

# WX smart

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](mailto:wxsmart@weller-tools.com)

**Covers all  
soldering applications**

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



- 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.



Integration in ERP System

Fast connection via WiFi or cable

## 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

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:



## 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



# 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
- WXMPMS 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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# WXsmart safe

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

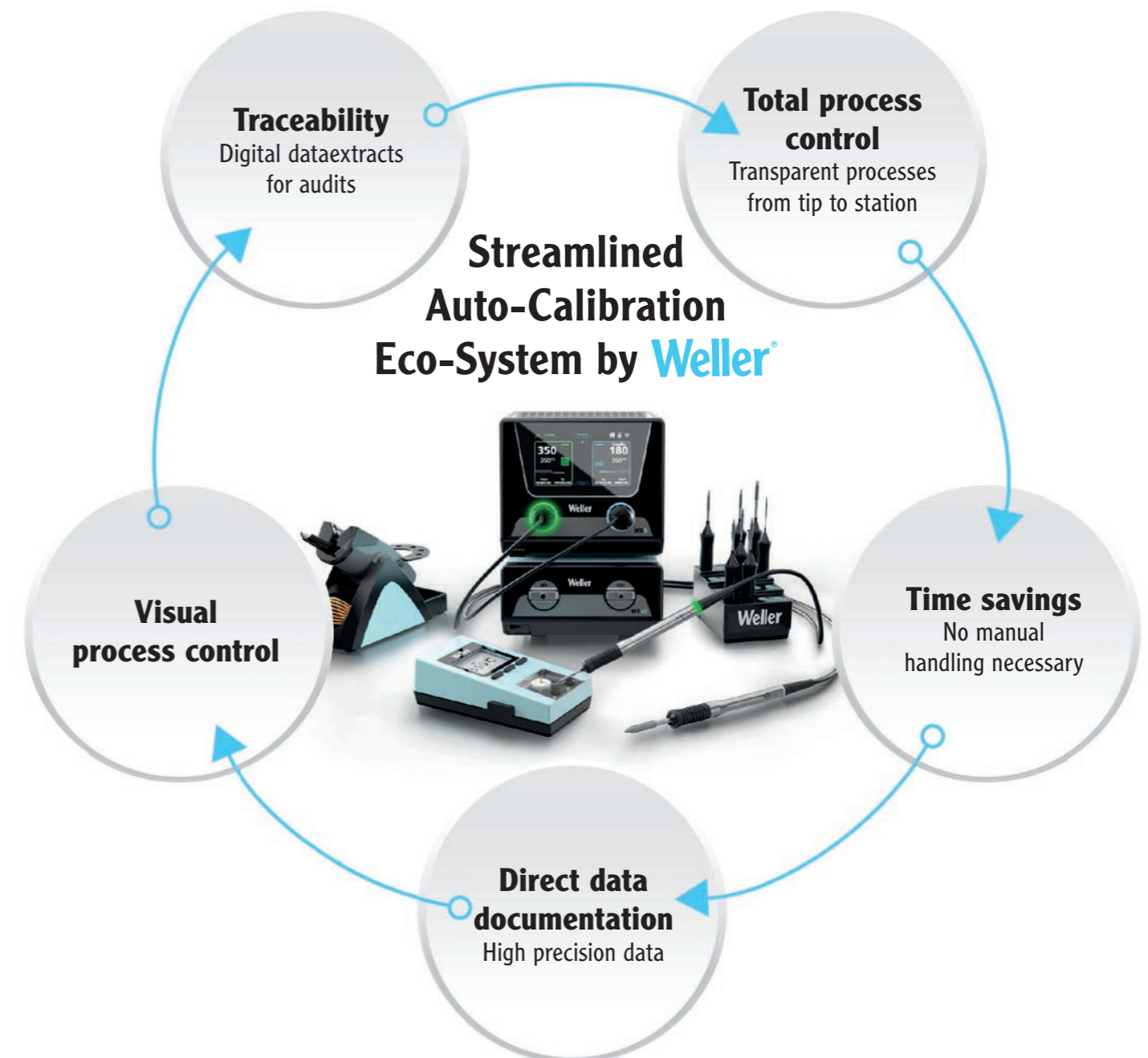
- ✓ Documentations for Audits and Quality Management
- ✓ Traceability of calibration process
- ✓ Real time data
- ✓ Calibration via RS232
- ✓ Automatic Tip Offset



### 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

## Connecting the Future of Soldering



### TOTAL PROCESS CONTROL

The first all-in-one  
soldering station

WXair HotAir &  
Desoldering Module

Tip Holder

Safety Rest

Intelligent  
Tips & Tools

High Precision Temperature  
Measurement Device



Are you ready for

# WXsmart?

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