Weller®

Soldering, Desoldering, Rework / Repair Tools and Torches

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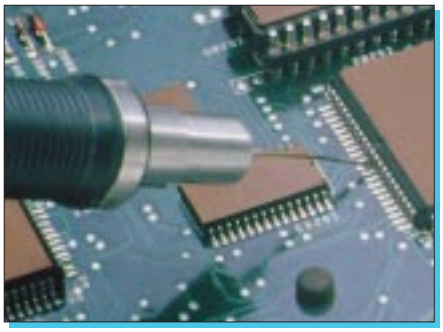

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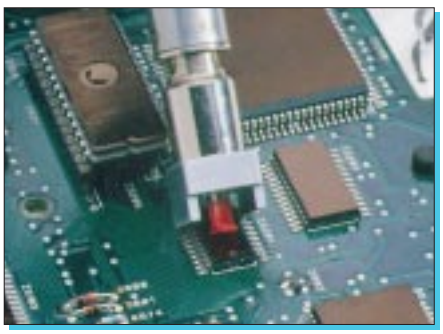

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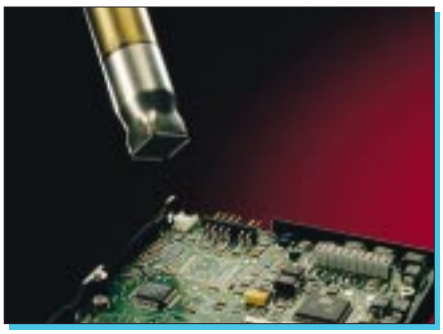

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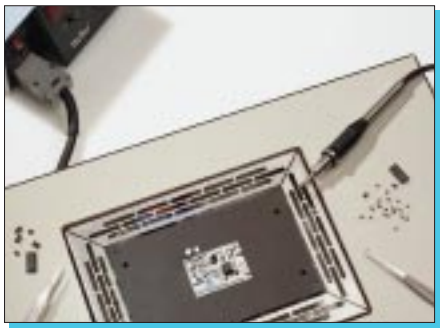

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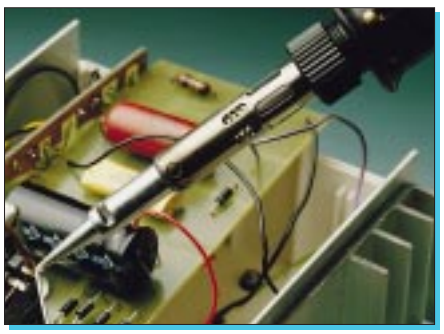

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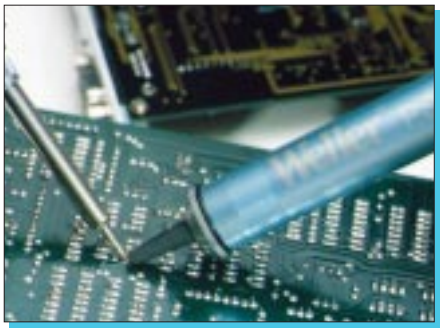

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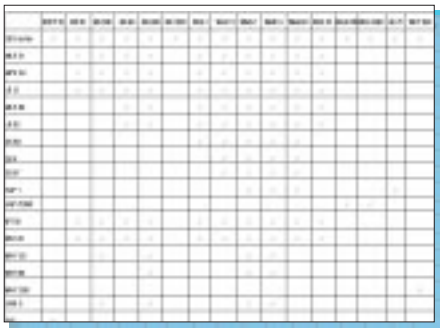

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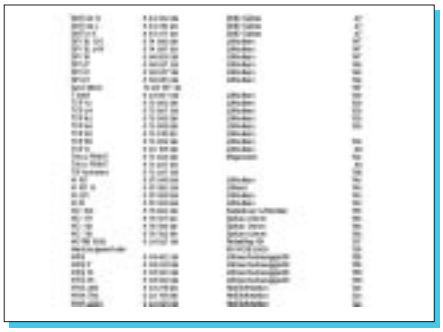

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The Weller Temtronic/SL-series has been developed for electronic experts. The tip temperature is electronically controlled. The maximum temperature is 450°C within a tolerance ± 2%.

To solder extremly sensitive components incorporates several precausions. With the antistatic housing of power unit and soldering iron together with the adequate precautions the stations meet all currents requirements of ESD safety. Potential balance to the soldering tip can be realized by an plug at the backside of the station.

Hard grounded (mains earth) = without plug (as delivered). Potential balanced = with plug, wire at the center terminal.
Zero ohm impedance = with plug,
balance cord. Soft grounded to the mains earth = with plug and inserted resistor (earthed with chosen resister) = without plug and removed Zero ohm resistor (earthed with RC-filter 120kohm/22µF. Potential free = with plug, terminals not connected.

Model

Description

All Stations feature:
- protection category 1
- equipotential bonding (normal state hard earthed)
- antistatic housing
- automatic tool recognition
- ESD safe

WS 50
5 31 106 99

- Analog controlled electronic
- Temperature control via rotary potentiometer
- Temperature range 150° C - 450°C
- Max. output 50 W

Consits of:
- PU 50 power unit 5 31 126 99
- LR 21 Soldering pencil antistatic 5 25 106 99
- KH 20 Support 5 15 020 99
- available approx. 3 / 1998

WSD 50
5 31 206 99

- Digital controlled electronic
- Temperature control adjustable via buttons
- Calibration box may be connected for time (setback) and locking functions (lock out)
- Temperature range: 50° - 450°C
- 3 - position digital display for PRE-SET and READ - VALUE
- Max. output: 50 W

Consits of:
- PUD 50 power unit 5 31 226 99
- LR 21 Soldering pencil antistatic 5 25 106 99
- KH 20 Support 5 15 020 99
- available approx. 3 / 1998

WS 80
5 31 306 99

- Analog control electronics
- Temperature control via rotary potentiometer
- Temperature range 150° C - 450°C
- Max. output 80 W

Consists of:
- PU 80 power unit 5 31 326 99
- WSP 80 Soldering pencill 5 29 161 99
- WPH 80 Support 5 15 140 99

Description

Model

- Digital controlled electronic
- Temperature control adjustable via buttons
- Calibration box may be connected for time (setback) and locking functions (lock out)
- Temperature range: 50° - 450°C
- 3 - position digital display for PRE-SET and READ - VALUE
- Max. output: 80 W

WSD 80
5 31 406 99

Consits of:

• PUD 80 power unit	5 31 426 99
• WSP 80 Soldering pencil	5 29 161 99
• WPH 80 Support	5 15 140 99

- Digital control electronics
- Temperature control adjustable via buttons
- Calibration box may be connected for time (setback) and locking functions (lock out)
- Two independent temperature controls from: 50°C - 450°C,
- 3 - position digital display for PRE-SET and READ - VALUE
- Max output: Channel 1 = 50 W
  Channel 2 = 80 W

WSD 130
5 31 506 99

Consits of:

• PUD 130 power unit	5 31 526 99	
• WSP 80 Soldering pencil	5 29 161 99	
• WPH 80 Support	5 15 140 99	
• LR 21 Soldering pencil antistatic		5 25 106 99
• KH 20 Support	5 15 020 99	

- Electronically controlled Zero cross circuity
- ESD-safe.
- Variable Temperature control
- Long life ceramic plug in heater
- 60 W Iron on full load.

921 ZX
UK

Kat.-Nr.	V	Description
921 ZX	230	Complete Staion with solder iron
Accessories		
Art.-Nr.		Description
9904	UK	Replacement sponse
9908	UK	Replacement heating equipment
9037	UK	Tip retainer for standard tips
9919	UK	Tip retainer for thermal thrust tips
FE ZX	UK	FE-Fume extraction attachment kit

Soldering Tips: see page 86

UK = distributed by Cooper Tools GB only

Options for operating with WS 50, WSD 50, WS 80, WSD 80, WSD 130

	Model	Description
	MLR 21 5 33 111 99	This 25 W antistatic Micro soldering pencil is suitable for virtually all miniature soldering work. Small lightweight handle. Technical Data: • Temperature range: 50°C - 450°C • Output: 25 W Consits of: • Micro soldering pencil MLR 21 5 29 101 99 • Support KH 15 5 15 019 99 Soldering tips: MT-Series, see page 84.
	MPR 30 5 33 110 99	25 W antistatic soldering pencil with adjustable head provides maximum, unobstructed view. Small lightweight handle. Technical Data: • Temperature range: 50°C - 450°C • Output:: 25 W Consits of: • MPR 30 Peritronic soldering pencil 5 29 121 99 • Support KH 25 P 5 15 033 99 Soldering tips: MT-Series, see page 84

Description

Model

50 W „universal“ soldering pencil with a wide range of soldering tips.

LR 21
5 33 112 99

Technical Data:
- Termperatur range: 50°C-450°C
- Output: 50 W

Consits of:
- LR 21 Soldering pencil, antistatic 5 25 106 99
- Support KH 20 5 15 020 99

Soldering tips: ET-series, see page 85

The Weller soldering pencil WSP 80 features a high precision and very fast heating up time. The ergonomic design and high performence of 80 W allows soldering from fine jobs to heavy duty. Tip exchange fast and easy. The fast heating up time allows immediate working after tip exchange.

WSP 80
5 33 125 99

Technical Data:
- Temperature range: 50°C-450°C
- Output: 80 W

Consits of:
- Soldering pencil WSP 80 5 29 161 99
- Support WPH 80 5 15 140 99

Soldering tips: LT-series, see page 89

Accessories:
- Barrel (exchange) 5 87 447 08

The LR 82 80 W soldering iron for high mass soldering. Tip exchange via bayonet lock

LR 82
5 33 113 99

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 80 W

Consits of:
- LR 82 Soldering pencil5 26 152 99
- Support KH 27 5 15 027 99

Soldering tips: HT-series, see page 90 -91

Desoldering heads: see page 91

Modell

Description

WT 50
5 33 120 99

The WT 50 desoldering tweezer for desoldering SMD components is suitable to all Weller Temtronic / SL - series stations. Dual heating elements with two independent temperature sensors provide the tips with constant temperature. The tips are fixed via clamp screws.

Technical Data:
- Temperature range: 150°C-450°C
- Output: 2 x 25 W

Consits of:
- Desoldering tweezer 5 13 170 99
- Support AK 50 5 15 041 99
- Hex screwdriver SW 1,3

Accessories:
- Align devive for soldering tips WT1-WT5 5 13 176 99 (for fast and exact alignment)

Soldering tips: WT-Series, see page 89

WST 20
5 25 030 99

The WST temperature controlled thermal stripping tool is suitable to all Temtronic / SL-Series stations. It strips off thermoplastic insulation materials by using precisely shaped stripping blades. The stripping length is infinitely adjustable up to 30 mm. Optimal temperature control via power unit.

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 50 W

Consits of:
- Wire-Stripper
- Support WST 20 5 15 032 98
- Antibloc paste 5 13 030 99
- Flat cable knife set 1,27mm 5 87 257 18
- Cutting knife set 5 87 257 23
- Knife set AWG 12, 16, 24, 26 5 87 257 29
- Hex key SW 2 5 87 250 25
- Brush 5 87 250 34
- Screwdriver 5 87 250 35
- Wrench SW 8 5 87 270 71

Accessories:
- Knife set AWG 12, 14, 24, 26 5 87 257 29
- Knife set AWG 14, 18, 22, 26 5 87 257 32
- Universal knife set WST 20 5 87 257 22

Description

WHP 50 (50 W 24 V)
WHP 80 (80 W 24 V) Heating plates.
Electronic temperature control 50°C - 200°C. Heating surface 85 x 55 mm to pre heat IC boards.

Modell

WHP 50
5 27 026 99

WHP 80
5 27 028 99

The Exin 5 features an electronically controlled reflow bath it is suitable to all Temtronic / SL - Series stations and specially developed to desolder and solder dual-inline integrated circuits. It enables all leads of the IC to be simultaneously desoltered by the reflow method.

EXIN 5
5 13 050 99

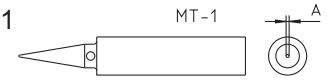
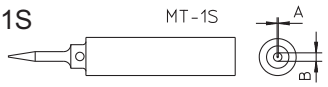
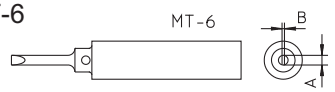
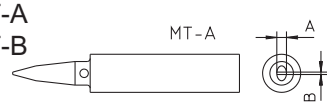
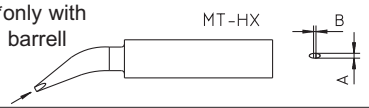
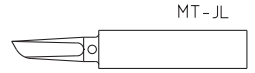
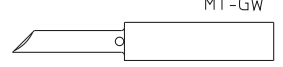
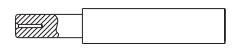
Consits of:
- EXIN 5
- Reflow bath RB 14/16 5 41 712 98
- Flux-set 5 13 016 99
- Insertion tool DIP-IC 14/16 5 47 003 99
- Extraction tool PUL-IC 14/20 5 47 013 99

Description and accessories see page 92-93.

Survey

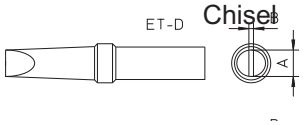
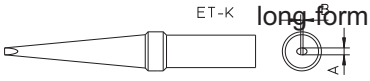
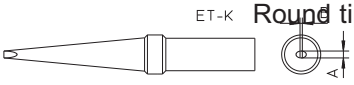
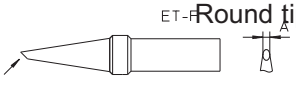
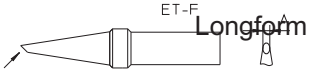
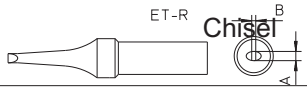
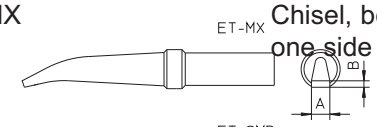
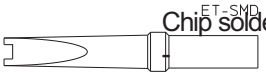
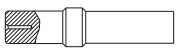
	WS 50	WSD 50	WS 80	WSD 80	WSD130	
					Channel 1	Channel 2
MLR 21	4	4	4	4	4	4
MPR 30	4	4	4	4	4	4
LR 21	4	4	4	4	4	4
WSP 80			4	4		4
LR 82			4	4		4
WT 50	4	4	4	4	4	4
WST 20	4	4	4	4	4	4
WHP 50		4		4	4	4
WHP 80				4		4
EXIN 5		4		4	4	4

Soldering Tips for MLR 21 and MPR 30 (MT-Series)

Model	Description	Width A	Order.-No.
MT-1 	Micropoint	0,25 mm	5 44 101 99
MT-1S 	Micropoint	0,25 mm	5 44 105 99
MT-6 	Chisel	1,6 mm	5 44 106 99
MT-4 	Round tip	1,2 mm	5 44 104 99
MT-H MT-A MT-B 	Chisel	0,8 mm 1,6 mm 2,4 mm	5 44 112 99 5 44 110 99 5 44 111 99
MT-HX* *only with barrell 	Chisel bent	0,8 mm	5 44 113 99
MT-JL**  MT-GW** conical MT-GW** zylindric 	Soldering tips for Gull wings (J-Leads) tips-ř 2 mm tips-ř 4 mm		5 44 118 99 5 44 119 99 5 44 120 99
- 	Calibration tip		5 44 114 99

** Description see ET-Series and SMD-tips on page 86.

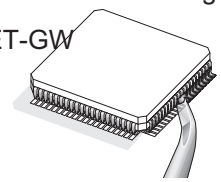
Soldering tips for LR 21, LR 21 antistatic, T 3001, EC 1201 (ET-Series)

Model Order-No.	Order.-No.	Description	Width A		
				for regular solder	for HMP-solder
ET-H		Chisel	0,8 mm	5 41 000 99	5 41 000 74
ET-A			1,6 mm	5 41 001 99	-
ET-B			2,4 mm	5 41 002 99	5 41 002 71
ET-C			3,2 mm	5 41 003 99	5 41 003 72
ET-D			4,6 mm	5 41 004 99	-
ET-E			5,6 mm	5 41 005 99	-
ET-K		long form	1,2 mm	5 41 006 99	-
ET-L			2,0 mm	5 41 007 99	5 41 007 73
ET-M			3,2 mm	5 41 008 99	-
ET-BS		Round tip, blust	2,4 mm	5 41 009 99	-
ET-CS			3,2 mm	5 41 010 99	-
ET-DS			5,0 mm	5 41 011 99	-
ET-F		Round tip, sloped	1,2 mm	5 41 012 99	-
ET-BB			2,4 mm	5 41 055 99	-
ET-CC			3,2 mm	5 41 013 99	-
ET-O		Longform, conical	0,8 mm	5 41 014 99	-
ET-S			0,4 mm	5 41 017 99	-
ET-R		Chisel	1,6 mm	5 41 015 99	-
ET-MX		Chisel, bent, one side wettable only	3,2 mm	5 41 016 99	-
ET-SMD		Chip soldering / desoldering hip	2,5 x 1,5 mm		5 41 039 99
ET-SMD			3,8 x 1,5 mm	5 41 040 99	-
ET calibration tip				5 24 750 00	

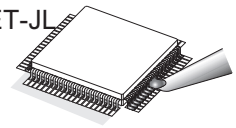
GW- and JL- tips for soldering QFP's and PLCC's

JL- and GW-tips have been designed especially for soldering fine -pitch SMD-components. It is possible to solder one side, sometimes even the whole component, without interruption. You don't have to pre-tin the pads or have to take soldering paste, because the solder will be delivered from the solder-depot of the tip.

ET-GW

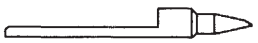


ET-JL



Model	Description	Width	Order-No.
ET-JL	Soldering tips for J-Leads		5 41 043 99
ET-GW	and Gull wings	5 41 045 99	

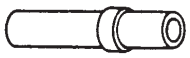
Series 9000 Soldering tips for 921 ZX
All Weller soldering tips are iron and chrome plated and pre tinned

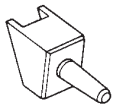
Tip Catalog	Description	For use with iron		mm / " Nr.	
	Precision point	9211/2111AS/9911AS	0.25/0.01	9010	UK
	Spade 60°	9211/2111AS/9911AS	0.75/0.03	9011	UK
	Srewdriver	9211/2111AS/9911AS	1.25/0.05	9012	UK
	Spade 45°	9211/2111AS/9911AS	1.50/0.06	9013	UK
	Spade 60°	9211/2111AS/9911AS	0.50/0.02	9014	UK
	Srewdriver	9211/2111AS/9911AS	1.75/0.07	9015	UK
	Srewdriver	9211/2111AS/9911AS	2.30/0.09	9016	UK
	Srewdriver	9211/2111AS/9911AS	0.75/0.03	9017	UK
	Srewdriver	9211/2111AS/9911AS	1.25/0.05	9018	UK
	Short spade 60°	2111AS/9911AS	0.75/0.03	9019	UK
	Conical	9211/2111AS/9911AS	0.50/0.02	9050	UK
	Srewdriver	9211/2111AS/9911AS	3.30/0.13	9051	UK
	Short spade 60°	9211/2111AS/9911AS	0.50/0.02	9052	UK

UK = distributed by Cooper Tools GB only

SMD-tips and adapter

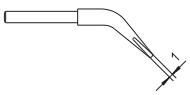
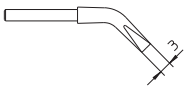
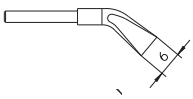
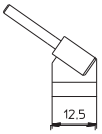
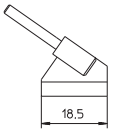
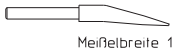
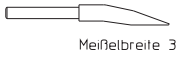
What you need is one adapter and the corresponding tip. The adapter can be used for all tips so that you need it only once.

Tip		Adapter for	Type	Order-No.
1,2		MLR 80 / WSP 80		5 44 417 99
		LR 21, FE 50, T3001	SMTA	5 44 300 99
		Support for tips		5 15 017 99

Tip		Component				
Idendetification		Size of component Inch L x B	Size of component metrisch mm L x B	Code-No. IEA/inch	Code-No. IECQ/mm	Type / Order-No.
A/1 0405 A		.040 x .050 5 44 301 99	1,0 x 1,2	0405		10 12 SMT
		.050 x .040	1,2 x 1,0	0504	12 10	
		.050 x .050	1,2 x 1,2	0505	12 12	
		.060 x .030	1.6 x 0,8	0603	16 08	
B/1		.070 x .050 .080 x .050	1,8 x 1,2 2,0 x 1,2	0705 0805	18 12 20 12	SMT 0805 B 5 44 302 99
C/1		.100 x .050	2,5 x 1,2	1005	25 12	SMT 1005 C 5 44 303 99
D/1		.120 x .060 .120 x .100	3,2 x 1,6 3,2 x 2,5	1206 1210	32 16 32 25	SMT 1206 D 5 44 304 99
E/1		.150 x .050	3,8 x 1,2	1505	38 12	SMT 1505 E 5 44 305 99
F/1		.180 x .050 .180 x .080 .180 x .120	4,5 x 1,2 4,5 x 2,0 4,5 x 3,2	1805 1808 1812	45 12 45 20 45 32	SMT 1805 F 5 44 306 99
G/1		.180 x .250 .220 x .200	4,5 x 6,4 5,6 x 5,0	1825 2220	45 64 56 50	SMT 1825 G 5 44 307 99
H/1		.138 x .063 .138 x .081	3,6 x 1,5 3,6 x 2,0	SOD 80 SOD 87	37 15	SMT 80 H 5 44 308 99
I/1		.118 x .098 .118 x .098	3,0 x 2,50 3,0 x 2,50	SOT 23 SOT 143		SMT 23 I 5 44 309 99
J/1		.181 x .167	4,6 x 4,2	SOT 82		SMT 89 J 5 44 310 99
K/2		.197 x .157	5,0 x 4,0	SO 8		SMT 8 K 5 44 311 99
L/2		.344 x .157	8,7 x 4,0	SO 14		SMT 14 L 5 44 312 99

	Model	Description
	DIL-16-WGEC 5 41 744 99 DIL-24-WGEC 5 41 748 99	Desoldering tip for use on dual-in-line packages 2,54 mm, to use with ECP, LR 20, LR 21 and T3001. Exact fitting desoldering channels allow rapid desoldering (contact line distance 7,62 mm)
	DIL-E-24 5 41 747 99	Desoldering tip for use on dual-in-line packages with 24 Pins, to use with ECP, LR 20, LR 21 and T3001 contact line distance 15,24 mm.
	DSE-TO 5 41 746 99	Desoldering tips for round IC's in TO-5 housings, to use with ECP, LR 20, LR 21 and T3001
	FP 7 EC 5 41 731 99	Flat pack soldering tip 9 mm width for use with ECP, LR 20, LR 21 and T3001
	Tin-A-Print 5 13 021 99	For coating of circuit boards for use with ECP, LR 20, LR 21, T3001
	DS-7 EC 5 13 042 99	Desoldering Assembly for für ECP/24 V, LR 20, LR 21, T3001
	5 25 098 99	Extension corde for LR 20 and LR 21, length 4 m with coupling and 5-pin plug.

Soldering tips for WT 50 (WT-Series)

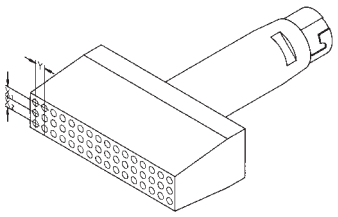
Model		x	y	Component	Order-No.
WT-1		1,0	11	Chip 0405-1805, SOD80, MELF	5 44 141 99
WT-2		3,0	11	Chip 1808-1812, SOD87, SOT23, SOT143, SOD89	5 44 140 99
WT-3		6,0	11	SOT 192, SO4-SO8	5 44 142 99
WT-4		12,5	10	SO14, SO16, SOJ14, SOJ16	5 44 143 99
WT-5		18,5	12	SO20, SO20L, SOJ20	5 44 144 99
WT 11		1,0		vertical use	5 44 150 99
WT 12		3,0		vertical use	5 44 151 99
WT 1S		0,5			5 44 145 99

Soldering tips for MLR 80 and WSP 80 (LT-Series)

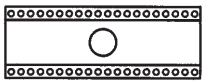
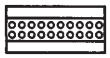
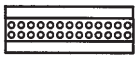
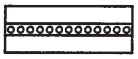
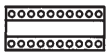
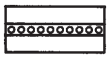
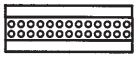
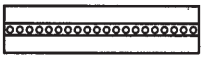
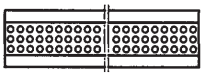
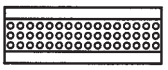
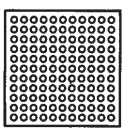
Model	Description	Order-No.			
LT 1	Round tip 0,25mm	5 44 401 99	LT A	Chisel tip 1,6mm	5 44 403 99
LT 1 S	Round tip o,2mm	5 44 402 99	LTA S	Round tip 1,6mm	5 44 404 99
LT B	Chisel tip 2,4mm	5 44 405 99	LT C	chisel tip 3,2mm	5 44 407 99
LT D	Chisel tip 4,6mm	5 44 409 99	LT H	Chisel tip 0,8mm	5 44 412 99

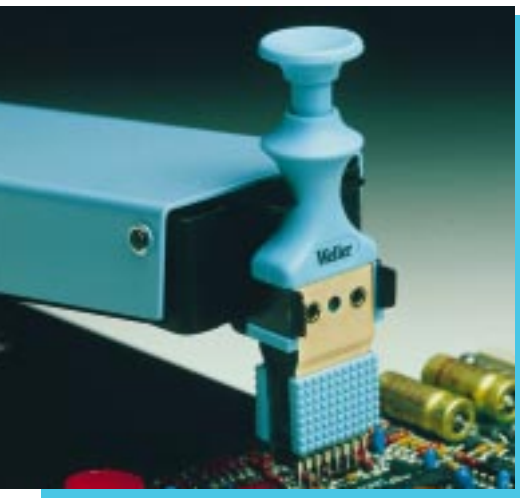
Soldering Tips for LR 82 (HT-Series)

Model	Description	Width	Ref-No. WECP-82
HT-1	Chisel tip	3,2 mm	5 44 260 99
HT-2	Chisel tip	5,2 mm	5 44 261 99
HT-3	Chisel tip	7,0 mm	5 44 262 99
HT-C	Chisel tip	3,2 mm	5 44 267 99
HT-D	Chisel tip	4,6 mm	5 44 268 99
HT-E	Chisel tip	5,6 mm	5 44 269 99
HT-BS	Round tip	2,4 mm	5 44 264 99
HT-CS	Round tip	3,2 mm	5 44 265 99
HT-DS	Round tip	5,0 mm	5 44 266 99
	Calibration tip		5 44 263 99



Desoldering heads for LR 82 (HT-Series)

Model + Description		X_1	X_1+X_2+X	Y	Order-No.
HT-Desoldering heads, 40-pins		2,54	15,24	2,54	5 44 180 99
HT-Desoldering heads, 20-pins		2,54	7,62	2,54	5 44 181 99
HT-Desoldering heads, 26-pins		2,54	2,54	2,54	5 44 182 99
HT-Desoldering heads, 13-pins		2,54		2,54	5 44 183 99
HT-Desoldering heads, 20-pins		2,54	2,54	2,54	5 44 184 99
HT-Desoldering heads, 10-pins		2,54		2,54	5 44 185 99
HT-Desoldering heads, 29-pins		2,54		2,54	5 44 186 99
HT-Desoldering heads, 20-pins		2,54		2,54	5 44 187 99
HT-Desoldering heads, 96-pins		2,54	5,08	2,54	5 44 190 99
HT-Desoldering heads, 48-pins		2,54	5,08	2,54	5 44 192 99
Desoldering heads for PGA, 121-pins		2,54	2,54	2,54	5 44 195 9



EXIN 5

Model

Description

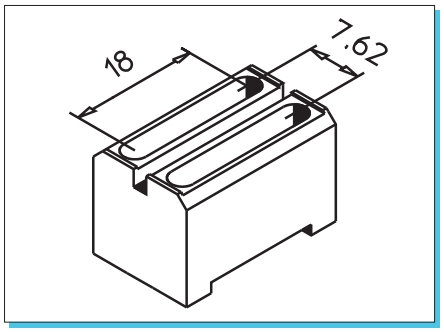
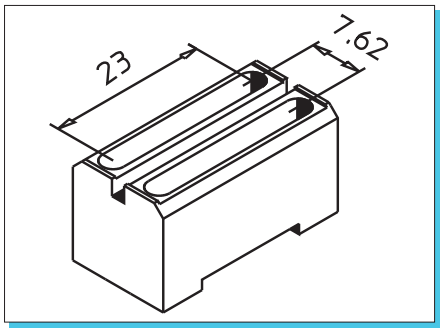
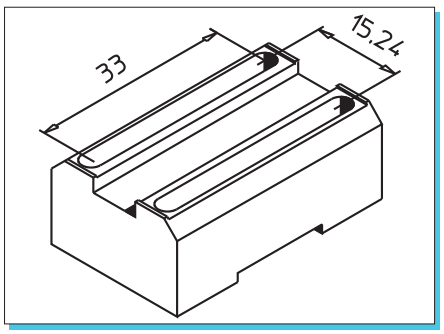
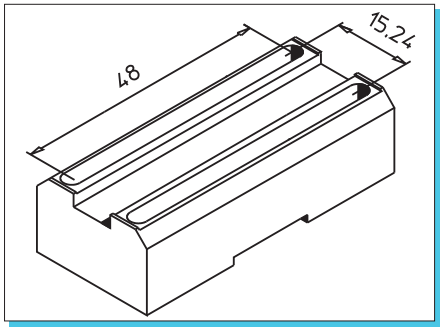
EXIN 5
5 13 050 99

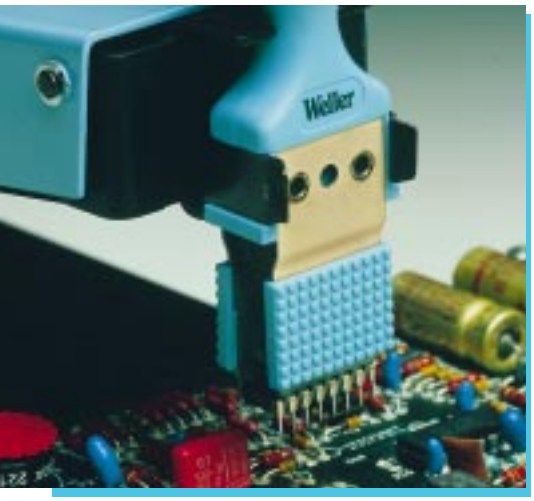
The Exin 5 features an electronically controlled reflow bath, suitable to all Temtronic ISC-Series stations and specially developed to desolder and solder dual-in-line integrated circuits. It enables all leads of th IC to be simultaneously desoldered by the reflow method.

Consists of:
- EXIN 5
- Reflow bath RB 14/16 5 41 712 98
- Flux-Set 5 13 016 99
- Insertion tool DIP-IC 14/16 5 47 003 99
- Extraction tool PUL-IC 14/20 5 47 013 99

PU 50
5 32 126 99

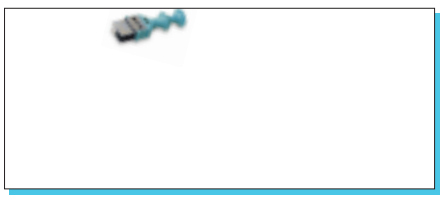
Power Unit
- Analog control
- Temperature control via rotary potentiometer
- Lock-out key for set function
- Temperature range: 150°C - 450°C
- Max. output: 50 W

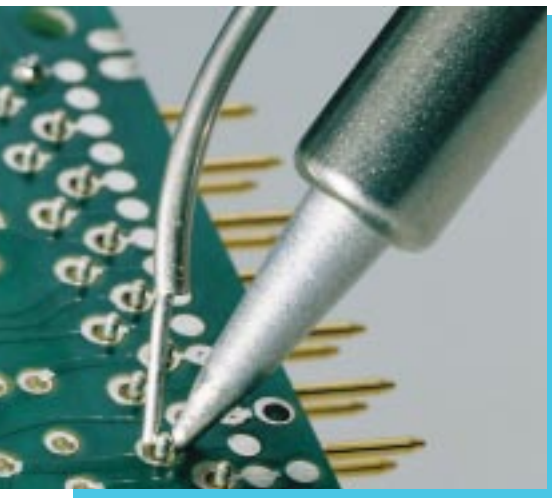
Description	Model	
Accessories:		
Reflow bath for desoldering and soldering IC's with 6-8 pins. Contact line distance 7,62 mm.	RB 6/8 5 41 710 98	
Reflow bath for desoldering and soldering IC's with 14/16 pins. Contact line distance 7,62 mm.	RB 14/16 5 41 712 98	
Reflow bath for desoldering and soldering IC's with 18-20 pins. Contact line distance 7,62 mm.	RB 18/20 5 41 718 98	
Reflow bath for desoldering and soldering IC's with 24-28 pins. Contact line distance 15,24 mm.	RB 24/28 5 41 714 98	
Reflow bath for desoldering and soldering IC's with 36-40 pins. Contact line distance 15,24 mm.	RB 36/40 5 41 716 98	



IC-Extractor

	Model	Description
	Pul-IC 6/8 5 47 012 99	IC-Extractor for removing IC's with 6-8 pins.
	Pul-IC 14/20 5 47 013 99	IC-Extractor for removing IC's with 14-20 pins.
	FLIP-DIP 14/16 5 47 023 99	IC-Extractor works with spring pressure for IC's (dual-in-line) up to 16 pins. To be used in conncetion with DIL-16-WG (Order-No. 5 41 734 99, p. 102) or DIL-16:WGN (Order-No. 5 41 735 99, p. 145).
	Pul-IC 24/28 5 47 014 99	IC-Extractor for removing IC's dual-in-line with 24-40 pins.
	FLIP-DIP 24 5 47 024 99	IC-Extractor workts with spring pressure. For IC's dual-in-line with 24 pins. (to be used with DIL-24, Order-No. 5 41 739 99, p. 102)

Description	Model	
IC-Extractor for removing IC's with 36-40 pins.	PUL-IC 36/40 5 47 015 99	
IC-Extractor for round IC's. To be used in connection with desoldering tip DS-TO 5. DS-TO 5 41 745 99 for Magnastat Soldering, p. 99 DSE-TO 5 41 746 00 for Temtronic soldering, p. 77	PUL-TO 5 47 011 99	
IC-Insertion tool for IC's with 6-8 pins. Contact line distance 7,62 mm.	DIP-IC 6/8 5 47 002 99	
IC-Insertion tool for IC's with 14-16 pins. Contact line distance 7,62 mm.	DIP-IC 14/16 5 47 003 99	
IC-Insertion tool for IC's with 18-20 pins. Contact line distance 7,62 mm.	DIP-IC 18/20 5 47 006 99	
IC-Insertion tool for IC's with 24 resp. 28 pins. Contact line distance 15,24 mm.	DIP-IC 24 5 47 004 99 DIP-IC 28 5 47 007 99	
IC-Insertion tool for IC's with 36-40 pins. Contact line distance 15,24 mm.	DIP-IC 36/40 5 47 005 99	
IC-Insertion tool for round IC's in TO-5 housings.	DIP-IC TO 5 47 001 99	



SFA / SFC

Model

SFA
5 28 020 99

Description

Soldering station with automatic solder feeder.
The solder is fed with a nozzle to the solder joint. The exact distance is assured by using a spring. This guarantees that the solder automatically returns from the hot tip after each soldering process hence prevents flux dropping. A timer determines the exact solder quantity for each solder joint can be dispensed with a finger switch on the iron handle.

Technical Data:

• Temperature range:	150°- 450°C
• Output:	50 W
• Solder:	ř 0,8 -ř 1,5 mm
• all ESD safety requirements	

Consists of:

• Power unit PU S	5 32 064 99
• SFA Feeder unit	
• Soldering pencil SFA	5 28 110 99
• Support KH 23	5 15 023 99
• System holder	5 87 327 25

Soldering tips: ET-series, s. page 85.

Description

Soldering station with continous solder feeder.
The solder quantity is controlled with an integrated finger switch. The feed speed is continously variable. For soldering tasks asking for variable solder quantities.

Technical Data:
- Temperature range: 150°C - 450°C
- Max. output: 50 W
- Solder: ř 0,8 - ř 1,5 mm
- all ESD safety requirements

Consists of:
- Power unit PU S
5 32 064 99
- SFC Feeder unit
- Soldering pencil SFC 5 28 111 99
- Support KH 23 5 15 023 99
- System holder 5 87 327 25

Soldering tips: ET-series, s. page 85.

Model

SFC
5 28 030 99

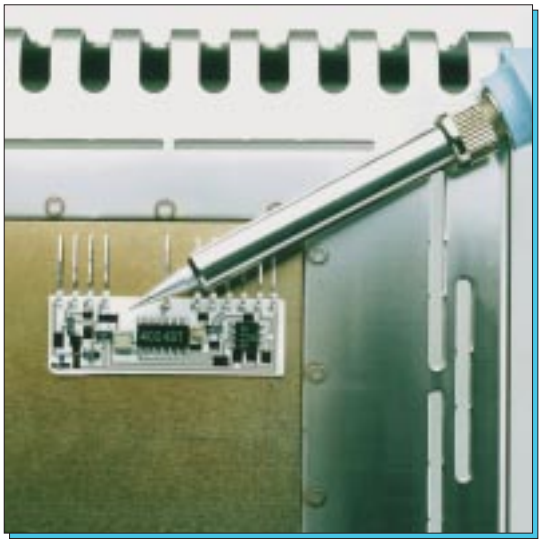
Accessoires for SFA /SFC
- Foot switch (alternative to finger switch)
5 13 120 99
- FE assembly kit 5 25 126 99
- Stative for SF soldering pencil with fume extraction
5 13 035 99
- SFC feeder tube with Teflon inside tube, ř 1mm
5 87 327 94

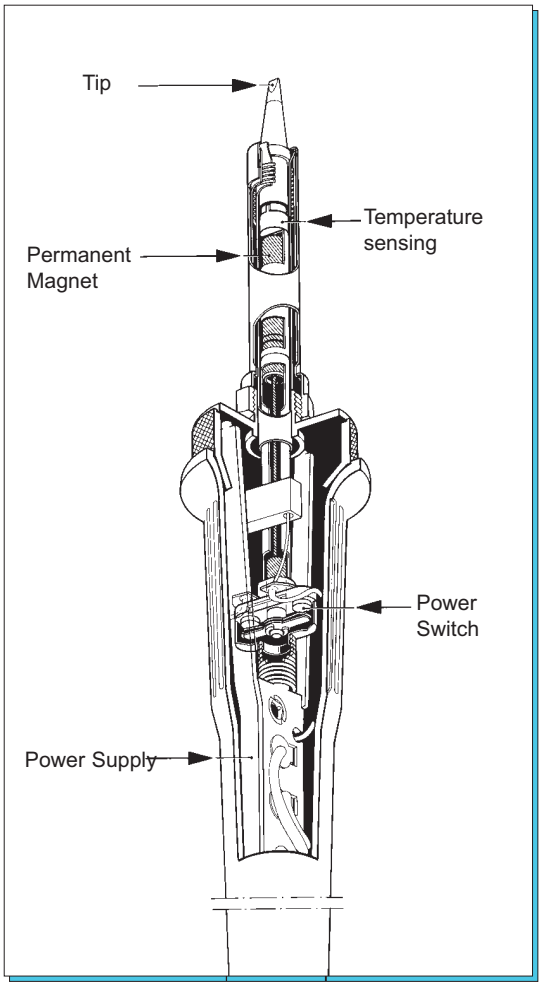
WSA 1R
5 33 076 99

Weller Single Analog Control unit 230V/80 W for use in soldering robots. The station features a temperature supervision which controlls the tip temperature when the tip temperature changes an potential free contact changes from low-Ohm to high-Ohm. This contact can be processed by an „SPS“.

Technical Data:
- Temperature range:
50°C - 450°C
- Max. Output: 80 W
- Potential free contact: max. 24 V/20 mA
- Digital display for set and read temperature
- Meets all ESD safety requirements
- All Weller Temtronic/SL-series soldering irons from 25 - 80 W can be connected

Consists of:
- Control unit





Magnastat Soldering System

The Weller Magnastat system operates through a ferro-magnetic sensing device which changes its characteristics when specific tem-peratures are reached. This causes it to either attract or repel a permanent magnet which operates a power supply switch. In this way power to the heating element can be quickly switched on or off to either provide extra power for soldering operations or reduced power when idling. Various pre-selected tip tempera-tures - which is the „Curie point“, the tempera-ture at which the magnetic changes its charac-teristics - are available to permit different types of soldering to be undertaken.

Working temperature selection is achieved by simply changing the „temperature sensing“ soldering tip. These are available in temperature ratings of 260°C, 360°C, 370°C, 425°C and 480°C. The tips are made of pure copper for effective heat conductivity.

The heating element has an optimal heating effect on the tip. This is possible through high precision of the tubes, the winding and insu-lation, which means that the heating element should never be gripped with pliers or be hammered in any way.

It is quite sufficient to secure the soldering tip by tightening it into the tip sleeve by hand (when the iron is cold).

The solder is an important factor for the quality of soldered joints. The most suitable is copper-free SN 60with a flux core. The flux should be organic and very easily activated. Fluxes with a halogen content should not be used.

The soldering temperature can be set relatively low because of the powerful heat control. It should be set between 300°C and 380°C depending on the quality of solder used and the soldering location. Higher temperatures only bring seemingly higher cycle times which affect soldering quality, the life of the soldering iron tip and all components suffer.

The soldering operation should be effected in the following order: heating the solder joint then supply the solder between joint and tip. The solder should never be applied to the tip and then to the soldering joint. This causes „dry“ joints.

Low Voltage Soldering Irons

Description

Magnastat Soldering Station consists of:
Safety transformer class II, 230 x 24 V soldering iron TCP S and holder KH 20. The iron is supplied with a 3-wire cord. The third wire is led through the plug directly to the socket for potential balance.

Consists of:
- PU T50 Power unit 5 31 026 99
- TCP S Soldering pencil 5 32 105 99
- KH 20 Holder 5 15 020 99

Model

WTCP 50
5 31 105 99

Magnastat soldering iron
24 V, 50 W with 3-wire Silicone cord and plug suitable for WTCP 50. Standard soldering tip PT-B7.

TCP S
5 32 105 99

Magnastat soldering iron
24 V, 50 W with fume extraction. Suitable for Weller Zero Smog System on page 154 - 160.

FE 50 M
5 32 152 99

Consists of:
- Lötkolben mit Absaugvorrichtung
- Trichter SF/FE
- Zylinderbürste D5
- Soldering iron with fume extraction
- Funnel SF / FE
- Brush D5

	Model	Description
	TCP 24 2-wire 5 10 001 99 24V/50W TCP 42 3-wire 5 10 055 99 42V/50W TCP 55 3-wire 5 10 058 99 55V/50W TCP 48 3-wire 5 10 054 99 28V/50W	Magnastat soldering iron without plug. With PT-B7 soldering tip.
	TCP 12 5 10 053 99	Magnastat soldering iron 12/14 V, 30/40W, with 3 m cord and battery clamps. With PT-D7 soldering tip.

Low voltage soldering iron with electronic control in the handle

	T 3001 5 24 001 99	Temtronic soldering pencil Continuously adjustable temperature for 200°C - 450°C. Power supply 24 V. The T 3001 can be used with a normal Weller safety transformer or directly with an available line. Potential free. •Soldering tips: ET-series, page 85.

Soldering tips for TCP irons (PT-Series)

Longlife soldering tips are made of pure copper and then iron plated. With proper care they are always wettable. Special tips and tips with one side wettable on request. Effective temperatures may vary ± 3%.

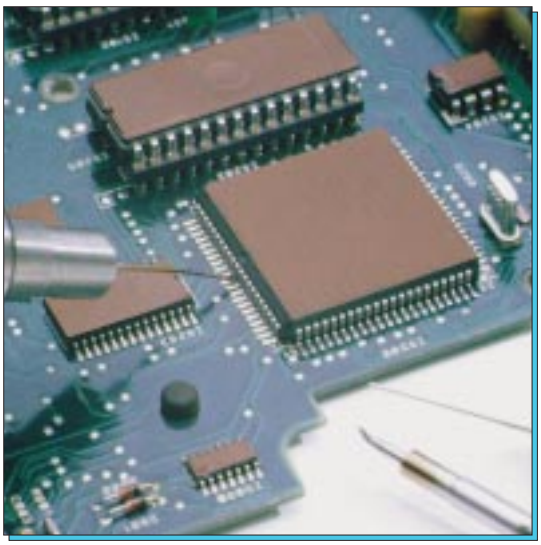
Model	Width mm	Order-No. with standard temperature range 260°C	310°C	370°C	425°C	480°C
Chisel tip	0.8	**PT-H 5** 5 41 115 99	**PT-H 6** 5 41 116 99	**PT-H 7** 5 41 117 99	**PT-H 8** 5 41 118 99	-
	1.6	**PT-A 5** 5 41 125 99	**PT-A 6** 5 41 126 99	**PT-A 7** 5 41 127 99	**PT-A 8** 5 41 128 99	-
	2.4	**PT-B 5** 5 41 135 99	**PT-B 6** 5 41 136 99	**PT-B 7** 5 41 137 99	**PT-B 8** 5 41 138 99	**PT-B 9** 5 41 139 99
	3.2	**PT-C 5** 5 41 145 99	**PT-C 6** 5 41 146 99	**PT-C 7** 5 41 147 99	**PT-C 8** 5 41 148 99	**PT-C 9** 5 41 149 99
Chisel tip	4.6	**PT-D 5** 5 41 155 99	**PT-D 6** 5 41 156 99	**PT-D 7** 5 41 157 99	**PT-D 8** 5 41 158 99	**PT-D 9** 5 41 159 99
	5.6	-	-	**PT-E 7** 5 41 167 99	**PT-E 8** 5 41 168 99	**PT-E 9** 5 41 169 99
Long tip	1.2	**PT-K 5** 5 41 175 99	**PT-K 6** 5 41 176 99	**PT-K 7** 5 41 177 99	**PT-K 8** 5 41 178 99	-
	2.0	**PT-L 5** 5 41 185 99	**PT-L 6** 5 41 186 99	**PT-L 7** 5 41 187 99	**PT-L 8** 5 41 188 99	-
	3.2	**PT-M 5** 5 41 195 99	**PT-M 6** 5 41 196 99	**PT-M 7** 5 41 197 99	**PT-M 8** 5 41 198 99	**PT-M 9** 5 41 199 99
Round tip	ř 2.4	-	-	**PT-BS 7** 5 41 207 99	**PT-BS 8** 5 41 208 99	**PT-BS 9** 5 41 209 99
	ř 3.2	-	-	**PT-CS 7** 5 41 217 99	**PT-CS 8** 5 41 218 99	**PT-CS 9** 5 41 219 99
	ř 5.0	-	-	**PT-DS 7** 5 41 227 99	**PT-DS 8** 5 41 228 99	**PT-DS 9** 5 41 229 99
Round tip, spade	1.2	**PT-F 5** 5 41 235 99	**PT-F 6** 5 41 236 99	**PT-F 7** 5 41 237 99	**PT-F 8** 5 41 238 99	**PT-F 9** 5 41 239 99
	1.6	**PT-AA 5** 5 41 245 99	**PT-AA 6** 5 41 246 99	**PT-AA 7** 5 41 247 99	**PT-AA 8** 5 41 248 99	**PT-AA 9** 5 41 249 99
	2.4	**PT-BB 5** 5 41 255 99	**PT-BB 6** 5 41 256 99	**PT-BB 7** 5 41 257 99	**PT-BB 8** 5 41 258 99	**PT-BB 9** 5 41 259 99
	3.2	-	-	**PT-CC 7** 5 41 267 99	**PT-CC 8** 5 41 268 99	**PT-CC 9** 5 41 269 99
	5.0	-	-	**PT-DD 7** 5 41 277 99	**PT-DD 8** 5 41 278 99	**PT-DD 9** 5 41 279 99
Long tip, conical	0.8	**PT-O 5** 5 41 285 99	**PT-O 6** 5 41 286 99	**PT-O 7** 5 41 287 99	**PT-O 8** 5 41 288 99	-
	0.4	-	-	**PT-S 7** 5 41 367 99	**PT-S 8** 5 41 368 99	-
Chisel tip	1.6	**PT-R 5** 5 41 295 99	**PT-R 6** 5 41 296 99	**PT-R 7** 5 41 297 99	**PT-R 8** 5 41 298 99	-
Chisel tip, slightly bent, one side wettable	3.2	**PT-MX 5** 5 41 305 99	**PT-MX 6** 5 41 306 99	**PT-MX 7** 5 41 307 99	**PT-MX 8** 5 41 308 99	-
				PT-P 7 5 41 347 99		
Tool for tip exchange		5 87 060 43				

	Model	Description
	DIL-16-WG 5 41 734 99 DIL-24-WG RM 7,62 5 41 738 99	Desoldering tip for Dual-in-Lines with16 pins Temperature: 310°C
	DIL-24 5 41 739 99 SK126-6-TCP UK SK137-6-TCP UK	Desoldering tip for Dual-in-Lines with 24 pins Temperature: 310°C Desoldering tip for 16 pins. For TCP. Desoldering tip for 14 pins. For TCP.
	DS-TO 5 41 745 99	Desoldering tip for round IC's in TO-5 housings. Temperature 310°C
	FP-7 5 41 732 99	Flat Pack soldering tip 9 mm width Temperature 370°C
	Tin-A-Print 5 13 020 99	For coating of circuit boards.
	DS-7 5 13 040 99 5 13 100 00 5 13 800 00 DS-TCP UK DS-N UK	Desoldering assembly TCP/24 V Temperature 370°C Rubber ball for DS-7 and DS-7-N Nozzle for DS-7 and DS-7-N, ř 1,5 mm Desoldering Assembly Nozzle for DS-TCP
	5 32 099 99	Extension cord for TCP S 4 m with coupling and plug.

UK = distributed by Cooper Tools GB only

Description	Model	
Holder for soldering irons with mounted soldering accessoires.	AK-1 5 15 010 99	
Holder for TCP	KH 20 5 15 020 99	
Holder with bottom and sponge for TCP	KH-2 5 15 002 99	
SMD Reflow Block For Magnastat soldering iron, For components up to 25 mm.	10,0 mm 12,5 mm 17,5 mm 25,0 mm UK	

UK = distributed by Cooper Tools GB only



Microtouch

The Weller Microtouch stations are distinguished by the fact that the required soldering temperature is reached at the needle-sized micro soldering tip extremely quickly and with great accuracy.

There are three operating modes: continous, stand-by and touch mode.

In continous mode the set temperature is constantly held.

In stand-by mode the tip temperature is reduced after about 50 sec. after last use, to prolong tip last time and to protect thermical damages.

In touch mode the heating is turned on when the metal ring on the handle is touched.

A wide variety of soldering tips provides universal use. Tip exchange is very quickly and efforts no tools.

Description

Technical Data:
- Digital read-out
- ESD safe
- Temperature range: 200°C-450°C
- Output: max. 120 W

Consists of:
- Power unit
- Soldering pencil
- Soldering tip MT 301
- Holder

Model

MT 1500
530 026 99

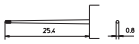
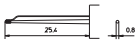
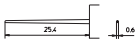
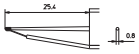
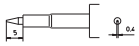
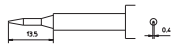
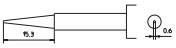
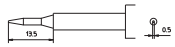
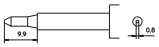
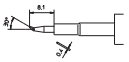
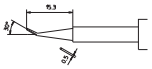
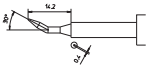
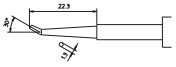
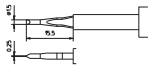
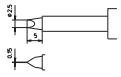
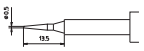
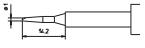
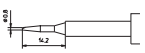
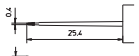
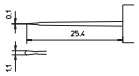
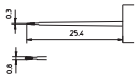
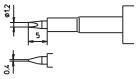
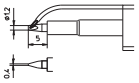
Technical Data:
- Digital read-out
- ESD safe
- Different temperature plugs on request
- Temperature range: depends on temperature plug
- Output: max. 120 W

Consists of:
- Power unit
- Soldering pencil
- Soldering tip MT 301
- Holder
- Temperature plugs 325°C, 375°C, 425°C

MT 1500L
530 036 99

Options for MT 1500 and MT 1500 L:
- Fume extraction attachment kit 5 30 126 99
- Holder KH 100 FE 5 15 036 99

Soldering tips for MT 1500 and MT 1500 L

Model		Description	Order-No.
Regular soldering tips			
Concial			
MT202		0,8 x 25,4 mm	5 30 322 99
MT203		0,8 x 25,4 mm, earthed	5 30 323 99
MT204		0,6 x 25,4 mm, unwettable	5 30 324 99
MT220		calibration tip 0,8 mm	5 30 325 99
MT302		0,4 x 5,0 mm	5 30 326 99
MT606		0,4 x 13,5 mm	5 30 327 99
MT609		0,6 x 15,3 mm	5 30 328 99
MT613		0,5 x 13,5 mm	5 30 329 99
MT615		0,8 x 9,9 mm	5 30 330 99
Conical bent			
MT303		0,4 x 8,1 mm	5 30 331 99
MT603		0,5 x 15,3 mm	5 30 332 99
MT605		0,4 x 14,2 mm	5 30 333 99
MT612		1,3 x 22,3 mm	5 30 334 99
Chisel tip			
MT611		1,5 x 15,5 mm	5 30 335 99
MT614		2,5 x 5,0 mm	5 30 336 99
Bevel tip			
MT607		0,5 x 14,7 mm	5 30 337 99
MT608		1,0 x 14,2 mm	5 30 338 99
MT616		0,8 x 14,2 mm	5 30 339 99
Chisel tip			
MT211		1,1 x 0,4 x 25,4 mm	5 30 340 99
MT212		1,1 x 0,1 x 25,4 mm, unwettable	5 30 341 99
MT221		0,9 x 0,4 x 25,4 mm	5 30 342 99
MT301		2,0 x 5,0 mm	5 30 343 99
MT320		calibration tip	5 30 344 99
MT601		1,8 x 9,8 mm	5 30 345 99
MT602		2,5 x 9,9 mm	5 30 346 99
MT604		1,5 x 9,9 mm	5 30 347 99
MT610		5,0 x 8,9 mm	5 30 348 99
MT620		calibration tip	5 30 349 99

Model	Description	Order-No.
SMD desoldering tips		
PLC		
MT1203F	17,8 mm	5 30 350 99
MT1208F	25,4 mm	5 30 351 99
MT1212	8,5 x 13,6 mm	5 30 352 99
MT1202	10,5 mm	5 30 353 99
MT1201	12,7 mm	5 30 354 99
MT1204	12,7 x 15,3 mm	5 30 355 99
SOIC		
MT619	5,0 x 10,4 mm	5 30 356 99
MT621	5,0 x 4,6 mm	5 30 357 99
MT1207	9,5 x 13,2 mm	5 30 358 99
MT1210	9,5 x 18,3 mm	5 30 359 99
MT1211	9,5 x 15,7 mm	5 30 360 99
SIP		
MT617	10,4 mm	5 30 361 99
MT1205	20,8 mm	5 30 362 99
MT1206	15,7 mm	5 30 363 99
SOJ		
MT1209	8,6 x 18,8 mm	5 30 364 99
CHIP		
MT618	3,4 x 1,8 mm	5 30 365 99
MT622	2,3 x 1,5 mm	5 30 366 99
MT624	1,7 x 2,5 mm	5 30 367 99
MT625	4,8 x 2,3 mm	5 30 368 99
MT626	7,7 x 2,7 mm	5 30 369 99
SOMC		
MT623	6,9 x 11,4 mm	5 30 370 99
QFP		
MT1213	17,3 x 23,2 mm	5 30 371 99

Repair-/Rework Stations

All Weller repair and rework stations feature automatic tool identification. All Weller soldering and desoldering tools up to 80 W are connectable as well as the desoldering tweezer WT 50 and the thermal stripping tool WST 20. All stations feature vacuum to suck the tin and most stations produce air-flow to solder and desolder SMD components.

The desoldering irons can be equipped with different nozzles and special desoldering heads for SMD components.

A micro finger switch control on the handle starts the vacuum pump to suck the tin into the glass collector. Components are lift-off with the integrated vacuum of the desoldering-head.

The hot air pencil (HAP) is used for soldering with solder paste or desoldering. Smaller components can be warmed up with the standard nozzle. Bigger components can be desoldered with a corresponding nozzle.

Description

Model

Weller Single Analog power unit with desoldering iron DS 80

WSA 1
5 33 006 99

Technical Data:

- instead of the enclosed desoldering iron all other Temtronic I SL-series
  soldering irons and accessoires are suitable.
- Vacuum is generated with built-in pump
- ESD safe
- Temperature range: 150°C-450°C
- Max. output: 155 W
- Max. low pressure: 0,7 bar

Consists of:

- Power unit 5 33 006 70
- Desoldering iron DS 80 5 13 090 99
- Support AK 20 5 15 030 99
- Antiblock paste 5 13 030 99
- Cleaning set 5 13 500 99
- Nozzle set DS 110 - DS 115 5 13 770 99

WSA 1V
533 036 99

Weller Single Analog power unit (without desoldering iron)

Technical Data:

- same as WSA 1 but operating with 3,5-6 bar compressed air

Consists of:

- Power unit
- compressed air tube 2 m, diameter 6,0 mm

WMD 1
533 236 99

Weller Multi Digital Power unit with hot air pencil (HAP 1)

Technical Data:

- All adjustable tools can be connected
- Airflow and vacuum are produced by an internal pump
- Digital read-out for set and read temperature
- ESD safe
- Temperature range: 50°C - 450°C for all Soldering and Desoldering irons
  50°C - 550°C for hot air pencil (HAP 1)
- Max. output: 175 W
- Max. low pressure: 0,7 bar

Consists of:

- Power unit 5 33 226 99
- Hot air pencil (HAP 1) 5 27 115 99
- Support KH 27 5 15 027 99
- Nutdriver Xcelite P8 MM 5 13 809 00

Model

Description

WMD 1
5 33 226 99

Weller Multi Digital Power unit

Technical Data:
• same as page 109, but without hot air pencil (HAP 1)

Consists of:
• Power unit

WMD 3
5 33 026 99

Weller Multi Digital Power unit
Technical Data:
• Provides 3 simultaneous functions (e.g. soldering, desoldering and hot air)
• Built-in pump provides air and vacuum
• Digital read-out
• Lock-out key for set function parameters
• Timer function for stand-by and hot air flow
• Temperature range: 50°C - 450° for all desoldering tools
50°C - 550°C for hot air pencil (HAP)
• Max. output: 300 W
• Max. low pressure: 0,7 bar
• Hot air: 1l/min - 10l/min continuosly adjustable
• ESD safe

Consists of:
• Power unit

DS 801
UK

Portable electronically controlled desoldering station
• Built-in carrying handle
• LED display shows heating pulses
• Temperature selection up to 400° C, continuously adjustable, electronic
technology
• Filter and connetion to DC rotary vane pump operated by fingertip control
• Continuously controlled desoldering temperature
• 24 V / 50 W heating element has a maximum effect on the tip
• See-through easily cleaned collecting tube
• Socket for potential balance
• Vacuum control
• 7 interchangeable „longlife“ desoldering tiplets
• Design complies with UK and European safety regulations
• Footswitch operation facility available if preferred
• 240/120 V selector switch
• Socket to accept TCP Z soldering irons

Catalogue-No.	V	Description
DS801	230/120	Soldering station

Accessoires

DS 109	UK	Foot switch
DS3105	UK	Desoldering iron 50 W

UK = distributed by Cooper Tools GB only

Description

Model

Weller Multi Analog SMD handling station
The WMA 3V features a complete repair working place. The hot air pencil can be used for both soldering and desoldering of SMD's. You will find a wide range of nozzels on page 120 to desolder even bigger components. The vacuum pipette is to pick and place delicate components. The WDP dispenser is to dispense solder cream, flux or glue controlled by a hand-held control. The dispenser can also be controlled by a timer (on the front panel). This allwos reproduceable pulses of solder cream.

WMA 3V
5 33 086 99

Technical Data:

- Inspite of the delivered hot air pencil all other Temtronic / SL-series tools are connectable
- Compressed air required; 3 -8 bar, clean, oil-free
- Temperature range: 50°C - 450°C for all soldering / desoldering tools
  50°C - 550°C for hot air pencil (HAP 1)
- ESD safe

Consists of:

• Power unit	
• Hot air pencil (HAP 1)	5 27 115 99
• Support KH 27	5 15 027 99
• W DP Dispenser	5 36 043 99
• Vacuum pipette	5 33 128 99
• Combined support for dispenser and pipette	5 15 052 99
• Foot switch	5 13 120 99
• Manual remote control	5 87 397 40
• Nutdriver Xcelite P8 MM	5 13 809 00
• Solder cream	
• Compressed air tube, 2 m long, Diameter 6,0 mm	

DS900
UK

Magnastat desoldering station
Available in two versions, with internal pump or for use with compressed air-lines.

Consists of:

- Power unit 120 V / 230 V
- Foot switch
- Desoldering iron + 7 nozzles + support
- Cleaning tool

Accessoires:

- DS 3102 desoldering iron
- BH-DS iron and nozzle holder

4024IL-A
UK

Desoldering station with electronic temperature control. Vacuum comes from built-in pump.

- Temperature range: 260° C - 540° C

Consists of:

- Station 230 V
- AS desoldering iron

Accessories:

- 5088 AS desoldering iron

UK = distributed by Cooper Tools GB only

Options for use with WMD 1,
WMD 3, WSA 1, WSA 1V, WMA 3V

Model	Description

MLR 21
5 33 111 99

This 25 W antistatic micro soldering pencil is suitable for virtually all miniature soldering work. Small lightweight handle.

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 25 W

Consists of:
- Micro soldering pencil MLR 21 5 29 101 99
- Support KH 15 5 15 019 99

Soldering tips: MT-series, see page 84.

MPR 30
5 33 110 99

25 W antistatic soldering pencil with adjustable head provides maximum, unobstructed view. Small hightweight handle.

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 25 W

Consists of:
- MPR 30 Peritronic soldering pencil 5 29 121 99
- Support KH 25 P 5 15 033 99

Soldering tips: MT-series, page 84.

Descriptions

Model

50 W „universal“ soldering pencil with a wide range of soldering tips.

LR 21
5 33 112 99

Technical Data:
- Temperature range: 50°C-450°C
- Output: 50 W

Consists of:
- LR 21 Soldering pencil 5 25 106 99
- Support KH 20 5 15 020 99

Soldering Tips: ET-series, page 85.

The Weller soldering pencil WSP 80 features a high precision and very fast heating up time. The ergonomic design and high performance of 80 W allows soldering from fine jobs to heavy duty.

WSP 80
5 33 125 99

Technical Data:
- Temperature range: 50°C-450°C
- Output: 80 W

Consists of:
- Soldering pencil WSP 80 5 29 161 99
- WPH 80 5 15 140 99

Soldering Tips: LT-series, page 89.

Accessoires:
- Barrel (exchange) 5 87 447 08

The LR 82, 80 W soldering iron for high mass soldering. Tip exchange via bayonet lock.

LR 82
5 33 113 99

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 80 W

Consists of:
- LR 82 soldering iron 5 26 152 99
- Support KH 27 5 15 027 99

Soldering tips: HT-series, page 85.
Desoldering heads: page 91

Model

HAP 1
5 33 114 99

Description

For both soldering and desoldering of SMD's. A wide range of nozzles features universal use.

Technical Data:
- Temperature range: 50°C - 550°C
- Output: 100 W

Consists of:
- Hot air pencil HAP 1 5 27 115 99
- Support KH 27 5 15 027 99
- Nozzle ř 1,2 mm 5 87 270 99
- Nutdriver Xcelite P8 MM 5 13 809 00

Nozzles: page 126

Desoldering Set DS 80
5 33 115 99

The desoldering iron DS 80 is ergonomically designed to reduce fatigue. The glass collector is easy to clean. Micro finger-switch controls quick start, fast action vacuum pump. A wide range of nozzles and CSF's features an universal of the use tool.

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 80 W

Consists of:
- Desoldering iron DS 80 5 13 090 99
- Support AK 20 5 15 030 99
- Antiblock paste 5 13 030 99
- Cleaning set 5 13 500 99
- Nozzles DS 112/DS 113 5 13 512 00 / 5 13 513 00
- Gas kit 5 13 603 99

Nozzles: page 120
CSF's: pages 118 - 119

Description

Model

In-line desoldering iron. Handle utilizes a tin collector. Vacuum activated via finger switch. Not for use with WSA 1.

DS V
5 33 118 99

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 35 W for 450°C

Consists of:
- Desoldering iron DS V 5 13 093 99
- Support AK V 5 15 038 99
- Nozzels DS 112/DS 113 5 13 512 00 / 5 13 513 00
- Anti-block paste 5 13 030 99
- Cleaning set 5 13 500 99

Nozzles: page 120

In-line desoldering iron for SMD's via CSF's (pages 118-119). The vacuum to pick the components is activated via finger switch. Not for use with WSA 1.

DS VT
5 33 119 99

Technical Data:
- Temperature range: 50°C - 450°C
- Output: 35 W for 450°C

Consists of:
- Desoldering iron DS VT 5 13 096 99
- Support AK V 5 15 038 99
- Nozzle 10,0 5 87 130 01

CSF's: pages 118 - 119

The WT 50 desoldering tweezer for desoldering of SMD components is suitable to all Weller Temtronic-/ SL-series stations. Dual heating elements with two independent temperature sensors provide the tips with constant temperature. The tips are fixed via clamp screws.

WT 50
5 33 120 99

Technical Data:
- Temperature range: 150°C-450°C
- Output: 2 x 25 W

Consists of:
- Desoldering pipette 5 13 170 99
- Support AK 50 5 15 041 99
- Hex srewdriver SW 1,3

Accessoires:
- Align device for soldering tips WT1-WT5 5 13 176 99 (for fast and exact alignment)

Soldering tips: Type WT, page 121

Model

WST 20
5 25 030 99

Description

The WST 20 temperature controlled thermal stripping tool is suitable to all Temtronic/SL-series stations. It strips off thermoplastic insulation materials by using precisely shaped stripping blades. The stripping length is infinitely adjustable up to 30 mm. Optimal temperature control via power unit.

Technical Data:

- Temperature range: 50°C - 450°C
- Output: 50 W

Consists of:

• Wire-Stripper	
• Suppot WST 20	5 15 032 98
• Antiblock paste	5 13 030 99
• Flat cable knife set 1,27mm	5 87 257 18
• Cutting knife set	5 87 257 23
• Knife set AWG 12, 16, 24	5 87 257 26
• Hex kex SW 2	5 87 250 25
• Brush	5 87 250 34
• Screwdriver	5 87 250 35
• Wrench SW 8	5 87 270 71

Accessoires:

• Knife set AWG 12, 14, 24, 26	5 87 257 29
• Knife set AWG 14, 18, 22, 26	5 87 257 32
• Universal knife set WST 20	5 87 257 22

Description

Model

The EXIN 5 features an electronically controlled reflow bath, suitable to all Temtronic-/SL-series stations and specially developed to desolder and solder dual-in-line integrated circuits. It enables all leads of the IC to be simultaneously desoldered by the reflow method.

EXIN 5
5 33 050 99

Consists of:
- EXIN 5
- Reflow bath RB 14/16 5 41 712 98
- Flux-Set 5 13 016 99
- Insertion tool DIP-IC 14/16 5 47 003 99
- Extraction tool PUL-IC 14/20 5 47 013 99

Accessoires:
- Reflow bathes page 93
- Insertion tool page 95
- Extraction tool page 94

WHP 50 (50W 24V)
WHP 80 (80W 24V) Heating plates.
Electronic temperature control
50°C - 200°C. Heating surface
85 x 55 mm to pre-heat IC boards.

WHP 50
5 27 026 99

WHP 80
5 27 028 99

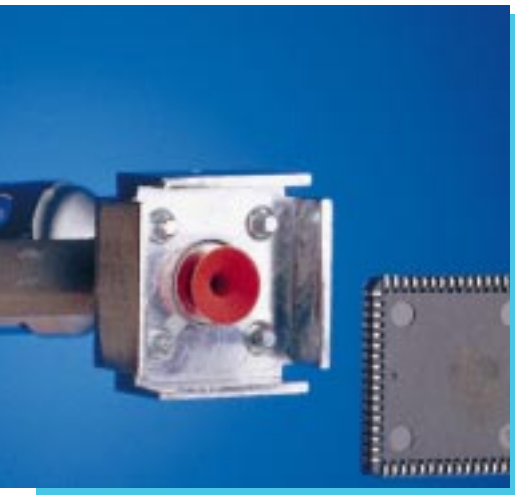
Desoldering iron
50 W / 24 V temperature controlled, ESD safe, with changeable heating elements, sensor and desoldering heads.
Tips see page 119.

DS3105B
UK

Desoldering iron
80 W / 24 V, ESD safe.

DS80A
UK

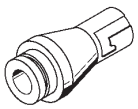
UK = distributed by Cooper Tools GB only.

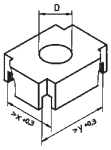
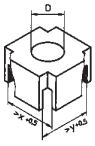


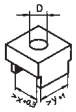
CSF

CSF's have been designed especially for desoldering SMD-components. They fit to desoldering iron DS 22 / DS 80 and DS VT.
You will need a CSF-head, the corresponding adapter (for DS 22 / DS 80 or DS VT) and a rubber insert for lifting off the component. Adapter and rubber insert do not belong to scope of delivery and have to be ordered separately. The adapter can be changed to several CSF-heads, so you need just one of them.
Heat-flow is over dicrect contact. Therefor it is important that the CSF-head „fits" very exactly. You achieve this by doingt the following steps: measure the size of the component (see also drawing below). This is important because there is no standard specification for components. It is possible to buy components with the same description, but with different sizes. Then add the tolerances mentioned in the drawing below to the meisured size. You ge the size of the CSF-head.
If you don't find the needed CSF-head in the list below, don't hesitate to ask for special ones.

CSF-Assortment

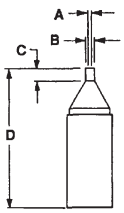


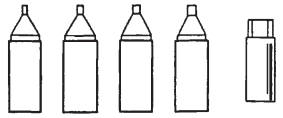
x (mm) x y (mm) pcs.	CSF-Head	D	Adapter for DS 22/80	Adapter for DS-VT	Rubber insert (Spare) 10
CSF-Q		QFP			
12,0 x 12,0	5 87 417 33	6	5 87 417 15	5 87 417 20	5 87 137 99
12,0 x 14,5	5 87 417 34	6	5 87 417 15	5 87 417 20	5 87 137 99
12,7 x 12,7	5 87 417 35	6	5 87 417 15	5 87 417 20	5 87 137 99
17,0 x 17,0	5 87 417 36	11	5 87 417 16	5 87 417 21	5 87 137 98
17,0 x 23,0	5 87 417 37	16	5 87 417 17	5 87 417 22	5 87 137 98
19,6 x 19,6	5 87 417 38	11	5 87 417 18	5 87 417 21	5 87 137 98
CSF-QI		PLCC			
12,7 x 12,7	5 87 417 39	6	5 87 417 15	5 87 417 20	5 87 137 99
17,8 x 17,8	5 87 417 40	11	5 87 417 16	5 87 417 21	5 87 137 98
20,4 x 20,4	5 87 417 41	16	5 87 417 17	5 87 417 22	5 87 137 98
25,4 x 25,4	5 87 417 42	16	5 87 417 17	5 87 417 22	5 87 137 98
30,4 x 30,4	5 87 417 43	16	5 87 417 17	5 87 417 22	5 87 137 98

x (mm) x y (mm) pcs.	CSF-Head	D	Adapter for DS 22/80	Adapter for DS-VT	Rubber insert (spare) 10
CSF-D	 SO-housing				
5,5 x 10,0	5 87 417 23	6	5 87 417 15	5 87 417 20	5 87 137 99
5,8 x 10,5	5 87 417 24	6	5 87 417 15	5 87 417 20	5 87 137 99
6,7 x 10,0	5 87 417 25	6	5 87 417 15	5 87 417 20	5 87 137 99
9,3 x 13,0	5 87 417 26	6	5 87 417 15	5 87 417 20	5 87 137 99
9,4 x 10,0	5 87 417 27	6	5 87 417 15	5 87 417 20	5 87 137 99
9,8 x 18,0	5 87 417 28	6	5 87 417 15	5 87 417 20	5 87 137 99
10,0 x 16,0	5 87 417 29	6	5 87 417 15	5 87 417 20	5 87 137 99
10,5 x 16,0	5 87 417 30	6	5 87 417 15	5 87 417 20	5 87 137 99
10,7 x 18,0	5 87 417 31	6	5 87 417 15	5 87 417 20	5 87 137 99
11,0 x 26,5	5 87 417 32	11	5 87 417 16	5 87 417 21	5 87 137 98
CSF-DI SOJ-Housing					
9,0 x 18,0	5 87 417 44	6	5 87 417 15	5 87 417 20	5 87 417 20

Spare tips for desoldering iron DS 105 (UK)

Model		Outside ř	Inside ř	Length	
DS110 UK			1,15mm / 0,060“	0,63mm / 0,025“	19mm / 0,75“
D111 UK			2,29mm / 0,090“	0,63mm / 0,025	19mm / 0,75“
DS112 UK			1,93mm / 0,076“	0,91mm / 0,036“	19mm / 0,75“
DS113 UK			2,39mm / 0,094“	1,14mm / 0,045“	19mm / 0,75“
DS114 UK			3,17mm / 0,125“	1,80mm / 0,071“	19mm / 0,75“
DS115 UK			1,52mm / 0,060“	0,63mm / 0,025“	24mm / 0,98“
D116 UK			2,49mm / 0,098“	1,14mm / 0,045“	25mm / 0,98“





Model	A mm / “	B mm / “	C mm / “	D mm / “
4005 UK	0,09 / 0,04	1,15 / 0,060	3,05 / 0,12	33,27 / 1,31
4006 UK	1,17 / 0,05	2,03 / 0,080	3,05 / 0,12	33,27 / 1,31
4007 UK	1,80 / 0,07	2,54 / 0,10	3,05 / 0,12	33,27 / 1,31
4008 UK	2,31 / 0,09	3,05 / 0,12	3,05 / 0,12	33,27 / 1,31
5038 UK	Important: To use Weller tiplets with 5088AS, DS58 and DS59 you will require adapter 5038			

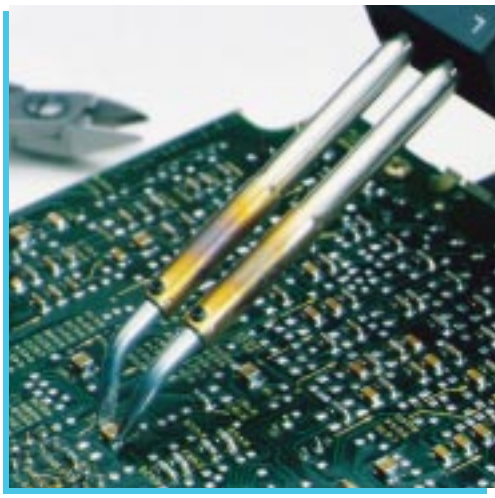
UK = distributed by Cooper Tools GB only

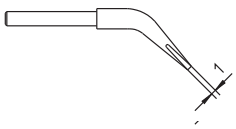
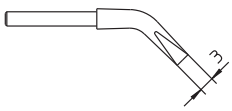
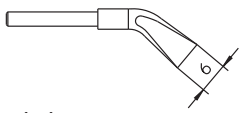
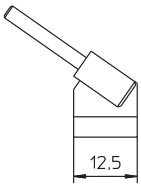
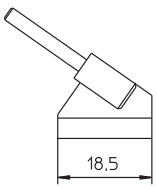
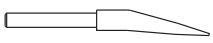
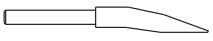
Nozzles for use with DS 80 and DS V

Weller nozzles are constructed to remove all kinds of solder at the solder joint. They are heated and melt the solder. After activating the vacuum the solder is extracted via the integrated tube into the tin collector. After changing the nozzle (at least once a week) the thread should be wettened with anti-block paste to avoid seizure of the nozzle.

Model		Control-No.	Outside-ř mm	Inside-ř mm	Length mm	Order-No.
DS 110		0	1,9	0,7	12,7	5 13 510 00
DS 111		1	2,5	0,7	12,7	5 13 511 00
DS 112		2	2,3	1,0	12,7	5 13 512 00
DS 113		3	2,5	1,2	12,7	5 13 513 00
DS 114		4	3,3	1,8	12,7	5 13 514 00
DS 115		5	1,9	0,7	19,05	5 13 515 00
DS 116		6	2,7	1,2	19,05	5 13 516 00
DS 117		7	2,9	1,5	12,7	5 13 550 00
DS 118		8	1,5	0,7	12,7	5 13 551 00
DS 113 HM		3	2,5	1,2	12,7	5 13 530 00
Needle-tiplet DS 11 for removing of solder bridges in connection with hot air pencil 00						5 13 527
Calibration tip						5 24 749 00

Inserts for WT 50



Model		x	y	Component	Best.-Nr.
WT 1		1,0	11	Chip 0405-1805, SOD80, MELF	5 44 141 99
WT 2		3,0	11	Chip 1808-1812, SOD87, SOT23, SOT143, SOD89	5 44 140 99
WT 3		6,0	11	SOT 192, SO4-SO8	5 44 142 99
WT 4		12,5	10	SO14, SO16, SOJ14, SOJ16	5 44 143 99
WT 5		18,5	12	SO20, SO20L, SOJ20	5 44 144 99
WT 11		1,0		vertical use	5 44 150 99
WT 12		3,0		vertical use	5 44 151 99
WT 1S		0,5			5 44 145 99

Hot Air Devices

Weller hot air devices are suitable for soldering and desoldering the smallest components up to large SMD components.

Soldering with hot air does not take place with conventional soldering tin but using soldering paste. The soldering paste is applied to the soldered joint by suitable dispensers. Then a non-contact soldering process is done by hot air.

Some special features should also be observed when desoldering with hot air. Smaller components are heated up evenly with the hot air pencil and then lifted up. A diverse range of nozzles is available for desoldering larger components. Here, initially in standby mode, the component body is preheated gently with contact heat via a plate installed in the nozzle. Then the full heat output is switched on with a higher air flow for just a few seconds. The air-flow is conducted exactly to the leads of the components due to the design of the nozzle.

The component can then either be lifted up with the built-in vacuum (WHA 700/WHA 2000) or, for example, with a vacuum pipette. The vacuum is adjusted so that the component can be liefted, but there is no danger at all of any pads detaching from the printed-circuit board due to excessive tensile force. Thus desoldering with hot air proves to be gentle to both the component and to the printed-circuit board, preventing either thermal or mechanical damage.

Description

- Built-in turbine, so independent of compressed air
- Vacuum pick up wit hot air pencil
- stand-by function for pre-heating of nozzles and components
- Socket for external sensor
- Temperature range: 50°C - 550°C
- Air volume: 10l/min - 50l/min
- Output: 820 W
- Max. vacuum: 5l/min
- ESD safe

Consists of:

- Power unit
- Hot air pencil HAP 2
  230 V/700 W 5 33 126 99
- Support AK 10 5 15 045 99
- Foot switch 2-stufig 5 36 060 99
- Nozzle NQ 30 5 87 368 11
- Nozzle changer 5 15 049 99
- Hex screwdriver SW 2,5

Nozzles: pages 127-129

Model

WHA 2000
5 33 056 99

Same as WHA 2000, but operated with compressed air (4-6 bar, clean and oil-free)

WHA 700
5 33 146 99

Consists of:

- Power unit
- Hot air pencil HAP 3
  230 V/700 W 5 33 136 99
- Support AK10 5 15 045 99
- Foot switch 2-stufig 5 36 060 99
- Nozzle NQ 30 5 87 368 11
- Nozzle changer 5 15 049 99
- Hex screwdriver SW 2,5
- Compressed air tube 2 m, outside-ř 6,0 mm,

Nozzles: pages 127 - 129

Accessories:

- Remote hand control 5 87 367 80
- External sensor (required for WHA 700 587 369 17
- Nozzle support for 6 nozzles. 5 15 048 99
  To change even hot nozzles simple and without danger.

Modell

Description

WHA 300
5 33 216 99

Technical Data:
- Built-in turbine, independent of compressed air
- stand-by function
- No vacuum function
- Temperature range: 50°C - 550°C
- Air volume: 10l/min - 50l/min
- Output: 800 W

Consists of:
- Power unit with hot iron and support
- Hex screwdriver SW 2,5

Accessoires:
- Foot switch 5 13 120 99
- Nozzle support for 6 nozzles 5 15 048 99
- Nozzle changer 5 15 049 99

Nozzles: pages 127 - 129

AG 75
5 27 036 99

Technical Data:
- Compressed air supply required (4-bar,, clean, oil-free)
- Temperature range: 50°C - 550°C
- Air volume: 6l / min
- Output: 100 W

Consists of:
- Power unit
- Hot air pencil HAP 1 75 W
  with finger switch 5 27 115 99
- Support KH 27 5 15 027 99
- Nutdriver Xcelite P8 MM 5 13 809 00
- Compressed air tube, 2 m, outside-ř 6,0 mm

Nozzles: pages 127 - 129

Hot air nozzles

The Weller D/Q nozzles (for HAP 1) and ND/NQ nozzles (for WHA) have a built-in plate for preheating the component bodies by means of contact heat. Approx. 1 mm wide slots are located around the plate to let out the hot air.

Please proceed as follows to select the nozzle suitable for your component. The nozzle dimensions given in the catalogue correspond to its inside dimensions. The air outlet slots have a width of approx. 1 mm; the dimensions of the plate are calculated from the nozzle dimensions minus the air outlet slots. Ensure that the component body is not larger than the plate, otherwise the air outlet will be obstructed. the hot air reaches the component leads directly through the air outlet slots.

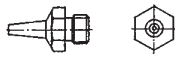
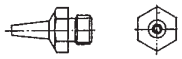
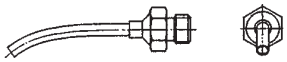
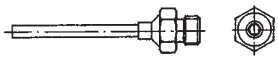
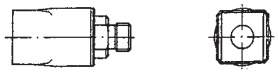
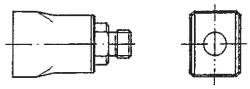
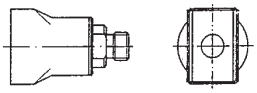
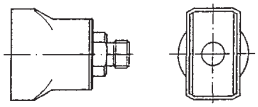
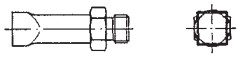
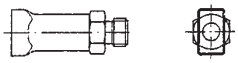
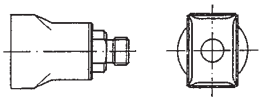
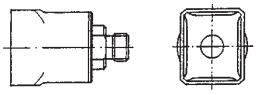
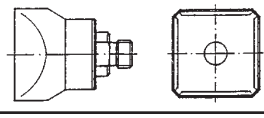
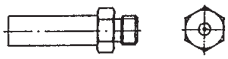
The difference between type D (dual) and Q (quattro) nozzles is important. Type D hot air nozzles have air outlet slots on two opposite sides. The first dimension (A) given in the catalogue refers to the length of the heated side, dimension B is that of the unheated side. Type Q nozzles are designed for components with connections on all four sides, e.g. for PLCC's and QFP's.

As heat transfer for the reflow process does not take place through contact heat, the hot air nozzle does not have to „fit" exactly. A tolerance of a few tenths of a millimetre is quite normal when selecting a nozzle and doese not impair the quality of the desoldering results.

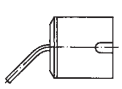
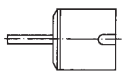
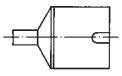
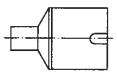
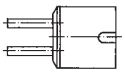
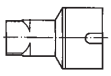
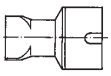
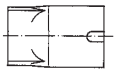
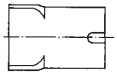
Hot air nozzles for HAP 1

Model	Type	Dimensions A x B	Order-No.
FO2	Flat nozzle	8,0 x 1,5	5 87 277 74
FO4	Flat nozzle	10,5 x 1,5	5 87 277 73
FO6	Flat nozzle	12,5 x 1,5	5 87 277 72
FD2	Dual nozzle	ř 1,5 x 8,0	5 87 277 76
FD4	Dual nozzle	ř 1,5 x 10,0	5 87 277 75

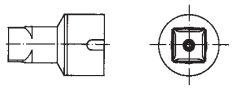
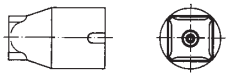
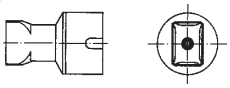
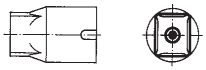
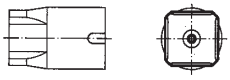
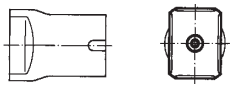
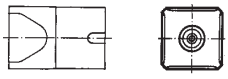
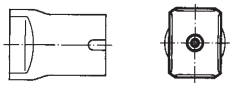
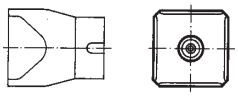
Hot air nozzles for HAP 1

Model		Type	Dimensions	Order-No.
R02		Round nozzle	ř 0,8	5 87 271 16
R04		Round nozzle	ř 1,2	5 87 270 59
R06		Round nozzle	ř 3,0	5 87 270 60
R08		Round nozzle, bent	ř 2,5	5 87 277 86
R10		Round nozzle	ř 2,5	5 87 277 87
2-sides heated (Type D)				
D04		Nozzle	10,5 x 10,5	5 87 277 79
D06		Nozzle	10,0 x 13,0	5 87 277 82
D08		Nozzle	15,0 x 10,0	5 87 277 81
D10		Nozzle	10,0 x 18,0	5 87 277 84
all 4 sides heated (Type Q)				
Q02		Nozzle	6,0 x 6,5	5 87 277 77
Q04		Nozzle	6,0 x 9,0	5 87 277 78
Q06		Nozzle	15,0 x 10,0	5 87 277 80
Q08		Nozzle	12,5 x 15,0	5 87 277 83
Q10		Nozzle	18,0 x 18,0	5 87 277 85
R01		Measuring nozzle		5 87 278 08

Hot air nozzles with vacuum inserts for WHA 300, WHA 700 and WHA 2000

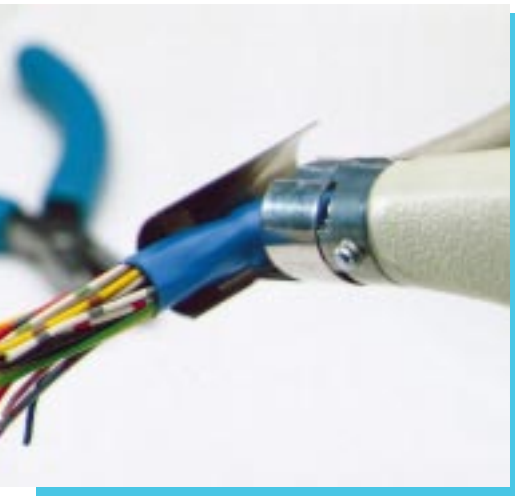
Model		Dimensions A x B	Component		Order-No.
Round nozzles					
NR 02	 	ř 1,7 x 4,5° bent (without vacuum)			5 87 368 82
NR 04	 	ř 2,5 (without vacuum)			5 87 368 81
NR 05	 	ř 4 mm (without vacuum)	SO 8	(50 MIL/1,27 mm)	5 87 368 67
NR 10	 	ř 7 mm			5 87 368 70
DR 05	 	ř 2,5 x 9,5 mm (without vacuum)			5 887 368 83
2-sides heated (Type ND)					
ND SK535/B		10,5 x 20,0 mm			5 87 369 33
ND 05	 	10,8 x 8,0 mm	SO 14 SO 16	(50 MIL/1,27 mm) (50 MIL/1,27 mm)	5 87 368 43
ND 10	 	14,0 x 10,0 mm	SOL 14 SOL 16 SOL 16-J SOL 20 SOL-J 20	(50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm)	5 87 368 42
ND 15	 	19,0 x 12,0 mm	SOL 24 SOL-J 24 SOL 28 SOL-J 28	(50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm)	5 87 368 41
ND 20	 	21,5 x 14,8 mm	SOL 32	(50 MIL/1,27 mm)	5 87 368 40

Hot air nozzles with vacuum inserts for WHA 300, WHA 700 and WHA 2000

Model	Dimensions	Component		Order-No.
all 4 sides heated (Type NQ)				
NQ 05 	10,7 x 10,7 mm	PLCC 20 LCCC14 LCCC 24 C-QFP 24	(50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm)	5 87 368 39
NQ 10 	14,8 x 14,8 mm	PLCC 28 QFP 44 LCCC 28 QFP 48	(50 MIL/1,27 mm) (31 MIL/0,80 mm) (50 MIL/1,27 mm) (30 MIL/0,75 mm)	5 87 368 18
NQ 15 	14,5 x 10,0 mm			5 87 368 38
NQ 20 	15,5 x 13,0 mm			5 87 368 37
NQ 25 	18,0 x 18,0 mm	PLCC 44 CLCC 44 PQFP 44 PQFP 60 QFP 64 QFP 60	(50 MIL/1,27 mm) (50 MIL/1,27 mm) (31 MIL/0,80 mm) (31 MIL/0,80 mm) (31 MIL/0,80 mm) (25 MIL/0,65 mm)	5 87 368 14
NQ 30 	17,5 x 23,5 mm	QFP 56 QFP 60 QFP 64 QFP 80 QFP 88 QFP 100	(39 MIL/1,0 mm) (39 MIL/1,0 mm) (39 MIL/1,0 mm) (31 MIL/0,8 mm) (25 MIL/0,65 mm)	5 87 368 11
NQ 35 	20,5 x 20,5 mm	PLCC 52 BQFP 84	(50 MIL/1,27 mm) (25 MIL/0,65 mm)	5 87 368 07
SK 460/A 	24,0 x 12,0 mm	Q-CPM-9401		5 87 368 80
NQ 40 	26,0 x 26,0 mm	C-QFP 64 PLCC 68 CLCC 68 LCCC 80 BQFP 100	(50 MIL/1,27 mm) (50 MIL/1,27 mm) (50 MIL/1,27 mm) (31 MIL/0,80 mm) (25 MIL/0,65 mm)	5 87 368 04

Hot air nozzles with vacuum inserts for WHA 300, WHA 700 and WHA 2000

Model	Dimensions	Component		Order-No.
NQ 45	31,3 x 31,3 mm	CLCC 84	(50 MIL/1,27 mm)	5 87 368 33
		PLCC 84	(50 MIL/1,27 mm)	
		QFP 100	(31 MIL/0,80 mm)	
		QFP 120	(31 MIL/0,80 mm)	
		QFP 128	(31 MIL/0,80 mm)	
		QFP 132	(25 MIL/0,65 mm)	
		QFP 136	(25 MIL/0,65 mm)	
		QFP 144	(25 MIL/0,65 mm)	
		QFP 160	(25 MIL/0,65 mm)	
		QFP 120	(14 MIL/0,35 mm)	
		C-QFP 80	(50 MIL/1,27 mm)	
		BQFP 164	(25 MIL/0,65 mm)	
		BQFP 132	(25 MIL/0,65 mm)	
		MQUAD 208L	(19,7 MIL/0,50 mm)	
		MQUAD 184L	(19,7 MIL/0,65 mm)	
		MQUAD 144L	(19,7 MIL/0,50 mm)	
		QFP 208	(19,7 MIL/0,50 mm)	
NQ 50	36,0 x 36,0 mm	QFP 240	(19,7 MIL/0,50 mm)	5 87 368 91
NQ 55	43,0 x 43,0 mm	CQFP 304	(19,7 MIL/0,50 mm)	5 87 368 90
NA 20	Measuring nozzles			5 87 368 75



6966C
14 06 966 01

Hot Air Heat Gun

The hot air heat gun can be used for heat shrink applications or drying and to detect faulty components on circuit-boards. Cooling is also possible because the air flow is independent of the heater.

Technical Data:

- Temperature range: ca. 400°C - 430°C
- Weight: 840 g

Consists of:

- Hot air heat gun
- 4 nozzles
- support

Accessoires:

Model	Description	Order-No.
	Nozzle	14 06 956 00
	Nozzle	14 06 957 00
	Nozzle	14 06 958 00
	Nozzle	14 06 964 00
	Support	14 06 965 00

6966E/6966C
UK

Hot air heat gun

Complete with 3 reflectors and one nozzle. For both 110 V and 230 V available.

Catalogue-No.	V	Temp. °C/°F	Description
6966E	230	425/800	Hot air heat gun
6966C	110	425/800	Hot air heat gun

Accessoires

Catalogue-No.	Description	Passend zu:
6956 UK	0.5“ reflector	6966E, 6966C
6957 UK	1.5“ reflector	6966E, 6966C
6958 UK	Shrinking nozzle	6966E, 6966C
6964 UK	0.2“ reflector	6966E, 6966C

UK = distributed by Cooper Tools GB only

BGA

Due to the rapid development in SMD housing technology the user is confronted with increasingly complex soldering processes. Although handling small filigree connection legs can be avoided through the use of BGA technology and usually a coarser connection grid is used, a BGA workplace is extremely expensive.

The reproducibility of the repair process as well as a coordinated equipment programme are the basic prerequisites for successful processing of BGA components.

With the Weller WOB 2000 repair system, a complete repair operation can be carried out in just one installation, i.e. desoldering, application of solder deposits, component positioning and soldering. This applies to both the BGA and Finepitch components.

The thermal energy required for soldering is conducted to the component from above via special hot air jets. The air flow is temperature / quantity controlled. The bottom side of the printed-circuit board is heated up by a temperature-controlled IR heating plate, thus ensuring complete process reliability. The process parameters can be stored and the solder profile can therefore be repeated accurately every time.

Model

WQB 2000
5 33 406 99

Description

The WQB 2000 is a full repair work-station for BGA and fine-pitch SMT components. It allows soldering and desoldering without the risk of a thermal or mechanical destruction - either of the component or the board. The hot air is controlled by a programmable timer. If required, the board is at the same time pre-heated from below by an infra-red heating plate. The partiell template printing and the positioning of the component takes place at the same time with the combined print and positioning system (accessory). The timer stores the following six paramenters: nozzle temperature, air volume, heating-plate temperature, pre-heat time 1, pre-heat time 2 and reflow time. Special patented nozzles with an integrated sensor in the nozzle ensures a uniform temperature of the nozzle.

Features:

- Continously adjustable electronic controlled temperature resultation of hot air to remove and reflow components without damage
- Patented templates to place QFP's, PLCC's or BGA's (an assortment for the most common components is included in the scope of delivery)
- Built-in vacuum picking device allows easy placement and removal the components
- Adaptable for use as Pick-and-Place device (WQB 1000) by using a precision vacuum head in place of the hot gas assembly
- Time control with micro processor, timer stores 10 programs
- Bottom-side preheater delivers infra red induced heat to the PCB
- Compressed air connection, 4-6 bar, oil-free
- Adjustable pins allow easy positioning of the board. These also facilitate the removal of the board for repasting operation.
- Kapton® adhesive tape
- Detailed operating instruction

Description

Scope of delivery WQB 2000

Hot air station with vacuum

Technical Data:

- Dimensions W x H x D: 145 x 270 x 105 mm
- Mains voltage: 230V, 50Hz (120 V)
- Power absorption: 720 W (750 W)
- Fuse: T4, 0A (48-87 psi)
- Temperature range: 50°C-550°C (continously adjustable)
  Tolerance ± 30°C
- Air flow: 10-50 l/min (continously adjustable)
- Compressed air converter:
  max. low pressure 0,6 bar
  suction volume 20 l/min
- Hot air is static-free.
- Potential equalization of the tip via plus on the backside of the station.
- Compressed air source (4 - 6 bar) or inert gas (nitrogen) is required.
  Variation of pressure is compensated automatically.

Model

WQB A
5 33 476 99

Supply for pre-heating plate

Technical Data:

- Dimensions W x H x D: 145 x 270 x 105 mm
- Mains voltage: 230V, 50Hz (120 V)
- Heating voltage: 27V AC
- Output: 300 W
- Fuse: 1,5A (3,0A)
- Temperature range: 50°C-450°C (continously adjustable)
  control accuracy ± 2%
- Digital display for set and read temperature. Selection between set and read
  via switch button.
- External sensor can be connected at the front panel.
- Potential equalization of the tip via plug on the backside of the station.

WQB P
5 33 456 99

Digital time control module

Technical Data:

- Controls the power station during the solder/desolder process.
  Time data resulting from temperature profiling of a specific component
  for the reflow process can be stored.
- Dimensions W x H x D: 112 x 200 x 65 mm
- Supply voltage: 12 V
- Fuse: T 4,0 A and T 800mA
- Power positions: 10 preset programs
  10 programmable for personalising
  3 serial time-sequences

WQB C
5 33 496 99

Model	Description
BGA-Hot air nozzle	Scope of delivery WQB 2000 The closed nozzle casing ensures optimum heat is transferred to the component by guiding the hot air through air outlet sockets to the precise area to be reflowed. An integrated sensor ensures the nozzle achieves a homogneous temperature inside. Surrounded areas will not be heatened. Exact fitting is not necassary therefore one nozzle is suitable for one or more components.
Template System	Templates are used for component positioning and solder paste screening. Their size was optimized to allow work on close boards. The alignment template is for prallax free positioning of the component. The printing template is then positioned within the alignment template. Solder paste is then manually screened with a spatula directly onto the PCB pads.

Beschreibung

Scope of delivery WQB 2000

The large scaled base table enables the work with different sizes of circuit boards. Special sizes can be adjusted by a special circuit board holder. The infra-red inducted pre-heating plate is incorporated into the base plate.

Technical Data:

- Dimensions W x H x D: 400 x 550 x 460 mm
- Max. circuit board size: 320 x 400 mm
- Compressed air connection: 4-6bar (48-87 psi)
- Travel-Z adjustment: axial ca. 157 mm, vertical ca. 100 mm
- Output of the pre-heating plate: 280 W
- Lift of the vacuum-lift: 10 mm
- Weight: ca. 20 kg

Technische Änderungen vorbehalten!

Assambled at the base table:

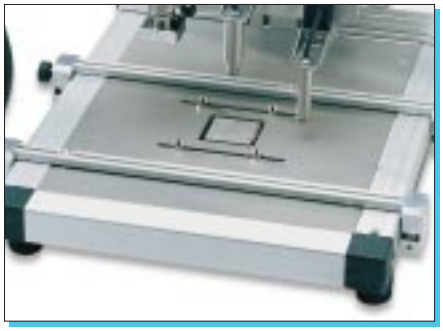
Tool Selector
Three vertical slides adjust the soldering tool on the reflow zone. The active tool is brought into working position by axial slide movement.

The BGA hot air nozzles are fixed precisely, quickly and torsion free with the help of the rapid change tool holder to the soldering head. The pneumatic vacuum lift , operated by the time control, makes the desoldering process easy. After termination of the reflow time, the component is lifted automatically from the PCB against the nozzle housing.

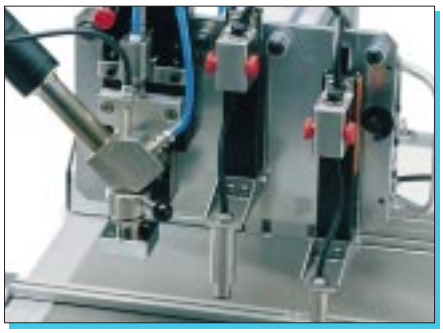
Pneumatic Unit
With the aid of a pressure reducer the supply can be set within the range of 0,5 - 3,5 bar. The pressure is used for the drive of the vacuum-lift and additional cooling.

Model

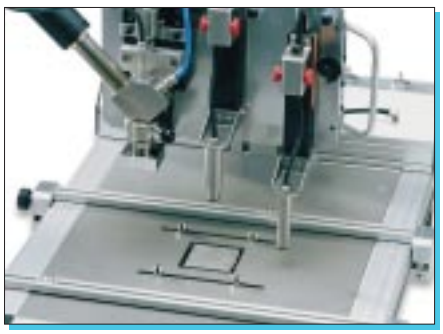
WQB T Base Table
5 33 436 99



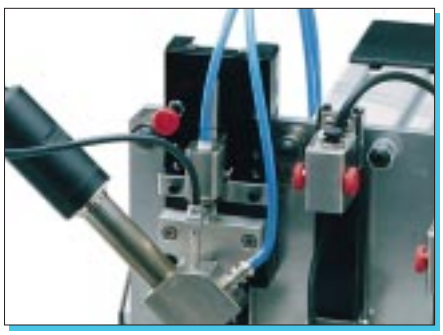
Tool Selector



Soldering Head
WQB V
5 33 466 99



Pneumatic Unit



Model

WQB 1000
5 33 426 99

Description

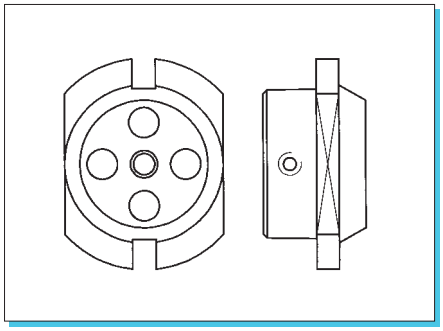
The WQB 1000 is a system that places PLCC's, QFP's or BGA's components efficiently, quickly and precisly. Positioning templates for exact placement avoid expansive optical placement tools.
The acchieved results are more accurate and more reproducible than hand placement. Ideally suited for the production of prototypes or smaller series allow the use of a wide range of board and component sizes.

Description

Model

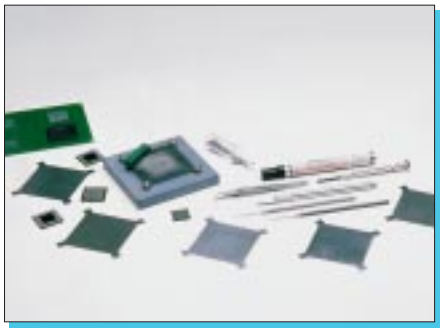
With the QFP nozzle adaptor the WHA nozzle (s. pages 125 - 129) can be inserted into the soldering head.

QFP-Nozzle adaptor

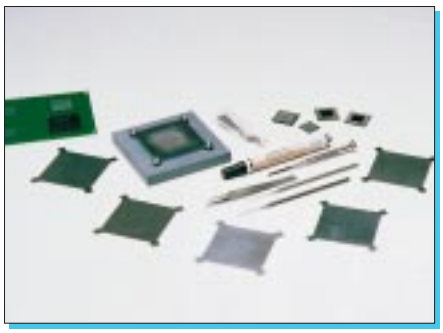


These repair sets provide an appropriate and inexpensive possibility to replace solder balls on BGA's (Ball Grid Arrays). The WPRB 1000 set was conceived for plastic BGA's, the WCRB 1000 for ceramic components. During the repair, first of all any still existing solder is removed from the component, then the precision template is aligned on the component and fixed. Then either the required amount of solder paste is applied or the pre-shaped solder balls are placed in the depressions after the use of flux. With hot air (e.g. WHA 700 / WHA 2000 by Weller) the solder is melted on, until precise solder balls have formed in the template depressions. The template may then be lifted off, and the component can be used again.

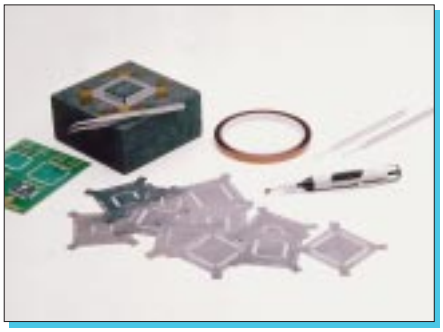
WPRB 1000
5 33 520 99
for plastic BGA's

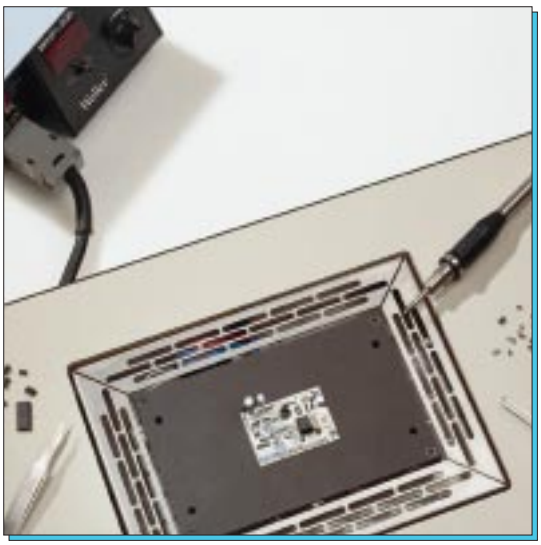


WCRB 1000
5 33 521 99
for ceramic BGA's



Consists of:
- Precision templates for the most common BGA pitches
- Template clamping fixture
- Probes, precision tweezer, screwdriver and flux pen
- Solder balls
- Spatula and wiper for solder paste (only for WPRB 1000)

	Model	Description
	WLSK 1000 5 33 522 99	Lead Straightening Tool An appropriate and easy-to-use repair set to realign bent and deformed Gull Wing connections on Quad Flat Packs. When using this system, the user can restore components that can normally no longer be used, back into a usable condition. Leads are straightened by hand by means of the granite working plate, hooks, a pair of tweezers and the patented precision alignment templates. Components are placed on the corresponding template. Probe or tweezer are used to place the bent leads into the correct depression of the template. The working plate serves as a solid working surface and ensures planarity after the leads have been aligned correctly. Consists of: • Patented precision templates • Working plate made of granite in lab quality • Two lead straightening probes • Precision tweezer • Vacuum pick up tool • Kapton® adhesive tape
	WQB 100	Demo Boards The demo boards are for use with the components BGA 256 (pitch 1,27 mm) and QFP 208. The boards are transparent and adhesive. An imprint shows the pads of the board, to train and control the component positioning. The components stick to the board. Conformity of component pins and marking can be checked via the transparent board. Afterwards components are reusable.
	WQB 101	The WQB 101 is to solder and desolder dummie components to train the procession with the process parameters without endanger expansive original components.



Heating Plates

For soldering and desoldering of power components, high frequency packages and multilayer pcb's a pre-heating device is needed. To ensure correct soints without damages the pcb needs to be heated up to the correct working temperature.

Description

Model

Pre-heating plate

WHP 50
5 27 026 99

Technical Data:
- Galvanic divison of the heating plate from the line
- Heating surface: 80 x 50 mm
- Temperature range: 50°C - 200°C
- Output: 50 W
- For use with: WSD 50, WMD 1, WMD 3
- ESD safe

Pre-heating plate

WHP 80
5 27 028 99

Technical Data:
- Galvanic divison of the heating plate from the line
- Heating surface: 80 x 50 mm
- Temperature range: 50°C - 200°C
- Outlet: 80 W
- For use with: WSD 80, WMD 1, WMD 3
- ESD safe

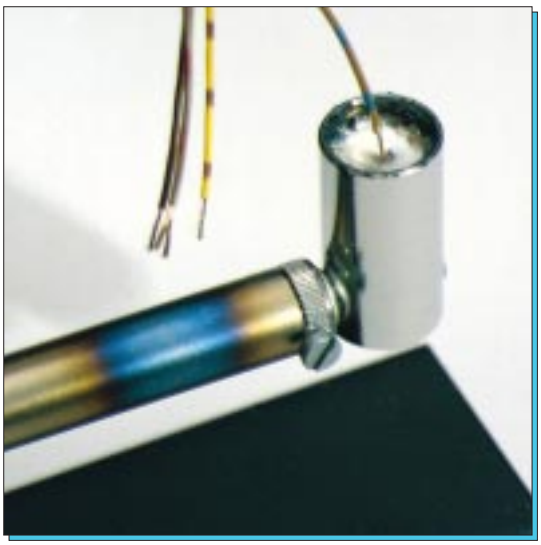
Temperature controlled heating plate

WHP 300
5 33 066 99

Technical Data:
- Digital display for set and read temperature
- Galvanic divison of the heating plate from the line
- External sensor connectable
- Option: the production of special soldering bathes to be fixed on the heating plate
- Heating surface: Europe-card-size (100 x 160 mm)
- Temperature range: 50°C - 300°C
- Outlet: 300 W
- ESD safe

Consists:
- Power unit
- Heating plate

Accessories:
- Hand support antistatic (LxWxH): 495 x 340 x 45 mm 5 33 161 99
- External sensor 5 87 017 23
- Power unit 5 33 066 72

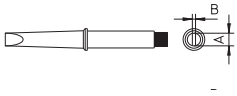
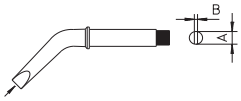
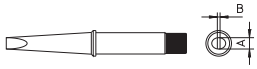
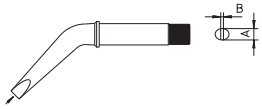
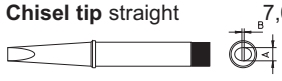
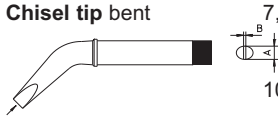


Line voltage soldering irons

Description*	Model	
Magnastat soldering iron 60 W, 230 V, with automatic temperature Consists of: • Soldering iron W61 230 V/60 W • Soldering iron CT5-B7 (370°C) • Support	W 61 5 61 036 99	
Magnastat soldering iron 100 W, 230 V, with automatic temperature Consists of: • Soldering iron W 101 230 V/100 W • Soldering tip CT6-E7 (370°C) • Support	W 101 5 61 046 99	
Magnastat soldering iron 200 W, 230 V, with automatic temperature Consists of: • Soldering iron W 201 230 V/200 W • Soldering tip CT2-F7 (370°C) • Support	W 201 5 61 056 99	
Miniature temperature controlled solder bath (330°C) with horizontal stand, 100 W, 230 V, inside-ř: 17,4 mm, depth 22 mm Consists of: • Solder bath 100 W with • insert 330°C • Support for solder bath Accessories: • Solder bath insert 285°C temperature5 11 706 99 • Solder bath insert 330°C temperature5 11 707 99 • Solder bath insert 380°C temperature5 11 708 99	W 101 H 5 61 093 99	

*** Detailed information about Magnastat see page 98.**

Soldering tips for W 61, W 101, W 201 (CT-series)

Description and Model	Width A	Width B	Order-No. 260°C	Order-No. 310°C	Order-No. 370°C	Order-No. 425°C
For 60 W soldering iron (W61)						
Chisel tip straight 	1,6 mm		**CT5A5** 5 42 005 99	**CT5A6** 5 42 006 99	**CT5A7** 5 42 007 99	**CT5A8** 5 42 008 99
	2,4 mm		**CT5B5** 5 42 015 99	**CT5B6** 5 42 016 99	**CT5B7** 5 42 017 99	**CT5B8** 5 42 018 99
	3,2 mm		**CT5C5** 5 42 025 99	**CT5C6** 5 42 026 99	**CT5C7** 5 42 027 99	**CT5C8** 5 42 028 99
	5,0 mm		**CT5D5** 5 42 035 99	**CT5D6** 5 42 036 99	**CT5D7** 5 42 037 99	**CT5D8** 5 42 038 99
Chisel tip bent (45°) 	1,6 mm		**CT5AX5** 5 42 105 99	**CT5AX6** 5 42 106 99	**CT5AX7** 5 42 107 99	**CT5AX8** 5 42 108 99
	2,4 mm		**CT5BX5** 5 42 115 99	**CT5BX6** 5 42 116 99	**CT5BX7** 5 42 117 99	**CT5BX8** 5 42 118 99
	3,2 mm		**CT5CX5** 5 42 125 99	**CT5CX6** 5 42 126 99	**CT5CX7** 5 42 127 99	**CT5CX8** 5 42 128 99
	5,0 mm		**CT5DX5** 5 42 135 99	**CT5DX6** 5 42 136 99	**CT5DX7** 5 42 137 99	**CT5DX8** 5 42 138 99
For 100 W soldering iron (W101)						
Chisel tip straight 	3,2 mm		- -	**CT6C6** 5 42 206 99	**CT6C7** 5 42 207 99	**CT6C8** 5 42 208 99
	5,0 mm		- -	**CT6D6** 5 42 216 99	**CT6D7** 5 42 217 99	**CT6D8** 5 42 218 99
	7,0 mm		- -	**CT6E6** 5 42 226 99	**CT6E7** 5 42 227 99	**CT6E8** 5 42 228 99
Chisel tip bent (45°) 	3,2 mm		- -	**CT6CX6** 5 42 306 99	**CT6CX7** 5 42 307 99	**CT6CX8** 5 42 308 99
	5,0 mm		- -	**CT6DX6** 5 42 316 99	**CT6DX7** 5 42 317 99	**CT6DX8** 5 42 318 99
	7,0 mm		- -	**CT6EX6** 5 42 326 99	**CT6EX7** 5 42 327 99	**CT6EX8** 5 42 328 99
For 200 W soldering iron (W201)						
Chisel tip straight 	7,0 mm		- -	**CT2E6** 5 42 406 99	**CT2E7** 5 42 407 99	**CT2E8** 5 42 408 99
	10,0 mm		- -	**CT2F6** 5 42 416 99	**CT2F7** 5 42 417 99	**CT2F8** 5 42 418 99
	11,0 mm		- -	**CT2G6** 5 42 426 99	**CT2G7** 5 42 427 99	**CT2G8** 5 42 428 99
Chisel tip bent 	7,0 mm		- -	**CT2EX6** 5 42 506 99	**CT2EX7** 5 42 507 99	**CT2EX8** 5 42 508 99
	10,0 mm		- -	**CT2FX6** 5 42 516 99	**CT2FX7** 5 42 517 99	**CT2FX8** 5 42 518 99

Description	Model	
Desoldering attachment for soldering iron W 61. Temperature: 370°C	DS-7-N 5 13 041 99	
Desoldering attachment for soldering iron W 60. Nozzle for DS-W60	DS-W60 UK DS-N UK	
Desoldering tip for Dual-in-line, for use with W 61. Exact fitting desoldering channels allow rapid desoldering. Temperature: 310°C	DIL-16 WGN 5 41 735 99	
Wleding mirror for cutting and welding of plastic tapes and ropes, for use with W 101 (Dimensions: 50 x 40 x 4). Temperature: 370°C	Welding mirror 5 11 767 99	
Desoldering tip for Dual-Inline Packages with 16 pins. For use with W 60.	SK126-6-W60 UK	
Desoldering tip for Dual-Inline Packages with 14 pins. For use with W 60.	SK137-6-W60 UK	

UK = distributed by Cooper Tools GB only

	Model	Description
	KH-4* 5 15 004 99	Support with base and sponge for W 60 and W 61
	KH-6* 5 15 006 99	Support with base and sponge for W 100 and W 101
	* Supports only for straight tips useable	
	AK 1 5 15 010 99	Safety support rack with tiplet holder for use with: TCP, W 60, W 61, W 100, W 101, iron with DS 7N, desoldering tips and bent tips, SPI-soldering irons 15-75 W, desoldering iron DS-22
	AK 2 5 15 011 99	Safety support for W 201

SPI Soldering Irons

For professionals and for pretentious electronic fans SPI irons come with plated and oxidation preventing Weller „longlife“ tips. Robust heating elements of special steel between natural mica-leaves, embeded in cast ceramics and first-class material make the Weller SPI irons outstanding in technology and life-time.

Description	Model
Mini soldering pencil for electronics	SPI-15, 12V 5 14 090 99
Technical Data: • Outlet: 15 W • Heating-up time: 180 sec. • Tip-temperature: 360°C • Weight: 0,104 kg	SPI-15, 24V 5 14 091 99
Longlife tips • pointed, straight 0,4 mm 5 43 210 00 • chisel, straight* 1,2 mm 5 43 212 00 • chisel, straight 2,0 mm 5 43 211 00	
Soldering pencil for electronics (also available with120V)	SPI-16, 230V 5 64 005 99
Technical Data: • Outlet: 15 W • Heating-up time: 180 sec. • Tip-temperature: 360°C • Weight: 0,322 kg	
Longlife tips • pointed, straight 0,4 mm 5 43 210 00 • chisel, straight* 1,2 mm 5 43 212 00 • chisel, straight 2,0 mm 5 43 211 00 • chisel, straight 0,8 mm 5 43 213 00 • chisel, straight 1,2 mm 5 43 217 00 • chisel, straight 2,0 mm 5 43 218 00	

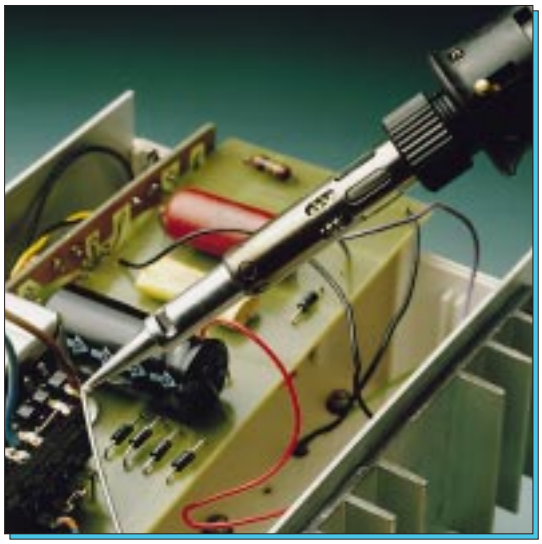
The * marked tips are within the scope of delivery.

	Model	Description
	SPI-27, 230V 5 64 021 99	(also available with 120V) Technical Data: • Outlet: 25 W • Heating-up time: 180 sec. • Tip temperature: 410°C • Weight: 0,336 kg Longlife tips • Chisel, straight* 1,2 mm 5 43 206 00 • Chisel, bent 1,2 mm 5 43 207 00 • Chisel, straight 2,0 mm 5 43 200 00 • Chisel, bent 2,0 mm 5 43 203 00 • Chisel, straight 3,0 mm 5 43 201 00 • Chisel, bent 3,0mm 5 43 204 00 • Chisel, straight 5,0 mm 5 43 202 00 • Chisel, bent 5,0 mm 5 43 205 00
	SPI-41 5 64 037 99	(also available with 120V) Technical Data: • Outlet 40 W • Heating-up time: 180 sec. • Tip temperature: 450°C • Weight: 0,351 kg Longlife tips • Chisel, straight* 2,0 mm 5 43 224 00 • Chisel, bent 2,0 mm 5 43 226 00 • Chisel, straight 3,0 mm 5 43 225 00 • Chisel, bent 3,0 mm 5 43 227 00 • Chisel, straight 5,0 mm 5 43 220 00 • Chisel, bent 5,0mm 5 43 222 00 • Chisel, straight 6,3 mm 5 43 221 00 • Chisel, bent 6,3 mm 5 43 223 00
	SPI-81, 230V 5 64 053 99	(also available with 120V) Technical Data: • Outlet: 75 W • Heating-up time: 180 sec. • Tip temperature: 480°C • Weight: 0,414 kg Longlife tips • Chisel, straight* 3,0 mm 5 43 234 00 • Chisel, bent 3,0 mm 5 43 236 00 • Chisel, straight 5,0 mm 5 43 235 00 • Chisel, bent 5,0 mm 5 43 237 00 • Chisel, straight 7,0 mm 5 43 230 00 • Chisel, bent 7,0mm 5 43 232 00 • Chisel, straight 9,5 mm 5 43 231 00 • Chisel, bent 9,5 mm 5 43 233 00
	CL-2 5 15 016 99	**Support for SPI soldering irons** Hang-up and support clip for TCP, SPI-15, SPI-26, W 61C, W 101 C, SPI-41C, SPI-81 C

The * marked tips are within the scope of delivery.

Pyropen

The Weller Pyropen allows temperature controlled soldering without electricity supply.



All Pyropens are lightweight and portable, which makes them ideal for service jobs in out-of-the-way places. They are powered by Butane gas, refilling is easy and takes only a few seconds.

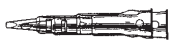
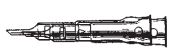
One main advantage is the very short heating-up-time of only a few seconds.

A wide range of soldering tips and nozzles make them universal to use. A pre-heated katalysator within the tip provides the heat.

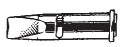
Temperature control is done by varying the gas flow.

	Model	Description
	Pyropen jr. 5 16 075 99	Technical Data: • Temperature range soldering: 200°C - 450°C
	Pyropen 5 16 060 99	Technical Data: • Temperature range soldering:200°C - 500°C • Operates up to 3 hours with one filling • Ignition with lighter Consists of: • Soldering tool with tip • Metal box • Accessoires set with torch ejector, hot blow nozzle and wrench • Cleaning sponge • Support clip • Refill canister
	Pyropen-Piezo 5 16 059 99	Same as Pyropen, but with built-in ignition Consists of: • Soldering tip 3,3 mm • Hot blow nozzle 5,7 mm • Metal box • Shrinking accessoires • Wrench • Support clip • Cleaning support • Refill canister
	Refill canister 5 16 160 99	• Contents: 75 ml • Weight: 42 g
	WSTA 6 UK UK = distributed by Cooper Tools GB only	Self igniting butane gas operated soldering iron 15 W - 60 W. Temperature is controlled by increasing and decreasing gas flow to the tip. Heating-up time about 30 sec.The soldering tip can be replaced with a hot blow nozzle which is suitable for small heat shrink applications. Reservoir in the handle holds approx. one hour. Consists of: • WPT 01 Needle • WPT 02 Chisel • WPT 03 Spade • WPT 04 Chisel

Soldering tips for Pyropen Jr.

Model		Type	Order-No.
Soldering tips with katalysator			
71-01-01		Needle tip 0,5 mm	5 16 165 99
71-01-02		Chisel tip 3,0 mm	5 16 166 99
71-01-03		Spade tip 3,0 mm ř	5 16 167 99
71-01-04		Chisel tip 5,0 mm	5 16 161 99
Hot blow nozzles with katalysator			
71-01-50		Hot blow nozzle 1,5 mm ř	5 16 168 99
71-01-52		Hot blow nozzle 4,9 mm ř	5 16 169 99
Soldering tips with katalysator for Pyropen and Pyropen-Piezo			
70-01-01		Needle tip	5 16 120 99
70-01-02		Chisel tip, 3 mm	5 16 121 99
70-01-03		Spade tip 2 mm	5 16 122 99
70-01-04		Spade tip 3 mm	5 16 123 99
70-01-05		Needle tip	5 16 124 99
70-01-06		Spade tip, conical	5 16 125 99
Soldering tips for WSTA-6			
WPT-01		Needle tip, 1,0 mm	
WPT-02		Chisel tip 2,4 mm	
WPT-03		Spade tip 2,0 mm	
WPT-04		Chisel tip 5,0 mm	
WHC-01-50		Hot blow nozzle ř 1,5 mm	
WHC-01-52		Hot blow nozzle ř 4,7 mm	

Soldering tips with katalysator for Pyropen and Pyropen-Piezo

Model		Type	Order-No.
70-01-07		Taper pyramid	5 16 126 99
70-01-08		Spade tip, 35°, 2 mm	5 16 127 99
70-01-09		Spade tip, 35°, 3 mm	5 16 128 99
70-01-10		Needle tip, bent	5 16 129 99
70-01-11		Chisel tip, 8 mm	5 16 130 99
70-01-12		Round head tip, 8 mm	5 16 131 99
70-01-13		Chisel tip, 5 mm	5 16 132 99
70-01-14		Adapter 8,4 mm with M4 threat	5 16 133 99

Hot blow nozzles with katalysator for Pyropen and Pyropen-Piezo

		Outside-ř		Inside-ř	
70-01-50		2,5	x	1,59	5 16 140 99
70-01-51		4,25	x	3,3	5 16 141 99
70-01-52		5,7	x	4,9	5 16 142 99
70-01-53		8,0	x	7,4	5 16 143 99
70-01-54		Reflector for shrinking applications, ř 8 mm, width 22 mm			5 16 158 99
70-01-55		Reflector for shrinking applications, ř 6 mm, width 18 mm			5 16 159 99

WC 100 Cordless

The Weller WC 100 is an electricity independent low voltage soldering iron with Nickel-Cadmium accumulator and built-in work light.
The accumulator is recharged within 12 hours. The tip temperature of 370° C is reached within a few seconds. One charge is good for 350 joints.

Description	Model
Cordless Soldering Iron Set	WC 100 5 16 002 99

Charger

• Mains voltage:	230 V AC
• Outlet voltage:	2,4 V DC
• Outlet:	3 W

Soldering iron

• Temperature:	370°C
• Heating voltage:	2,4 V DC
• Outlet:	15 W

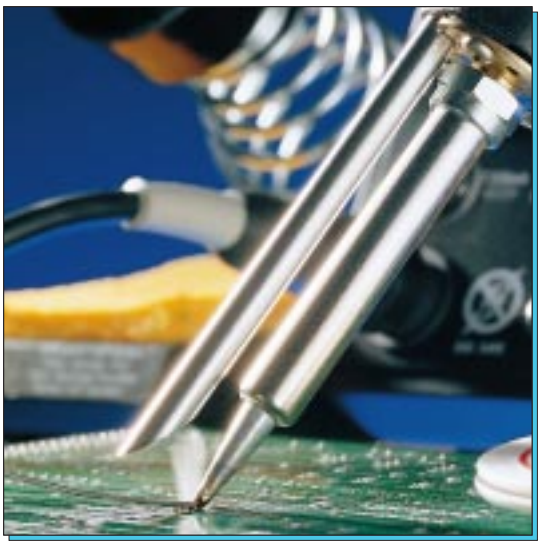
Consists of:

• Soldering iron	5 16 010 99
• Charger 230 V	5 16 021 99
• Tip 1,5 mm	5 16 100 99
• Tip 2,5 mm	5 16 101 99
• Tip 0,8 mm	5 16 102 99

Spare parts for Cordless set:

• Soldering iron	5 16 010 99
• Charger 230 V	5 16 021 99
• WC 111 Tip 1,5 mm	5 16 100 99
• WC 112 Tip 2,5 mm	5 16 101 99
• WC 113 Tip 0,8 mm	5 16 102 99

Zero Smog



Zero Smog

It is a fact that the soldering process produces noxious fumes and gases. For operators subjected to these conditions every day it is, at the very least, unpleasent but unfortunately it can be much worse resulting in long-term health problems and the legal presponsibilities that follow. The Weller Zero Smog systems put an end to pollution at the source right at the soldering tip.

The Weller FE irons have a built-in tube positioned directly over the solder joint. Four specially developed Fume Extraction irons are available to operate with all the Zero Smog systems. Accessory tubes are also available to add fume extraction capability to standard irons.

Description

Technical Data:

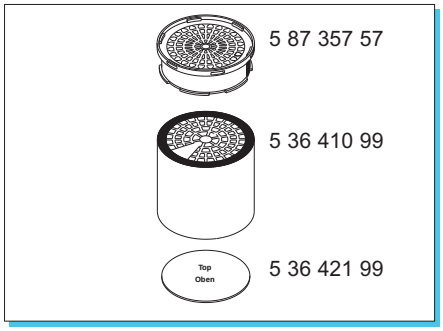
- Fast filter exchange with the filter-lift-system
- Max. capacity: 2 FE soldering iron
- Operation pressure: 3,5 - 6 bar (clean and oil-free)
- Air consumption: 30l/min
- Sound level: 39dB (A)

In scope of delivery included:

- Filter cartridge 5 36 410 99
- Condensation filter (3 pcs.) 5 36 412 99
- Compressed air filter 5 87 357 57
- Compressed air tube, 2 m, outside-ř 6,0 mm

Model

WFE
5 36 402 99



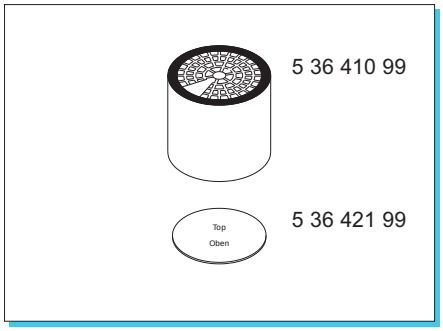
Technical Data:

- Built-in pump makes it independent from compressed air
- Maintenance free motor
- Fast filter exchange with the filter-lift-system
- Max. capacity: 2 FE soldering iron
- Power absorbtion: 50 W
- Sound level: 40dB (A)

In scope of delivery included:

- Filter cartridge 5 36 410 99
- Condensation filter (3 pcs.) 5 36 412 99

WFE P
5 36 236 99



Spare parts for WFE and WFE P:

- Replacement filter cartridge
5 36 410 99
- Compressed air filter WFE
5 87 357 57
- Condensation filter (3 pcs.)
5 36 421 99
- Filter cartridge (active carbone)
for adhesives and drying 5 36 407 99

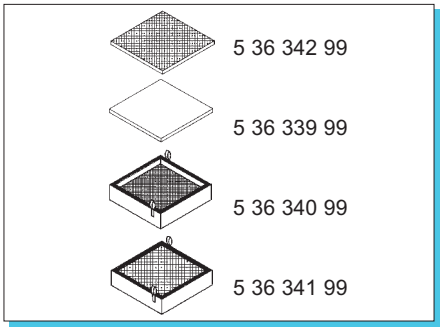
Model

Description

WFE 10
5 36 303 99

Technical Data:

- For continous use
- Maintance free turbine
- Flat suction as well
- LED indicates necessary filter exchange
- Max. capacity: 10 FE Soldering iron
- Power absorption: 550 W
- Sound level: 49 dB (A)
- Max. conveyance: 80 m³/h, without pressure
- Max. vacuum: 12.000 Pa
- Dimensions (LxWxH):
420 x 420 x 735 mm



In scope of delivery included:

- Filter set

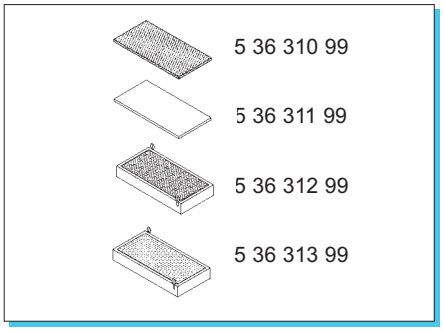
Spare parts:

- Expanded metal condensation filter 5 36 342 99
- Fine-particular gas filter
5 36 339 99
- Submicron particulate air filter 5 36 349 99
- Wide band gas filter 50% active carbon,
50% Purafil 5 36 341 99
- Active carbon filter 5 36 354 99
- Pre filter EU7 (10 pcs.)
5 36 355 99
- Pre filter EU9 (10pcs.) 5 36 359 99

WFE 35
5 36 300 99

Technical Data:

- For continous use
- Maintance free turbine
- Flat suction as well
- LED indicates necessary filter exchange
- Max. capacity: 35 FE Soldering iron
- Power absorption: 1,36 kW
- Sound level: 52 dB (A)
- Max. conveyance: 220 m³/h, without pressure
- Max. vacuum: 11.000 Pa
- Dimensions (LxWxH):
650 x 350 x 750 mm



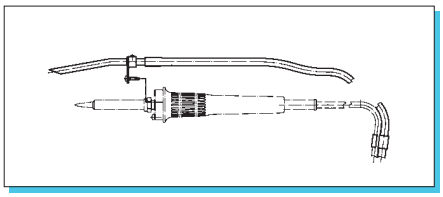
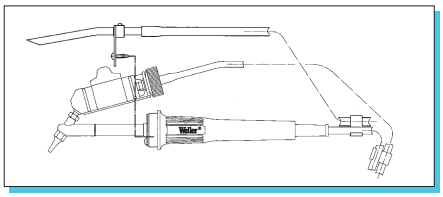
In scope of delivery included:

- Filter set

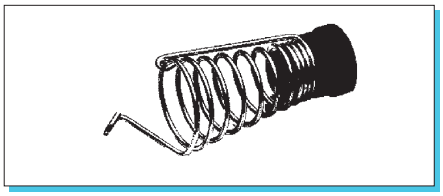
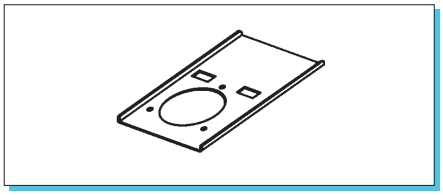
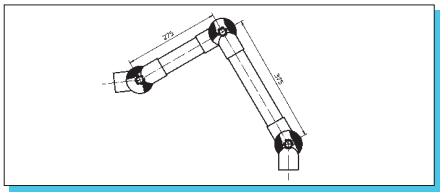
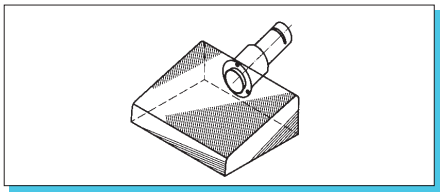
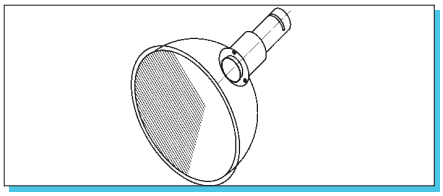
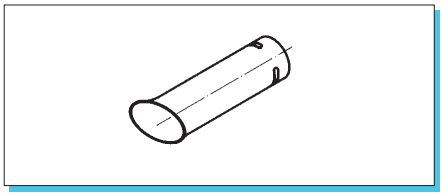
Spare parts:

- Expanded metal condensation filter 5 36 310 99
- Fine-particular gas filter
5 36 339 99
- Submicron particulate air filter 5 36 340 99
- Wide band gas filter 50% active carbon filter,
50% Purafil 5 36 341 99
- Active carbon filter 5 36 354 99
- Pre filter EU7 (10 pcs.)
5 36 355 99

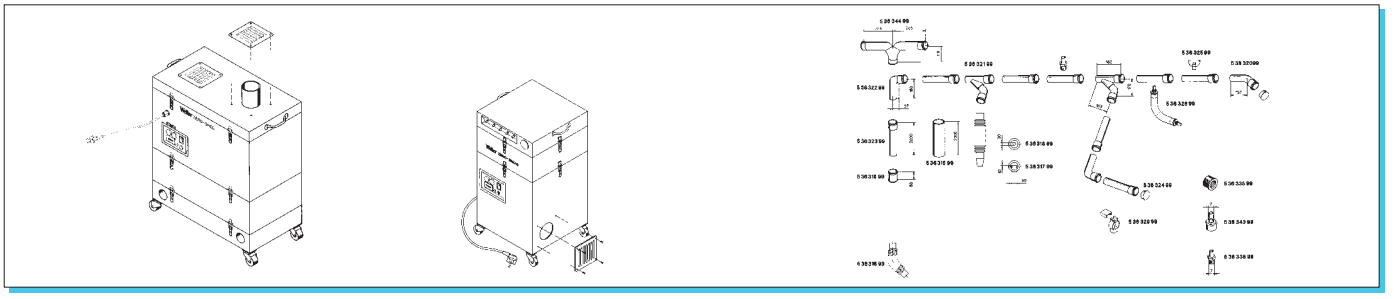
Description	Model
Micro soldering pencil 24 V/25 W Consists of: • Soldering iron with fume extraction device • Funnel 5 50 050 00 • MT-H soldering tip 5 44 112 99 • Cylinder brush D5 5 25 409 00 Soldering tips: MT-series, see page 84	FE 25 5 29 106 99
Soldering pencil 24 V/50 W Consists of: • Soldering iron with fume extraction device • Funnel 5 50 050 00 • ET-B soldering tip 5 50 050 00 • Cylinder brush D5 5 25 409 00 Soldering tips: ET-series, see page 85	FE 50 5 25 153 99
Magnastat soldering pencil 50 W Consists of: • Soldering iron with fume extraction device • Funnel 5 50 050 00 • Cylinder brush D5 5 25 409 00 • PT-B7 soldering tip Soldering tips: PT-series, see page 101	FE 50 M 5 32 152 99
Weller soldering pencil WSP 80 with fume extraction device Consists of: • Soldering iron with fume extraction device • Cylinder brush D3 Soldering tips: LT-series, see page 89	WSP 80 FE 5 29 162 99
Soldering iron 24 V/80 W Consists of: • Soldering iron with fume extraction device • Funnel 5 50 050 00 • HT-2 soldering tip 5 44 261 99 • Cylinder brush D5 5 25 409 00 • Wrench 10/14 mm 5 87 330 56 Soldering tips: HT-series, see page 90	FE 80 5 26 162 99
Accessoire: • Locking clip for all FE irons 5 36 352 99	

	Model	Description
		FE Accessoires
	5 25 125 99	for LR 21 and LR 82
	5 13 125 99	for DS 22 and DS 80
	5 29 125 99	for MLR 20
	5 29 127 99	for MLR 21
	5 30 126 99	for MT 1500
	5 25 126 99	for SFA/SFC

Description	Model	
Support for soldering iron FE 25, FE 50, FE 50M, FE 80	AK 20 5 15 030 99	
for MLR 21	AK 21 5 15 012 99	
Stop + Go support, pneumatic version for WFE. For soldering irons FE 25, FE 50, FE 50M, FE 80.	KH P 5 15 086 99	
Stop + Go support, electric version for WFE P. For soldering irons FE 25, FE 50, FE 50M, FE 80.	KH E 5 15 076 99	
Same as KH E,but for MLR 21 FE	KH E 21 5 15 077 99	
Same as KH P, but for MLR 21 FE	KH P 21 5 15 078 99	
Stop + Go support with fiber optics for extension of KHP and KHE	5 15 080 99	
Stop + Go support with fiber optics for extension of KH E 21	5 15 082 99	

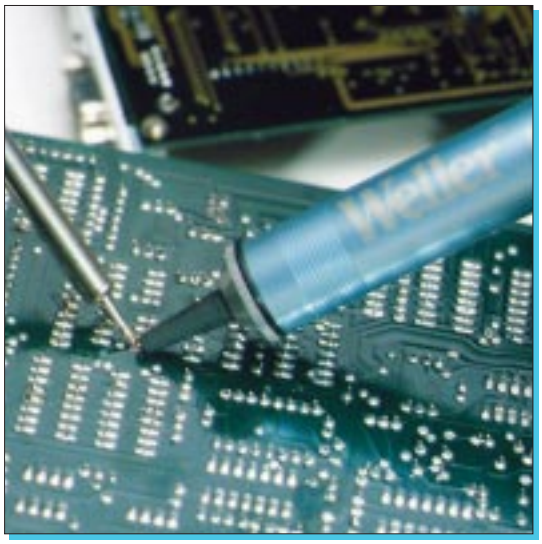
	Model	Description
	5 15 024 99	Spring and funnel for FE 50, 50 M
	5 87 337 59	Funnel for FE 80
	5 36 345 99	Clamp holder for extraction arm
	5 36 347 99	Extraction arm for bench assembly
	5 36 348 99	Extraction arm for bench assembly, antistatic
	5 36 349 99	Shade, PE transparent 296 x 248 mm
	5 36 350 99	Shade, PE transparent, ř 385 mm
	5 36 351 99	Extraction nozzle, 50 mm, ř 230 mm

DN 40 vacuum tubing system for WFE 10



Manual desoldering pumps

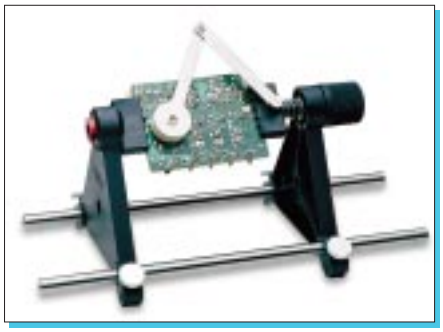
With hand-held desoldering sets a vacuum is produced by means of a piston, cylinder and spring force. The piston is tensioned manually and secured automatically. The piston is moved back suddenly by pressing the release button and a vacuum is created briefly so that the soldered joint is freed of liquid solder.

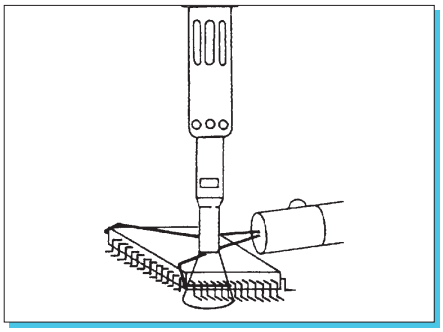


Desoldering Pumps

Model	Desoldering
 PS 100A 5 13 202 99	Manual Desoldering Pump Mini Technical Data: • Strong vacuum • Minimal rebound • Metal housing • Length 150 mm • antistatic Consists of: • Desoldering pump Accessoires: • PS 100-1 Teflon tip 5 13 212 99 • PS 100-1A Teflon tip antistatic 5 13 213 99
 PS 200A 5 13 203 99	Manual Desoldering Pump Midi Technical Data: • Strong vacuum • Minimal rebound • Metal housing • Length 200 mm • antistatic Consists of: • Desoldering pump Accessoires: • PS 200-1 Teflon tip 5 13 214 99 • PS 200-1A Teflon tip antistatic 5 13 215 99
 PS 300A 5 13 204 99	Manual Desoldering Pump Maxi Technical Data: • Strong vacuum • Minimal rebound • Metal housing • Length 300 mm • antistatic Consists of: • Desoldering pump Accessoires: • PS 300-1 Teflon tip 5 13 204 99 • PS 300-1A Teflon tip antistatic 5 13 204 99
 S 21A 5 13 208 99	Manual Desoldering Pump Economy Technical Data: • Metal housing • Length 200 mm • antistatic Consists of: • Desoldering pump Accessoires: • SA-21-A1 Teflon tip antistatic 5 13 219 99 (for SA-21-A) • S-20-A1 Teflon tip antistatic 5 13 218 99 (for S-20-A plastic

Miscellaneous

Description	Model	
Solder Dispenser for coils up to 1 kg with variable diameter of shaft (12 and 8 mm) Consists of: •Dispenser	SD-1000 5 13 017 99	
Extension for additional coil	ABW-2 5 13 013 99	
PCB holder for placing components Technical Data: • Max. Size 160 x 235 mm (doubled Europe size) • Rotable through 360°; in increments of 15° • Leiterplattenhalterung durch Federkraft • Components are held in place by a cushioned arm	ESF 120 antistatic 5 15 026 99	
The cord support keeps the cord of the soldering iron out of the direct working area. This allows an easy handling of the soldering iron. Especially recommended for use with FE soldering irons.	Cord support for AK 20 5 15 065 99 Cord support for KH 23 5 15 066 99	

	Model	Description
	WCR 5 47 016 99	Chip Remover to remove components
	PCB Training Set for SMD 5 55 282 99	This set offers the opportunity to collect experiances in soldering and desoldering of SMD components. The different soldering and desoldering techniques can be trained without damaging the expensive regula boards. The set consists of two boards and SMD components starting with chip 0402 up to QFP 208 with 0,5 pitch.
	Tip-Activator 5 13 031 99	The Weller Tip-Activator for regeneration of oxidized tips works fast and easy with low temperature. The Tip-Activator is environmentally safe and contains no halids, lead, rosin or residue. Continously use will prolong the life of the tips.

Description

Model

Antiblock Paste
5 13 030 99

The Weller antibloc paste is to avoid that nozzles may stick due to oxidation or heat.
Important is a continous use after every nozzle exchange (at least once a week) to keep the nozzles easy to change.

Consists of:
• 1 cartrigde ŕ 10 g

Desoldering Wire

The desoldering wires consist of a copper net with flux. The special surface treatment allows efficient solder remove.

De-Sold 1,5 m coil	Desoldering wire for efficent solder remove width1,5 mm	5 13 010 99
De-Sold 1,5 m coil	width 2,0 mm	5 13 011 99
De-Sold 1,5 m coil	width 2,5 mm	5 13 012 99
De-Sold 30 m coil	width 1,5 mm	5 13 026 99
De-Sold 30 m coil	width 2,0 mm	5 13 027 99
De-Sold 15 m coil	width 2,5 mm	5 13 028 99

Spot-Mask
14 06 157 48

The spot-mask is a rupper similiar material to protect connectors of PCB's from tinning during the reflow process. For manual rework the spot-mask is complete by and easy by removeable.

Flux-Set

Temperature supply and calibration

All Weller soldering and desoldering sets are carefully checked for compliance with standard tolerance using precision measuring devices under no-load conditions. Under these conditions a separate re-adjustment is not required even after repairing or replacing individual components.

For checking the control accuracy as required by ISO 9000 we recommend the use of our temperature measuring tips which can be supplied for all electronically controlled soldering irons. This largely rules out parasitic influences caused by handling.

Please note that the measurement results expected cannnot be more accurate than the total tolerance from measuring instrument tolerance and thermocouple tolerance.

We therfore recommend using a thermocouple with a 0,5 mm outside diameter in accordance with DIN/IEC 584, Part 1, type K, class 1-1/3 DIN ±1°C) in conjunction with the respective temperature measuring tip. The temperature measuring tips show the thermal mean value of the corresponding soldering tip programme in each case. The measurement can easily be carried out at a draft-free workplace.

However, the real tip temperature can only be measured under calibration room conditions at the soldering tip used in each case. For this it should be noted that the sheated thermocouple is contacted by the soldering tip over a length of at least 5 mm (10 x outside diameter). Pay attention to good thermal contacting (tin droplets).

For direct temperature measurement at the soldering tip we also recommend using our thermometer WTT 1500 (see page 169).

Description

Following calibration tips/measuring nozzles are available:

MT calibration tip (for MLR 20/MLR 21)	5 44 114 00
ET calibration tip (for LR 21)	5 24 750 00
LT calibration tip (for WSP 80, MLR 80)	5 44 416 00
HT calibration tip (for LR 80)	5 44 163 99
HT calibration tip (for LR 82)	5 44 263 99
for desoldering iron	5 24 749 00
for WT 50	5 44 149 99
measuring nozzle NA 20 for WHA	5 87 368 75
measuring nozzle R 01 for HAP 1	5 87 278 08

Model

WTT 1500
5 26 352 99

The WTT 1500 is designed for low mass miniature soldering iron tip measurements. It does not heat sink the measured item. The probe has its own internal heat source and dual sensor system that measures both temperatures and heat flow. It provides accurate measurement in less than 10 seconds.

Technical Data:

- Dimensions (L x W x H): 155 x 115 x 105 mm
- Temperature range: 65°C - 510°C
- Tolerance: ± 5°

Consists of:

- Measurement station WTT 1500
- Probe

Order-No.	Description		Catalogue Page	Soldering Tips Type	Page
	SPI Soldering Iron				
5 14 090 99	SPI-15	12V, 15W, 360°C	147	15	147
5 14 091 99	SPI-15	24V, 15W, 360°C	147	15	147
5 64 005 99	SPI-16	230V, 15W, 360°C	147	16	147
5 64 021 99	SPI-27	230V, 25W, 410°C	148	27C	148
5 64 037 99	SPI-41	230V, 40W, 450°C	148	41	148
5 64 053 99	SPI-81	230V, 75W, 480°C	148	81	148
	Magnastat Line Voltage Soldering Irons				
5 61 036 99	W61	230V, 60W	143	CT	144
5 61 046 99	W101	230V, 100W	143	CT	144
5 61 056 99	W201	230V, 200W	143	CT	144
5 61 093 99	W101H	Solder bath 230V, 100W	143	Solder bath inserts	143
	Magnastat Low Voltage Soldering Irons				
5 32 105 99	TCP-S	24V/50W	99	PT	101
5 10 001 99	TCP-24	2-wire without plug 24V/50W	100	PT	101
5 10 054 99	TCP-28	3-wire without plug, 28V/50W	100	PT	101
5 10 055 99	TCP-42	42V/50W	100	PT	101
5 10 058 99	TCP-55	55V/50W	100	PT	101
5 10 053 99	TCP-12	12/14V, 30/40W, with battery clamps	100	PT	101
	Low Voltage Soldering Irons with Electronic Control in the Handle				
5 24 001 99	T3001	24V~~	100	ET	85
	Temtronic/SL-Series				
5 25 101 99	LR 21	Soldering iron, 50W	78,79,96,97,113	ET	85
5 29 101 99	MLR 21	Micro soldering pencil, 25W	80,112	MT	84
5 29 161 99	WSP 80	Micro soldering pencil, 80W	78,79,81,113	LT	89
5 29 121 99	MPR 30	Peritronic, 25W	80,112	MT	84
5 26 152 99	LR 82	Soldering iron, 80W	81,113	HT	90
5 13 090 99	DS 80	Desoldering iron, 80W	109,114	Nozzle DS	120
5 27 115 99	HAP 1	Hot air pencil, 100W	111,114,124	Nozzle	126
5 13 093 99	DS V	Desoldering iron	115	Nozzle DS	120
5 13 096 99	DS VT	Desoldering tool	115	CSF	118,119
5 13 170 99	WT 50	Desoldering tweezer	82,115	WT	121
5 25 030 99	WST 20	Wire-Stripper	82,116	Knife	82
5 28 110 99	SFA	Soldering pencil, 50W	96	ET	85
5 28 111 99	SFC	Soldering pencil, 50W	97	ET	85
	Temtronic/SL-Series FE Soldering Irons				
5 29 106 99	FE 25	Soldering pencil, 25W	157	MT	84
5 25 153 99	FE 50	Soldering pencil, 50W	157	ET	85
5 32 152 99	FE 50M	Magnastat soldering pencil, 50W	157	PT	101
5 26 162 99	FE 80	Soldering iron, 80W	157	HT	90
5 29 107 99	MLR 21 FE	Micro soldering pencil, 25W	158	MT	84

	WTCP 50	WS 50	WSD 50	WS 80	WSD 80	WSD 130	WSA 1	WSA 1V	WMD 1	WMD 3	WMA 3V	WSA 1R	WHA 700	WHA 2000		AG 75
~~WHP 300~~																
~~ESD safe~~	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
~~MLR 21~~		3	3	3	3		3	3	3	3	3	3				
~~MPR 30~~		3	3	3	3		3	3	3	3	3	3				
~~LR 21~~		3	3	3	3		3	3	3	3	3	3				
~~MLR 80~~				3	3		3	3	3	3	3	3				
~~LR 82~~				3	3		3	3	3	3	3	3				
~~DS 80~~							3	3	3	3	3					
~~DS V~~								3	3	3	3					
~~DS VT~~								3	3	3	3					
~~HAP 1~~									3	3	3				3	
~~HAP 700W~~													3	3		
WT 50		3	3	3	3		3	3	3	3	3	3				
WST 20		3	3	3	3		3	3	3	3	3	3				
WHP 50			3		3				3	3						
WHP 80					3				3	3						
WHP 300																3
EXIN 5			3		3				3	3						
TCP	3															
MT 1000																
MT 1500																
T3001	3															
Dispenser											3					
vacuum pipette											3					

	AK 1 5 15 010 99	AK 2 5 15 011 99	AK 10 5 15 045 99	AK 20 5 15 030 99	AK 21 5 15 012 99	AK 50 5 15 041 99	AK V 5 15 038 99	KH 2 5 15 002 99	KH 4 5 15 004 99	KH 6 5 15 006 99	KH 15 5 15 019 99	KH 20 5 15 020 99	KH 23 5 15 023 99	KH 25P 5 15 033 99	KH 27 5 15 027 99	Attachment Kit SFA-5 25 126 99	FE	KH P 5 15 086 99	KH E 5 15 076 99	KHE/P 5 15 080 99	KHE 21s 15 077 99	KH P 21 5 15 078 99	KHE/P 21 5 15 082 99	WPH 80	WST 20 5 15 032 98	Combi support 5 15 052 99
Dispenser																									3	
DS 80	3			3																						
DS 80 FE			3																							
DS V								3																		
DS VT								3																		
FE 25					3								3				3	3	3							
FE 50	3			3									3				3	3	3							
FE 50 M	3			3									3				3	3	3							
FE 80	3			3									3				3	3	3							
FE 75				3													3	3	3							
HAP 1	3			3								3														
LR 21	3			3				3				3														
LR 82	3			3											3											
MLR 21											3															
MLR 21 FE					3									3						3	3	3				
MPR 30					3											3										
MT 1000																	3									
3 3																										
MT 1000 FE																	3									
3																										
MT 1500																	3									
3																										
MT 1500 FE																	3									
3																										
SFA / SFC																3										
SFA / SFC FE																3										
T 3001	3			3				3				3														
TCP	3			3				3				3														
vacuum pipette																									3	
W 61	3								3																	
W 101	3									3																
WSP 80 FE201		3																								
WSP 80																									3	
WHA 700				3																						
WHA 2000				3																						