

# Weller®

## W-Series (W 61, W 101, W 201)



Betriebsanleitung - Mode d'emploi - Gebruiksaanwijzing - Istruzioni per l'uso - Operating Instructions - Instruktionsbok - Manual de uso - Betjeningsvejledning - Manual do utilizador - Käyttöohjeet - Οδηγίες Λειτουργίας - Kullanım kılavuzu - Návod k použití - Instrukcja obsługi - Üzemeltetési utasítás - Návod na používanie - Navodila za uporabo - Kasutusjuhend - Naudojimo instrukcija - Lietošanas instrukcija - Ръководство за работа - Manual de exploatare - Naputak za rukovanje

Thank you for placing your trust in our company by purchasing the temperature-controlled WELLER W-series soldering irons. Production was based on stringent quality requirements which guarantee the perfect operation of the device.



## 1. Caution!

Please read these Operating Instructions and the attached safety information carefully prior to initial operation. Failure to observe the safety regulations results in a risk to life and limb.

The manufacturer shall not be liable for damage resulting from misuse of the machine or unauthorised alterations.

The temperature-controlled WELLER W-series soldering irons corresponds to the EC Declaration of Conformity in accordance with the basic safety requirements of Directives 2004/108/EC, 2006/95/EC and 2011/65/EU (RoHS)..

## 2. Description

The temperature-controlled WELLER W-series soldering irons are suitable for a broad range of demanding soldering applications on electrical components with extremely high heat sensitivity and are therefore ideal for use in industrial production and for maintenance work on electrical appliances. The industrial soldering irons of the W series have a solidly constructed heating element and a wide selection of "Longlife" soldering tips. The various power classes 60 W, 100 W, and 200 W provide the solution to a multitude of different soldering tasks. Temperature is controlled according to the WELLER Magnastat principle.

If the tip is cold, the permanent magnet is attracted by the ferromagnetic temperature sensor. This actuates the switch. As the sensor approaches the Curie point, it loses its ferromagnetic properties and can no longer hold the permanent magnet. The magnet is released and the switch returns to its off-position (the power supplied to the heating element is interrupted). If the tip cools slightly, the temperature sensor attracts the permanent magnet and power is supplied once again. The temperature sensors (Magnastats) have an extremely narrow distribution of switching temperatures and are not subject to any wear resulting from ageing or material fatigue.

An additional advantage of this design is that the soldering iron is switched off when the tip is changed. The heating element cannot therefore burn out if the soldering tip is removed.

**Table: Soldering tips 24.**

## 3. Commissioning

Bend the soldering iron stand using the enclosed bending template. Place the soldering iron in the safety stand. Ensure that there are no combustible objects in the immediate vicinity of the soldering iron. Check whether the mains voltage matches the connected load of the soldering iron. Insert the mains plug of the soldering iron into the mains socket. When the necessary heating-up time has elapsed, wet the soldering tip with a little solder. You can then begin soldering.

**Fig.: Bending instructions and bending template see page 25.**

## 4. Important

Do not allow the soldering tip to become seized up. Applying a thin layer of graphite to the end of the soldering tip and frequent withdrawal of the soldering tip prevents unwanted seizing up. The soldering tip should be cleaned using a water-soaked cleaning sponge. When the soldering iron is not in use, always place the soldering iron in the original stand. Ensure that the soldering tip is well tinned during breaks between soldering.

Do not pick the heating element up using pliers or tap it clean. Attaching the sleeve nut by hand (when the soldering iron is cold) is sufficient to secure the soldering tip.

## 5. Scope of Supply

Soldering iron

Stand

Operating instructions

Safety Information

**Subject to technical change without notice!**

**See the updated operating instructions at [www.weller-tools.com](http://www.weller-tools.com).**

### Technical Data

	Voltage*	Power output	Protection class	Standard tip (temperature)
W 61	230 V AC	60 W	I	CT5 B7 (370°C)
W 101	230 V AC	100 W	I	CT6 E7 (370°C)
W 201	230 V AC	200 W	I	CT2 F7 (370°C)

\* also available as 120 V model