Ersa DIGITAL 2000A-SOL Digital Soldering/Desoldering Station

SONA Technologies
reliable performance, dependable service

Power, Precision & Safety- ERSA DIGITAL 2000A offers the *best Bang for your Buck!*

The Ersa **DIGITAL 2000 A** is a top-class microprocessor controlled soldering station distinguished by its flexibility and multifunctionality. It is antistatic according to the MILSPEC/ESA standard and designed for industrial use where high quality is demanded and for repairs and laboratory applications.

The station can alternatively be operated with various soldering and desoldering tools. Besides the POWER TOOL and TECH TOOL universal soldering irons, the MICRO TOOL microsoldering iron, the CHIP TOOL desoldering tweezers and the X-TOOL desoldering iron can be connected.

The tools are automatically detected when inserted, and the control characteristics are adapted accordingly. The soldering and desoldering tips are then always connected with high impedance to the front-installed potential equalization socket.

The station is easy to operate and user-friendly. The desired temperatures, the unit of temperature (°C/°F), the standby time of 0 to 60 minutes, a tip offset and calibration feature and a three-character password-controlled lock can all be set with just three buttons and a simple menu guide. The energy feature allows you to influence the heat-up and reheating characteristics.

In addition, the soldering station has 4 programs. Each program can be separately and differently configured with the aforementioned functions. A fixed program is assigned to each soldering and desoldering tool. The station automatically changes the program in case of a tool change.

If only one tool is used, then all programs can be used with this tool. A 5th program slot contains a temperature measuring function. For this purpose the temperature sensor DIG207 is required.

The calibration feature allows the actual soldering tip temperature to be precisely adjusted to the temperature shown in the LED display. For this purpose a suitable soldering tip temperature measuring device, such as the Ersa DTM series is required. The Ersa DIGITAL 2000 A soldering station regulates the temperature through a digital PID algorithm, optimized for very precise and fast temperature control.

Features

- Standby time range: 0 ~ 60 minutes
- Digital Calibration Range: ± 50°C
- Energy Functions : E1 (minimun heating)
  E2 (medium heating)
  E3 (maximum heating)
- Password Function for access control

Scope of Supply (Model DIGITAL 2000A-SOL):

- DIGITAL 2000A Control Unit
- Vacuum Unit
- X-Tool Desoldering Iron
- Holder for Desoldering Iron
- Cleaning Sponge
- Power Tool Soldering Iron
- Soldering Tip
- Holder for Soldering Iron
- Cleaning Sponge

Features:

- Antistatic design
- Full-wave control
- VDE-GS, CE, VDE-EMC marks of conformity
- Potential equalisation
- 24 V small voltage for soldering irons
- Auto detection of tools
- Multiple tools can be used (soldering, desoldering, Thermal Tweezer, micro soldering)
- Standby Function : Switches the station to a lower temperature of 200degree if it has not been used over a preset period of time. Protect the soldering tip and reduces energy consumption.
- Tip Offset Function adapts the temperature measurement to the given soldering tip geometry/mass.
- Digital Calibration allows the display value to be adjusted to the actual tip temperature. The adjustable calibration range is ± 50°C
- Energy Function allows the user to influence the control characteristics of the station, so that heating and re-heating by the station can be adapted to the given area of application. E1: Minimum re-heating characteristics. E2: Stronger re-heating characteristics. E3: Maximum re-heating characteristics.

Technical Specifications:

| Parameters	Specifications
Main Control Unit	
Supply voltage	230 V~, 50-60 Hz
Secondary voltage	24 V~
Output	80 W
Control technology	SENSOTRONIC with digital PID behavior
Temperature range	continuous 50 °C – 450 °C/122 °F – 842 °F
Function display	4-character LED display with menu control
Cable	2 m PVC with device socket
Fuse	400 mA, delayed-action
Design	antistatic according to MIL-SPEC/ESA standard
POWER TOOL Soldering Iron	
Voltage	24 V~
Output	05 W/280 °C (536 °F) – 80 W/350 °C (662 °F)
Heat up rating	290 W
Heat up time	approx. 40 s (auf 280 °C/536 °F)
Weight (without cable)	approx. 50 g
Cable	1.5 m ultra-flexible, heat-resistant, antistatic
Design	antistatic according to MIL-SPEC/ESA standard
X-TOOL Desoldering Iron	
Voltage 24 V~	24 V~
Output	2 x 30 W/280 °C (536 °F) – 2 x 20 W/350 °C (662 °F)
Heat up rating	260 W
Heat up time	Peak dependent
Weight (incl. cable and tip)	approximately 240 g
Heating elements	2, 60 W each (at 350° C/662° F)
Temperature measurement	Ni-CrNi thermocouple
Starting vacuum	up to 800 mbar
Grip Desoldering	approx. 70 mm
Design	antistatic according to MIL-SPEC/ESA standard

# ERSA | Compatible Handpieces

POWER TOOL Soldering Iron

The POWER TOOL is an extremely sturdy soldering iron with high thermal output. The tool is superbly suited for soldering switches, cables and connectors, and for all soldering operations with major heat requirements.
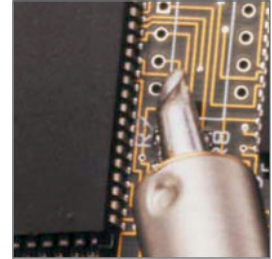
X-TOOL Desoldering Iron

The X-TOOL is a heavy-duty tool for the conventional desoldering of components. By simply exchanging the desoldering tips, you can quickly adapt the X-TOOL to any desoldering task.
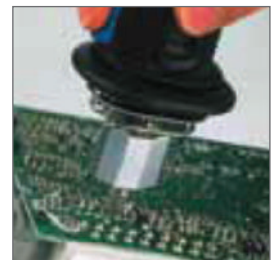
Standard Tips for POWER TOOL Soldering Iron

	Description	Tip Size	Part Number
	Conical type	0.4mm	0832UD
	Chisel type	1.6mm	0832YD
	Chisel type	2.2mm	0832CD
	Chisel type	3.2mm	0832ED
	Sloped type	4.0mm	0832NDLF
	SMD type	-	0832PW

Standard Desoldering Tips for X-Tool Desoldering Iron

	Description	Size (ID)	Size (OD)	Part Number
	Desoldering Tip	0.8mm	2.3mm	0722EN0823
	Desoldering Tip	1.0mm	2.3mm	0722EN1023
	Desoldering Tip	1.2mm	2.6mm	0722ED1226
	Desoldering Tip	1.5mm	2.9mm	0722EN1529