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勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
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[Http://www.100y.com.tw](http://www.100y.com.tw)


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The key to successful handsoldering in the lead free era

As soldering has gotten more complicated due to the use of leadfree alloys and the increased complexity and thermal characteristics of PCBA's, the need for better tools has become evident.

The exclusive and new JBC microprocessor driven heating system ensures such a fast thermal recovery that it enables working at lower temperatures than before while improving a station efficiency by 40%.

JBC has revolutionized the hand soldering process by providing controlled power and precision to your production; while improving quality and safety.

Our tools can efficiently solder at 350°C, competitors tools can't.

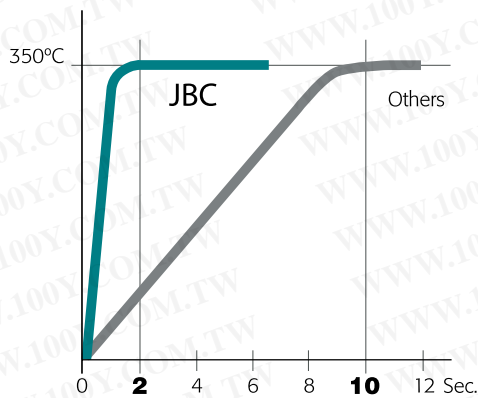
We invite you to discover their outstanding performance for yourself.

By controlling the heat, we improve quality.

The JBC technology gives an 80% improvement over the performance of the best soldering stations available in the market. In the following graphs, based on practical tests, we show this superiority.

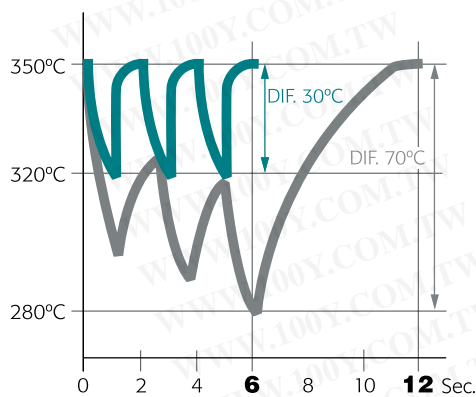
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A Time to reach 350°C



A conventional station takes between 10 to 90 seconds to reach 350°C. Any JBC station with a 2210 hand piece reaches this temperature in only two seconds. This gives an idea of the response capability of the JBC system.

B Process for 3 solder joints



This graph shows the same tools, performing a series of 3 solder joints. Because of the lacking thermal response of the competing tool (grey), the temperature drops 70°C compared to 30°C for the JBC tool. This difference gets bigger as the solder job gets more demanding.

A NEW AND REVOLUTIONARY TECHNOLOGY



The exclusive JBC heating system achieves a high heating power in a very small size cartridge. This means that the mass to be heated is minimal and therefore the thermal inertia is also minimal. In addition, the system has a high sensitivity temperature sensor element integrated deep within the resistance for optimum performance, instant thermal recovery, maximum power, and minimum temperature fluctuations.

The sensor-resistance set is shielded to make it indestructible.

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Ergonomics and usability: In a high precision system

The JBC soldering irons are currently the lightest, smallest and most ergonomic handpieces available, offering the shortest tip-to-handle distance and a higher working performance.

Outstanding tip-life: Lasts up to five times longer

As soon as the soldering iron is left on the stand, the tip temperature automatically drops to 220°C, decreasing oxidation and wear, resulting in a working life three to five times longer than that of a conventional tip. When the soldering iron is taken out of the stand again, the tip temperature is instantaneously recovered.

All cartridges are manufactured following a JBC exclusive process that allow the heating element within them to last twice as much as other brands of cartridges.

Low-temperature soldering: Minimum risk of damage, even for lead-free soldering

Compared to conventional stations, soldering at 450°C, the JBC system allows soldering at much lower temperatures, under 370°C. Thanks to its fast temperature recovery system, it eliminates the risk of damaging the components by applying excessive heat and therefore optimizing the quality of your process.

Two soldering irons in one: productivity increase

The cartridge extractor system in the stand and the instant thermal response enables switching cartridge models without interrupting work, resulting in multiple soldering irons in one and increasing your productivity.



Place the handpiece in the cartridge extractor and pull the handpiece to remove the cartridge.

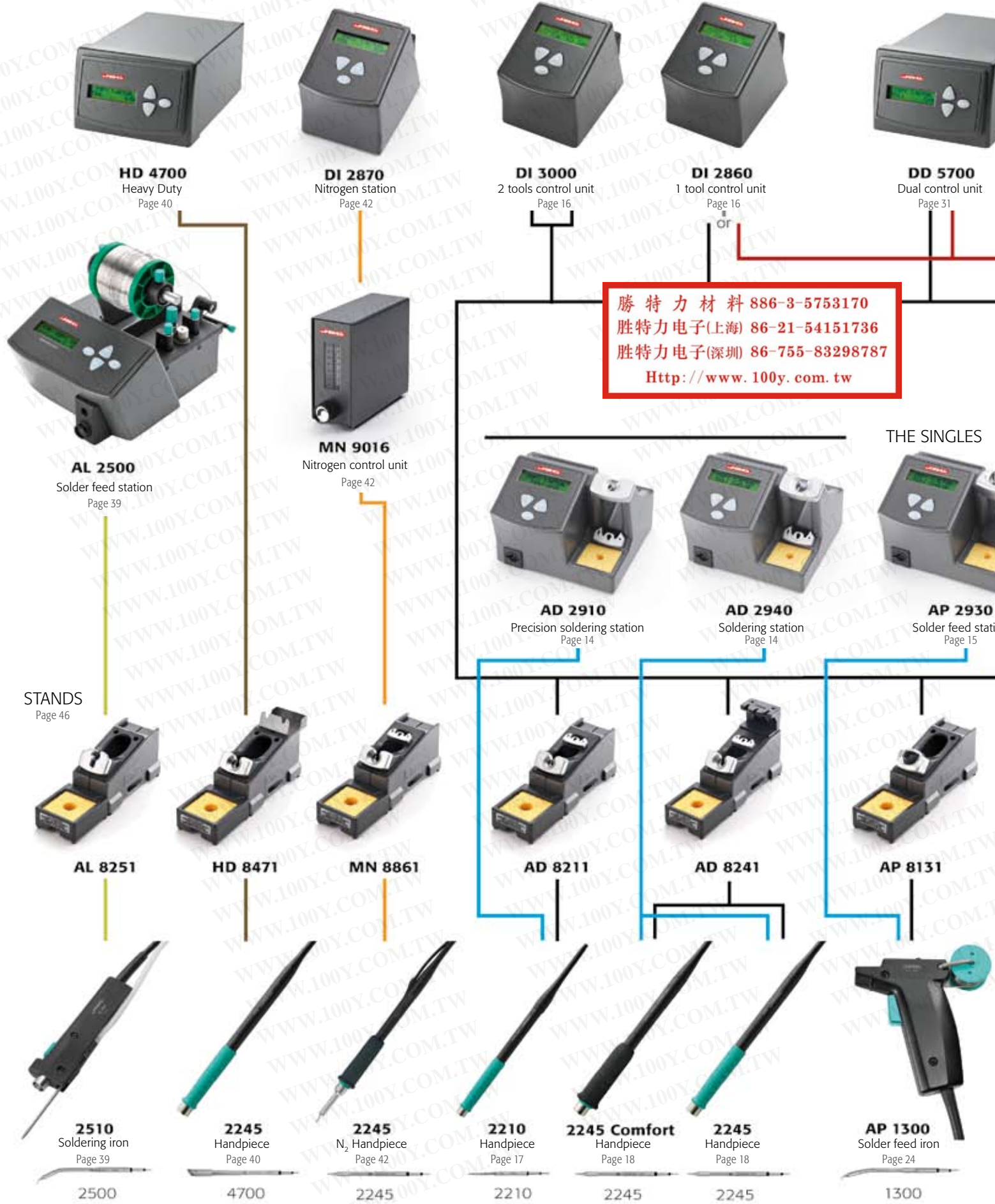


Place the empty handpiece over the new cartridge, press it slightly down and start working.

Easy calibration

Since the JBC technology is microprocessor driven, it is not necessary to recalibrate any of the JBC Stations but, if required, calibration of the soldering tips can easily be done by using the TI 2800 Thermometer and the temperature adjustment feature in the station's menus.

SOLDERING, DESOLDERING AND REWORK



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STANDS
Page 46

THE SINGLES

2500

4700

2245

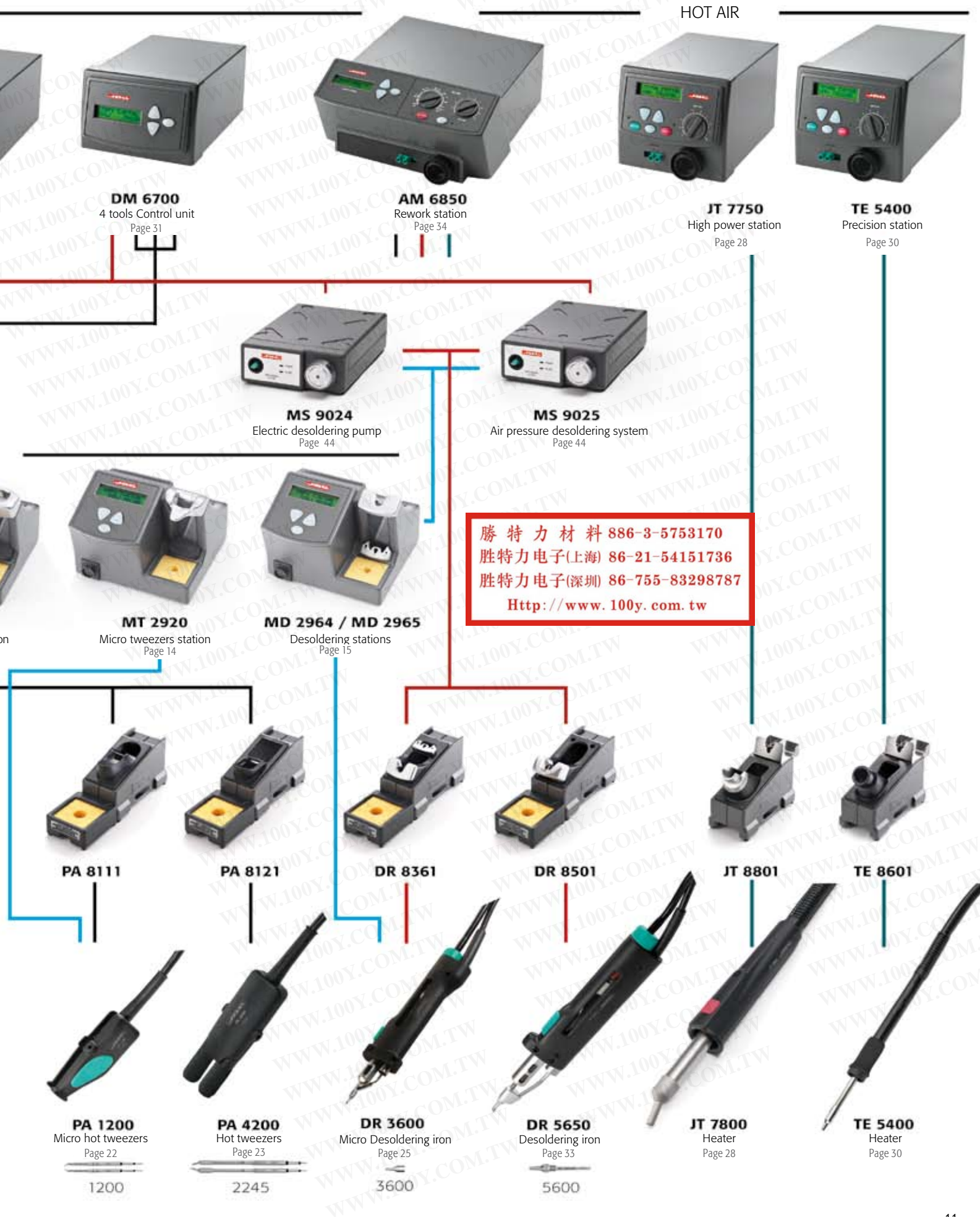
2210

2245

2245

1300

to the task, the JBC series is divided into modules, control units, iron handpiece models, hot tweezers, cartridge range and independent





THE SINGLES

Concentrated rework power

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DR 3600 Micro desoldering iron



AP 1300 Solder feed iron



2210 Handpiece



2245 Handpiece



PA 1200 Micro hot tweezers



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A new family of 6 different soldering stations is born, created to work, each one with a dedicated tool.

With the advantage that the corresponding stand is already incorporated in the control unit.

The intelligent sleep and hibernation functions are integrated and are combined with the fastest temperature recovery you can find in the market.



Process control

Fix temperature limits, read the usage counters, block the keypad with a PIN.

You can establish up to 5 temperature settings depending on your needs, each level has a higher fix temperature than the previous.

It can be used with or without the activated settings.



Intelligent heat management

The only time a soldering iron must be at the desired temperature it is when working. JBC stations detect how tools are being used and the integrated support activates the sleep or hibernation features.

Extend tip life by reducing temperature and reduce energy usage to 10 W during sleep and 4 W when hibernating.

Help preserve the environment while saving.



Quick Tip changer

No tools or pads are needed to change a cartridge. Just place it on the tip extractor, pull and insert the other cartridge. Reduce your idle time while increasing operator safety.



More information:

www.jbctools.com

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THE SINGLES



AD 2910 230 V P/N: 2910200
Precision soldering station

Designed for fine pitch soldering

Includes:

- **2210 handpiece**
- 2210-001 cartridge
- Nominal power: 20 W
- Peak power: 40 W
- Temperature range: 90 - 450 °C

AD 2940
Soldering station

230 V P/N: 2940200

Designed for general soldering.

Includes:

- **2245 handpiece**
- 2245-003 cartridge
- Nominal power: 75 W
- Peak power: 140 W
- Temperature range: 90 - 450 °C



MT 2920 230 V P/N: 2920200
Micro tweezers station

Designed for fine pitch rework.

Includes:

- **PA1200 micro hot tweezers**
- 2 X 1200-002 cartridge.
- Nominal power: 20 W
- Peak power: 2 X 40 W
- Temperature range: 90 - 450 °C





AP 2930

230 V P/N: 2930200

Solder feed station

Designed for repetitive non fine pitch soldering.

Includes:

- AP 1300 Solder feed iron.
- I300-403 cartridge.
- Nominal power: 75 W
- Peak power: 140 W
- Temperature range: 90 - 450°C



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Desoldering stations

2 stations designed for fine pitch desoldering.

Basic features:

- Nominal power: 20 W
- Peak power: 40 W
- Temperature range: 320 - 450°C

MD 2964 Electric vacuum pump

230 V P/N: 2964200

Includes:

- DR 3600 Micro desoldering iron with tip.
- MS 9024 Electric vacuum pump



MD 2965 Compressed air system

230 V P/N: 2965200

Includes:

- DR 3600 Micro desoldering iron with tip.
- MS 9025 Air pressure desoldering system.
Max 6 Bar

more information:

www.jbctools.com

Control units

DI 2860 | Tool 230V P/N.: 2860200

DI 3000 2 Tools 230V P/N.: 3000200

Control units featuring digital read-out for precise temperature and tool control. The single unit DI 2860 operates 1 tool while the dual DI 3000 controls 2 tools.

The Dual control unit DI 3000, **allows you to work with one tool and have the other tool in its stand at “sleep” temperature.** To switch, just place back one tool in its stand and take out the other.

All JBC soldering hand pieces and hot tweezers can be used with the DI 2860 and the DI 3000, always using the corresponding stand. In addition the DR 5650 desoldering iron can now be connected to the AD 2860 by adding the desoldering pump (P/N.: 9024000 or P/N.:9025000).

The stations includes all basic advantages and characteristics featured in the rest of our JBC stations. Like sleep and hibernation, temperature limits, PIN blocking, etc.

Both control units are designed for production and rework applications with medium and light thermal requirement.

The stations are provided with extra built-in features to personalize hibernation, sleep settings and temperature limits. All parameters can be blocked with a PIN.

See page 46 for stands

Specifications

- Nominal power 75 W
- Total peak power 140 W
- Temperature selection: 90 - 450 °C
- Antistatic selection box with “skin effect”.
- Weight: 2 kg
- 2210 and 2245 Soldering handpieces, API300 Solder feed iron, PAI200 and PA 4200 Hot tweezers and DR5650 desoldering iron can be connected.
- Sleep mode: 10 W
- Hibernation mode: 4 W

For a complete soldering equipment the following is needed:

- Control unit.
- 1 or 2 of any tool with its corresponding stands and cartridges.



Soldering iron handpieces

Five soldering iron models with a wide range of cartridges detailed below can be connected to the JBC control units.

2210 handpiece

P/N.: 2210000



Real Size

- For high precision applications
- To be used with 2210 cartridges.

Cartridges range

2210			
<p>2210-009</p>	<p>2210-003</p>	<p>2210-014</p>	<p>2210-007</p>
<p>2210-001</p>	<p>2210-005</p>	<p>2210-004</p>	<p>Fine pitch</p> <p>2210-012</p>
<p>2210-016</p>	<p>2210-002</p>	<p>2210-006</p>	<p>2210-008</p>
<p>2210-013</p>	<p>2210-010</p>		

Scale 1:1

more information:

www.jbctools.com



Soldering iron handpieces

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2245 handpiece

P/N.: 2245000



Real Size

- For general soldering work in professional electronics
- To be used with 2245 cartridges.

Handpiece with set screw

P/N.: 2245130



Real Size

- The screw allows fixation of the cartridges in the handpiece
- Ideal for high intensity jobs where NO cartridge change is needed
- To be used with 2245 cartridges.

Comfort handpiece

with 3 meters cable

P/N.: 2245110

P/N.: 2245120



Real Size

- Neoprene grip, thermally isolating and giving more comfort to the user. Ideal for intensive soldering.
- 2245 cartridges.

Comfort handpiece with set screw

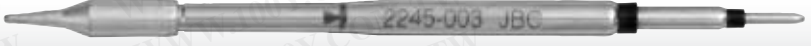

































P/N.: 2245160



Real Size

- Neoprene grip, thermally isolating and giving more comfort to the user. Ideal for intensive soldering
- The screw allows fixation of the cartridges in the handpiece.
- Ideal for high intensity jobs where NO cartridge change is needed.
- To be used with 2245 cartridges.

Cartridges range

2245			
 $\varnothing 0,3$	2245-030 10 cartridge value pack 1045-030	 $\varnothing 0,4$	2245-029 10 cartridge value pack 1045-029
 $\varnothing 0,4$	2245-032	 $\varnothing 0,4$	2245-034 2245-234*
 $\varnothing 0,4$	2245-036	 $\varnothing 0,6$	2245-035
 $\varnothing 0,4$	2245-037	 $\varnothing 1$	2245-004 2245-204*
 $\varnothing 0,6$	2245-001 2245-201*	 $\varnothing 1,5$	2245-259*
 $\varnothing 0,6$	2245-057	 $\varnothing 2$	2245-260*
 $\varnothing 1$	2245-003 10 cartridge value pack 1045-003	 $1 \times 0,5$	2245-062 2245-262*
 $\varnothing 1,5$	2245-043	 $1,6 \times 0,6$	2245-063 2245-263*
 $\varnothing 2$	2245-033	 $2 \times 0,8$	2245-046 2245-246*
 $\varnothing 3$	2245-107		
		 $\varnothing 1,3$	2245-005
		 $\varnothing 2$	2245-045 2245-245*
		 $\varnothing 2,8$	2245-012 2245-212*
		 $3,4$	2245-056* 2245-256* 30°
		 $\varnothing 3,5$	2245-051
		Hoof tip with reduced tinned surface, ideal for touch-up:	
		 $\varnothing 1,3$	2245-064
		 $\varnothing 2$	2245-102
		 $1 \times 0,5$	2245-006 2245-206* 10 cartridge value pack 1045-006
		 $\varnothing 1,6$	2245-044 10 cartridge value pack 1045-044
		 $2 \times 0,8$	2245-007 10 cartridge value pack 1045-007
		 3×1	2245-011 2245-211* 10 cartridge value pack 1045-011
		 3×1	2245-061 2245-261*
		 $4,7 \times 1,4$	2245-008 2245-208* 10 cartridge value pack 1045-008
		 $6,5 \times 1,7$	2245-066 2245-266*

* These cartridges have a total length of 20mm, which is longer than the normal cartridges, allowing them to reach places with difficult access.

Scale 1:1

more information:

www.jbctools.com

Cartridges range

2245

Cartridges to solder SMT IC

4,5 x 1,8

2245-009

4,5 x 1,8

2245-010

ø A

ø A	P/N.:
1,8	2245-065
2,6	2245-031
3,7	2245-038

10 cartridge value pack 1045-031

Bevel edge tips

6

0,2

2245-039

15

0,3

2245-055

Tunnel type for dual in line IC

P/N.:	A mm	B mm
2245-303	6,5	6,0
2245-220	5,4	6,0
2245-250	5,4	8,0
2245-221	5,4	10,0
2245-222	7,5	13,5
2245-306	9,6	10,0
2245-305	9,6	12,0
2245-304	9,6	15,0
2245-215	9,6	18,0
2245-226	14,6	28,4

Blade type

A mm	P/N.:
10	2245-014
21	2245-013
32	2245-049

CHIPS components

A mm	P/N.:
1,9	2245-016
2,2	2245-017
3,4	2245-018
4,5	2245-019

QFP and PLCC

P/N.:	Amm	Bmm
2245-223	8,5	8,5
2245-224	12,0	12,0
2245-228	12,4	15,0
2245-315	15,0	15,0
2245-227	17,5	17,5


For PLCC sockets

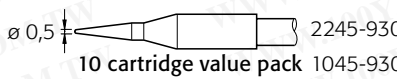
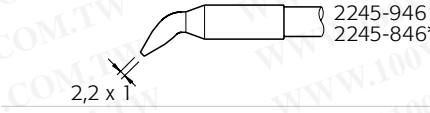
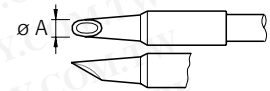

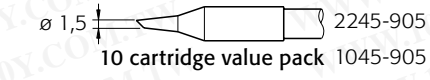
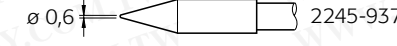

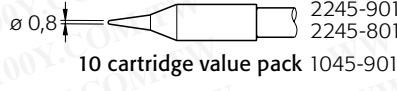


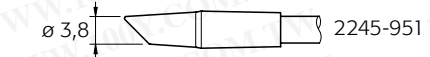
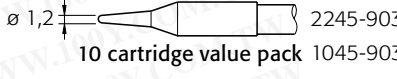
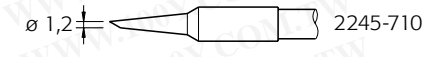

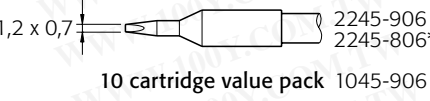
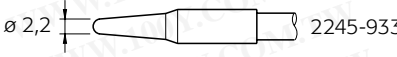
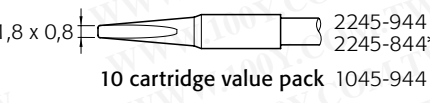
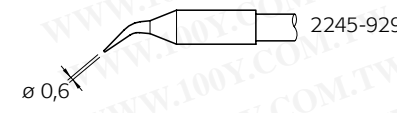
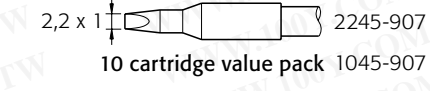
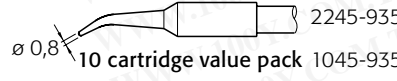
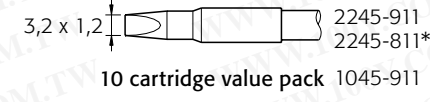
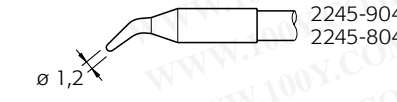
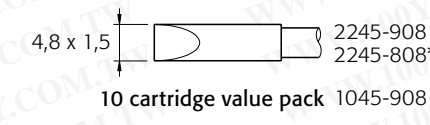
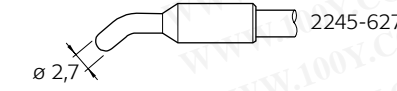
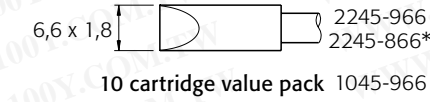
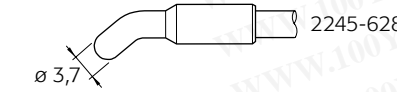
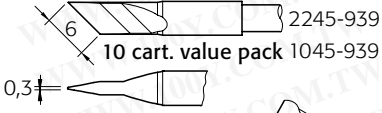
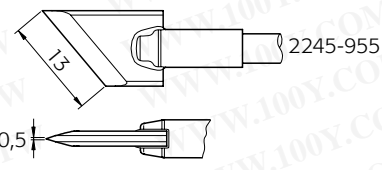
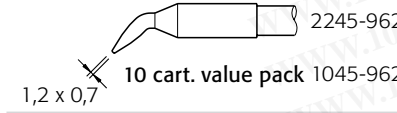
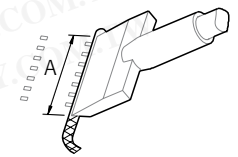
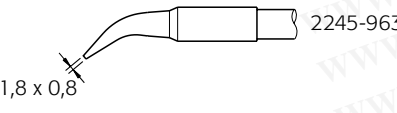
P/N.:	Number of contact positions	Amm	Bmm
2245-248	32	11,9	14,5
2245-247	44	17,0	17,0

EXTENDED LIFE JBC cartridges

The tips on these cartridges have a special plating treatment that extends their life considerably, indicated for lead free soldering.

2245



		<p>CHIPS components</p> <p>MINI SPOON</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>P/N.:</th> <th>ø A</th> </tr> </thead> <tbody> <tr> <td>2245-965</td> <td>1,9</td> </tr> <tr> <td>10 cartridge value pack 1045-965</td> <td></td> </tr> <tr> <td>2245-931</td> <td>2,7</td> </tr> <tr> <td>10 cartridge value pack 1045-931</td> <td></td> </tr> <tr> <td>2245-938</td> <td>3,8</td> </tr> <tr> <td>10 cartridge value pack 1045-938</td> <td></td> </tr> </tbody> </table>	P/N.:	ø A	2245-965	1,9	10 cartridge value pack 1045-965		2245-931	2,7	10 cartridge value pack 1045-931		2245-938	3,8	10 cartridge value pack 1045-938	
P/N.:	ø A															
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	<p style="text-align: center;">Bevel edge cartridges</p>  															
	<p style="text-align: center;">Blade type</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>P/N.:</th> <th>Amm</th> </tr> </thead> <tbody> <tr> <td>2245-914</td> <td>10</td> </tr> <tr> <td>10 cart. value pack 1045-914</td> <td></td> </tr> <tr> <td>2245-913</td> <td>21</td> </tr> <tr> <td>2245-949</td> <td>32</td> </tr> </tbody> </table> 		P/N.:	Amm	2245-914	10	10 cart. value pack 1045-914		2245-913	21	2245-949	32				
P/N.:	Amm															
2245-914	10															
10 cart. value pack 1045-914																
2245-913	21															
2245-949	32															
																

* These cartridges have a total length of 20mm, which is longer than the normal cartridges, allowing them to reach places with difficult access.

Scale 1:1

more information:

Micro hot tweezers

PA 1200 P/N.: 1200000

Designed to perform soldering and desoldering on SMD components, from micro-components up to medium sized ones.

Each cartridge is individually controlled by the microprocessor located inside the control unit, ensuring fast heat-up, accuracy and recovery.

The range of cartridges available allows desoldering of the smallest sized components.

The PA 1200 micro tweezers can be connected to any JBC soldering station, except for the AD 2910, AD 2940, AP 2930, MD 2964, MD 2965, JT 7750 and TE 5400.

Specifications

- Weight of PA 1200 micro tweezers without cartridge or cable 40g.
- No cartridges supplied



Cartridges range

PA 1200

CHIPS components

1200-002 (ø 0,2, 3mm)
 1200-006 (ø 0,5, 3mm)
 1200-004 (ø 0,7, 3mm)
 1200-001 (ø 0,2)

CHIPS components EXTENDED LIFE JBC

1200-902 (ø 0,3, 3mm)
 1200-906 (ø 0,7, 3mm)

Dual in line CI

1200-003 (3mm)
 1200-005 (5mm)
 1200-007 (3,5mm)
 1200-008 (3,5mm)
 1200-009 (6mm)
 1200-010 (6mm)

Supplied individually

Scale 1:1

Hot tweezers

PA 4200

P/N.: 4200000

Especially designed to desolder and solder small and medium sized SMDs. A cable strip cartridge is also available.

Each cartridge is individually controlled by the microprocessor located inside the control unit, ensuring fast heat-up, accuracy and recovery.

Details of our wide range of cartridges are shown below.

The PA 4200 tweezers can be connected to any JBC soldering station, except for the Singles , JT 7750 and TE 5400.

Specifications

- Weight of PA 4200 tweezers without cartridge or cable 50g.
- Supplied without cartridges.



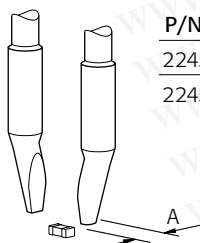
Real size

Cartridges range

PA 4200

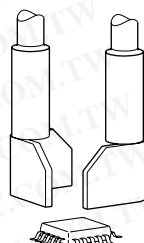


Componentes CHIPS



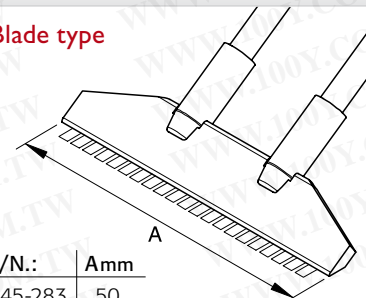
P/N.:	Amm
2245-271	1,5
2245-272	2,5

For QFP and PLCC



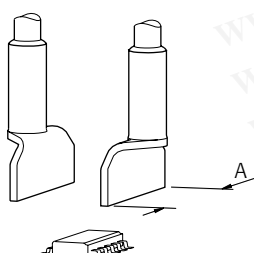
P/N.:	Amm
2245-279	8,0
2245-280	11,0

Blade type



P/N.:	Amm
2245-283	50

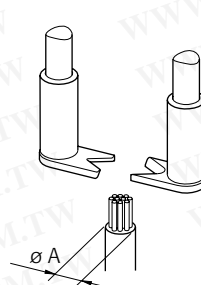
Dual in line CI



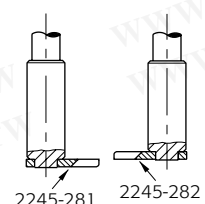
P/N.:	Amm
2245-273	4,0
2245-274	6,0
2245-275	8,0
2245-276	10,0
2245-277	15,0
2245-278	20,0

Supplied individually

Cable stripper



P/N.:	Amm
2245-281	3,5 max.
2245-282	



Scale 1:1

more information:

www.jbctools.com

Solder feed iron

AP 1300

P/N.: 1300000

Provides a "third hand" in soldering by feeding solder wire from 0.8 to 1.2 mm. Especially advantageous in high volume soldering and wherever an extra hand is needed.

You can connect it to any of our JBC stations except for AD 2910, AD 2940, MT 2920, MD 2964, MD 2965, JT 7750 and TE 5400.

- Supplied with cartridge 1300-403 P/N.: 1300403



Spare solder reels for the AP 1300

The soldering irons are fitted with lead free solder reel - 99% Sn / 0,3% Ag / 0,7% Cu - with 50g solder. P/N.: 0005450

Cartridges range

<p>1300-401 ø 0,5</p>	<p>1300-406 2,2 x 1</p>
<p>1300-402 ø 0,8</p>	<p>1300-409 ø 1,7</p>
<p>1300-403 ø 1,2</p>	<p>1300-410 ø 2,2</p>
<p>1300-404 1,2 x 0,7</p>	<p>1300-416 ø 2,7</p>
<p>1300-405 1,8 x 0,8</p>	<p>1300-417 ø 3,7</p>
Scale 1:1	

Micro desoldering iron


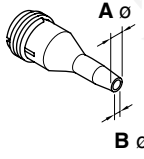




DR 3600 P/N.: 3600000

The microdesoldering iron was born due to the need to adapt new components that are getting smaller every day. Easy to clean and maintain. Tips can be changed by easily pulling and pushing against its stand. It can be connected to stations MD 2960 and MD 2965

specifications
<ul style="list-style-type: none"> • Power 75W. • Supplied with 3600-004 tip.



Desoldering tips range

3600					
	3600-001	3600-002	3600-003	3600-004	
	 A \varnothing 1 B \varnothing 0,6 max pin \varnothing 0,4	 1,2 0,8 0,6	 1,4 1 0,8	 1,6 1,2 1	
Scale 1:1					

more information:

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Electric desoldering pump
MS 9024



4 tools control unit
DM 6700



High power
hot air station
JT 7750



JT 7800

MODULAR SYSTEM

There are 4 new modular units, (pages 26 to 32), which are stackable to optimize the use of bench-space.

A station can be set up with different combinations, the combination can be adjusted with modules and tools depending on the user's needs.

The modular composition shown in the picture, incorporates high power hot air with the JT 7750 station, the DM 6700 control unit and the MS 9024 electric desoldering pump, allowing the use of 5 tools.

勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



DR 5650

PA 1200

2245

2210

High power hot air station

JT 7750

230V P/N.: 7750200

The JT 7750 is used for desoldering all types of SMDs.

Its powerful heater enables quick and safe desoldering of even the biggest QFPs and PLCCs. In addition, it desolders small and medium sized BGA's in a very reduced time span.

Digital read-out temperature allows more precision and tool control.

The system, exclusive to JBC, uses extractors/protectors and hot air, to desolder in a quick, safe and clean way while protecting the surrounding components by concentrating the heat onto the IC.

A medium-sized QFP, for example, can be desoldered in 20 seconds.

The new button on the handle allows users to concentrate on the job without having to make unnecessary and time consuming movements to turn the hot air on.

Specifications

- Air pump for hot-air with electronic control of temperature and air flow.
- Vacuum pump for holding ICs.
- Power: 1000 W.
- Temperature selection: °C or °F, Room - 450 °C and cool
- Air flow regulation: 6-45 l/min.
- Antistatic control box "skin effect".
- Weight of complete system: 8,7 kg.

JT 7750 Includes

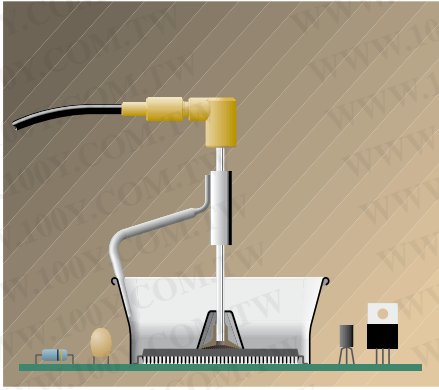
- Control unit P/N.: 7750300 (230V) with 1000 W heater.
- Extractor stand with 5 extractors, 5 protectors and two tripods.
- Heater stand and set of accessories.



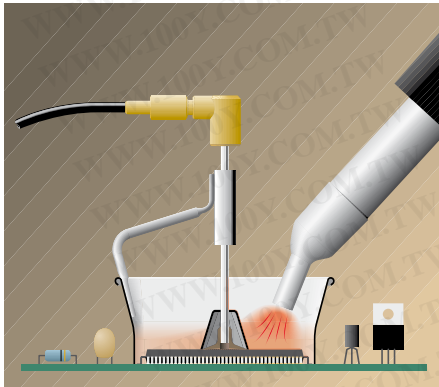
For more information:

www.jbctools.com

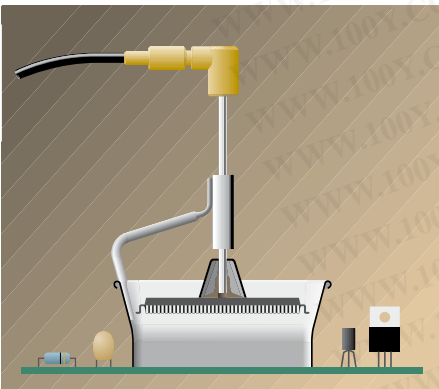
Process to desolder an IC with a JT 7750 station



1. Lock the extractor.



2. Hot-air melts the solder.



3. IC is removed automatically.

The time needed to desolder a medium-sized IC is only 20 seconds.

Protectors



P/N.:	Amm	Bmm	
0003353	4,3	3	
0003786	5,2	5,2	
0003352	5,2	7,5	
0003355	5,2	9,5	
0003356	6,2	4,2	
0003785	7,2	7,2	
0003784	8,2	8,2	
0934035	9	13	
0934040	9,5	19	
0934080	9,5	21	
¹⁻² 32	0932220	10	10
0934045	10,5	21	
0934090	11	16	
¹⁻² 24	0932235	12	17
0001249	12	23	
¹⁻² 44	0934000	12,5	12,5
0001593	13	31,5	
0003354	13,2	13,2	
0934025	13,5	21,5	
¹⁻² 48	0932230	15	15
¹⁻² 60	0934010	17	17
0934005	18	29	
0934030	18,5	18,5	
0001068	18,5	24	
0932685	28,5	28,5	
0934085	31,5	31,5	
0002672	33	46	
0934002	50	50	
0003357	52,5	14	

Manual extractors



P/N.:	Manual extractor
0932190	Manual extractor

Extractors



P/N.:	Amm	Bmm	
¹⁻² 57	0932052	20	20
¹⁻² 64	0932064	20	26
¹⁻² 80	0932184	24	24
¹ 68	0932068	27	27
	0934020	28,5	28,5
	0934015	31,5	31,5
¹ 84	0932084	33	33
¹⁰⁰	0932100	38	38
¹²⁴	0932124	45	45

A and B are inner working areas.

Tripods



P/N.:	ø C mm	
¹⁻² 20	0932050	39
¹⁻² 40	0932250	85

¹ Supplied with the station JT 7750
² Supplied with the station TE 5400

Precision hot air station

TE 5400

230V P/N.: 5400200

The TE 5400 station is ideal for desoldering and soldering small and medium sized SMD's by hot-air. Its compact handpiece and selection of accessories make it the ideal tool for rework on small and dense PCB'S.

It takes about 30 seconds to desolder a medium sized component, quick enough to prevent the substrate and component from heating up to a dangerous temperature. In combination with the unique system of extractors, which process is explained on page 29 of this catalogue, it provides the safest hot air desoldering system in the market.

The station has a digital temperature control feature as well as a regulated and accurate air flow, allowing desoldering SMD's safely, even on a heavily populated PCB's.

Specifications

- Autonomous hot air station, digital, thermo regulated with air flow control.
- Power maximum out: 220 W.
- Temperature selection: °C or °F, Room - 450 °C and cool
- Variable air flow settings between 4 and 11 l/min.
- Antistatic control box with "skin effect".
- Weight of complete system 6,7 Kg.

TE 5400 Includes:

- Control unit. P/N.: 5400300
 - Heater 220 W.
 - Heater stand.
 - Accessories.
 - Extractor stand with 2 tripods, 3 extractors and 5 protectors.
- See range of extractors and protectors on the JT 7750 station.(pág. 29).



Digital control units

DD 5700 Dual 230V P/N.: 5700200

DM 6700 4 Tools 230V P/N.: 6700200

Control units featuring digital read-out that allows precise temperature and tool control.

- The single dual unit DD 5700, allows you to connect and work with 2 tools simultaneously.

- The control unit DM 6700, allows you to connect and work with 4 tools simultaneously.

You can connect to the units DD and DM to all the tools of our JBC range, always using their corresponding stand, including the desoldering iron DR 5650 by adding the desoldering pump (P/N.: 9024000 or P/N.: 9025000).

Includes all basic advantages and characteristics featured in the rest of our JBC stations.

These control units are designed for production and rework applications with medium and heavy thermal requirement.

The stations are provided with extra built-in features to personalise hibernation, sleep settings and temperature limits in each tool independently. All parameters can be blocked with a PIN.

Specifications

DD 5700

- Nominal power : 2 X 75 W
- Total peak power: 2 X 140 W
- Sleep mode 2 X 10 W
- Hibernation mode 2 X 4 W
- Weight 4,5 Kg.

DM 6700

- Nominal power : 4 X 75 W
- Total peak power: 4 X 140 W
- Sleep mode 4 X 10 W
- Hibernation mode 4 X 4 W
- Weight 4,5 Kg.

BOTH:

- Temperature selection between: 90 - 450 °C
- Antistatic control box with "skin effect"

For a complete soldering equipment the following is needed:

- Control unit.
- From 1 to 4 tools with their corresponding stands and cartridges.



more information:

www.jbctools.com

Soldering / desoldering station

Kit DD 5700

230V P/N.: 5700230

The DD 5700 station offers the complete solution for the fast and safe circuit repair with insertion components, for solder extraction. It's also necessary for cleaning the pads in SMD circuits.

Features all the benefits from the JBC technology, such as fast temperature recovery, the sleep mode, small footprint, lightweight tools and manageability of the soldering and desoldering irons.

Apart from the standard configuration, solders and desolders, this station allows the connection of any JBC series tool in both outputs.

Station Composition DD 5700:

- Control unit P/N.: 5700200
- 2245 Handpiece P/N.: 2245000
- 2245-003 cartridge P/N.: 2245003
- DR 5650 Desoldering iron P/N.: 5650000
- Tip P/N.: 5600003
- AD 8241 Stand P/N.: 0788241
- AD 8501 Stand P/N.: 0788501
- Electric desoldering pump P/N.: 9024000
- Set of tools and accessories.



Desoldering iron

DR 5650 P/N.: 5650000

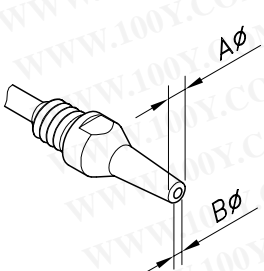







Easy to clean and maintain.

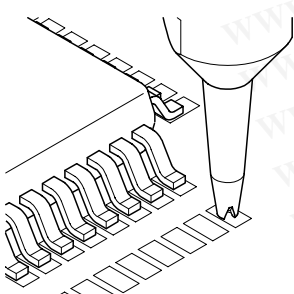
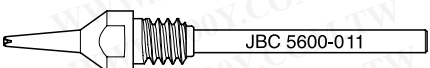
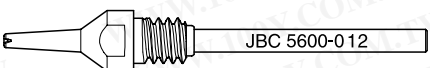
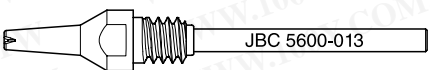
Two different types of solder chambers can be chosen: metal and glass.

Tips can be changed by simply loosening a screw.

Types of solder chambers



5600 desoldering tips							
P/N.:	5600-001HT	5600-002HT	5600-003	5600-004	5600-005	5600-006	5600-007
							
A \varnothing	1,4	1,8	2,7	3,2	3,4	4,2	4,8
B \varnothing	0,6	0,8	1	1,3	1,6	2	2,5
max pin \varnothing	0,4	0,6	0,8	1,1	1,4	1,7	2,3

PAD CLEANING tips		The shape of these tips, is especially designed to clean pads.	
	A \varnothing B \varnothing	1,4 0,6	 P/N.: 5600-011
	A \varnothing B \varnothing	1,8 0,8	 P/N.: 5600-012
	A \varnothing B \varnothing	2,7 1	 P/N.: 5600-013

High thermal performance P/N. HT: This kind of tip has great heat-transmission capability, and thus greater speed in desoldering. They are not quite as durable as the armoured long-life type.

Scale 1:1

more information:

www.jbctools.com

Rework station

AM 6850

230V P/N.: 6850200

Station for rework and repair of through-hole and SMT boards. It contains four modules that cover the main rework tasks:

- **Hot air to desolder any size of SMD component.** The station uses the exclusive JBC system, based on protectors-extractors and hot-air flow (page 29), which makes desoldering safe, clean and quick, concentrating the heat on the IC, and protecting the rest of the circuit at the same time.
- **Desoldering SMTs and cleaning through-hole components and pads** by using the desoldering iron DR 5650. The unit features a self-contained vacuum pump.
- **Pick & Place pencil by suction** to aid components positioning.
- **Soldering and desoldering of all types of components**, with the swift response, high power and superb temperature recovery of the JBC Series.

Includes the Sleep and Hibernation modes and all features and advantages of the JBC system.

The station is easily controllable thanks to the precise information display.

Apart from the standard setup as shown, any of the JBC tools can be connected to both the soldering and desoldering modules; handpieces, desoldering iron, desoldering tweezers or solder feed iron.

In doing so, tools can be combined to set up the station to suit any specific task.

AM 6850 Includes

- Control unit P/N.: 6800300 with air heater 1000W.
- 2245 Handpiece P/N.: 2245000 with the 2245-003 cartridge P/N.: 2245003.
- DR 5650 Desoldering iron P/N.: 5650000 with the 5600-003 tip P/N.: 5600003.
- MP 2260 Pick & Place P/N. 2260000
- Extractor stand with: 5 extractors, 5 protectors and 2 tripods.
- Stands for soldering iron, desoldering iron and heater.
- Set of accessories.

Specifications

- Nominal power: 2 X 75W
- Total peak power 2 X 140 W
- Power hot air unit: 900 W.
- Temperature selection soldering iron: 90 - 450 °C.
- Temperature selection desoldering iron 300 - 450 °C.
- Temperature selection hot air: Room - 450 °C.
- Air flow regulation: 6 - 45 l/min.
- Vacuum pump for holding ICs
- Antistatic control box with "skin effect".
- Weight: 8,1Kg.
- Sleep mode 2 X 10 W
- Hibernation mode 2 X 6 W



Repair process of a circuit with SMD components



Desoldering the IC component with hot air.



Cleaning the pads with desoldering iron.



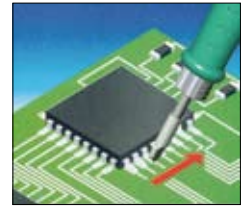
Positioning the component.



Soldering two opposite angles of the component with the soldering iron.



Fluxing the IC pads and leads with flux.



Soldering the leads with the special JBC series tips for soldering SMDs.



more information:

www.jbctools.com

Solder feed station

AL 2500

230V P/N.: 2500200

This is the perfect complement to automate the soldering process through a feed system using the unique advantages of the JBC Soldering station.

The system is supplied containing the control unit AL 2500 that incorporates the electronic control, the motorized solder wire feed, the conduction tube and the solder feed handle.

With the AL 2500 is possible:

- Length selection and thread speed advance.
- Working cycle selection: continuous and step by step.
- Statistic working hours control and soldering cycles.

Specifications

- Nominal power 75 W.
- Total peak power 140 W
- Temperature regulation: 90 - 450 °C.
- It allows diameters of solder thread of 0,5 to 1,5mm, by using the appropriate thread guide accessories.
- Capacity of solder reels up to 2 Kg.
- Sleep mode 10 W
- Hibernation mode 4 W
- Weight: 3,2 kg.

AL 2500 Includes:

- Control unit P/N.: 2500300
- Complete handle P/N.: 2510000
- 2500-403 cartridge P/N.: 2500403
- Tubes set and guides, for: wires
ø 0,9 - 1 mm P/N.: 0002401
- AL 825I stand P/N.: 078825I



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AL 2500 accessories station:

- Tubes set and guides for:
wires \varnothing 0,4 - 0,5 mm P/N.: 0002399
wires \varnothing 0,6 - 0,8 mm P/N.: 0002402
wires \varnothing 0,9 - 1,0 mm P/N.: 0002401
wires \varnothing 1,0 - 1,5 mm P/N.: 0002843
- Pedal set with cable and connector
P/N.: 0964551
- Fume extractor accessorie AL 2510
P/N.: 0004468



more information:

www.jbctools.com

Hands free soldering stand

AL 2500 P/N.: 0002864

To place the soldering iron leaving two hands free, working the feeding through the pedal P/N.: 0964551.

- Maximum height: 405 mm
- Maximum adjustable horizontal distance: 250 mm



Air blower


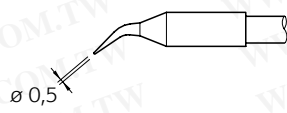
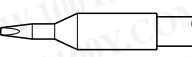
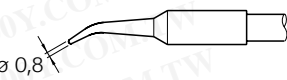
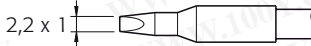

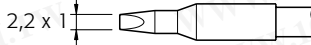
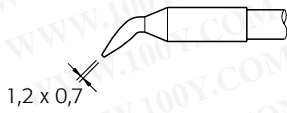

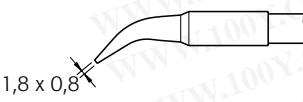




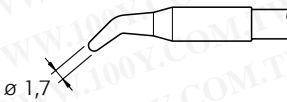
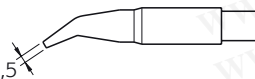

AB 2550 P/N.: 2550200

Air blower designed to reduce the cool down periods of solder joints. Can be adapted to the Hands free soldering stand. P/N.: 0002864

- Power: 15 W.
- Air flow regulation.



Cartridges for the AL 2510 soldering iron

 <p>2500</p>	
 <p>2500-401</p> <p>ø 0,5</p>	 <p>2500-407</p> <p>1,2 x 0,7</p>
 <p>2500-402</p> <p>ø 0,8</p>	 <p>2500-413</p> <p>2,2 x 1</p>
 <p>2500-403</p> <p>ø 1,2</p>	 <p>2500-408</p> <p>2,2 x 1</p>
 <p>2500-404</p> <p>1,2 x 0,7</p>	 <p>2500-411</p> <p>4,8 x 1,5</p>
 <p>2500-405</p> <p>1,8 x 0,8</p>	 <p>2500-414</p> <p>ø 2</p>
 <p>2500-406</p> <p>2,2 x 1</p>	 <p>2500-415</p> <p>ø 3,5</p>
 <p>2500-412</p> <p>4,8 x 1,5</p>	 <p>2500-409</p> <p>ø 1,7</p>
 <p>2500-410</p> <p>ø 2,2</p>	 <p>2500-410</p> <p>ø 2,2</p>

Scale 1:1

more information:

www.jbctools.com

Heavy duty station

HD 4700 230V P/N.: 4700230

The HD 4700 is the best solution for prolonged heavy duty soldering. It is specially designed to solder intensively on multi-layer boards and on parts requiring high amount of heat. The temperature on the tip is strictly controlled by a micro processor through the sensor-heating element integrated to the tip itself. Preventing the use of high temperatures to work on challenging applications.

The HD 4700 also offers high reliability especially in intensive applications like for example in RF technology, solar panels, enclosures or heatsinks.

It includes a sleep system, the hibernation mode and all other basic advantages featured in the rest of our JBC stations.

The 2245/4700 handpiece can be connected to the station using the 4700 cartridge range.

Specifications


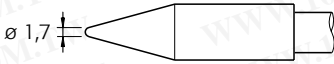
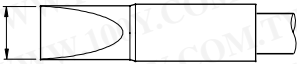

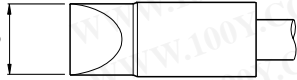

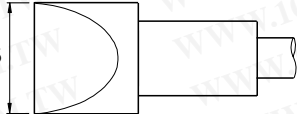
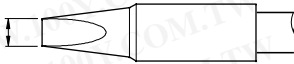


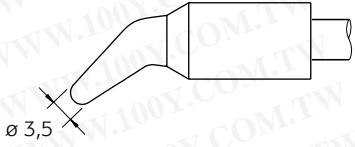


- Nominal Power 145 W.
- Total peak power 270 W.
- Sleep mode 20 W
- Hibernation mode 9 W
- Temperature Range: 90 - 500°C.
- Maximum power soldering iron: 50W.
- Antistatic control box with "skin effect".
- Weight: 4,5Kg.

HD 4700 Includes:

- Control unit. P/N.: 4700200
- 2245 Handpiece P/N.: 2245000
- HD 8471 stand P/N.: 0788471



Cartridges for the HD 4700 soldering iron

4700			
	4700-001 10 cartridge value pack 1047-001		4700-016
	4700-003 10 cartridge value pack 1047-003		4700-006
	4700-013		4700-007
	4700-014		4700-009
	4700-002 10 cartridge value pack 1047-002		4700-008
	4700-015		
	4700-004 10 cartridge value pack 1047-004		

Scale 1:1

more information:

www.jbctools.com

Nitrogen soldering station / hot air

MN 2870 230V P/N.: 2870216

JBC presents the MN2870 Nitrogen station. This station combines 2 ways of transferring heat:

- Firstly by direct contact between the solder tip and the joint just like any soldering iron.
- Secondly as the extra heat radiated from the tip, its residual heat is transferred to the gas, providing unparalleled thermal efficiency.

The advantages are multiple:

Increase of throughput speed by up to 30%. Less thermal stress to the PCB and component. The soldering process can be performed at lower temperatures.

Nitrogen reduces tip oxidation and flux usage.

The MN 2870 is a complete, ready to use package, including power supply, nitrogen flow regulator, stand, tool and a cartridge. The nitrogen flow regulator switches the nitrogen air flow along with the sleep mode. In this way the nitrogen consumption is being reduced to the minimum necessary. The flow can be adjusted between 0,5 and 3,5 liters per minute. We suggest that you set it between 1 and 2 litres for the best result.



Nitrogen flow regulator
MN 9016

Specifications

DI 2870 control unit

230V P/N.: 2870216

- Nominal power: 75 W
- Peak power: 140 W
- Temperature range: 90 - 450 °C

MN 9016 Nitrogen flow regulator

P/N.: 9016000

- Power: 3 W
- N₂ Flow regulation: 0,5 - 3,5 LPM at 5 Bar.
- Max. Pressure: 6 Bar.

* An external nitrogen circuit is needed or the nitrogen generator from JBC MN 9017 P/N.: 9017000

MN 886I Stand

P/N.: 0788861

- Stand for 2245 Nitrogen Handpiece

2245 2245 nitrogen hand piece

P/N.: 2245170

- With 2245-003 cartridge P/N.: 2245003



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MN 2870 Includes:

- DI 2870 I Tool control unit 230V
P/N.: 2870200
- Nitrogen flow regulator MN 9016
P/N.: 9016000
- MN 8861 Stand P/N.: 0788861
- 2245 nitrogen hand piece 2245 P/N.: 2245170
with 2245-003 cartridge P/N.: 2245003



DI 2870
1 Tool control unit

2245
2245 nitrogen hand piece

MN 8860
Stand

more information:

www.jbctools.com

Nitrogen generator unit

MN 9017

P/N.: 9017000

The MN 9017 unit is a generator of nitrogen gas (N₂)

The nitrogen gas is obtained by filtering compressed air through a high performance membrane.

Features of the compressed air:

- Dry air and without oil.
- Water filter of at least 1µm.
- Particles filter of at least 3µm.

Specifications

- Compresses air pressure of 4 inlets 4 to 6 Bar
- Gas N₂ concentration: Up to 99,9 %
- Recommended N₂ gas flow: 1 to 2 NL/min.
- Temperature regulation: 90 - 500°C
- Antistatic control box with "skin effect".
- Weight: 2 Kg.



Desoldering pump modules

ELECTRIC DESOLDERING PUMP

MS 9024

P/N.: 9024000

Electrically driven vacuum pump. Features an overdrive at startup. This will make the vacuum ramp up quickly so the solder is being removed before the solder joint cools down.

AIR PRESSURE DESOLDERING SYSTEM

MS 9025

P/N.: 9025000

Driven by compressed air by means of a Venturi valve. This system offers the best result because the vacuum ramps up instantly.

Compressed air needs to be available at the operator's bench.

Specifications

MS 9024:

- Power: 12 W
- Weight: 1,7 Kg

MS 9025:

- Power: 3 W
- Recommended air pressure: 5 max. 6 Bar
- Weight: 1,4 Kg

BOTH:

- Supply: 24 V
- Antistatic control box with "skin effect".
- Typical surface resistance: 10¹⁵ - 10¹¹ Ω/□
- Complies with CE standards on electrical safety, electromagnetic compatibility and antistatic protection.



Tip cleaning tools

JBC introduces its new range of tip cleaning tools. They have been specifically created to help reducing tip oxidation, a problem created by the lead free process with its higher temperature requirements and use of more aggressive fluxes.



The cleaning tools will be mounted together on the soldering iron's stand, but it is also possible either to mount only one of them or use both stands separately. To join the stands use the stand clip with screws that are included in each stand.

Stands

Range of stands covering the variety of advanced series tools. The stands are situated between the tool and the control unit, which makes the Advanced systems advantages possible. For example, one advantage is the temperature reduction in the "sleep" mode when the tool is put in its stand, thus obtaining an extended tip-life and avoiding oxidation of the tip's solder plating.

The cartridge extractor system in the stands AD 8211, AD 8241 and MN 8861 enable switching cartridge models without interrupting work.

All the stands can be connected to any of the advanced series stations except for the Singles in which the stands is incorporated.

AD 8211

For 2210 handpiece

P/N.: 0788211



AD 8241

For 2245 handpiece

P/N.: 0788241



PA 8111

For PA 1200 micro hot tweezers

P/N.: 0788111



PA 8121

For PA 4200 hot tweezers

P/N.: 0788121



AP 8131

For AP 1300 Solder feed iron

P/N.: 0788131



DR 8361

For DR 3600 micro desoldering iron

P/N.: 0788361



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DR 850I

P/N.: 0788501

For DR 5650
desoldering iron



AL 825I

P/N.: 0788251

For 2510
soldering iron



MN 886I

P/N.: 0788861

For 2245 Nitrogen
handpiece



HD 847I

P/N.: 0788471

For 2245/4700
handpiece.



JT 880I

P/N.: 0788801

For JT 7800
heater



TE 860I

P/N.: 0788601

For TE 5400
heater



Kit extension lead for stands

P/N.: 0781286

Independent extension accessory for any of the JBC
stands. Cable length: 1'5 m.

Extension accessory for the de soldering silicon tube

P/N.: 0781287

Independent extension accessory to be used with
DR 5650 desoldering iron. Length of the tube: 1'5 m.

more information:

www.jbctools.com

Thermometer

TI 2800

P/N.: 2800000

A vital accessory for measuring tip temperatures. It measures the temperature of the soldering tip accurately. In order to verify the sleep temperature an interconnecting cable is included. P/N.: 0780476. Does not need a power supply.



Specifications

- Range 0 to 500 °C.
- Replaceable sensor.
- Resolution 10 °C.
- Weight 0,7 Kg.
- Size: width 165 mm, height 75 mm, depth 105 mm.

Sponge stand

SE 8990

P/N.: 0788990

For tip cleaning. The large surface of the sponge makes its use easier.

Equipped with a water bottle which constantly keeps the sponge humid, for a number of days in normal conditions.

Additionally fitted with stands for two 15 ml bottles of flux.



Cartridges stand

SC 4945

P/N.: 0490100

Stand for the removal and placement of twelve 2245 cartridges.

Perfect view of the cartridge shape enables a quick selection and switch of cartridges.



3 cartridges stand

P/N.: 0002392

This stand can hold up to 3 cartridges 2045/2245 and 2 DR 5650 tips.

It can be adaptable to any actual JBC stand.

Perfect view of tip shape enables to easily select and exchange from one cartridge model to another.

Included in the AD 824I stand.



Fume extractor accessories

For AP 1300 solder feed iron P/N.: 0451204

For 2010 and 2210 handpieces ø 4 mm P/N.: 0003450

For 2045, 2245 and comfort handpieces ø 4 mm P/N.: 0003449

For 2045, 2245 and comfort handpieces ø 6 mm P/N.: 0003435

For comfort handpieces with 3 meters cable ø 6 mm P/N.: 0006457

Adaptable to all the JBC Series iron handpieces.

Easily clips onto the handpieces and can be removed quickly for easy maintenance.



more information:

www.jbctools.com

Solder reel stand

BE 5520

P/N.: 0552300

The ideal accessory to ease the solder supply.



Adjustable reel braking system

Specifications

- Can be used vertically or horizontally.
- For reels in standard DIN sizes.
- Capacity: reels of 1 kg and 2,5 Kg maximum.

Adjustable wire guide

Flux

FL 9582

15 ml P/N.: 0046565

500 ml P/N.: 0049582

Flux especially developed to repair circuits and resoldering components.

It comes in two sizes:

- 15 ml non-leak bottle with an applicator brush.
- 500 ml bottle with tube for pouring.



Specifications

- Water base.
- Low level of residues.
- Clean with water.
- Complies with norms:
NFC 90551, ISO 12224, ISO 9455