



# JBC ALU-910VA Auto Feed Control Unit Instruction Manual

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# JBC ALU-910VA Auto Feed Control Unit Instruction Manual



**This manual corresponds to the following references:**

- ALU-910VA (100V)
- ALU-110VA (120V)
- ALU-210VA (230V)

## **Packing List**

The following items are included



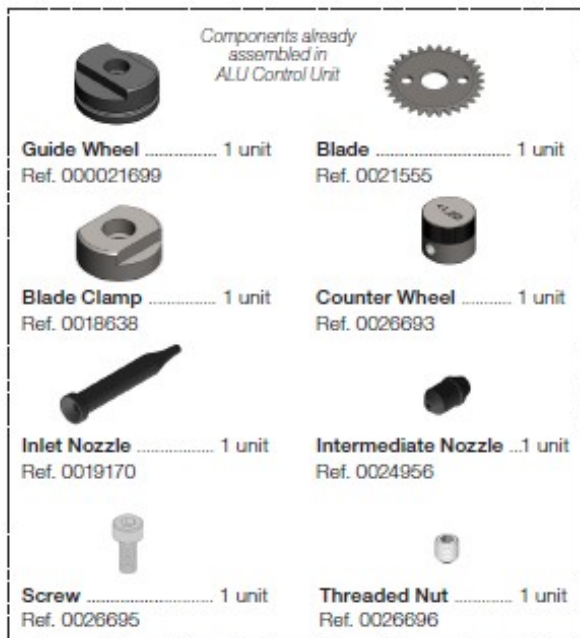
**ALU Auto-Feed  
Control Unit** ..... 1 unit



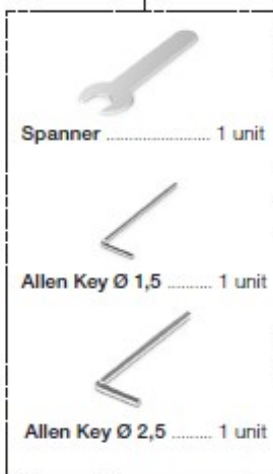
**Power Cord** ..... 1 unit  
Ref. 0023717 (120V)  
0024080 (230V)



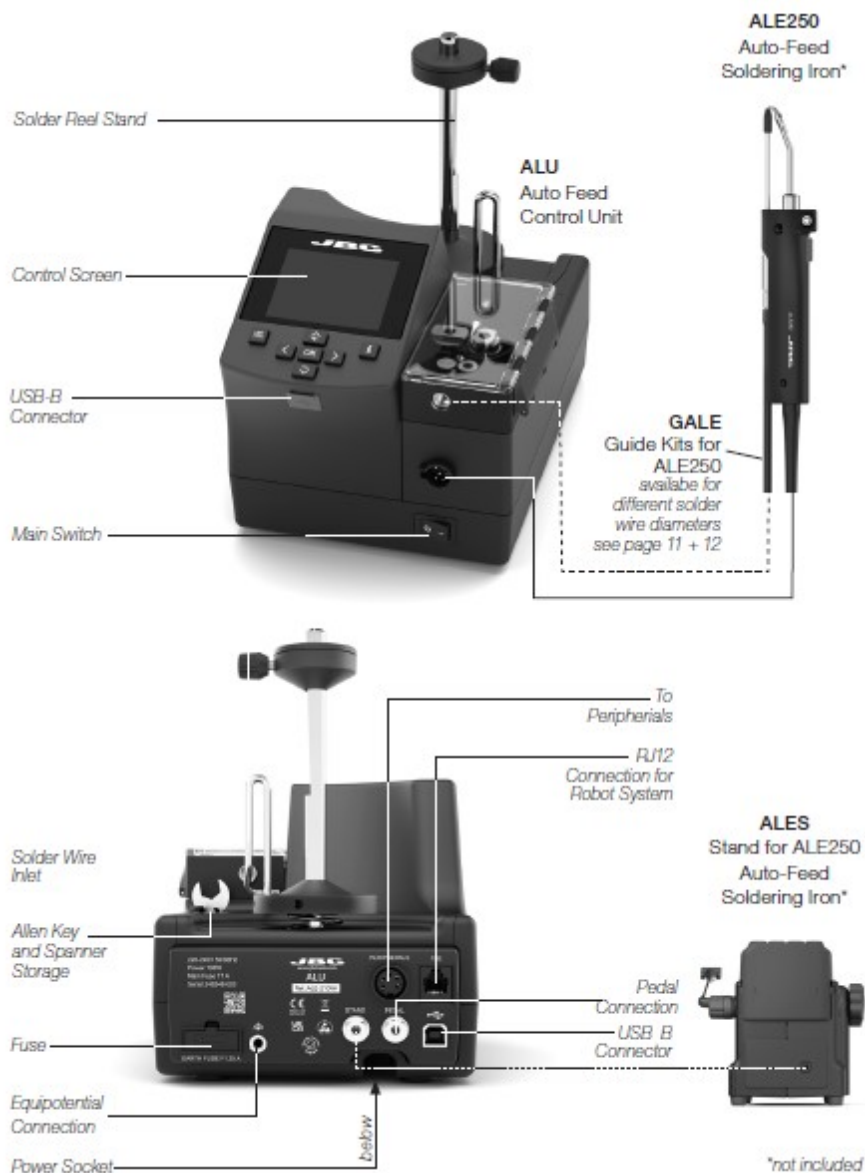
**Manual** ..... 1 unit  
Ref. 0028141



**Key Set  
for SF / AL** ..... 1 unit  
Ref. 0019341  
includes:



## Features and Connections



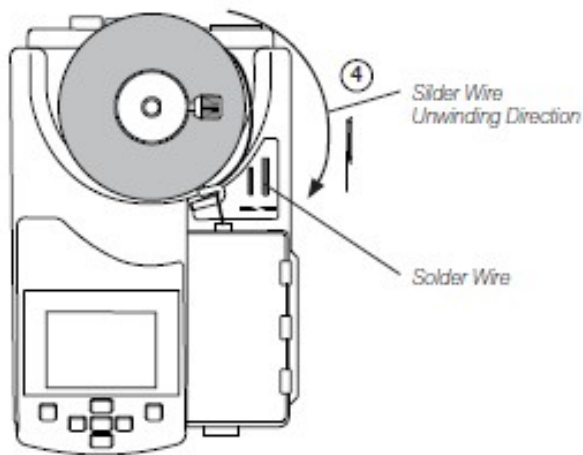
## Solder Reel Assembly

Open the reel locking screw (1) and remove the reel locking (2) from the axis.

Assemble the solder reel onto the axis (3) and reassemble the reel locking screw (1). The flat side of the axis must align with the inner flat side of the reel locking.

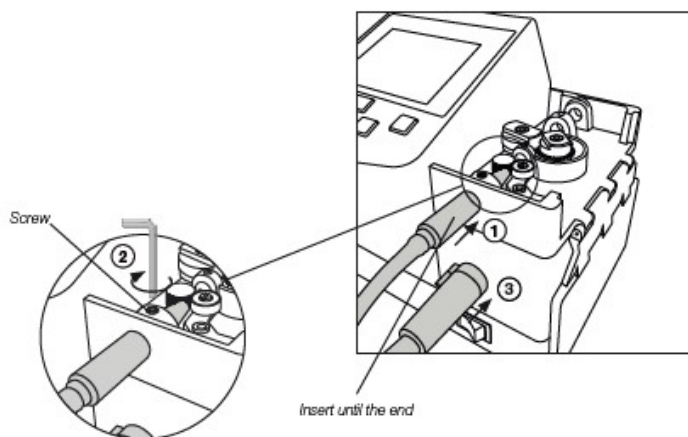
Note: Press lightly the reel locking (1) down before tightening the reel locking screw (2) to prevent free reel spinning

Insert the solder reel in such a way – when viewed from above – that the solder wire unwinds on the despensing mechanism side (4)



## Tool Assembly

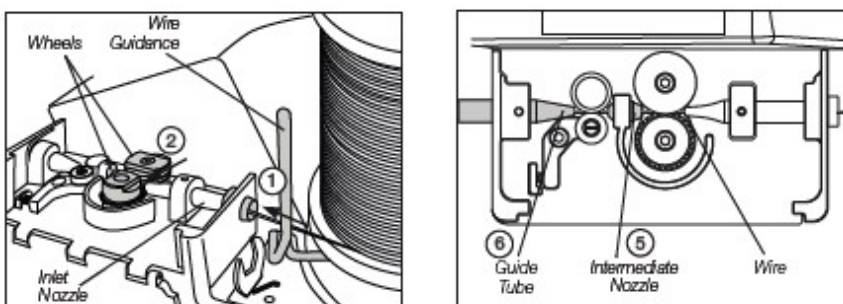
Connect the tool to the control unit following this steps: Insert and push the guide nozzle until the end (1) and tighten the screw (2). Then connect the tool connector (3).



## Solder Wire Loading

Pass the solder wire through the wire guidance and introduce the solder wire into the inlet nozzle

- until it reaches the wheels (2).



Make sure the wire passes through the Intermediate Nozzle (5) and enters into the Guide Tube (6)

## Main Menu Screen

Access to Main Menu by , select "*Feeder Settings*" (1) and then "*Wire Diameter*" (2) to adjust the value to the

current solder wire diameter.

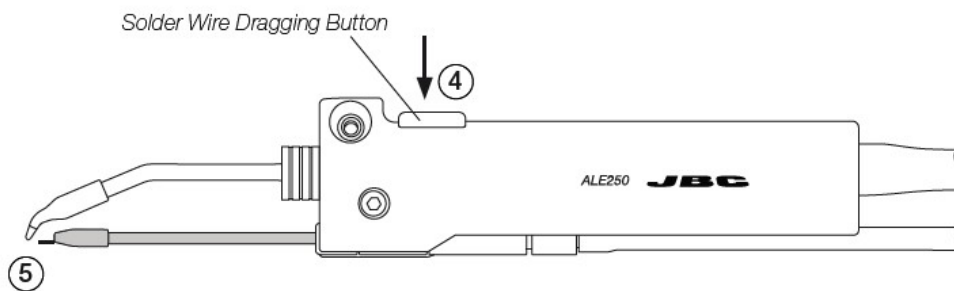


Select “Tin Reloaded Process” (1) and then use to feed the solder wire and advance until it comes out through the outlet nozzle. Keep pressed and after a while the wire will advance faster.



## Solder Wire Feeding

Forward the solder wire by pushing the dragging button (4) until the wire comes out of the tip (5).



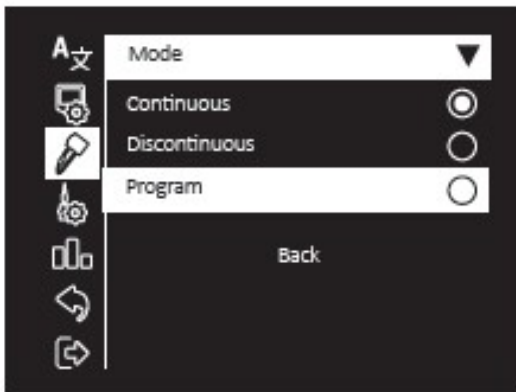
To feed the solder wire, alternatively the pedal P405 can be used. The pedal should be plugged in at the rear of the feeder control unit into the pedal connector.



## Control Process

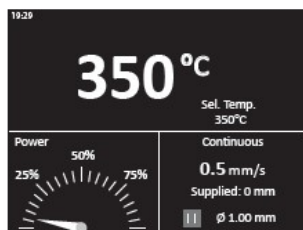
### Feeder Setting Modes

Choose between “continuous”, “discontinuous” and “program” mode. Acces to Main Menu by , select “ *Feeder Settings*” and then “*Mode*”

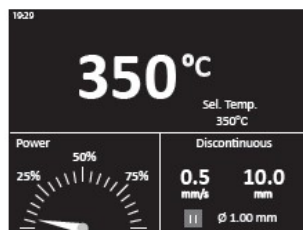


Depending on the selected mode, different parameters are available for setup.

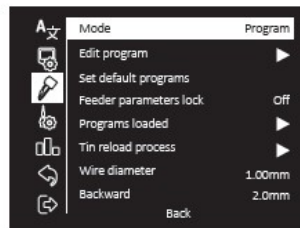
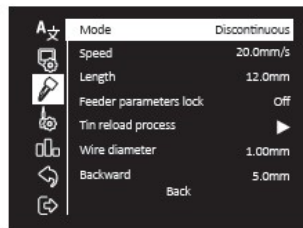
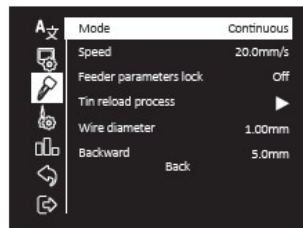
Continuous Mode



Discontinuous Mode



Program Mode



## Troubleshooting

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

## Control Process

### Program Mode

With AL you can define up to 5 feeder programs. Select “Edit Program” and access to the pro- gramm parameters

	Length	Speed
1	2.0	2.0
2	5.0	5.0
3	1.0	5.0

mm mm/s



	Length	Speed
1	2.0	2.5
2	None	None
3	None	None


mm mm/s

For each programm between 1 and 3 feeding steps (length and speed) should be defined.


If less than 3 feedig steps are needed, set up wire length and speed to "0.0" and the parameter will change to "None".

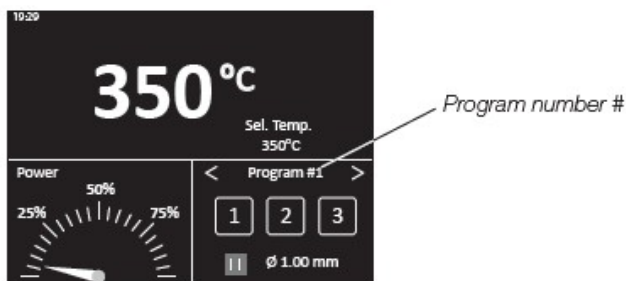
## Quick Access to Feeder Setting Modes

The solder wire dispensing values can directly set up from the work screen. Press  or  to change the tool temperature value.

When the main screen is displayed, by pressing  button speed and lenght value can be set up. Following parameters can be changed according to the different dispensing modes:

- Contiunous Mode: Speed
- Discontinuous Mode: Speed and length
- Program Mode: 3 feeding parameter pairs (length and speed) for every

Note: First select the program to be modified at the work screen by using  and to switch between the programs.

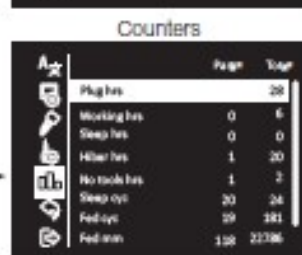
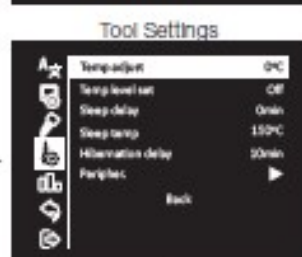
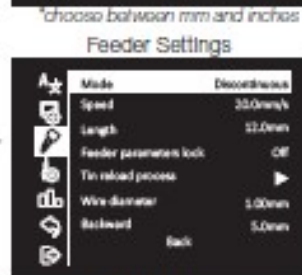
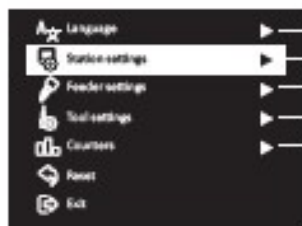




## Control Process

Menu Screen

Default PIN: 0105



## Changing Guide Kits

#### Assembly with Solder Wire Perforation:

Assemble the counter wheel (1).

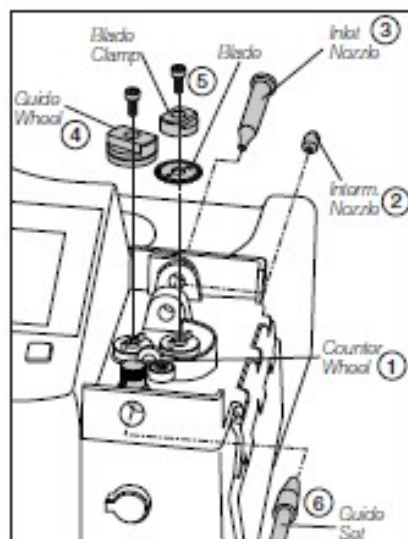
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

Assemble the inlet nozzle (3).

Assemble the guide wheel (4) and tighten the screw.

Assemble the blade first, then mount the blade clamp (5) onto the same axis and tighten the screw. **Caution:** handle the blade carefully to avoid injury.

Insert the guide set (6).



#### Assembly without Solder Wire Perforation:

Assemble the counter wheel (1).

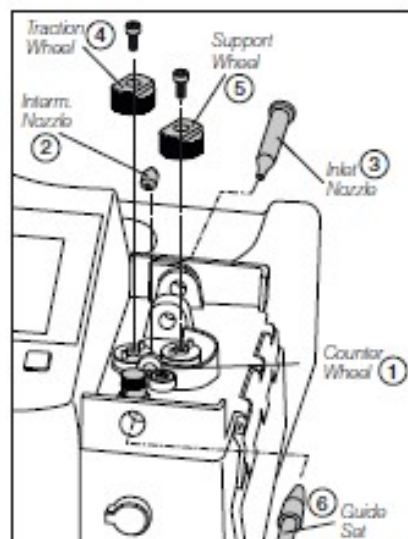
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

Assemble the inlet nozzle (3).

Assemble the traction wheel (4) onto the axis and tighten the screw.

Assemble the support wheel (5) and tighten the screw.

Insert the guide set (6).



## Accessories

Various guide sets are available. Select the appropriate guide set depending on the solder wire diameter to be used.



Wire diameter	
Wires	Diameter of wire
88	0.032 mm
90	0.036 mm
92	0.040 mm
94	0.045 mm
96	0.050 mm
98	0.056 mm

GALE10W-A	0028288
GALE10W-A	0028289
GALE12V-A	0028289
GALE12V-A	0028289
GALE12V-A	0028289
GALE12V-A	0028289
GALE12V-A	0028289



## SPARE PARTS

	Chisel rezele	Auzaie	Guide-urzei	Blade	Blade clamp	Leaf rezele	Intern rezele	Caster/cooker	Screws	7 needed for 1	
											
SALE 8180-A	0001278		8821696								60266800 (78)
SALE 8181-A	0001278		8821699								
SALE 8182-A	0001272		8821700								
SALE 8183-A	0001272		8821701								
SALE 8184-A	0001274	8819696	8821955							60266800 (78)	
SALE 8185-A	0001278	8819697	8821956								
SALE 8186-A	0001278										

## Accessories

## GALE Guide Sets for ALE250 without Solder Wire Perforation

## GALEXD-A WITHOUT SOLDER WIRE PERFORMANCE

Size	Wire diameter	Range of use
94	0.30 - 0.40 mm	0.815 - 0.016 in
95	0.40 - 0.50 mm	0.815 - 0.022 in
96	0.50 - 0.60 mm	0.822 - 0.028 in
97	0.70 - 0.78 mm	0.828 - 0.031 in
98	0.80 - 0.92 mm	0.833 - 0.033 in
99	0.90 - 1.00 mm	0.838 - 0.044 in
100	1.10 - 1.27 mm	0.844 - 0.051 in
101	1.30 - 1.57 mm	0.848 - 0.062 in
102	1.60 - 1.83 mm	0.863 - 0.065 in
103	1.80 mm	0.075 in

Guide tube
GALE04D-A
GALE05D-A
GALE06D-A
GALE07D-A
GALE08D-A
GALE10D-A
GALE12D-A
GALE15D-A
GALE18D-A

### SPARE PARTS

Outer nozzle	Nozzle	Traction wheel	Support wheel	Inner nozzle	Inner nozzle	Counter wheel	Screw	Threaded stop
GALE04D-A	002155	001919	002155	001919	002155	002155	002155	002155
GALE05D-A	002156	001919	002156	001919	002156	002156	002156	002156
GALE06D-A	002157	001919	002157	001919	002157	002157	002157	002157
GALE07D-A	002158	001919	002158	001919	002158	002158	002158	002158
GALE08D-A	002159	001919	002159	001919	002159	002159	002159	002159
GALE10D-A	002160	001919	002160	001919	002160	002160	002160	002160
GALE12D-A	002161	001919	002161	001919	002161	002161	002161	002161
GALE15D-A	002162	001919	002162	001919	002162	002162	002162	002162
GALE18D-A	002163	001919	002163	001919	002163	002163	002163	002163

## Maintenance

Before carrying out maintenance, always switch the device off and disconnect it from the mains. Allow the equipment to cool down.

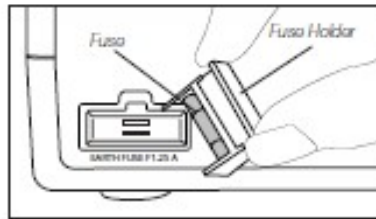
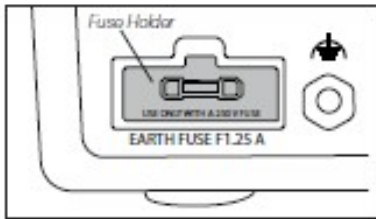


- Clean the station screen with a glass cleaner or a damp
- Use a damp cloth to clean the casing and the Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool

status.

- Maintain tip surface clean and tinned prior to storage in order to avoid tip Rusty and dirty surfaces reduce heat transfer to the solder joint.
- Periodically check all cables and
- Replace a blown fuse as follows:

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



2. Insert the new fuse into the fuse holder and return it to the station.

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

## Safety



It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.

Safety- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause fire.- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.- Do not work on electrically live parts.- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip or nozzle, the metal part of the tool and the stand may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.- Do not leave the appliance unattended when it is on.- Do not cover the ventilation grills. Heat can cause inflammable products to ignite.- Avoid flux coming into contact with skin or eyes to prevent irritation.- Be careful with the fumes produced when soldering.- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.- Utmost care must be taken with liquid tin waste which can cause burns.- 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. Children must not play with the appliance.- Maintenance must not be carried out by children unless supervised.

## Specifications

### ALU Auto-Feed Control Unit

Ref.: ALU-910VA – 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V Ref.: ALU-110VA – 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V Ref.: ALU-210VA – 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V

- Output Peak Power: 130 W / 5 V
- Selectable Temperature Range: 90 – 450 °C / 190 – 840 °F
- Idle Stability (still air):  $\pm 1.5^{\circ}\text{C}$  /  $\pm 3^{\circ}\text{F}$  (Meets and exceeds IPC J-STD-001)
- Accuracy:  $\pm 3\%$  (Using reference cartridge)
- Adjustment:  $\pm 50^{\circ}\text{C}$  /  $\pm 90^{\circ}\text{F}$  (Through station menu settings)

- Connections: USB-A Update and files import-export USB-B Software PC

#### RJ12 Fume extractor connection

- Equipotential bonding: Optional connection to EPA
- Tip to Ground Voltage/Resistance: <2 mV RMS / <2 ohms Meets and exceeds

#### **ANSI/ESD S20.20-2014 / IPC J-STD-001F**

- Ambient Operating Temp: 10 – 50 °C / 50 – 122 °F
- Solder Wire Diameter: 4 – 1.6 mm / 0.02 – 0.06 in
- Wire Length: 250 mm / 9.84 in (for discontinuous + program mode)
- Wire Length: 0.5 mm / 0.02 in
- Forward Speed Range 5 to 50 mm/s / 0.02 to 1.97 in/s
- Speed of Backward Funktion 0 to 5.0 mm/s / 0.5 to 0.20 in/s
- Number of Programs: 5 Programs
- Number of Program Steps: 1 to 3 Steps (for each program)
- Control Unit Dimensions: 235 x 145 x 150 mm  
(L x W x H) 9.25 x 5.71 x 5.91 in
- Total Net Weight: 81 kg / 12.81 lb
- Package Dimensions / Weight: 368 x 368 x 195 mm / 6.72 Kg (L x W x H) 49 x 14.49 x 7.68 in / 14.82 lb

#### **Compatible Solder Reel:**

- Reel Weight: up to 2 kg / 41 lb
- Reel Diameter: 100 mm / 3.94 in
- Reel Height: 100 mm / 3.94 in

#### **Complies with CE standards. ESD safe.**

#### **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.

***Read More About This Manual & Download PDF:***

## Documents / Resources

 <p>ALU Auto-Feed Control Unit</p>	<p><a href="#">JBC ALU-910VA Auto Feed Control Unit</a> [pdf] Instruction Manual ALU-910VA, ALU-110VA, ALU-210VA, Auto Feed Control Unit, ALU-910VA Auto Feed Control U nit</p>
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## References

- [JBC JBC Soldering and Rework equipment for electronics](#)
- [JBC Warranty Extension](#)