Ersa **DIGITAL 2000 A soldering station**

SAFE ersa PTC

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 MIL-SPEC/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 micro-soldering 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 (see page 33), 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.

All connectable soldering and desoldering devices have enormous power reserves thanks to the PTC heating elements located inside the tips.

At a peak temperature of 280 °C the following power is available, for example:

- POWER TOOL – 105 W
- TECH TOOL – 70 W
- MICRO TOOL – 30 W
- CHIP TOOL – 2 x 30 W
- X-TOOL – 120 W.

These power reserves also ensure safe and top-quality soldering and desoldering results.

All soldering and desoldering tools are operated at the low voltage of 24 V and have a highly flexible, heat-resistant and antistatic connecting cable.

For tip changes we recommend the tip exchanger 3ZT00164 with flat nose pliers and side cutter (see page 34).

DIG20A84

with POWER TOOL soldering iron and Ersa SENSOTRONIC control system
Soldering tip series 832 and 842 see page 42, fig. with 0A08MSET

POWER TOOL

with Ersa SENSOTRONIC control system
Soldering tip series 832 and 842 see page 42

TECH TOOL

with Ersa SENSOTRONIC control system
Soldering tip series 612 see page 43

MICRO TOOL

with Ersa RESISTRONIC control system
Soldering tip series 212 see page 44

CHIP TOOL

with Ersa RESISTRONIC control system
Desoldering tip series 422/452 see page 45

X-TOOL

with Ersa SENSOTRONIC control system
Desoldering tip series 722 see page 48

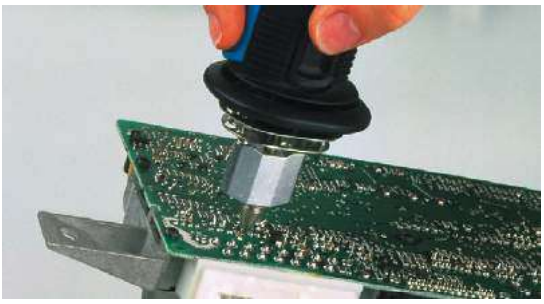
Ersa **DIGITAL 2000 A desoldering station with vacuum unit**

This desoldering station is suitable for removing residual solder and for desoldering wired components, even from multilayer PCBs. The station consists of the Ersa **DIGITAL 2000 A** described on page 24, a vacuum unit with the **X-TOOL** desoldering iron and the tool holder 0A44. The desoldering tip is heated by two PTC heating elements.

A thermocouple temperature sensor near the desoldering tip immediately reacts to any heat loss. Practically delay-free reheating is therefore ensured.

The vacuum to suck up the liquefied solder is immediately available when the push-button is pressed.

The recesses of the tool holder 0A44 allow exchanging inserted soldering tips, even when hot, without an additional tool.



X-TOOL with vacuum unit

with electronic station 0DIG203A and Ersa SENSOTRONIC control system
Desoldering tip series 722 see page 48

Figure with optional stacking rack

Order no.	Description	Rating/ Voltage	Heating time	Temperature range	Weight (w/o cable)
0DIG20A84	DIGITAL 2000 A electronic station, complete, with POWER TOOL soldering iron 0840CDJ with	80 W/230 V, 50 – 60 Hz/24 V 80 W (350 °C)	approx. 40 s (280 °C)	50 °C – 450 °C	1.25 kg approx. 50 g
1DIG20A840A67	soldering tip 0842CDLF and holder 0A42, complete	**80 W/115 V, 50 – 60 Hz/24 V**			
0DIG20A64	DIGITAL 2000 A electronic station, complete, with TECH TOOL soldering iron 0640ADJ with	80 W/230 V, 50 – 60 Hz/24 V 60 W (350 °C)	approx. 12 s (280 °C)	50 °C – 450 °C	approx. 50 g
1DIG20A640A67	soldering tip 0612ADLF and holder 0A42, complete	**80 W/115 V, 50 – 60 Hz/24 V**			
0DIG20A27	DIGITAL 2000 A electronic station, complete, with MICRO TOOL soldering iron 0270BDJ with	80 W/230 V, 50 – 60 Hz/24 V 20 W (350 °C)	approx. 50 s (280 °C)	150 °C – 450 °C	approx. 25 g
1DIG20A270A67	soldering tip 0212BDLF and holder 0A42, complete	**80 W/115 V, 50 – 60 Hz/24 V**			
0DIG20A45	DIGITAL 2000 A electronic station, complete, with CHIP TOOL desoldering tweezers 0450MDJ with	80 W/230 V, 50 – 60 Hz/24 V 2 x 20 W (350 °C)	subject to tips	150 °C – 450 °C	approx. 75 g
1DIG20A450A67	tips 0452MDLF020 and holder 0A43, complete	**80 W/115 V, 50 – 60 Hz/24 V**			
0DIG20AXT	DIGITAL 2000 A electronic station, complete, with vacuum unit 0CU103A (vacuum 800 mbar max.), X-TOOL desoldering iron 0720EDJ with tip 0722ED1226	80 W/230 V, 50 – 60 Hz/24 V 45 W 2 x 60 W (350 °C)	subject to application	50 °C – 450 °C	1.25 kg approx. 240 g*
1DIG20AXT0A67	and holder 0A44, complete	**80 W/115 V, 50 – 60 Hz/24 V**			

* incl. tip and cable

Ersa **SMD 8014 tip holder**

The **SMD 8014** tip holder is equipped with the latest soldering tips or desoldering tip pairs, in particular for SMD technology. Tips can be stored neatly arranged in a space-saving way for quick access.

The range of soldering tips and desoldering tip pairs with the component-specific dimensions can be found on pages 40, 41 and 46.

All soldering tips and desoldering tip pairs are manufactured according to the ERSADUR process. They have excellent thermal conductance and a long service life.

Further tip holders at our website:

Ersa SMD 8014

Soldering tip series 102 see page 40/41, desoldering tip series 422 and 452 see page 45

Order no.	Description	Equipped with ERSADUR soldering tips	Equipped with ERSADUR desoldering tips
0SMD8014	SMD 8014 tip holder, complete	0102PDLF04, ...PDLF10, ...CDLF12, ...CDLF16, ...WDLF16,...WDLF23, ...BDLF20 and tip fastener 3IT1045-00 (green version) for i-TOOL, complete	0422SD, 0452EDLF060, ...FDLF100, ...FDLF150, ...MDLF020, ...QDLF100, ...QDLF175