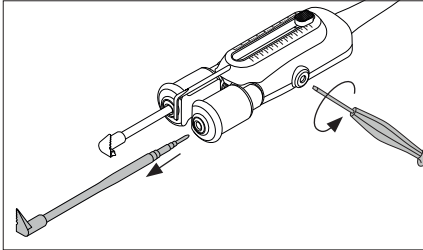
**Manual** ..... 1 unit  
Ref. 0027209

# Features and Connections



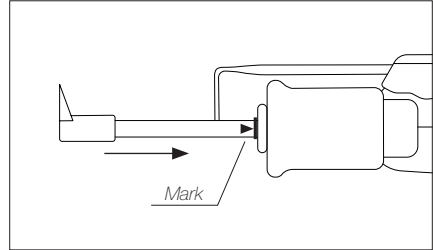
## Changing Cartridges

### 1. Removing



Loosen the screws and remove the cartridges.

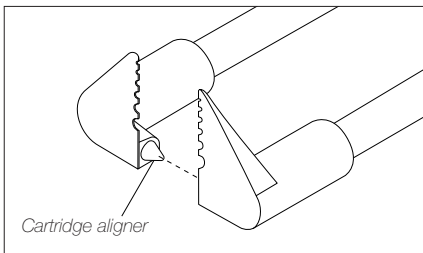
### 2. Inserting



Insert the cartridge until the reference mark. Take the mark as reference and check that both tips match.

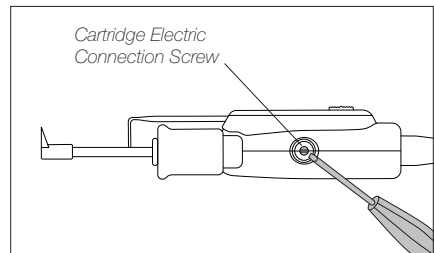
**Important:** It is essential to insert the cartridge till the mark for a good connection.

### 3. Positioning



Align the cartridges in working position using a flat pliers (JBC Ref. PLR-195). The conical cartridge aligner helps centering both cartridges and ensure a good functionality.

### 4. Fixing

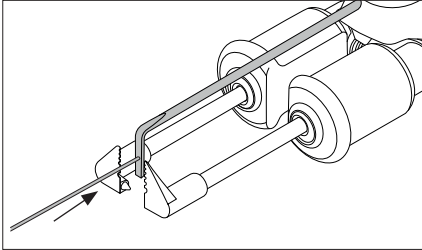


Fix the cartridges in its working position, by tightening the screw.

**Important:** It is essential to tighten the screws for the tool to function.

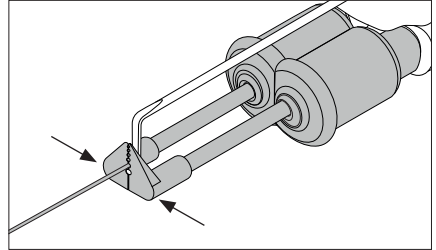
# Stripping a Wire

## 1. Align Wire



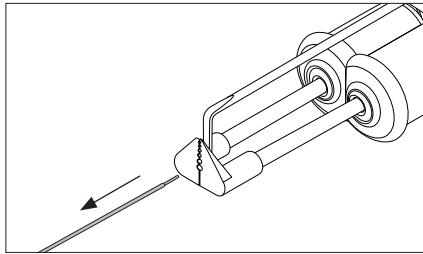
Place the wire touching the strip gauge.

## 2. Close Cartridges



Choose cartridges according to the wire diameter. Pinch the wire with the blades. The pinched area will be melted by heat.

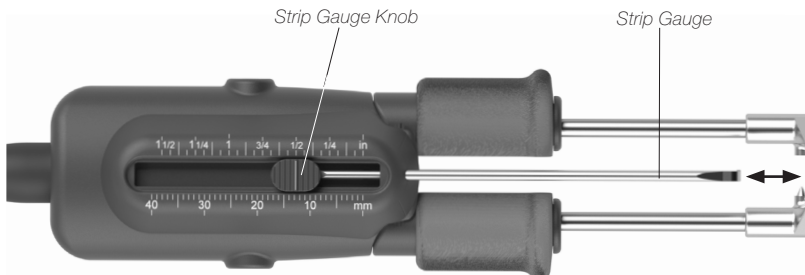
## 3. Remove Wire



Pull the wire stripper toward to strip off the wire end.

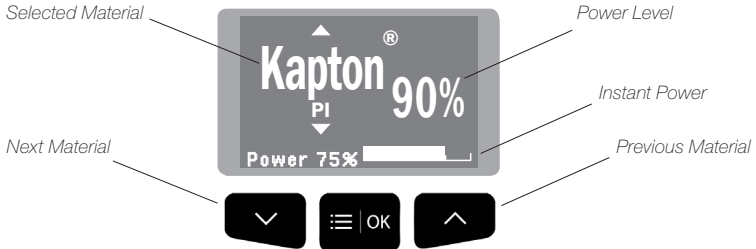
# Adjustable Strip Gauge

Adjust the strip gauge according to your stripping requirements.



## Control Process

### Work Screen



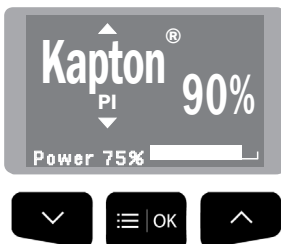
### Work Mode

WSS offers two different working modes. Switch the power on choose between Material Mode and Custom Mode by pressing the button.

#### 1. Material Mode



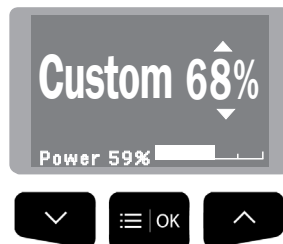
Choose between the different materials by pressing the buttons and to choose between all different material options.



#### 2. Custom Mode



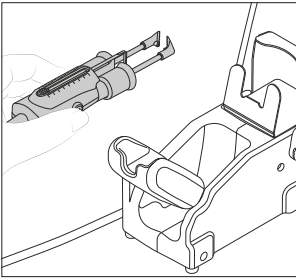
To work on a customized mode, press and then the buttons and to select the power level.



# Operation

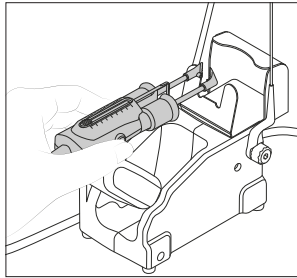
Depending on where the tool is located, the soldering station switches between three different statuses: Work, Sleep and Hibernation.

## 1. Work



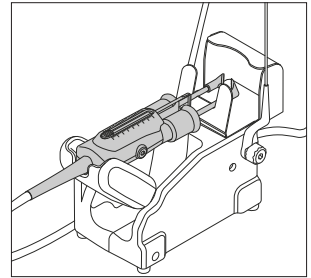
When the wire stripper is lifted from the stand, the cartridges will heat up according to the selected configuration.

## 2. Sleep

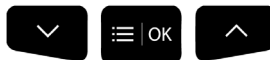
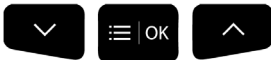
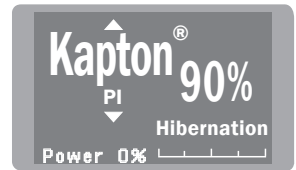
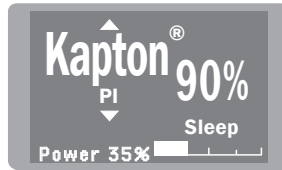
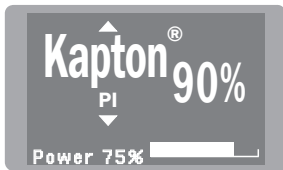


When the wire stripper is in the stand, the power falls after a specified time.

## 3. Hibernation



After longer periods of inactivity, the power is cut off and the cartridges cool down to room temperature.



## Troubleshooting

Station troubleshooting available on the product page at [www.jbctools.com](http://www.jbctools.com)



## Material Mode

WSS incorporates predetermined power levels and it also features a customized work mode. It allows you to work on wire insulations made of thermoplastics and thermostable materials such as **Teflon**<sup>1</sup>, **Kapton**<sup>2</sup>, **silicone**, **rubber**, etc.

Options included:

	<b>Insulation Material</b>	<b>Symbol</b>	<b>Power Level</b>
<b>Thermoplastics</b>	Polyvinyl Chloride	PVC	6%
	Polyethylene	PE	7%
	Nylon <sup>1</sup>	PA	10%
	Kynar <sup>2</sup>	PVDF	16%
	Tefzel <sup>1</sup>	ETFE	17%
<b>Thermostable</b>	Teflon <sup>1</sup>	FEP	16%
		PFA	21%
		PTFE	40%
	Ethylene Propylene Rubber	EPM/EPR	44%
	Silicone Rubber	SI	51%
Kapton <sup>1</sup>	PI	90%	

<sup>1</sup> Registered Trade Marks of DuPont

<sup>2</sup> Registered Trade Marks of Arkema

# Cartridge Range

**WS440-A** is compatible with **W440** Blade Cartridge Range. Find the model that best suits your soldering needs on [www.jbctools.com](http://www.jbctools.com).

If an application requires a special tip design, contact JBC by mail [customtips@jbctools.com](mailto:customtips@jbctools.com).

Cartridge Ref.	Tip Hole ø mm / in	AWG Stranded	AWG Solid	
W440021	0,16 / 0,0063	36 (7x44)	34	
	0,25 / 0,0098	32 (19x44)	30	
	0,32 / 0,0126	30 (7x38)	28	
		30 (19x42)		
	0,40 / 0,0157	28 (19x40)	26	
		27 (7x35)		
	0,51 / 0,0201	26 (19x38)	24	
		26 (10x36)		
0,64 / 0,0252	24 (19x36)	22		
	24 (7x32)			

Cartridge Ref.	Tip Hole ø mm / in	AWG Stranded	AWG Solid	
W440023	0,40 / 0,0157	28 (19x40)	26	
		27 (7x35)		
	0,51 / 0,0201	26 (19x38)	24	
		26 (10x36)		
	0,64 / 0,0252	24 (19x36)	22	
		24 (7x32)		
	0,81 / 0,0319	22 (19x34)	20	
	1,02 / 0,0402	20 (42x36)	18	
20 (19x32)				
20 (7x28)				
1,29 / 0,0508	18 (19x30)	16		

Cartridge Ref.	Tip mm / in	
W440025	Flat Blade 12,5 / 0.4921	

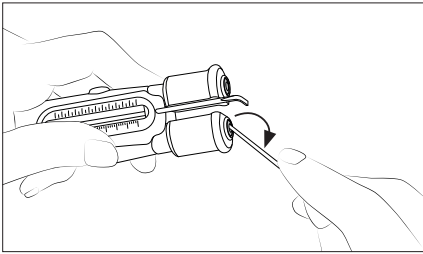
## Sealing Plug Replacement

The Sealing Plug is meant to prevent undesirable flux vapors or particles from entering inside the tool.

Its usage is highly recommended for intensive applications when soldering is exposed to FOD environments or for applications where the soldering iron works close to vertical position.

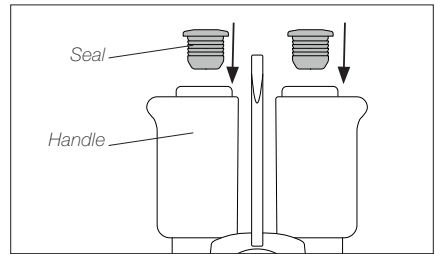
⚠ Before replacing the seal, unplug the power supply and make sure the device is not hot.

### 1. Removing



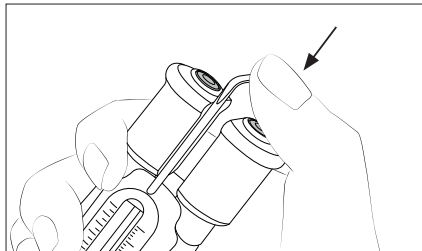
Enter a small shaft or screwdriver in order to gently lift and pull the sealing plug.  
Do not insert the tool more than 8 mm deep.  
Never use a cartridge to do this operation.

### 2. Mounting



**Note** the sealing plug mounting position:  
The chamfered side has to be positioned towards the handle.

### 3. Inserting



Gently push the sealing plug inside the handle until it is completely into the handle.  
Handle and seal edges have to be aligned.

# Accessories

## Flat Screw Driver

To open or fix the wire stripper screws use JBC Flat Screw Driver Ref. 0023511.

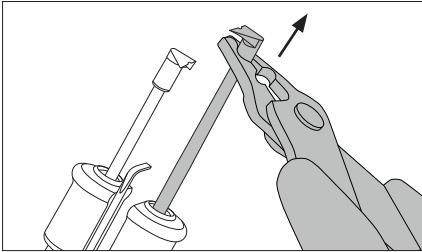


## Cartridge Extractor Pliers

To manipulate the cartridges use JBC Cartridge Extractor Pliers Ref. PLR195. More Information at [www.jbctools.com](http://www.jbctools.com)

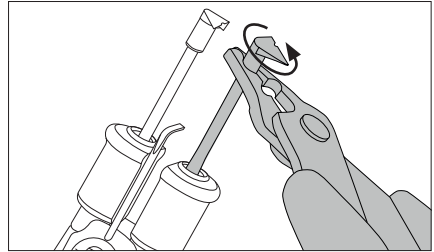


### Removing



Remove cartridges with JBC pliers.

### Inserting and Positioning



Align cartridges with JBC pliers.

## Metal Brush

For cleaning the tips if unwanted material is stuck there. Metal Brush Ref. 0022793.

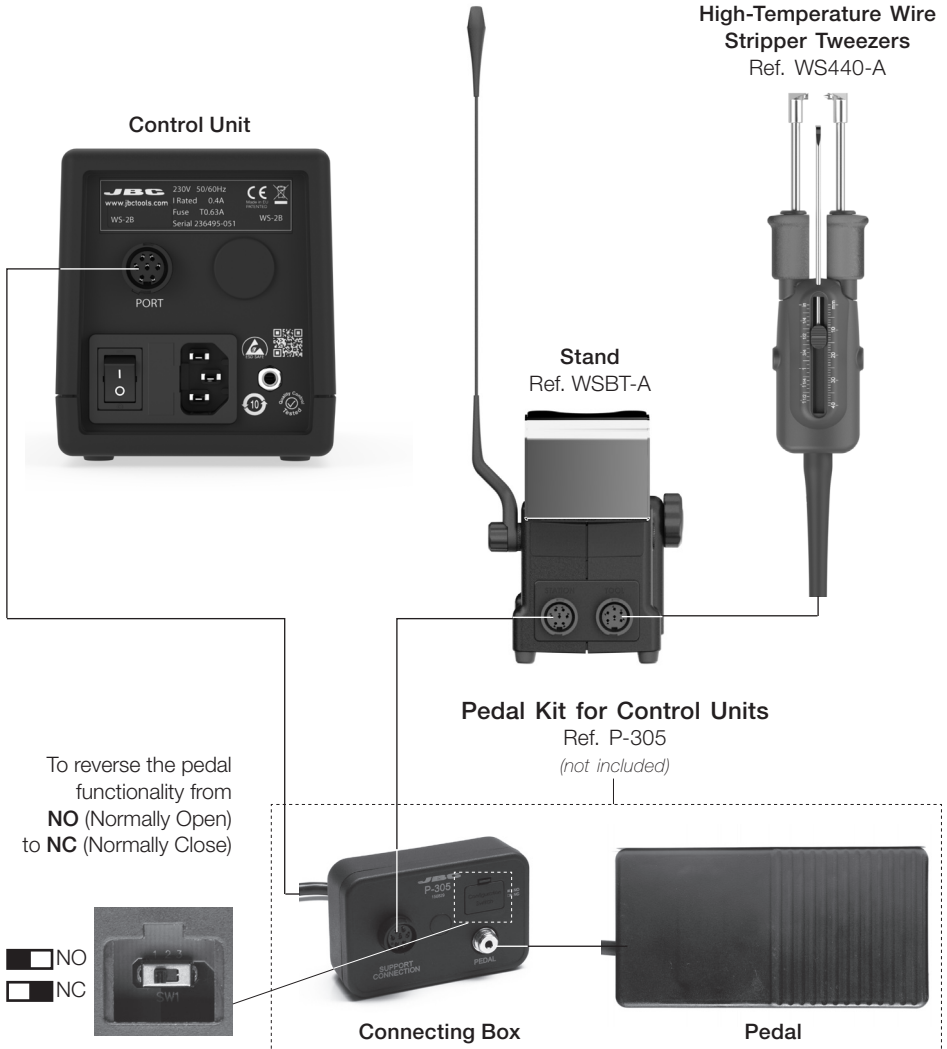


## Pedal Kit for Control Units

Pedal P305 can be used to activate/deactivate the Wire Stripper. Previously the Hibernation delay has to be set to 0 min.

Lift the wire stripper from the stand, press and hold the pedal to activate them and strip the wire. Once the pedal is released the wire stripper enters in Hibernation. To reverse the pedal functionality flip the switch of the connection box.

Default PIN: 0105.



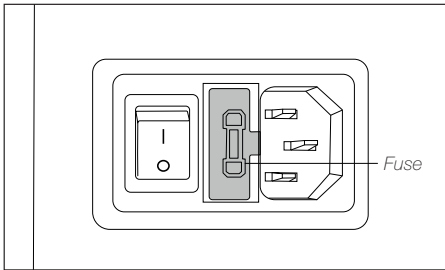
# Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool and unplug the stand from the station and the tool.

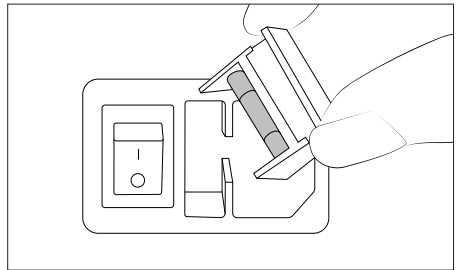
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing, the stand and the tool. Alcohol can only be used for cleaning the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool status.
- Maintain tip surface clean in order to ensure a correct stripped wire.
- Periodically check all cables.
- Replace a blown fuse as follows (see specification chart) :



**1.** Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



**2.** Press the new fuse into the fuse holder and replace it in the station.



- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.

## Safety

### Warning

- Do not touch the blade or the metal parts around.
- Do not allow the blade be close to flammable materials.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.
- This appliance can be used by children over the age of eight and also persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning use of the appliance and understand the hazards involved.
- Maintenance must not be carried out by children unless supervised.
- Place the tool on the stand when is not in use.
- Turn off the power when not in use, changing parts or storing.

### Caution

- Do not use the Wire Stripper for other applications than wire stripping.
- Do not modify or customize the Wire Stripper.
- Do not hit the blade against workbench to eliminate stripped insulation debris. This behavior would damage the blade.
- Remove power from the tool by holding the plug, not the wires.
- Be careful with the fumes produced when stripping. We recomend to use our fume extractor.

# Specifications

## WSB

### High-Temperature Wire Stripper Station

Ref.: **WSB-9A** 100V 50/60Hz. Input Fuse: T1.6A. 5x20mm Output: 15V

Ref.: **WSB-1A** 120V 50/60Hz. Input Fuse: T1.25A. 5x20mm Output: 15V.

Ref.: **WSB-2A** 230V 50/60Hz. Input Fuse: T0.63A. 5x20mm Output: 15V.

- |                                      |                                |
|--------------------------------------|--------------------------------|
| - Temperature Max :                  | 800 °C /1472 °F                |
| - Power:                             | 75W                            |
| - Ambient operating temp:            | 10 to 50 °C /50 to 120 °F      |
| - Connections:                       | USB-B                          |
| - Control Unit Dimensions / Weight:  | 180 x 94 x 106 mm / 2.2 kg     |
| (L x W x H)                          | 7.1 x 3.7 x 4.2 in / 4.85 lb   |
| - Total Net Weight:                  | 3.8 kg / 8.4 lb                |
| - Total Package Dimensions / Weight: | 368 x 368 x 195 mm / 4.6 kg    |
| (L x W x H)                          | 14.5 x 14.5 x 7.7 in /10.15 lb |

Complies with CE standards.

ESD protected.

# JBC

## Warranty

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour.

Warranty does not cover product wear or misuse.

In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

**Get 1 extra year JBC warranty by registering here:**

**<https://www.jbctools.com/productregistration/>  
within 30 days of purchase.**



This product should not be thrown in the garbage.

In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.



[www.jbctools.com](http://www.jbctools.com)