

WXsmart

CONNECTING
THE FUTURE OF SOLDERING



Welcome to the world of WXsmart!

The all-in-one WXsmart hand soldering platform offers maximum traceability and connectivity. As the most connected, controlled and secured hand soldering solution in the world, WXsmart is connecting the future of soldering!

Explore the main benefits of WXsmart here:



CONNECT

Maximum connectivity, supporting IoT standards for full traceability with mobile-enabled, easy remote control access.



SMART

The all-in-one station acts as the brain of the workbench by consolidating all soldering applications into one station.



SAFE

The first system with built-in cyber-security to prevent costly downtimes.



CONTROL

Total Process Control (TPC) to manage your complete soldering process from tip to station.



**TOTAL
PROCESS
CONTROL**



WXsmart

Connecting the Future of Soldering

BOOK A
**FREE
DEMO!**

Book a free demo:
wxsmart@weller-tools.com

**Covers all
soldering applications**

- ✓ High precision soldering (Pico)
- ✓ General purpose soldering (Micro)
- ✓ Heavy duty soldering (Ultra)
- ✓ Desoldering
- ✓ Rework
- ✓ Hot Air

ROMEX



Multiple users

- ✓ Operators
- ✓ Supervisors
- ✓ Research & Development
- ✓ Repair Departments

Multiple industries

- ✓ Electronics
- ✓ Medical Device Manufacturer
- ✓ Aerospace
- ✓ Automotive
- ✓ LED and Solar Technology

WXsmart connect

Maximum connectivity, supporting IoT standards for full traceability with mobile-enabled, easy remote-control access.



Hardware & Interfaces



Total connectivity

- ✓ WiFi
- ✓ LAN
- ✓ USB
- ✓ 2 x RS 232

Easy Data transfer



Support of IoT standards

- ✓ Industry 4.0 ready
- ✓ Integration in existing systems for protocols

Weller Software



Realtime dashboard

- ✓ PC / Monitor
- ✓ Smartphone
- ✓ Tablet



Integration
in ERP System

Fast connection via
WiFi or cable



ASK AN
EXPERT

wxsmart@weller-tools.com

WXsmart — smart soldering

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

Full rework station for all applications from XS to XXL component sizes

- ✓ High precision soldering (Pico)
- ✓ General purpose soldering (Micro)
- ✓ Heavy duty soldering (Ultra)
- ✓ Hot air
- ✓ Rework
- ✓ Desoldering

Benchtop solution

The WXsmart is a centralized control unit acting as the brain of the workbench – by controlling multiple devices at the same time

- ✓ Rework Module WXair
- ✓ Fume extraction
- ✓ Preheating plate
- ✓ Soldering bath
- ✓ Calibration Unit

Intelligent irons

For multiple functions

- ✓ Visual process control
- ✓ Intelligent tool detection
- ✓ Up to 10 parameter settings which can be customized

Fast heat-up time:

 **3 sec.**
From 50°C to 350°C
From 120°F to 620°F

Intelligent soldering tips

New smart tips offer multiple new features thanks to the integrated chip in every soldering tip:

- ✓ Extremely fast heat-up time 3 sec with excellent heat transfer & recovery time
- ✓ Automatic tip identification
- ✓ Tip lock functionality for full process control
- ✓ Unique individual serial number for full traceability
- ✓ Tip off-set function
- ✓ Integrated data storage allowing full traceability for calibration history




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WXsmart smart soldering

Modularity

Backwards compatibility of tips and tools for soldering, desoldering and hot-air applications, ensures the security of your all-in-one station investment.



Security of your investment

Once invested in the WXsmart platform, the system can be expanded at will. Many tools that you already use can be easily connected. Thus we protect your investment and you are prepared for the future. With only one station.



WXHAP
Hot Air Iron

WXDP
Desoldering Iron

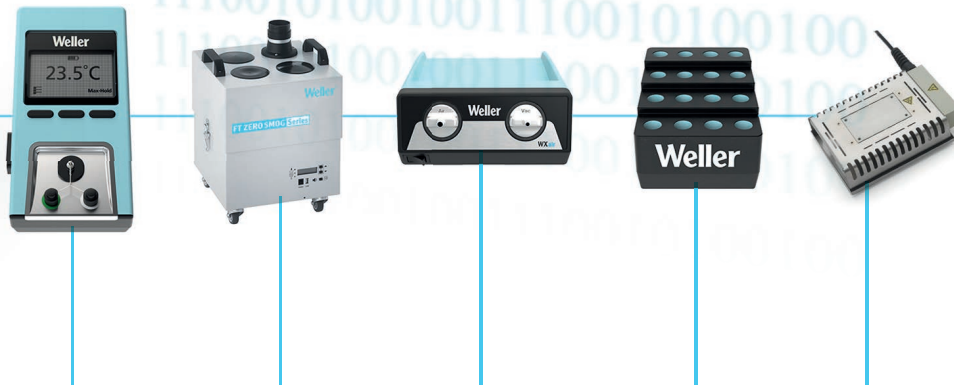
WXDV
Desoldering Iron

WXMT Tweezers

WXP65
Soldering Iron

WXMPSMS Pico and Micro
Soldering Iron

WXUPSMS Heavy Duty
Soldering iron



Calibration Unit WCU

Filtration
Zero Smog 4V & 6V

WX air Modul

Tip Holder WCTH

Preheating Plates

WXsmart control

Total Process Control (TPC) to manage your complete soldering process from tip to station



Control via new User Management

3 stages of User Management:

- ✓ Admin: Full Function Control & Total Access to connectivity features
- ✓ Unlocked User Full Function Control
- ✓ Locked User: Limited Access depending on task



Smart Control via WXsmart app

- ✓ Mobile monitoring with realtime power and temperature graph via tablet or mobile phone
- ✓ Temperature adjustments, iron on/off and color change
- ✓ Supervision via intuitive dashboard on PC monitor or control screens
- ✓ Remote Lock Function for
 - Smart Soldering Tools
 - Smart Soldering Tips



Control via own system (MES integration)

- ✓ MQTT Broker
- ✓ All parameters as JSON structure



The WXsmart station can be remotely controlled via Weller Smart Control App. With Total Process Control (TPC), the WXsmart offers maximum connectivity and traceability – desktop or remote via tablet or smartphone app.

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The first hand soldering system with built-in cyber-security to prevent costly downtimes



Highest Cyber Security

- ✓ Highest security standards (TLS encryption)
- ✓ Two-Factor authentication (2FA)

Less risks

- ✓ Running out from one device station in the system
- ✓ No data skimming in sensitive industries

Higher productivity and efficiency

- ✓ Cyber attacks can cause heavy and expensive damage
- ✓ Prevention of downtimes
- ✓ Less system / process failures
- ✓ Less production stop

Further safety benefits of WXsmart

Beyond cyber security, WXsmart offers additional safety factors in the soldering process as well as in handling:

- ✓ Heat-proof display – for damage protection
- ✓ Patented ESD safe
- ✓ Patented LED ringlights



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WXsmart — Auto-Calibration

Captures accurate data and documentation by automatically re-adjusting its soldering calibration for strong auditing.

WCU – Weller Calibration Unit in Weller High Precision Temperature Measurement Device



Makes calibration easier than ever before:

- ✓ High precision thermometer provides quick response of temperature measurement
- ✓ Integrated Calibration Counter
- ✓ Long Life Sensor (up to 50 measurements)
- ✓ Similar use of thermocross and thermocouple Typ K possible (two outputs)
- ✓ High mobility thanks to battery powered device

Main benefits using WCU

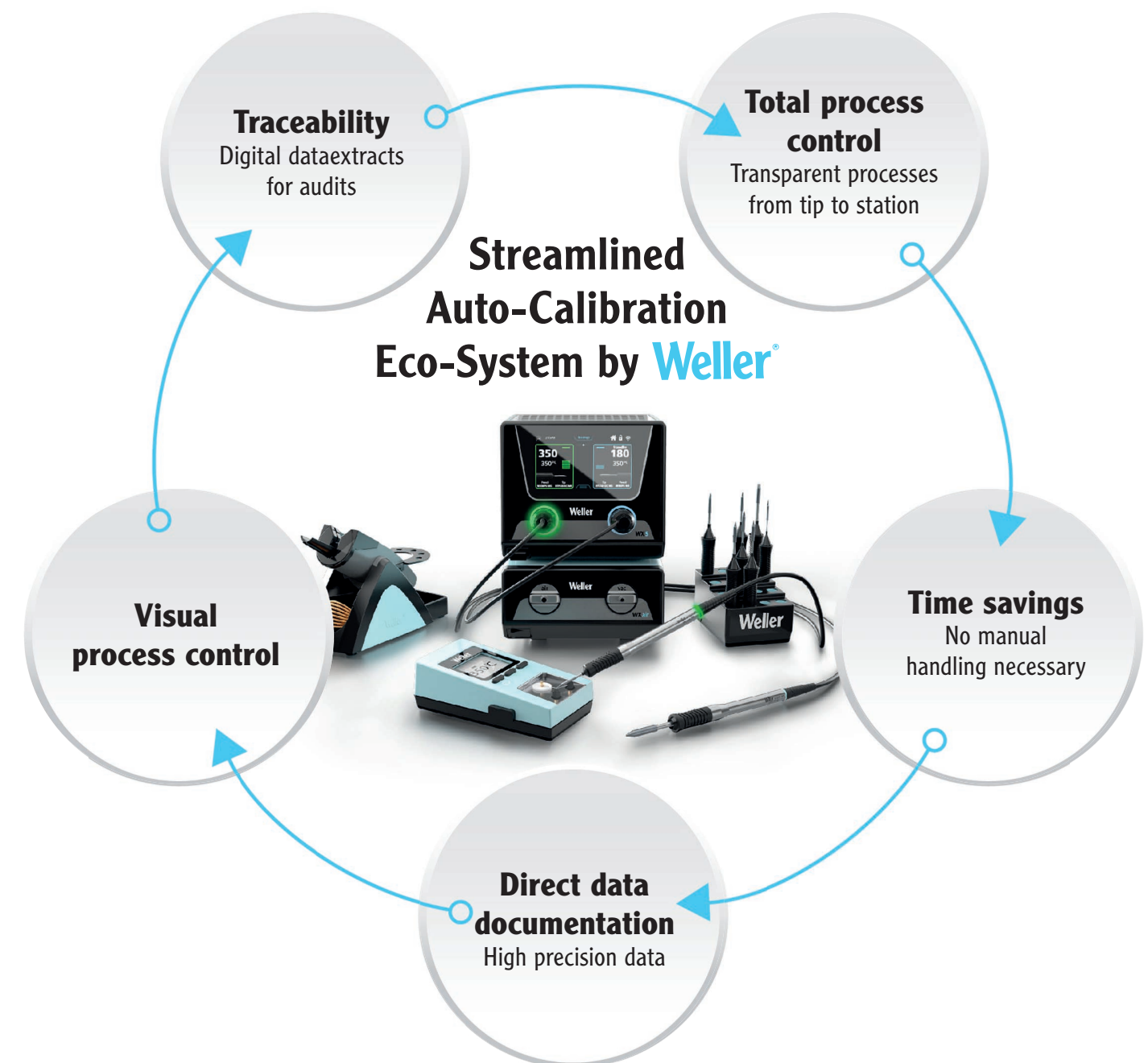
- ✓ Documentations for Audits and Quality Management
- ✓ Traceability of calibration process
- ✓ Real time data
- ✓ Calibration via RS232
- ✓ Automatic Tip Offset



Fast and Easy Measurement

Effortlessly auto-calibrate in less than 10 seconds, ensuring the operator can focus on the important soldering task with a precise temperature for best productivity.

This unique Auto Calibration Eco System of WXsmart and the Temperature Measuring and Calibration Device WCU is connecting the dataflow between different devices and works automatically, so no manual intervention is needed.



WXsmart

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TOTAL PROCESS CONTROL

The first all-in-one
soldering station

WXair HotAir &
Desoldering Module

Safety Rest

High Precision Temperature
Measurement Device

Tip Holder

Intelligent
Tips & Tools



Are you ready for
WXsmart?
CONNECTING
THE FUTURE OF SOLDERING



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ESD Solutions
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 Test & Measurement