

A high-angle, front-facing view of an F-35 fighter jet in flight. The aircraft's stealthy, angular design is prominent, with the cockpit canopy and sensor pod clearly visible. The background shows a cloudy sky.

Weller

NAM

Advanced Soldering Solutions for Aerospace & Defense Applications



In the military, aerospace and defense sectors, soldering goes beyond merely joining metals; it represents a dedication to the longevity, reliability and durability of every application.

WHY WELLER?

Weller's advanced soldering solutions, filtration systems and precision tools are essential for mission success, featuring patented Total Process Control for maximum connectivity and traceability. As part of Apex Tool Group—one of the world's leading tool manufacturers—Weller combines American innovation, German engineering and Mexican craftsmanship to deliver world-class soldering solutions globally.

Weller is your partner for ...

- Research & development
- Local mass production
- Rework & maintenance
- Training centers providing consistent superior quality



Uncompromising Quality for Critical Applications

Weller tools exceed rigorous industry standards, including:

- IPC J-STD-001
- IPC-A-610
- IPC/WHMA-A-620
- IPC-7711/7721

These tools are engineered for:

- Unwavering high performance
- Zero tolerance for downtime
- Extreme environmental conditions
- Mission-critical operations



Safeguarding and Empowering Essential Mission Equipment

Weller's products are engineered to exceed the stringent standards set by aerospace and defense government specifications.

Complete Workbench

The all-in-one station acts as the brain of the workbench by consolidating all soldering applications into one station. The platform fully supports Smart Soldering 4.0 with intelligent tips and tools – saving cost, time and space.

- ✓ All-in-one station
- ✓ Benchtop solution
- ✓ Intelligent irons
- ✓ Smart soldering tips
- ✓ Military Spec tips and tools



WXsmart Connecting the Future of Soldering



WXS2020

REWORK SET FOR TOTAL PROCESS CONTROL, INCLUDING HOT AIR

The WXsmart Soldering Station with WXair Hot Air Module is a complete rework station offering fast heat-up, total process control and advanced connectivity. Designed for heavy-duty soldering, it features TLS encryption, two-factor authentication and includes both a desoldering and soldering iron.



- ✓ Efficiency & Speed: 150 W active tip technology heats up in 7 seconds for uninterrupted workflow.
- ✓ Heavy-Duty Applications: Thermal Core Technology ensures optimal heat transfer for large components (1612+).
- ✓ Process Control: Intelligent tips with serial numbers enable traceability and calibration tracking.
- ✓ Expandable Flexibility: The WXair module transforms the WXsmart into an all-in-one rework station.
- ✓ Cybersecurity: TLS encryption, two-factor authentication, and certified updates safeguard against attacks.

Includes: WXsmart unit, WXDP 120 desoldering iron, WXUPS MS soldering iron with RTUS 032 S MS active tip, WXair module, WSR200 & WSR206 safety rest, WCTH cartridge tip holder

Order No: WXS2020

Dimensions L x W x H	6.90 x 6.06 x 5.70 in / 175 x 154 x 144 mm
Fuse	100 V / T6,3A
Temperature Accuracy	±9 °C / ±17 °F
Temperature Range	100 - 450 (550) °C / 200 - 850 (950) °F
Temperature Stability	±2 °C / ±4 °F
Voltage	120 V



WXS2022

REWORK SET FOR TOTAL PROCESS CONTROL

The WXsmart Soldering Station is perfect for all for heavy-duty tasks, featuring a soldering iron and tweezers with rapid heat-up, process control and advanced connectivity. It also offers TLS encryption and two-factor authentication for cybersecurity.



- ✓ Efficient Performance: 150W active tip technology heats up in 7 seconds, ensuring high heat transfer and continuous workflow.
- ✓ Heavy-Duty Applications: Thermal Core Technology supports large components (1612+).
- ✓ Process Control: Smart Tips with serial numbers and data storage ensure traceability and calibration.
- ✓ All-in-One Station: 300W, 2-channel WXsmart supports 12 tools, covering all soldering needs.
- ✓ Cybersecurity: TLS encryption, two-factor authentication, and certified updates ensure protection.
- ✓ Quality & Safety: Maximum connectivity, traceability, and ESD-safe operation guarantee high quality.

Includes: WXsmart unit, WXUPS MS soldering iron with RTUS 032 S MS active tip, WSR200 & WSR206 safety rest, WCTH cartridge tip holder

Order No: WXS2022

Dimensions L x W x H	6.90 x 6.06 x 5.70 in / 175 x 154 x 144 mm
Power	300 W
Temperature Accuracy	±9 °C / ±17 °F
Temperature Range	100 - 450 (550) °C / 200 - 850 (950) °F
Temperature Stability	±2 °C / ±4 °F
Voltage	120 V



WXR3002

3-CHANNEL REWORK STATION FOR ALL STANDARD APPLICATIONS

3-Channel Digital Rework Station handles soldering and desoldering of large and small SMT components, supporting up to three 200 W tools simultaneously, for a total of 600 W power.



- ✓ Used for soldering and desoldering of both large and small SMT components.
- ✓ 2 internal pumps provide the sources for hot air, desoldering vacuum and a vacuum pick up tool for a completely self-contained rework system.
- ✓ LCD display simultaneously monitors all parameters, connected tools and peripheral devices. Adjust parameter setting and other functions through menu.
- ✓ Compatible with all WX tools, accessories and peripherals.



Includes: WXR3 unit, WXHAP 200 hot air iron, WXDP 120 desoldering iron, WXP 120 soldering iron, WVP vacuum pick-up, safety rests: WSR 201/2077209, 502 plier

Order No: WXR3002N



Dimensions L x W x H	10.75 x 9.25 x 4.02 in
Capacity (l/min)	18 l/min
Interface	1x USB, 2x RS232, 2x Switching Output
Maximum Hot Air Flow Rate l/min	15 l/min
Noise level (distance 1 m) dB(A)	0.7 bar
Number of Channels	3
Overcurrent Release	2.0 A
Power	420 W (600 W)
Capacity (l/min)	18 l/min
Temperature Accuracy	±9 °C / ±17 °F
Temperature Accuracy for hot air	±30 °C / ±86 °F
Temperature Range	100 - 450 (550) °C / 200 - 850 (999) °F
Temperature Stability	±2 °C / ±4 °F
Tip Type	WX
Voltage	120 V

WX 2024 ULTRA MS

2-CHANNEL SOLDERING STATION FOR SIMULTANEOUS WORK OF 2 TOOLS WITH INTELLIGENT TOOL DETECTION

The world's most powerful 2-channel soldering station with 255 W total power (dual) and 200 W single.



- ✓ Touch Screen: Patented chemical and temperature-resistant capacitive glass
- ✓ Menu Navigation: Supports multiple languages
- ✓ Controller Functionality: Serves as a benchtop controller for WHP1000/WHP3000 heating plates
- ✓ Filtration Unit Control: Functions as a benchtop controller for ZeroSmog Guards
- ✓ USB Port: Multi-purpose for parameter configuration and data logging
- ✓ Compatibility: Works with all WX series soldering pencils

Includes: WX2 unit, WXUP MS Ultra soldering iron with active RTU 032 S MS tip, WSR 200 safety rest

Order No: WX2024N

Dimensions L x W x H	6.85 x 6.06 x 5.31 in
Equipotential Bonding Socket	Via 3.5mm Pawl Socket on Back of Device
Interface	1x USB, 2x RS232, 1x Switching Output
Number of Channels	2
Power	200 W (255 W)
Temperature Accuracy °C	± 9 °C / ±17 °F
Temperature Range (Depends on Tool)	94 - 538°C / 199 - 998°F
Temperature Range	100 - 450 °C / 200 - 850 °F
Temperature Stability	±2 °C / ±4 °F
Traceability	Yes
Voltage	120 V



WTHA1SR
HOT AIR STATION

- ✓ 900 W Hot Air Station for simple repair and heating tasks
 - ✓ Electronic controlled temperature
 - ✓ Up to 5 presets which can be automatically run in a profile
- Includes: safety rest and fixed hot air iron



Dimensions L x W x H	8.3 x 6.3 x 4.9 in
Capacity (l/min)	5 - 60 l/min (20°C) 5 - 110 l/min (300°C)
Equipotential Bonding	Yes
Equipotential Bonding Socket	Via 3.5mm Pawl Socket on Front of Device
Maximum Hot Air Flow Rate l/min (Depends on Tool)	50 l/min
Power	900 W
Temperature Accuracy °C	± 30 °C / ±54 °F
Temperature Accuracy for Hot Air	± 30 °C / ±54 °F
Temperature Range	50 - 600 °C / 100 - 1000 °F
Tip Type	WT
Voltage	120 V / 50 Hz



WATC100F
AUTOMATIC TIP CLEANER, FIBER BRUSHES

- ✓ Universal, fast cleaning of soldering tips and tweezers
- ✓ Optimum tip care, extends tip life
- ✓ Fiber brushes
- ✓ Automatic ON/OFF activation
- ✓ Different brushes for different cleaning intensities
- ✓ Light bar displays different modes / Brush LED offers interior lighting
- ✓ Splash guard

Optional: Unit with metal brushes: WATC100M



Power	50 W
Voltage	24 VDC
Dimensions L x W x H	5.55 x 4.33 x 5.16in



WSW SAC M1
1,0MM, 500G, SN3,0AG0,5CU3,5%

- ✓ Diameter: 1.0 mm / 0.039 inch, Weight: 500 g / 17.637 oz
- ✓ Alloy Sn96.5Ag3.0Cu0.5, Flux content 3.5%
- ✓ Universal solder wire for various applications
- ✓ Guaranteed 100% continuous flux core
- ✓ Reduced Fe leaching to increase tip life time and reduce tip consumption by up to 70%
- ✓ Reduced splash of flux & No-Clean flux



Order No: T0051386599



SD 1000
SD 1000 SOLDER DISPENSER

- ✓ Fast solder wire feed (solder wire unwinds smoothly)
- ✓ Exceptional stability thanks to high-quality metal base plate
- ✓ Optional attachment kit can be fitted (ABW 2) – for flexibility with choice of solder wire and saving space by stacking
- ✓ Possibility of potential equalization
- ✓ Suitable for solder wire reels up to 1kg
- ✓ Adjustable roller mount:
 - 1. Length 70 mm, internal diameter 12 mm
 - 2. Length 84 mm, internal diameter 12 mm
 - 3. Length 95 mm, internal diameter 15 mm

Order No: T0051301799N



Breathe Easy in a Healthier Working Environment

Weller ensures clean, contaminant-free air with advanced filtration systems designed for continuous industrial use. Equipped with high-performance filters, they effectively capture hazardous vapors, fine particles and viruses, ensuring a safe and healthy workspace for all.



ZEROSMOG SHIELD PRO FUME EXTRACTION

FOR DESKTOP APPLICATIONS WITH INTERMITTENT USE

The ZeroSmog Shield Pro benchtop soldering fume extraction system ensures clean air and a safe working environment when soldering. Its compact, stackable design saves space and optimizes your workplace.

- ✓ Efficient particle and gas filtration, odor removal for single workbench
- ✓ Powerful blower with adjustable extraction power
- ✓ Stackable with soldering stations of all brands (max. footprint 10.6 X 8.3 in)
- ✓ Connectable to various Weller soldering stations
- ✓ Easy filter change
- ✓ Illuminated work area, with filter status indication (red light)
- ✓ Low noise level of 50 dBA (59 dBA at full speed)
- ✓ Anti-static housing
- ✓ Features EPA E10 filter



Order No: FT91019299

Dimensions L x W x H	10.6 x 8.3 x 4.3 in
Mains supply voltage	120 V AC / 50/60 Hz
Operating voltage	24 V DC
Power consumption	20 W
Weight	2 kg
Safety Class	III
Combined Filter	E10 EPA / Activated carbon
Maximum vacuum	490 Pa
Maximum airflow	32 m³/h
Interface	RS232
Operating sound level from1 m distance	50 dBA (59 dBA at full speed)



ZEROSMOG GUARD 2 FUME EXTRACTION

FOR UP TO 2 WORKBENCHES - 24/7 USE

Weller's Zero Smog Guard under-table extraction systems provide quiet, state-of-the-art filtration for professional hand soldering around the clock. They protect health, provide clean air and create a comfortable, clean working environment with their compact design.

- ✓ Superior air quality via high-efficiency filtration of soldering particles and gases, with a large filter surface
- ✓ Lowest noise level ensures a healthy and comfortable working environment
- ✓ Convenient, fast, hassle-free replacement of both prefilter and main filter
- ✓ Space-saving, compact under-bench design ideal for single users
- ✓ Robust blower maintains strong suction pressure throughout the filter's life, ensuring effective smoke capture
- ✓ Features EPA E10 filter

Order No: FT91022299



Dimensions L x W x H	10.6 x 8.3 x 4.3 in
Mains supply voltage	120 V AC / 50/60 Hz
Operating voltage	24 V DC
Power consumption	146 W
Weight	7.6 kg
Safety Class	III
Combined Filter	HEPA H13
Maximum vacuum	2250 Pa/V
Maximum airflow	200 m³/h
Interface	RS232
Operating sound level from1 m distance	<55dB



WHP3000N

INFRARED PREHEATING PLATE 600W WITH EASY FIX BOARD HOLDER

- ✓ 2 heated zones can be selected
- ✓ Digital display for set and actual temperature
- ✓ External sensor (accessory) connectable
- ✓ RS 232 interface cable (e.g. for connection to WHA 3000 hot air station)
- ✓ Easy Fix board holder

Order No: WHP3000N

Dimensions L x W x H	10 x 15.55 x 2.76 in
Heating Plate Dimensions	7.48 x 4.72 in
Interface	1 x RS232, 1 x Thermocouple Type K
Equipotential Bonding Socket	Via 3.5mm Pawl Socket on Back of Device
Power	600 W
Temperature Range (Depends on Tool)	65 - 398 °C / 49 - 748°F
Temperature Range	65 - 398 °C / 150 - 750 °F
Temperature Stability	±2 °C / ±4 °F
Voltage	120 V, 50/60 Hz



WHP1000N

PREHEATING PLATE 1000W

Electrostatic Safety Certification

- ✓ Digital display for set and read temperature
- ✓ RS 232 interface cable (e.g. for connection to Weller hot air stations WHA 3000)
- ✓ Element Type K (accessory) connectable

Order No: WHP1000N

Dimensions L x W x H	10 x 15.55 x 2.76 in
Heating Plate Dimensions	5.91 x 8.66 in
Interface	1 x RS232, 1 x Thermocouple Type K
Power	1000 W
Temperature Range (Depends on Tool)	65 - 148 °C / 149 - 298°F
Temperature Range	50 - 300 °C / 150 - 570 °F
Tip Type	WX
UPC	037103304759
Voltage	120 V



WCU

TEMPERATURE MEASUREMENT & CALIBRATION

- ✓ Quick and accurate temperature measurements
- ✓ Digital display for fast temperature unit change between °C and °F, and other functionalities
- ✓ Device can easily be shared between different workstations
- ✓ Number of tip temperature measurement is automatically counted
- ✓ Effortlessly auto-calibrate in less than 10 seconds
- ✓ Auto Turn-off timer saves battery life shutting down the unit's power after 10 mins without use
- ✓ For use with: WX 1, WX 2, WXD 2, WXA 2, WXR 3, WXsmart

Order No: T0053450199

Dimensions L x W x H	10 x 15.55 x 2.76 in
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SOLDERING MAT

ANTI-STATIC ESD PREMIUM WORK STATION SOLDERING MAT

- ✓ Large work surface – 600 mm x 900 mm
- ✓ Typical bleeder resistance 106–108 ohms
- ✓ Permanently elastic, abrasion-resistant and comfortable
- ✓ Double-layer ESD table mat (dissipative/conductive)
- ✓ Chemical-, oil-, heat- and solder-resistant
- ✓ Anti-reflective surface makes your work easier
- ✓ Includes two 10 mm press stud connectors
- ✓ RoHS-compliant
- ✓ Set, comprising soldering mat and anti-static grounding strap (wrist strap + 2.4 m coiled cord)

Order No's:

Blue T0051403699	Grey T0051403799
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WELLER EREM

FEEL THE DIFFERENCE

Manufactured with uncompromising Swiss quality, and created especially for electronics applications, Weller Erem® tools are perfect for aerospace and defense applications. The signature high-performance cutters set the industry standard by providing over 1 million consistent precise and accurate movements. With state-of-the-art advanced features like Magic Spring™, High-Precision Screw Joint and Maximum Opening Stop Technology, Weller Erem Precision Tools provide the longest durability, highest precision and best quality on the planet.



Swiss
Made



2411PD

6" ESD SAFE INSIDE SERRATED ROUNDED JAW NEEDLE NOSE PLIERS

- ✓ Pliers for miniature and standard electronics
- ✓ Non-reflecting surface, ESD-safe
- ✓ Optimized ergonomically shaped handles for increased comfort
- ✓ Same as 2411P but with inside serrations



776E

4-1/4" SUPER FULL-FLUSH SHORT POINTED RELIEVED HEAD TIP CUTTER

- ✓ Made from high grade tool steel with tungsten carbide inserts along the cutting edges (over 80HRC). The precision cutters have a non-reflecting surface and are resharpenable.
- ✓ This is the narrowest head shape
- ✓ The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas



T622N

4-1/4" FLUSH OVAL HEAD SIDE CUTTER

- ✓ This is the most widely used head shape
- ✓ Versatile cutting solution for applications with convenient access points
- ✓ Robust size offers the highest cutting capacity



2422E

5" FLUSH OVAL HEAD SIDE CUTTER

- ✓ This is the most widely used head shape
- ✓ Versatile cutting solution for applications with convenient access points
- ✓ Robust size offers the highest cutting capacity
- ✓ The ergonomic handles and the special materials ensure a soft feel, operating comfort and safety



2422EB

5" FLUSH ROUND TIP TAPERED RELIEVED HEAD CUTTER

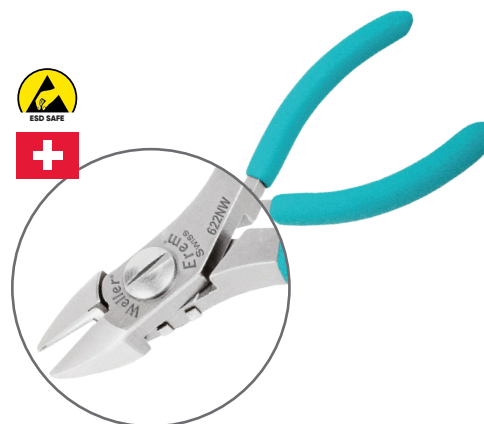
- ✓ Tapered head, rounded tip
- ✓ The narrow head with relieved lower section allows for easy access even in hard-to-reach areas



2432E

5" SUPER FULL-FLUSH OVAL HEAD SIDE CUTTER

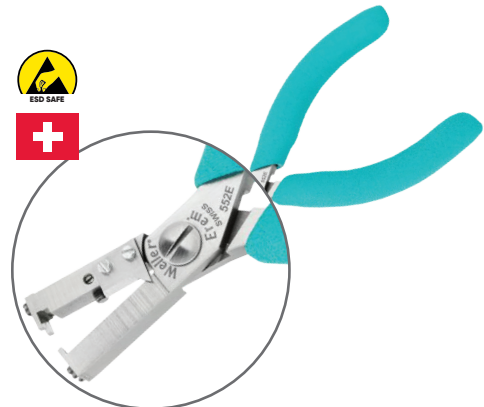
- ✓ This is the most widely used head shape
- ✓ Versatile cutting solution for applications with convenient access points
- ✓ It is robust and size for size offers the highest cutting capacity
- ✓ The ergonomic handle and special materials ensure a soft feel, operating comfort and safety



622NW

4-1/4" FLUSH OVAL HEAD SIDE CUTTER WITH WIRE HOLDER

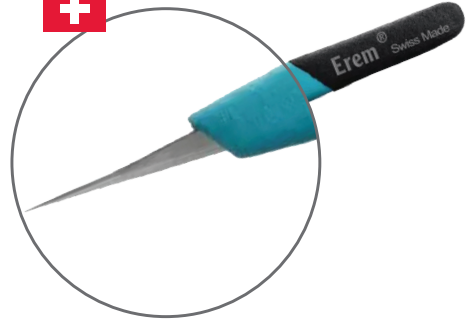
- ✓ This is the most widely used head shape
- ✓ Versatile cutting solution for applications with convenient access points
- ✓ Robust size offers the highest cutting capacity
- ✓ Safety device for holding wire scraps



552E

4-3/4" HIGH-PRECISION FRONT STRIPPING PLIERS

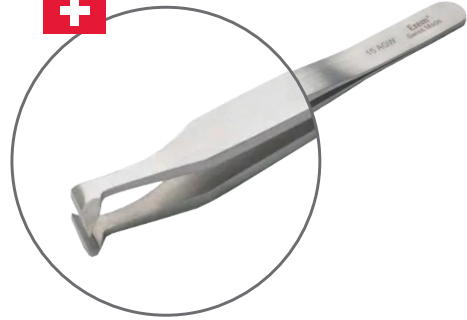
- ✓ Robust and high precision. For use in electronics and aeronautical engineering
- ✓ Screwdriver and key are included
- ✓ Interchangeable blades
- ✓ Unique precision for damage-free stripping of fine wires
- ✓ Suitable for all types of insulation, Teflon®, Tefzel and optical fibers



E3CSA

4-3/4" LONG STRAIGHT POINTED TIP ERGONOMIC PRECISION TWEEZERS FOR PRINTED CIRCUIT BOARDS

- ✓ This series offers models with thin shaped tips to suit every application
- ✓ Thermally insulated, soft foam handles
- ✓ Special stainless steel, non-magnetic, non-rusting, acid-proof and heat-resistant



15AGW

4-1/2" NARROW OBLIQUE HEAD CUTTING TWEEZERS FOR SOFT WIRES

- ✓ Suitable for cutting fine, soft wires and small components
- ✓ Delivers high-precision cuts
- ✓ Hardened cutting edges for long service life



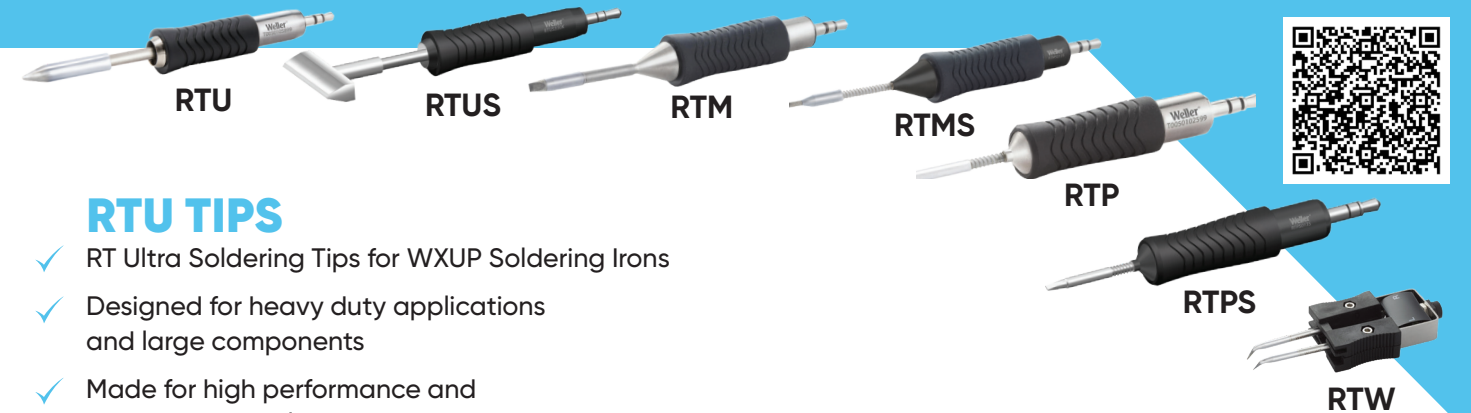
4SA

4-1/4" STRAIGHT VERY POINTED RELIEVED TIP PRECISION TWEEZERS

- ✓ For precision work (e.g. under a microscope)
- ✓ Relieved shape facilitates excellent access to the most confined spaces
- ✓ Special stainless steel, non-magnetic, non-rusting, acid-proof, heat-resistant

MILITARY STANDARD TIPS

MS (Military Standard or MIL-SPEC) soldering tips are based on Weller's innovative RT Active Tips, which feature an integrated heating element and control sensor directly in the tip. These advanced tips provide exceptional heat transfer, precise temperature stability and ultra-fast heat-up and response times. The MS versions go even further, offering potential-free operation and compliance with IPC standard TM-650 2.5.33, providing unparalleled protection for sensitive components. This makes them essential for military and high-reliability applications, ensuring maximum precision and safety in the most demanding safety-critical scenarios.



RTU TIPS

- ✓ RT Ultra Soldering Tips for WXUP Soldering Irons
- ✓ Designed for heavy duty applications and large components
- ✓ Made for high performance and heavy-duty applications
- ✓ Heat-up time from 7 secs.

RTM TIPS

- ✓ High performance active tips for micro and standard components
- ✓ Versatile performance covering the widest range of applications
- ✓ MIL-SPEC / IPC standard (potential free, MS versions)
- ✓ Heat-up time from 5 secs.

RTP TIPS

- ✓ For all Pico applications with smallest component sizes
- ✓ High performance active tip for the smallest components: 0402 down to 01005
- ✓ Maximum Precision: Short tip-to-grip distance and optimized tip shape provide maximum precision during the soldering process
- ✓ Heat-up time from 3 secs.

RTW TIPS

- ✓ Military Standard
- ✓ For miniature works which cannot be done with basic tools
- ✓ Combination of an excellent heat transfer together with a longer tip life
- ✓ Heat-up time from 3 secs.

RTUS SMART TIPS

- ✓ Smart high performance active tips for heavy duty and largest components: from 1612 (Component Size XL to XXL)
- ✓ Accurate data results with Tip-Offset Function
- ✓ Thermal Core Technology provides high power at the tip point
- ✓ Heat-up time from 7 secs.

RTMS SMART TIPS

- ✓ High performance active tips for micro and standard components
- ✓ Versatile performance covering the widest range of applications
- ✓ MIL-SPEC / IPC standard (potential free, MS versions)
- ✓ Heat-up time from 5 secs.

RTPS SMART TIPS

- ✓ For all Pico applications with smallest component sizes
- ✓ Extremely fast 3-second heat-up time for smallest applications
- ✓ Maximum Precision: Short tip-to-grip distance and optimized tip shape provide maximum precision during the soldering process



Weller
#PowerfulTogether

Advanced Tools and Technologies for Soldering and Reworking Aerospace & Defense Applications



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