



Weller®

**WD – Soldering Solutions
Excellence in Performance**

COOPER Hand Tools

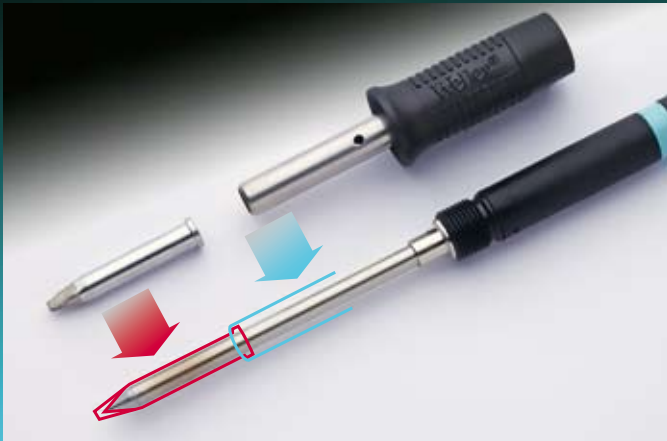


High-Power-Technology for High-Precision Results

Where energy efficiency meets sensitivity

Never before have the challenges in the fast-paced field of microelectronics been so complex. And never before has technology offered more advanced solutions for on-board assembly and repair. Weller®'s new generation of HPT (High-Power-Technology) hand-operated, microprocessor-controlled soldering tools brings together the highest possible energy efficiency with optimal sensitivity to meet the increasingly complex demands of soldering technology.

Weller® offers users in all industrial applications a wide selection of state-of-the-art, high-performance soldering tools engineered for simplicity of use, optimised functionality, reliability and unmatched application fitness.



Optimal thermal transfer at low temperatures

Advanced heating and sensor technology
– developed for optimal thermal conductivity
– delivers top performance on small surfaces at the lowest possible temperatures to reduce thermal stress on the boards and minimise risk of damage.

Thanks to reduced mechanical pressure, Weller®'s new generation of HPT (High-Power-Technology) soldering tools also help to extend soldering tip, lifetime and reduce lifecycle costs.



Best life cycle cost at dynamic performance

The new WP 120 High-Power-Technology Soldering Pencil offers twice as much power and efficiency in a small and ergonomic pencil design. Combining a compact, powerful heating element with a replaceable soldering tip the WP 120 soldering pencil guarantees dynamic performance and best life cycle costs.

The rapid transfer of heat into the soldering tip is quickly and precisely controlled with sophisticated electronics which allows the WP 120's compact design to cope with big and difficult solder joints even when they are barely accessible.

New



New



High-Power-Technology combined with ergonomic design

Finely tuned systems designed for maximum working efficiency

To address a wide variety of soldering applications, Weller® offers a comprehensive selection of high quality soldering tips – developed for superior performance both in terms of heat-up and thermal efficiency. All system component parts are manufactured for optimum heat transfer, to ensure the efficient use of power provided by the supply unit. The WP 120 High-Power Soldering Pencil features Weller®'s new Advanced Sensor Technology (sensor is located at the very end of the soldering tip) which means the heating performance is comparable with an active soldering tip.



WP 120 High-Power Soldering Pencil

- 120 W High-Power soldering pencil
- Equipped with Weller® Advanced Sensor Technology
- Very short heat-up time
- Twice as much power and efficiency as a standard soldering pencil
- Best life cycle cost for soldering tips
- Ideal for big and difficult solder joints as well as for HF shield plates and solar panel manufacturing

The Weller® Micro-Tools work with active soldering tips. Active soldering tips combine the heating element, soldering tip and sensor in one component which guarantees an optimum heat transfer.

Changing soldering tips is quick, easy and requires no additional tools.



WP 80 Soldering Pencil

- 80 W soldering pencil
- Very short heat-up time
- Short tip-to-grip design for work under microscopes
- Distance from grip to tip only 45 mm
- For small and sensitive components



Increasing lifetime with Weller® Stop & Go safety rests

Weller®'s 'Stop & Go' system concept increases the lifetime of soldering tips, while ensuring absolute control and optimised working efficiency. The combination of an intelligent Weller® power unit with the Weller® Stop & Go safety rest means soldering tip temperature is automatically reduced resulting in increased tip lifetime.



WMRP Micro Soldering Pencil

- 40 W Micro-Tool
- Extremely short heat-up time
- Works with an active soldering tip for optimum heat transfer
- Highly efficient utilization of the power generated by the power unit
- Recovery time is minimized



Best soldering results with Weller® cleaning sets when using lead free solder

Non wettable soldering tips must be dry cleaned! This is not a problem when using Weller® cleaning sets. Oxidized tips can be refurbished by using the Weller® Tip Activator, a stainless steel brush, or for compacted oxide films the Weller® polishing bar. Use the Weller® WDC Dry Cleaner for standard cleaning maintenance to protect the soldering tip from oxidation.

Cleaning Tip

Leadfree soldering = dry cleaning
(using the Weller® WDC sets)

Leaded soldering = wet cleaning
(using a sponge)



WMRT Micro Desoldering Tweezers

- 2 x 40 W Micro-Tool
- Extremely short heat-up time
- Works with an active soldering tip for optimum heat transfer
- Highly efficient utilization of the power generated by the power unit
- Recovery time is minimized
- Micro desoldering tweezers to desolder dual connected components in one operation
- Twin parallel adjustable tiplets
- Ideal soldering and desoldering of very small SMT components



Simplicity of Use in the Forefront

Ready, set, go – with perfect accuracy

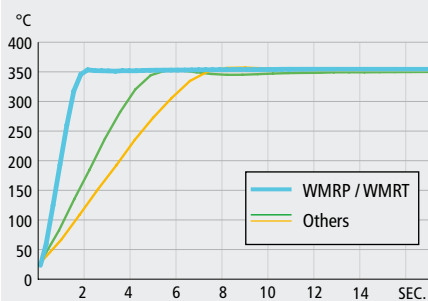
As on-board components become more complex, Weller® continues to lead the field with innovative, user-friendly tools able to take on virtually any soldering application. The microprocessor-controlled power units and soldering stations are engineered for industrial applications and designed with operational simplicity for the user to the forefront.

Weller®'s new HPT (High-Power-Technology) power units feature compact, ergonomic design, a small footprint and 'ready-set-go' user-friendliness.

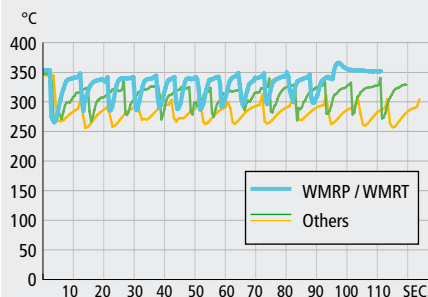
A large LC display ensures the clear communication of information, perfect legibility, easy handling and optimised operation. Three fixed temperatures can be assigned via the temperature buttons; users can set temperature values as required.



Fastest heat-up time of Weller (R) tools



Strongest recovery time



Temperature accuracy and optimised, dynamic temperature behaviour is achieved by fast, precise measured-value recording in Weller®'s closed control loop. Precise tip temperature control is guaranteed by the digital control electronics, and high-quality sensor and heat transmission technology in the soldering tool. This minimises stress on components and boards.

All Weller® Digital Soldering Stations are adjusted by means of software and a closed loop control circuitry. The individual adjustment values of the station are unchangeably programmed into the microcontroller. Therefore a frequently re-calibration of stations is not needed.

However for legal calibration regulations, all stations are equipped with the functionality FCC (Factory Calibration Check), to be able to verify the original settings, if required by ISO or other regulations. Adjustments can be done if necessary.



Extended functional diversity

Selected units are equipped with an USB interface for precise data logging, centralised control, software updates and connection to an extended network or external PC.



Advanced functionality for ease of use

New-generation power units feature a programmable temperature decrease (setback function) to enhance tip lifetime, a custom-designed calibration function and remote ID for ISO application. Interlock functions avoid unauthorised changes in settings. Automatic recognition of the type of soldering tool connected ensures that the appropriate control parameters are always selected and eliminates the need for calibration.



New Dimensions in Hand Soldering

WD 1000HPT Soldering Station 160 W

High power for HF-shieldings, heat sinks or large joints.
One channel with High-Speed-Regulation for all
Micro-Tools and High-Power Soldering Pencil WP 120.

WD 1000HPT Soldering Station

Order-No. 230 V:

005 34 166 99

Order-No. 120 V:

WD1000HPT

Scope of supply:

WD 1M	Power Unit
WP 120	High-Power Soldering Pencil, 120 W
WDH 10T	Safety Rest with Stop + Go function

Technical Data WD 1M

Dimensions (L x W x H):	134 x 108 x 147 mm 5.27 x 4.27 x 5.77 inches
Mains voltage:	230 V / 50/60 Hz; 120 V / 50/60 Hz
Power input:	max. 160 W
Protection class:	I
Temperature control:	50°C – 450°C (150°F – 850°F)
Temperature accuracy:	± 9°C (± 17°F)
Temperature stability:	± 5°C (± 9°F)
Tip-to-ground resistance:	< 2 Ω

Potential-free plug (factory set hard grounded)



New

WD 3000HPT Soldering Station 420 W

WP 120 High-Power Soldering Pencil for HF shieldings, Micro-Tools for handling of small and sensitive SMT components.
Three channels with High-Speed-Regulation for all Micro-Tools and the High-Power WP 120 Soldering Pencil.



New

WD 3000HPT Soldering Station

Order-No. 230 V:

005 33 736 99

Order-No. 120 V:

WD3000HPT

Scope of supply:

WD 3M	Power Unit
WP 120	High Performance Soldering Pencil, 120 W
WDH 10T	Safety Rest with Stop + Go function
WMRP	Micro Pencil, 40 W
WDH 50	Safety Rest with Stop + Go function
WMRT	Micro Tweezers, 80 W (2 x 40 W)
WMRTH	Safety Rest with Stop + Go function

Technical Data WD 3M

Dimensions (L x W x H):	237 x 235 x 102 mm 10.75 x 9.25 x 4.02 inches
Mains voltage:	230 V / 50/60 Hz; 120 V / 50/60 Hz
Power input:	max. 420 W
Protection class:	I
Temperature control:	50°C – 450°C (150°F – 850°F)
Temperature accuracy:	± 9°C (± 17°F)
Temperature stability:	± 5°C (± 9°F)
Tip-to-ground resistance:	< 2 Ω

Potential-free plug (factory set hard grounded)

WD 3002HPT Soldering Station 420 W

One station, two High-Power Soldering Pencils for different applications or parallel work.
Three channels with High-Speed-Regulation for all Micro-Tools and High-Power Soldering Pencil WP 120.



New

WD 3002HPT Soldering Station

Order-No. 230 V:

005 33 746 99

Order-No. 120 V:

WD3002HPT

Scope of supply:

WD 3M	Power Unit
WP 120	High-Power Soldering Pencil, 120 W 2x
WDH 10T	Safety Rest with Stop + Go function 2x

Performance by Design

WD 1000M Soldering Station 160 W

Handling of small and sensitive SMT components.
One channel with High-Speed-Regulation for all
Micro-Tools and High-Power Soldering Pencil WP 120.



WD 1000M Soldering Station

Order-No. 230 V:

005 34 086 99

Order-No. 120 V:

WD1000M

Scope of supply:

WD 1M	Power Unit
WMRP	Micro Pencil, 40 W
WDH 50	Safety Rest with Stop + Go function

Technical Data WD 1M

Dimensions (L x W x H):	134 x 108 x 147 mm 5.27 x 4.27 x 5.77 inches
Mains voltage:	230 V / 50/60 Hz; 120 V / 50/60 Hz
Power input:	max. 160 W
Protection class:	I
Temperature control:	50°C – 450°C (150°F – 850°F)
Temperature accuracy:	± 9°C (± 17°F)
Temperature stability:	± 5°C (± 9°F)
Tip-to-ground resistance:	< 2 Ω

Potential-free plug (factory set hard grounded)

WD 2000M Soldering Station 160 W

Universal Micro-Tools Station for soldering and
desoldering of small and sensitive SMT components.
One station, two Micro-Tools for different applications
or parallel work.
Two channels with High-Speed-Regulation for all
Micro-Tools and High-Power Soldering Pencil WP 120.



WD 2000M Soldering Station

Order-No. 230 V:

005 34 126 99

Order-No. 120 V:

WD2000M

Scope of supply:

WD 2M	Power Unit
WMRP	Micro Pencil, 40 W
WDH 50	Safety Rest with Stop + Go function
WMRT	Micro Tweezers, 80 W (2 x 40 W)
WMRTH	Safety Rest with Stop + Go function

Technical Data WD 2M

Dimensions (L x W x H):	134 x 108 x 147 mm 5.27 x 4.27 x 5.77 inches
Mains voltage:	230 V / 50/60 Hz ; 120 V / 50/60 Hz
Power input:	max. 160 W
Protection class:	I
Temperature control:	50°C – 450°C (150°F – 850°F)
Temperature accuracy:	± 9°C (± 17°F)
Temperature stability:	± 5°C (± 9°F)
Tip-to-ground resistance:	< 2Ω

Potential-free plug (factory set hard grounded)

WD 1000T Soldering Station 80 W

For standard electronic soldering.
One channel with Soldering Pencil WP 80.



WD 1000T Soldering Station

Order-No. 230 V:

005 34 026 70

Order-No. 120 V:

WD1000T

Scope of supply

WD 1	Power Unit
WP 80	Soldering Pencil, 80 W
WDH 10T	Safety Rest with Stop + Go function

Technical Data WD 1 and WD 2

Dimensions (L x W x H):	134 x 108 x 147 mm 5.27 x 4.27 x 5.77 inches
Mains voltage:	230 V / 50/60 Hz; 120 V / 50/60 Hz
Power input:	max. 80 W (WD 1), max. 160 W (WD 2)
Protection class:	I
Temperature control:	50°C – 450°C (150°F – 850°F)
Temperature accuracy:	± 9°C (± 17°F)
Temperature stability:	± 5°C (± 9°F)
Tip-to-ground resistance:	< 2 Ω

Potential-free plug (factory set hard grounded)

Composition of Stations

Stations	Power units					Tools				Safety rests		
	WD 1	WD 1M	WD 2	WD 2M	WD 3M	WP 80	WP 120	WMRP	WMRT	WDH 10T	WDH 50	WMRTH
WD 1000T	■					■				■		
WD 1000HPT		■					■			■		
WD 1000M		■						■			■	
WD 2000M				■				■	■		■	■
WD 3000HPT					■		■	■	■	■	■	■
WD 3002HPT					■		■ ■			■ ■		

GERMANY

Cooper Tools GmbH

Carl-Benz-Straße 2
74354 Besigheim
Tel: (07143) 580-0
Fax: (07143) 580-108

GREAT BRITAIN

Cooper Tools

A Division of Cooper (GB) Ltd.
4th Floor Pennine House
Washington, Tyne & Wear
NE37 1LY
Tel: (0191) 419 7700
Fax: (0191) 417 9421

FRANCE

Cooper Tools S.A.S.

25 Rue Maurice Chevalier BP 46
77832 Ozoir-la-Ferrière Cedex
Tel: (01) 60.18.55.40
Fax: (01) 64.40.33.05

ITALY

Cooper Italia S.r.l.

Viale Europa 80
20090 Cusago (MI)
Tel: (02) 9033101
Fax: (02) 90394231

SWITZERLAND

Erem S.A.

Rue de la Roselière 8
1400 Yverdon-les-Bains
Tel: (024) 426 12 06
Fax: (024) 425 09 77

USA

**Cooper Hand Tools
World Headquarters**

1000 Lufkin Road
Apex, NC 27539 USA
Tel: (919) 387 0099
Fax: (919) 387 2614

CANADA

Cooper Hand Tools – Canada

164 Innisfil Street
Barrie, Ontario
Canada L4N 3E7
Tel: (705) 728 5564
Fax: (800) 403 8665

CHINA

Cooper Hand Tools

18th Floor, Yu An Building
738 Dongfang Road
Pudong, Shanghai
200122 China
Tel: (21) 5111 8300
Fax: (21) 5111 8446

AUSTRALIA

Cooper Tools Pty. Limited

P.O. Box 366
519 Nurigong Street
Albury, N.S.W. 2640
Australia
Tel: (2) 6058-0300
Fax: (2) 6021-7403

www.cooperhandtools.com/europe
www.weller.eu