

# Catalog 2008

Soldering Irons, Soldering / Desoldering Stations, Solder Fume Extraction, Hybrid Rework, Workbench Accessories



# **Our Vision**

# Our competitive lead in technology optimizes quality, costs and delivery service in our customers' production process.

# **Our Mission**

- We develop and produce high quality machines and systems for the production of electronics.
- We offer services and complete solutions designed to optimize our customers' production processes.
- We think globally and act locally.
- As a company with tradition, we strive for long-term relationships with our customers, partners and employees.
- Our core focus is to business areas where we can prove to be "Best in Class" as compared to third parties.
- We strive for above average economic success in order to guarantee the continuing development and innovative strength of our company.







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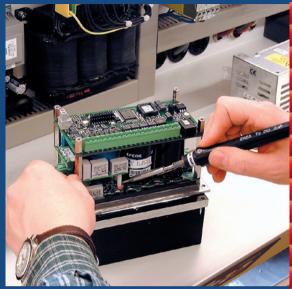
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# **Soldering Irons & Sets**









The success story of ERSA soldering irons started in 1921 when the company's founder Ernst Sachs applied for patent for the first electric soldering iron.

Today, the soldering irons and sets, high-speed soldering irons and gas powered soldering irons have proven their merit many times over throughout the world, always providing the fitting solution for various applications.



The Minor S (5 W) and Minityp S (6 W) miniature soldering irons with ERSA-DUR tips are suitable for the finest-detailed soldering work on micro-circuits. The Minor can be operated with a 6 V transformer or a 6 V battery. Besides electronics, the Minor can also be used in watch repair, in the photographic industry and in dental technology. The Minityp can be oper-

ated with a 12 V battery.

The ERSA Multitip series covers a wide range of applications. It stands out by its low weight and compact design (short distance between soldering tip and the handle's front part). The handle stays relatively cool while soldering. The Multitip is available for 15 and 25 W and suitable for both micro-soldering joints and medium-sized soldering, as on distributor strips. Long-life and industrially tested PTC heating elements and internally heated soldering tips provide high efficiency and fast heat supply.

Tip 260 is also heated in this especially efficient way. 16 W power and slim design make this soldering iron an ideal aid when working on electronic assemblies in places difficult to access.

Thanks to its large range of tips, the ERSA Multi-Pro is the ideal soldering iron when great flexibility is required. The device has a heatresistant connecting cable. Internally heated tips provide a high level of efficiency. ERSA 30 S, the best selling and most tried and tested universal soldering iron, is known the world over for its sturdiness and longevity. It can be used in a variety of ways for soldering tasks in handicrafts, service and hobbies. Delivery includes a practical, easily mounted rubber stick-on support disk. The ERSA 30 S is also available with 40 W.

# **ERSA Miniature Soldering Irons**



Order no.	Description	With soldering tip	Rating / Voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0045BDG	Minor S soldering iron	0042BD, ERSADUR	5 W / 6 V	12 s	approx. 440 °C	6 g
0015BDH	Minityp S soldering iron	0012BD, ERSADUR	6 W / 12 V	20 s	approx. 390 °C	7 g

# **ERSA Microsoldering Irons**



Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0910BD	Multitip C15 soldering iron	0162BD, ERSADUR	15 W / 230 V	approx. 60 s	approx. 350 °C	28 g
0920BD	Multitip C25 soldering iron	0172BD, ERSADUR	25 W / 230 V	approx. 60 s	approx. 450 °C	34 g
0260BD	Tip 260 soldering iron	0162BD, ERSADUR	16 W / 230 V	approx. 60 s	approx. 350 °C	40 g

# **ERSA Universal Soldering Irons**



\*also available with heat-resistant cable, order no. 0330KD0028

Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0930CD	Multi-Pro soldering iron	0832CDLF, ERSADUR	20 W / 230 V	approx. 5 min	approx. 430 °C	60 g
0330KD*	ERSA 30 S soldering iron	0032KD, ERSADUR	30 W / 230 V	approx. 2 min	approx. 380 °C	80 g
0340KD	ERSA 30 S soldering iron	0032KD, ERSADUR	40 W / 230 V	approx. 2 min	approx. 420 °C	80 g

# **ERSA Standard Soldering Irons**

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Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0055JD	ERSA 50 S soldering iron	0052JD, ERSADUR	50 W / 230 V	approx. 3 min	approx. 400 °C	160 g
0085JD	ERSA 80 S soldering iron	0082JD, ERSADUR	80 W / 230 V	approx. 3 min	approx. 410 °C	220 g
0155JD	ERSA 150 S soldering iron	0152JD, ERSADUR	150 W / 230 V	approx. 3 min	approx. 450 °C	245 g

# The t

The tried and proven soldering irons of the ERSA 50 S / 80 S / 150 S series are designed for soldering operations with a greater heat requirement, as, for example, on copper conductors with a cross-section of 2.5 mm² (ERSA 50 S, 50 W) to 6 mm² (ERSA 150 S, 150 W).

The devices are supplied with an angled soldering tip as standard. Thanks to their elaborately generated "protective coating", ERSADUR tips have a much longer service life than their simple mates.

Other areas of application of the ERSA standard soldering irons include soldering thin sheet metal and lead glazing (ERSA 150 S).

# **ERSA Workshop Soldering Irons**



Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	(w/o cable)
0200MZ	ERSA 200 hammer soldering iron	0202MZ, nickel-plated	200 W / 230 V	approx. 5 min	approx. 470 °C	550 g
0200MD	ERSA 200 hammer soldering iron	0202MD, ERSADUR	200 W / 230 V	approx. 5 min	approx. 470 °C	550 g
0300MZ	ERSA 300 hammer soldering iron	0302MZ, nickel-plated	300 W / 230 V	approx. 5 min	approx. 470 °C	870 g
0300MD	ERSA 300 hammer soldering iron	0302MD, ERSADUR	300 W / 230 V	approx. 5 min	approx. 470 °C	870 g
0550MZ	ERSA 550 hammer soldering iron	0552MZ, nickel-plated	550 W / 230 V	approx. 7 min	approx. 600 °C	1,770 g
0550MD	ERSA 550 hammer soldering iron	0552MD, ERSADUR	550 W / 230 V	approx. 7 min	approx. 600 °C	1,770 g

The ERSA 200, 300 and 550 hammer soldering iron series are especially suitable for sheet metal processing, installation work and for soldering commutators and copper bus bars.

Hammer soldering irons have also proven their merit in automotive body adjustments and lead glazing.





# **ERSA High-Speed Soldering Irons**

The ERSA Multi-Sprint is an extremely light, transformerindependent solder gun with a heat-up rating up to 150 W and an ergonomic design.

In combination with the internally heated ERSADUR longlife soldering tip, the Multi-Sprint's PTC heating element offers especially high performance. The short heat-up time makes it ideal for high-speed series soldering. The Multi-Sprint is heated only as long as the button is pressed.

The large selection of tips of the 832 / 842 series affords a wide range of applications, and not just in service and

The ERSA Multi-TC is a

with power up to 150 W.

Examples are classical lead

glazing and Tiffany methods.

By dispensing with a heavy

transformer and thanks to its

cable, the ERSA Multi-TC is

especially suitable for mobile

use in service, maintenance

and repairs.

heat-resistant connecting

powerful, sturdy, temperaturecontrolled universal soldering



Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0960ED	Multi-Sprint solder gun	0832EDLF, ERSADUR	150/75 W / 230 V, 50 - 60 Hz	approx. 20 s	subject to how long the button is pressed	100 g

**ERSA Power Soldering Iron with Temperature Control** 

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iron with a precise temperature sensor located directly under the internally heated soldering tip. This temperature sensor Multi-TC registers the actual temperature in the immediate vicinity 832 / 842 soldering tip series see page 38 / 39 of the solder joint. The heating system can then immediately react to the heat loss and reheat extremely fast. The high preheating power with the internal PTC heating element provides unusually fast heating. The high heating efficiency and the large selection of soldering tips and inserts serve both filigree applications in electronics and applications with standard soldering irons



The 832 / 842 soldering tip series make the Multi-TC a proper all-rounder

SENSOTRONIC >

Order no.	Description	With soldering tip	Rating / voltage	Heating time	Max. soldering tip temperature	Weight (w/o cable)
0760CD	Multi-TC soldering iron	0842CD, ERSADUR	75 W at 350 °C / 230 V, 50 - 60 Hz	approx. 34 s	250 °C - 450 °C	60 g

# **ERSA Independent 75 Gas Soldering Sets**



#### Independent 75 Profi-Set

consisting of

Independent 75 gas soldering iron with soldering tip 0G072KN, 0G072CN, soldering tips 0G072AN and 0G072VN, flame nozzle 0G072BE, hot gas nozzle 0G072HE, hot blade 0G072MN and deflector 0G072RE to shrink heat-shrinkable sleeves, tool holder 0A20, cleaning sponge 0006G and sponge container 0G156 packed in a practical plastic case. G 072 soldering tip series see page 44



Independent 75 Basic-Set

Independent 75 gas soldering iron with

0G072CN, holder 0A20, cleaning sponge

and sponge container, packed in a practical

soldering tips 0G072KN and

consisting of

plastic case.

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Order no.	Description	With soldering tips	Rating	Heating	Max. soldering	Weight
		0G072		time	tip temperature	
0G07400041	Independent 75 Basic-Set gas soldering set	KN;CN	15 - 75 W	approx. 46 s (280 °C)	approx. 580 °C	73 g
0G07400141	Independent 75 Profi-Set gas soldering set	KN;CN;AN;VN; BE;HE;MN;RE	15 - 75 W	approx. 46 s (280 °C)	approx. 580 °C	73 g

#### Mobile power – wherever you want! Powerful, with comprehensive and top-quality equipment, small, handy and practically packed. The gas soldering Independent 75 Basic Set and Profi Set will meet your every need! The ergonomic, antistatic gas soldering iron with piezo ignition is ideal for service and maintenance work, especially if there is no power supply available! The continuously adjustable output of 15 - 75 W (compared with electrical soldering irons) allows maximum soldering tip temperatures of up to 580 °C. The Independent is powered by ordinary butane as used in gas lighters. Operating time per gas filling is about 60 min. Both sets come with a practical carrying case. Besides the standard "Basic Set" equipment, the "Profi Set" contains two additional soldering tips, a hot blade for cutting highresistance foam, a hot-gas nozzle, a deflector for heatshrinkable sleeves and a flame

# **ERSA Independent 130 Gas Soldering Sets**



### Independent 130 Profi-Set

Independent 130 gas soldering iron with soldering tip 0G132KN, soldering tips 0G132CN, 0G132AN and 0G132VN, flame nozzle 0G132BE, hot gas nozzle

0G132HE, hot blade 0G132MN and deflector 0G132RE to shrink heat-shrinkable sleeves, cleaning sponge 0006G and sponge container 0G156 packed in a practical plastic case. G 132 soldering tip series see page 44



Order no.	Description	With soldering tips 0G132	Rating	Heating time	Max. soldering tip temperature	Weight
0G13400041	Independent 130 Basic-Set gas soldering set	KN;CN	25 - 130 W	approx. 50 s (280 °C)	approx. 580 °C	121 g
0G13400141	Independent 130 Profi-Set gas soldering set	KN;CN;AN;VN; BE;HE;MN;RE	25 - 130 W	approx. 50 s (280 °C)	approx. 580 °C	121 g

The "big" gas soldering device from ERSA, the Independent 130, can be applied wherever demanding soldering tasks have to be performed without a power supply.

Its broad range of contin-

uously variable 25 - 130 W (compared with electrical

soldering irons) and its com-

prehensive line of soldering

tips allow a wide variety of

uses in service, installation,

maintenance and repair work.

The piezo ignition integrated

by ordinary gas lighter butane

in the device and powering

ensure the easiest possible

handling and great reliability.

The operating time per gas

filling is about 120 minutes,

with a maximum soldering

tip temperature of about

580 °C.

nozzle for micro-welding.

Independent 130 Basic-Set consisting of Independent 130 gas soldering iron with soldering tips 0G132KN and 0G132CN, cleaning sponge and sponge container packed in a practical plastic case

CE AS



Like its smaller mate, the Independent 75, the Independent 130 is also available in both set versions, namely as a Basic Set or Profi Set.



#### **Solder Baths**



ERSA does not only provide a wide range of standard soldering irons, it is also the first choice when it comes to static solder baths and fitting temperature regulator.







Order no.	Description	Rating / Voltage	Temperature	Dimensions in mm (L x W x D)	Capacity	Weight	Heating elements
0T55	Solder bath T 50 S	65 W / 230 V	300 °C	28 x 20 x 13	approx. 40 g	370 g	1 pc. 0051T001
0T56	Solder bath T 10 S	130 W / 230 V	340 °C	60 x 30 x 25	approx. 185 g	615 g	1 pc. 0151B0
0T02	Solder bath T 02	240 W / 230 V	600 °C	25 Ø; 47 D	approx. 125 g	1,200 g	1 pc. 0241T0
0T03	Solder bath T 03 <sup>2</sup>	360 W / 230 V	430 °C	100 x 30/151 x 55	approx. 1,000 g	2,300 g	2 pcs. 05X100
0T04	Solder bath T 04	400 W / 230 V	410 °C	52 x 52 x 84	approx. 1,900 g	3,900 g	4 pcs. 05X100A1
0T05	Solder bath T 05	500 W / 230 V	440 °C	86 x 68/20 <sup>1</sup> x 90	approx. 2,850 g	3,400 g	2 pcs. 08X800
0T06	Solder bath T 06	1,000 W / 230 V	560 °C	120 x 80 x 60	approx. 4,800 g	5,200 g	6 pcs. 05X100P2
0T07	Solder bathT 07	1,200 W / 230 V	600 °C	90 x 90 x 100	approx. 6,400 g	5,500 g	4 pcs. 08X800A5
0T11	Solder bath T 11	1,600 W / 230 V	450 °C	300 x 60 x 50	approx. 7,500 g	8,000 g	8 pcs. 05X100A3

<sup>1</sup> tapered solder pot; 2 VDE-tested, all other solder baths are produced according to VDE standards

ERSA solder baths are electrically heated melting pots for solders. The high-capacity ceramic heating elements are exchangeable and mounted on the pot. They are thermally insulated from the external sheet metal housing. The T 02, T 03, T 04, T 05,

T 06 and T 07 solder baths can be switched to half-power operation. Thanks to the high temperature of approximately 600 °C the **T 02** and **T 07** baths are especially suitable for tin plating enameled copper wires.

All solder baths are supplied with a 1.5 m connecting cable. To enhance solder quality as well as to reduce oxide formation, and for energy-saving reasons, we recommend the RA 4500 D temperature regulator together with one of the temperature sensors mentioned below.

The T 50 S / T 10 S small solder baths are primarily used for tin-plating stranded wire braids, connecting leads and cable lugs. The heat resistant special color (order no. 4HMFARBE1) can be applied to the crucible as a proctection against corrosion and wetting.



# **ERSA RA 4500 D Temperature Regulator**



#### RA 4500 D

A microprocessor sets new standards with regard to the temperature regulator's functions and provides comfortable operation of the RA 4500 D.

Order no.	Description	Connected load / voltage	Tolerance	Temperature range	Switch
0RA4500D	Temperature regulator	3,000 W / 230 V, 50 - 60 Hz	max. ±2 %	50 °C - 600 °C	2-position with P-characteristics
0F007	Temperature sensor, 8 mm ø				
0F008	Long-life temperature sensor, 3 mm ø				

The **RA 4500 D** temperature regulator can be operated with various solder baths. The solder baths can be connected to the regulator through simple plug connectors. With its five operating programs, the RA 4500 D's easy program selection allows the user to change quickly between different solder baths. The station can also be used for simple temperature measurements (Pr5) by means of the temperature sensor (option). Its wide variety of features and great control precision (especially with ERSA solder baths) makes the RA 4500 D especially suitable for production processes with high quality requirements.

# **Soldering & Desoldering Stations**







High-tech soldering and desoldering, diverse applications and high-precision: easily attained with ERSA top-quality products.

Precise temperature measurement near the soldering tip and a microprocessor controlled heating system will guarantee safe lead-free soldering at low temperatures in the future. The ERSA soldering stations' high capacity ensures superior reheating. Even high-mass soldering can be carried out without problems.

# **ERSA RDS 80 Soldering Station**





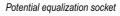
### RDS 80

with RT 80 soldering iron, ERSA RESISTRONIC control system 832 and 842 series see page 38 / 39



Order no.	Description	Rating / Voltage	Heating time	Temperature range	Weight (with cable)
0RDS80	RDS 80 soldering station complete	80 W / 230 V, 50 - 60 Hz /24 V		150 °C - 450 °C	
	with RT 80 soldering iron 0890CDJ, soldering tip	105 W (280 °C)	approx. 40 s (280 °C)		approx. 130 g
	0842CD and tool holder 0A39				







Application example



Multifunctional display



RT 80: very slim soldering iron featuring a large selection of soldering tips

control, tried and proven for many years and now with **80 W** heating power.

The ceramic PTC heating element (positive temperature

The ERSA **RDS 80** digital soldering station offers ERSA

RESISTRONIC temperature

coefficient) acts as the temperature sensor in this control system and ensures extremely fast heating thanks to the high initial output.

The very high heating power and the large selection of sol-

The very high heating power and the large selection of soldering tips allow a very wide range of applications.

The heating system with the internally heated soldering tips has a high thermal efficiency. The redesigned ergonomic handle, the new housing design and the large, digital multifunctional display don't leave much to be desired.

Besides the arbitrary temperature selection between 150 °C and 450 °C, 3 fixed temperatures or 2 fixed temperatures and one stand-by temperature can be programmed.

The device also has a calibrating and power-off feature, in addition to a power bar graph display. The potential equalization socket (with an integrated 220 k $\Omega$  resistor) allows the soldering tip to be equalized with the workplace potential.

The RT 80 soldering iron has a sprayed-on, flexible PVC connecting cable; for changing the tips we recommend tip changing tool 3ZT00164 (see page 30).



The electronically temperature-

controlled ERSA ANALOG

60 A soldering station is anti-

# **ERSA ANALOG 60 Soldering Station**

The electronically temperature-controlled ANALOG 60 soldering station is the basic model of the ERSA soldering station series. It has the tried and proven ERSA RESISTRONIC temperature control technology, with the ceramic PTC heating element serving as the temperature sensor. The high initial power enables fast heat-up.

The large selection of soldering tips allows a broad range of applications. The internal heating provides high thermal efficiency. A front-installed socket with integrated, high-impedance allows potential equalization between the soldering tip and the work-place.

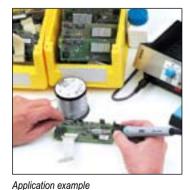
The device is primarily used for smaller and medium-sized solder joints. The low-voltage operated soldering iron Basic Tool 60 has a highly flexible, heat-resistant connecting cable.



#### **ANALOG 60**

with Basic Tool 60 soldering iron, ERSA RESISTRONIC control system 832 and 842 soldering tip series see page 38 / 39

Order no.	Description	Rating / Voltage	Heating time	Temperature range	Weight (w/o cable)
0ANA60	ANALOG 60 soldering station complete	60 W / 230 V, 50 - 60 Hz / 24 V		150 °C - 450 °C	
	with Basic Tool 60 soldering iron 0670CDJ, with	60 W (at 350 °C)	approx. 60 s (280 °C)		60 g
	soldering tip 0832CDLF and tool holder 0A41				





Application example



Basic Tool 60 with powerful PTC heating element

# **ERSA ANALOG 60 A Soldering Station**



#### ANALOG 60 A

with Ergo Tool soldering iron, ERSA RESISTRONIC control system 832 and 842 soldering tip series see page 38 / 39

Order no.	Description	Rating / voltage	Heating time	Temperature	Weight
				range	(w/o. cable)
0ANA60 A	ANALOG 60 A soldering station complete	60 W / 230 V, 50 - 60 Hz / 24 V		150 °C - 450 °C	
	with Ergo Tool soldering iron 0680CDJ, with	60 W (at 350 °C)	approx. 60 s (280 °C)		60 g
	soldering tip 0832CDLF and tool holder 0A42				







Application example

Application example

Dry sponge for dry tip cleaning



Ergo Tool: slim and ergonomic soldering iron

static according to the MIL-SPEC / ESA standard and has all the positive features of the ERSA ANALOG 60.

It has the tried and proven ERSA RESISTRONIC temperature control technology based on the ceramic PTC heating element and the fast heat-up characteristics.

Internally heated tips guarantee high thermal efficiency. The unusually wide range of tips allows a varied range of applications. The front-installed potential equalization socket is connected with high impedance to the soldering tip.

The light and slim Ergo Tool soldering iron has a highly flexible, heat-resistant and antistatic connecting cable.

The ANALOG 60 A soldering station is especially suitable for producing small and mediumsized solder joints. For tip changing we recommend the tip exchanger 3ZT00164 with an additional flat nose pliers and side cutter (see p. 30).



ERSA has succeeded in design-

# **ERSA i-CON1 Soldering Station**

Guaranteeing quality in a lead-free environment puts the greatest demands on hand soldering applications.

Today's hand soldering operators expect a great deal from a state-of-the-art hand solder tool: a small and lightweight, ergonomically designed hand tool that does not get too hot during use, maximum power and efficiency for rapid heat-up and recovery during soldering, fast and easy tip change, as well as easy-to-use station operation and programming.

Today's QA and purchasing managers, however, have much different concerns. In order to guarantee quality, soldering stations must be designed for superior performance. The higher working temperatures and smaller process windows for lead-free hand soldering demand precise temperature control of the soldering tip and rapid heat recovery of the heating element in order to prevent cold solder joints. Low-cost, long-life soldering tips are a must from a running cost efficiency standpoint and are the major concern for the purchasing department.

To meet this challenge, ERSA is proud to introduce its newest technology for a state-of-the-art soldering station that has been specifically designed to meet the challenges the industry has been facing since lead-free implementation.

CE
L'-CON 1
i-CON1 with i-Tool soldering iron with innovative heating technology
with i-Tool soldering iron with innovative heating technology  102 soldering tip series see page 36 / 37

Order no.	Description	Rating/ Voltage	Heating time	Temperature range	Weight (w/o cable )
0IC1100A	i-CON1 electronic station complete with	80 W / 230 V / 50 Hz,		150 °C - 450 °C	
	i-Tool soldering iron - 0100CDJ, soldering tip 0102CDLF16, holder 0A50 and	150 W (350 °C)	approx. 9 s (350 °C)		approx. 30 g
	dry sponge 0008M				
0IC2000A	i-CON2 electronic station complete with	120 W / 230 V / 50 Hz,		150 °C - 450 °C	
	i-Tool soldering iron - 0100CDJ, soldering tip 0102CDLF16, holder 0A48 and dry sponge with container 0A08MSET	150 W (350 °C)	approx. 9 s (350 °C)		approx. 30 g
0IC1100A0C	i-CON1 C electronic station with D-Sub connector	80 W / 230 V / 50 Hz,		150 °C - 450 °C	
	complete with i-Tool soldering iron - 0100CDJ, soldering tip 0102CDLF16, holder 0A50 and dry sponge 0008M	150 W (350 °C)	approx. 9 s (350 °C)		арргох. 30 g
0IC2000A0C	i-CON2 C electronic station with D-Sub connector	120 W / 230 V / 50 Hz,		150 °C - 450 °C	
	complete with i-Tool soldering iron - 0100CDJ, soldering tip 0102CDLF16, holder 0A48 and dry sponge with container 0A08MSET	150 W (350 °C)	approx. 9 s (350 °C)		approx. 30 g

#### Innovative features of this technology

# i-Tool soldering iron with 150 W micro heating element:

New heating technology for ultra fastest heat-up and recovery of the *i*-Tool soldering iron: room temperature of 350 °C in approx. 9 sec., from standby to 350 °C in approx. 3 sec. Tip and heating element designed as two separate pieces.

#### Lead-free i-Tips:

The low-cost *i*-Tips are specially plated with the new ERSADUR LF galvanic process lasting 2 to 3 times longer than standard tips!

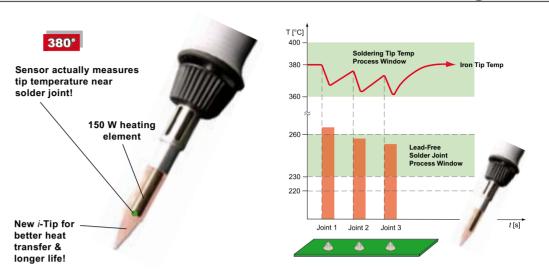
# "One Touch" easy-to-use operation:

User-friendly station software with large, multifunctional display has online help text and easy menu navigator with *i*-Op control.



i-CON C soldering stations with EA110 plus i solder fume extraction Intelligent filter unit control by means of the soldering stations' STANDBY function filter unit is started as soon as one of the soldering stations is operated

### **Safe and Innovative Lead-Free Hand Soldering**



The i-Tool recovers so fast that all solder joints can be made with nearly the same temperature. The sensor measures the actual tip temperature very close to the tip extremity. The process window alarm assists the operators in guaranteeing repeatable quality.

#### i-Tool calibration:

Unlike other systems, the microprocessor which stores the temperature calibration of the iron is actually located in the PCB which is installed in the handle.

This now allows for each individual *i*-Tool to be calibrated independent of the soldering station.

#### Automatic stand-by motion sensor:

Recognizes when the iron is being used and automatically goes into a stand-by temperature when the iron is put into its holder.

#### Power level settings:

Allows for the use of three different power settings which control the heating element overshoot depending on the heat required. Thus, the operator can choose the right setting for the right job - either more power or more control! Power level "Low" guarantees no overshoot for maximum component safety!

#### Process window alarm:

Informs operator with a visual and acoustic signal if the soldering iron tip gets too hot or too cold.

#### i-Set Tool (Order no. 0103IST):

This optional item allows for automatic downloading of station settings and lockout by acting as a type of USB stick. Simply upload the station setting from an *i*-CON into the *i*-Set Tool. The *i*-Set Tool is then plugged into any other *i*-CON station and all set parameters are automatically downloaded in less than 5 seconds and the station is locked out!



- Low-cost i-Tip
   (Consumable, easy to change, long-life)
- 2. i-Tip fastener

L-Tool

3. High-power heating element (stick-on type, long-life)





The i-Tool has a highly advanced PCB integrated into the handle for a level of intelligence never before seen in a soldering iron.

ing one of the smallest, lightest and most powerful soldering irons in the world - the ERSA *i*-Tool. The true value added for our customers lies not only in the fact that it will increase both the hand soldering quality and productivity, but also that it can realize a tremendous reduction in operational costs associated with manual soldering.

ERSA's new technology allows for a similar performance as compared to the soldering irons with expensive heating cartridge tips, but offers a standard low-cost, long-life exchangeable tip!

The ERSA i-CON advanced digital power supply offers ERSA's new "One Touch" easy-to-use operation with the new i-Op Control, as well numerous value added functions.





# ERSA i-CON2 SMD Soldering & Desoldering Station

Today's PCBs are becoming more complex with smaller and more densely compact components. In order to meet these difficult hand soldering touch-up and repair challenges, ERSA continues to be a market leader in supplying special tools for special applications.

i-CON2 offers all the valueadded features of the revolutionary i-CON in a double iron digital station with multiple soldering and / or desoldering tools for maximum flexibility.

The Chip Tool is based on a "Best Seller" in rework tools, but has been re-designed for improved ergonomics and precision repair. This newly designed heated pincette offers a wide range of SMT desoldering tips for safe and fast removal of the smallest chips (0201, 0402, etc.) up to medium size PLCCs. Even large PLCCs up to 84 pins can be safely removed when using the Chip Tool in combination with the IRHP 200 heating plate (see page 28).

The X-Tool is an extremely high powered desoldering iron which has been specifically designed for the toughest through-hole desoldering applications on the heaviest of PCBs. Safe lead-free desoldering is much more challenging due to the higher process temperatures and will require a desoldering Tool which can function effectively at the lowest possible temperature.

The ERSA X-Tool with 120 W can allow operators to conduct through-hole repair at the lowest and safest temperatures possible. The unique "Heat Reservoir" concept guarantees the shortest dwell times and the tip temperature control guarantees the fastest recovery. This unit must be used in combination with the CU vacuum unit.





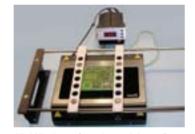
Chip Tool application

#### i-CON2

with i-Tool soldering iron with innovative heating technology and Chip Tool 102 soldering tip series see page 36 / 37, 422 desoldering tip series see page 41



Chip Tool SMT desoldering tweezers for low-temperature, safe SMD soldering



IRHP 200 (optional item)
Infrared rework heating plate see page 28





High-mass through-hole soldering with the i-Tool

#### i-CON2

with i-Tool soldering iron with innovative heating technology and X-Tool 102 soldering tip series see page 36 / 37, 722 desoldering tip series see page 39



X-Tool desoldering iron for high-power, low-temperature, safe through-hole desoldering



High-mass through-hole desoldering

# ERSA i-CON1 and i-CON2: Range of Models





0IC2000A

OIC2000AIT







0IC1100A0C

01C2000A0C



Figures with 0A08MSET

Order no.	Description
0IC1100A	i-CON1 electronically temperature-controlled soldering station, antistatic, complete, consisting of: Electronic station 0IC113A, i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16, antistatic tool holder 0A50 and dry sponge 0008M
0IC2000A	i-CON2 electronically temperature-controlled twin soldering station, antistatic, complete, consisting of: Electronic station 0IC203A, one i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16, antistatic tool holder 0A48, and dry sponge with container 0A08MSET
0IC2000AIT	i-CON2 electronically temperature-controlled twin soldering station, antistatic, complete, consisting of:  Electronic station 0IC203A, 2 x i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16, 2 x antistatic tool holder 0A48, and dry sponge with container 0A08MSET
0IC2000AC	i-CON2 electronically temperature-controlled twin soldering and desoldering station antistatic, complete, consisting of: Electronic station 0IC203A, i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16 Chip Tool desoldering pincette 0450MDJ with desoldering tip pair 0422MD, antistatic tool holders 0A48 and 0A43, and dry sponge with container 0A08MSET

OIC2000AXT	FCON2 electronically temperature-controlled twin soldering and desoldering station, antistatic, complete, consisting of: Electronic station 0IC203A, FTOol soldering iron 0100CDJ with soldering tip 0102CDLF16  X-Tool desoldering iron 0720EDJ, antistatic, with desoldering tip 0722ED1226, vacuum unit 0CU103A for X-Tool, antistatic tool holders 0A48 and 0A44, and dry sponge with container 0A08MSET
0IC1100A0C	i-CON1 C electronically temperature-controlled soldering station with D-Sub connector, antistatic, complete, consisting of: Electronic station 0IC113A0C with D-Sub connector, i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16, antistatic tool badder 0AEC and devices one 000CM.

0IC2000A0C	i-CON2 C electronically temperature-controlled soldering station with D-Sub connector,
	antistatic, complete, consisting of:

Liectionic station orozoonoc with D-oub connector,
i-Tool soldering iron 0100CDJ with soldering tip 0102CDLF16
antistatic tool holder 0A48, and dry sponge with container 0A08MSET

Technical data	i-Tool soldering iron	Chip Tool desoldering pincette	X-Tool desoldering iron
Voltage	24 V~	24 V~	24 V~
Max. heating power	150 W ±10 % (80 W mean)	PTC 2 x 30 W / 280 °C; 2 x 20 W / 350 °C	2 x 60 W at 350 °C
Heating time	approx. 9 s to 350 °C	subject to the desoldering tip	subject to the desoldering tip
Weight	approx. 30 g (without supply line)	approx. 75 g (without supply line)	approx. 240 g (incl. supply line and tip)
Antistatic	antistatic design suitable for operation in an ESD environment. MIL-SPEC/ESA standard	antistatic design suitable for operation in an ESD environment. MIL-SPEC/ESA standard	antistatic design suitable for operation in an ESD environment. MIL-SPEC/ESA standard

Four versions of this new double station are offered standard and differ only in the tool packout:

- 1. One *i*-Tool soldering iron
- 2. Two *i*-Tool soldering irons 3. *i*-Tool and Chip Tool for
- SMD removal
- 4. *i*-Tool and X-Tool for TH desoldering.

The tools are automatically detected when inserted into the station and a predetermined program is started.

For further information please refer to:

www.ersa-i-Tool.com







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

The device 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 pincette and the X-Tool desoldering iron can be connected.

The tools are automatically detected when inserted and the control characteristics accordingly adapted. The soldering and desoldering tips are therefore 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 stand-by time of 0 to 60 minutes, a tip offset and calibration feature and a three-character passwordcontrolled 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, all programs can also be used. A 5th program slot contains a temperature measuring function. For this purpose the temperature sensor DIG207 is required.



(€ ♠♠

# **Multifunctionality Combined With Comfort**



CE PTC ILL

CE PTC FAS

# **DIG20A64**

with Tech Tool soldering iron and ERSA SENSOTRONIC control system 612 soldering tip series see page 40



#### **DIG20A27**

with Micro Tool soldering iron and ERSA RESISTRONIC control system 212 soldering tip series see page 42



#### **DIG20A45**

with Chip Tool and ERSA RESISTRONIC control system. 422 desoldering tip series see page 41



	7
A	
	in.

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, soldering tip 0842CDLF, tool holder 0A42, and dry sponge with container 0A08MSET	80 W / 230 V, 50 - 60 Hz / 24 V 80 W (350 °C)	approx. 40 s (280 °C)	50 °C - 450 °C	approx. 50 g
0DIG20A64	DIGITAL 2000 A electronic station complete with Tech tool soldering iron 0640ADJ, soldering tip 0612ADLF, tool holder 0A42, and dry sponge with container 0A08MSET	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
0DIG20A27	DIGITAL 2000 A electronic station complete with Micro Tool soldering iron 0270BDJ, with soldering tip 0212BDLF, tool holder 0A42, and dry sponge with container 0A08MSET	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
0DIG20A45	DIGITAL 2000 A electronic station complete with Chip Tool desoldering pincette 0450MDJ, desoldering tips 0422MD, tool holder 0A43, and dry sponge with container 0A08MSET	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

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 29), 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

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 30).

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A thermocouple temperature

sensor near the desoldering

tip immediately reacts to any

heat loss. Practically delay-

free reheating is therefore

The vacuum for suctioning

mediately available when the

The recesses of the tool holder

inserted soldering tips, even

when hot, without an addi-

the liquefied solder is im-

push-button is pressed.

0A44 allow exchanging

ensured.

tional tool.

access.

ing tip pairs are manufactured

according to the ERSADUR

process. They have excellent

thermal conductance and a

long service life.

The new HR 100 A uses

### **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 multilaver PCBs. The station consists of the ERSA DIGITAL 2000 A described on pages 20 and 21, a vacuum unit with the X-Tool desoldering iron and the 0A44 tool holder. The desoldering tip is heated by two PTC heating elements.





\* incl. tip and cable

ERSA SMD 8013

Order no.	Description	Rating / Voltage	Vacuum	Temperature	Weight
				range	
0DIG20AXT	DIGITAL 2000 A desoldering station complete	80 W / 230 V, 50 - 60 Hz / 24 V		50 °C - 450 °C	1.25 kg
	with vacuum unit 0CU103A,	45 W	800 mbar max.		
	X-Tool desoldering iron 0720EDJ,	2 x 60 W (350 °C)			approx. 240 g*
	tip 0722FD1226_holder 0A44				

# X-Tool with vacuum unit

with electronic station 0DIG203A and ERSA SENSOTRONIC control system 722 desoldering tip series see page 39

# ERSA SMD 8012 and SMD 8013 Tip Holders





212 solden 422 desolo

ERSA SMD 8012

ring tip series see page 42, Idering tip series see page 41	ERSA:

Order no.	Tip holder	Equipped with 212 ERSADUR soldering tips	Equipped with 422 desoldering tip pairs
0SMD8012	SMD 8012 tip holder, complete	BDLF,CDLF,EDLF,KDLF	ED,FD1,FD2,QD1,QD3,QD4,QD2,MD
0SMD8013	SMD 8013 tip holder, complete	BDLF,CDLF,EDLF,MS,WD,SDLF,FDLF,GD	ED,FD1,FD2,FD4,FD5, FD6,QD3,QD5,MD,SD

#### Flux Cream

A wide range of accessories and consumables, process descriptions on soldering and desoldering are available at: www.ersa.com

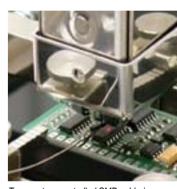


# **ERSA HR 100 A Hybrid Rework System**





component removal



with Hybrid Tool rework iron with patent pending heating technology and VacPen vacuum pipette

Temperature-controlled SMD soldering

Order no.	Description	Rating / Voltage	Heated area	Weight (w/o. cable)
				(w/o. cable)
0IRHR100A	HR 100 A hybrid rework system complete	200 W / 230 V / 50-60 Hz		
	with Hybrid Tool rework iron - 3IRHR100A-01, VacPen vacuum		6 x 6 mm up to	300 g
	pipette 0VP020, hybrid adaptors 0IRHR100A-14, -15, -16		20 x 20 mm	
	and adaptor changer 0IRHR100A-24			
	Recommended acessories:			
0IRHR-ST050	Hybrid rework tripod complete			

#### Technical Highlights:

- · Hybrid Tool with 200 W heating element; positioning laser in the Hybrid Tool
- Three exchangeable Hybrid Adaptors (6 x 6 mm, 10 x 10 mm and 20 x 20 mm)
- Low Noise Rework Blower (below 40dB)
- Integrated vacuum pump & VacPen, tool holder and K-type TC input socket, USB interface, LED display, "Turn & Push"
- 2 Channel Temperature Recording: TC & IRS; AccuTC and Flexpoint TC holder
- · Hybrid tool holder with axis height adjust & lock
- X-Y PCB board holder (290 mm x 250 mm)

- · 800 W IR heating plate with glass cover: 125 mm x 125 mm high-performance IR heating element
- Closed Loop Profiles with ERSA IRSoft rework documentation software. User Level Access

#### Recommended Accessories

It is highly recommended to purchase the complete system (1IRHR100A-HP) with an optional process cooling fan. When using the HR 100 A alone, it is highly recommended to purchase an AccuTC and Flexpoint TC holder for maximum rework safety. For a complete listing of all rework accessories, please refer to our Rework Catalog.



Powerful bottom-side process cooling fan (0IR5500-13) for rapid PCB cooling



AccuTC thermocouple (0IR6500-01) and Flexpoint TC holder (0IR5500-35)



ERSA Hybrid Tool with 200 W heating power and positioning laser (class II) in the handle, weight 300 g

ERSA's revolutionary and patented Hybrid Rework Technology for safe removal and replacement of small SMDs in a lead-free environment! Safe, medium-wave IR radiation combined with a gentle hot air stream quarantees optimal energy transfer to the component.

The Hybrid Tool delivers smooth and homogeneous heat to leadfree components sizing from 0201s to 20 x 20 mm SMDs and even larger. Exchangeable Hybrid Adaptors focus 200 W of safe hybrid heating power onto the component while protecting neighboring areas from blowing away adjacent chips.

The user friendly operation allows for even non-experienced operators to handle the HR 100 A safely and quickly. Advanced operators using the HR/IRHP 100 A complete system can not only set air volume and heating power levels, but they can also run and record profiles! The ergonomically designed Hybrid Tool handle contains a positioning laser which helps the operator to focus the heat precisely throughout the entire process.

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# Your Guide

# **Added Value at Your Finger Tips**

Via the Mini-USB port, the HR 100 A can be connected to ERSA's top of the line and well-established rework software, ERSA IRSoft. IRSoft provides multiple functions to operate the system, set and store process parameters and document all soldering or desoldering results.

The HR 100 A has been designed to be used with the IRHP 100 A. an 800 W IR heating plate. This complete set provides powerful and safe IR bottom-side heating as well as a Z-axis tool stand for the Hybrid Tool and an X-Y PCB board holder. The K-type thermocouple included monitors PCB temperature and even allows for closed loop soldering processes with ramp profiles.

The hybrid rework system together with the IR heating plate fulfils all needs of a modern rework system providing highest flexibility at the lowest cost!



#### HR 100 A and IRHP 100 A

with Hybrid Tool rework iron with patent pending heating technology, hybrid adapters, IRHP 100 A IR heating plate, Z-axis tool stand, X-Y PCB holder and VacPen vacuum pipette

Order no.	Description	Rating / Voltage	Heated area	Weight (w/o, cable)
				(W/O. Gabic)
0IRHR100A-HP	HR 100 A hybrid rework system complete	200 W / 230 V / 50-60 Hz		
	with Hybrid Tool - 3IRHR100A-01, VacPen - 0VP020,		6 x 6 mm up to	300 g
	hybrid adaptors 0IRHR100A-14, -15, -16,		20 x 20 mm	
	adaptor changer 0IRHR100A-24,			
	IRHP 100 A heating plate, item no. 0IRHP100A complete with	800 W / 230 V / 50-60 Hz	125 x 125 mm	
	tool holder for Hybrid Tool and PCB holder, Flexpoint TC holder,			
	AccuTC thermocouple, USB connection cable and IRSoft 4			
	software and drivers			

#### ERSA IRSoft 4 - Unparalleled System Control & Process Documentation for Rework

In keeping with our foremost goal of operator satisfaction, we are happy to present our latest update to our renowned software concept.

The new IRSoft 4 is a universal system control, process documentation and process visualization software platform designed for use with all ERSA rework systems, from the smallest to the largest. In this manner, ERSA ensures operators an easy move between systems with hardly any learning curve required.

### User Friendly Software designed by Users!

Probably the greatest advantage of the IRSoft rework software platform is that is was literally co-designed by our customers in the field.

Today, with almost 10 years experience and over 5,000 systems installed, we have continually added those features and functions demanded by the market and have provided free updates to the existing user base.



Closed loop ramp profiles with live temperature recording

### **CLEAN-AIR Solder Fume Extractions**



#### **Health Protection During Soldering**

The breathing zone lies very close to the soldering process during manual soldering. Suspended particles and gases in the work area cannot be prevented from entering the respiratory system. Noxious gases conveyed through the circulatory system may, over longer periods of time, cause damage to other organs like the liver and

The causal relevance of solder fumes to allergic reactions, asthma attacks and chronic bronchitis is medically established. It must be kept in mind that safeguarding human resources is cru-

cial for any company's success. Risks not detected in due time usually prove more expensive than their prevention would have been. From a health standpoint, neither eating, drinking nor smoking should be permitted in areas where soldering occurs.

As long as lead-containing solder is used, there is a risk of lead traces remaining on hands entering the human organism through food or cigarettes. For this reason, hands should always be carefully washed after soldering work.

Solder waste and used solder fume filters are hazardous waste and must not be discarded with household rubbish.







Noxious gases develop during the soldering process due to the use of fluxes. This aspect, together with the fact that condensated flux on the PCB can cause problems, results in an increased requirement to use solder fume extraction systems, also with regard to quality.

ERSA Easy Arm solder fume extractions ensure clean boards and a healthy environment in an efficient and economic way when hand soldering. They clear off an entire working area via large nozzles which are available in different designs.







# **ERSA EA 110** plus i Solder Fume Extraction

The new EA 110 plus i filtering device is a compact and efficient system with economical air recirculation. Thanks to the continuously variable suction power, the device can be adapted to any given situation. It can suction the solder fumes from one or two workplaces effectively and economically.

The variable setup and installation options allow use even where space is limited.

The solder fumes are filtered in two stages: first, the particulate filter removes smallest suspended particles from the suctioned air. Harmful gases are then absorbed in the activated carbon filter.

The powerful suction turbine provides a nearly constant suction flow during the filter's entire service life. The filtering action is monitored by means of a time limit and constant monitoring of the suction power. The user is promptly notified of a necessary filter change by visual and acoustic signals.

For protection of the drive motor, the ERSA EA 110 plus i has an automatic cut-off feature.

The combination filter can be changed fast and easily without tools after the housing upper part is removed.

Two suction arms, three suction nozzles and a check valve are available for different work conditions.

The plug-in system with its flexible suction arms allows fast adaptation to altered conditions at the soldering workplace.

Especially noteworthy is the low noise level, allowing use of the device not only in production, but also in repairs, engineering and in the lab. The decentralized design requires no extensive pipe system and affords the greatest possible flexibility.

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Table mounting, order no. 3CA06-9001



EA110 plus i solder fume extraction with i-CON C soldering stations

#### EA 110 plus i

Powerful solder fume extraction unit for the workbench for up to 2 extraction arms. Please select the extraction arms and nozzles suitable for your requirements from our wide range of accessories.

Order no.	Description	Dimensions (L x W x H)	Rating / Voltage	Volume flow / vacuum	Noise level	Filter
0CA08-002	ERSA EASY ARM EXTRACTION EA 110 plus i filter unit complete with i-CON interface	460 x 210 x 470 mm	100 W / 100 - 250 V 50 - 60 Hz	140 m³/h max. / 2,200 Pa	51 dB (A) max.	HEPA activated carbon

# Accessories for the EA 110 plus i

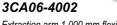


Extraction arm with 700 mm flexible hose, incl. connecting hose, table mounting and quick coupling



Metallic nozzle, 50 mm ø





Extraction arm 1,000 mm flexible hose (to be installed directly at the EA 110 plus filter unit) with 2 quick couplings



Antistatic nozzle, plastic, transparent. 190 x 100 mm



A 3CA06-9006

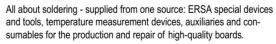
Stop valve for extraction arm



#### Nozzle "Plus", plastic, ESD, 215 x 90 mm

### **Accessories & Process Material**











# **ERSA IRHP 200 Infrared Rework Heating Plate**

The ERSA IRHP 200 is a compact and ergonomically designed heating plate to preheat all SMD components as well as assemblies and substrates during the hand soldering process. It can also be used to reflow solder onesided SMD boards and for reballing BGAs.

The heating plate temperature can be adusted continuously from 50 °C to 600 °C.

The IR emitters' even heat distribution ensures noncontact, gentle heating of the assembly. Thus the IRHP 200 is perfectly suited for leadfree applications.

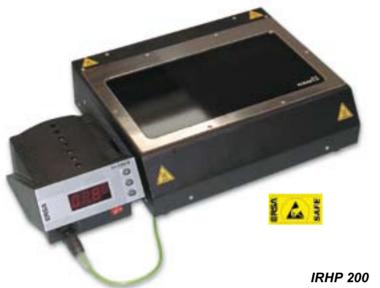
The control station can be placed independently from the heating plate on the workbench in an ergonomically favourable way.

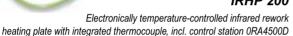
The device can be used to handle nearly all components, except MELFs and MiniMELFs.

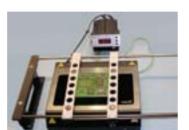
This tool consists of a nickelplated aluminum handle, sealed at the rear end by a plug.

When opened, replacement tips and suction cups can be stored here.

The ERSA 185 PZ plastics welding device can be used to cut, weld and seal thermoplastic foil, fabric and sealing sections. In cutting plastic cords, the 185 PZ simultaneously welds the ends, to prevent untwisting.







Application example with optionally available X/Y PCB table 0IR5500-01

I	Order no.	Description	Heated area	Rating / voltage	Temperature range	Weight
	0IRHP200	IRHP 200 infrared rework heating plate with control station 0RA4500D	260 x 135 mm (L x W)	max. 800 W / 230 V~, 50 - 60 Hz	50 °C - 600 °C (at the heating element)	approx. 4 kg

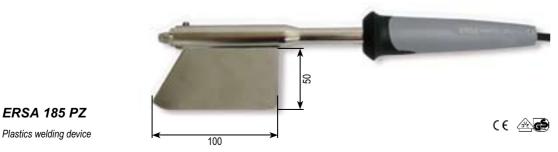
# **ERSA SVP 100 Vacuum Pipette**



Vacuum pipette

Order no.	Description	Length	Housing diameter	Cup diameters	Weight
	SVP 100 vacuum pipette complete with bent tip 0SVP12K and 3 silicone cups 0SVP13A	150 mm	14 mm	4 mm, 6 mm, 9 mm	69 g

# **ERSA Special Tools**



Order no.	Description	Rating / Voltage	Heating time	Temperature range	Weight (w/o cable)
0185PZ	ERSA 185 PZ plastics welding device with welding blade 0182PZ004	180 W / 230 V	approx. 5 min	approx. 370°C	370 g

### **ERSA DTM 50 & DTM 100 Temperature Measuring Devices**



The DTM 100 is equipped with a patented sensor unit (K-type) with sensor wires made of chromel and alumel. It provides exact temperatures of even finest soldering tips.

temperature measuring device with flexible NiCrNi thermocouple (K-type)

Order no.	Description	Measuring range	Operating temperature	Power supply	Dimensions (mm) without sensor unit	Weight
0DTM050	DTM 50 temperature measuring device, packed in a plastic case	-50 °C to +1,150 °C	0 °C to +45 °C	9 V flat battery 6F22	100 x 60 x 26 mm	approx. 134 g
0DTM050P	DTM 50 temperature measuring device with calibration certificate, packed in a plastic case	-50 °C to +1,150 °C	0 °C to +45 °C	9 V flat battery 6F22	100 x 60 x 26 mm	approx. 134 g
0DTM100	DTM 100 temperature measuring device, packed in a plastic case	-50 °C to +1,150 °C	0 °C to +45 °C	9 V flat battery 6F22	100 x 60 x 26 mm	approx. 134 g
0DTM100P	DTM 100 temperature measuring device with calibration certificate, packed in a plastic case	-50 °C to +1,150 °C	0 °C to +45 °C	9 V flat battery 6F22	100 x 60 x 26 mm	approx. 134 g

In certified businesses and from a quality standpoint, regular checking of the soldering tip temperature is obligatory. Viewed through their entire service life, ERSA soldering stations are extremely temperature-stable depending on the system.

Possible differences between the rated and actual data due to differences in tips or to slight heating element tolerances in the RESISTRONIC control system can be easily ascertained with the DTM 50 and DTM 100 temperature measuring devices and corrected easily and fast on nearly all ERSA soldering stations.

The measurement is practically conducted by cleaning the heated soldering tip with a moist sponge and soaking it in new solder. The soldering tip is then connected to the given temperature sensor and the temperature determined as soon as the display has stabilized.

# **ERSA Desoldering Devices**

### ERSA - VAC 2 VAC 2







Slim antistatic desoldering device with metal housing





#### VAC 3

Slim antistatic desoldering device with plastic housing







#### Soldapullt AS 196

Proven desoldering device with plastic housing and extremely good recoil damping

Order no.	Description	Desoldering tips	Suction capacity
0VAC2	VAC 2 antistatic desoldering device	0VAC22 (2 pcs.)	8.9 cm <sup>3</sup>
0VAC3	VAC 3 antistatic desoldering device	0VAC32 (2 pcs.)	10 cm <sup>3</sup>
0VACX	VAC X antistatic desoldering device	0VACX2 (2 pcs.)	11.3 cm <sup>3</sup>
0AS196	Soldapullt AS 196 antistatic desoldering device	0LS197	34 cm <sup>3</sup>

The VAC 2. VAC 3 and VAC X desoldering devices are distinguished by their high suction power and low-recoil desoldering. The antistatic design of the devices allows desoldering work on electrostatically endangered

The long, slim desoldering tips also allow soldering operations on tightly assembled PCBs.

assemblies.

The Soldapullt AS 196 model is distinguished by extremely good recoil damping and has proven its merit many times over in industry.

The dual seal ring system guarantees constant suction power on a high level.

29

28

The ERSA STR 100 stacking

bining two soldering stations,

station with the vacuum unit

illustration) in a practical and

The ERSA STR 200 stacking

rack can be used for com-

bining two i-CON soldering

stations or one *i*-CON station with any other ERSA solder-

as required (see adjacent

space-saving way.

ing station.

e.g. the DIG 2000 A electronic

rack can be used for com-

# ERSA STR 100 and STR 200 Stacking Racks

#### STR 100 / STR 200

Stacking racks for a well-organized workplace (Delivery without soldering stations)



Order no.	Description
0STR100	STR 100 stacking rack to arrange soldering stations (except i-CON) in a safe and space-saving way at the workbench
0STR200	STR 200 stacking rack to arrange the ERSA i-CON soldering stations in a safe and space-saving way at the workbench

# ERSA SR 100 Solder Wire Dispenser

The ERSA **SR 100** solder wire dispenser is extremely durable and can accept solder wire reels of up to 1,000 g.

Optimal unwinding of different reels is ensured by a conical centering nut.

The flexibly mounted solder wire guide is suitable for all current solder wire diameters and allows unwinding in the desired direction without having to change the location of the SR 100.

Available as an accessory and easily retrofitted, the ERSA **SR 101** kit allows simultaneous use of a second spool.



SR 101
Retrofit kit for a second solder wire spool, optionally available
(Delivery without solder wire and SR 100)

Order no.	Description	Solder wire spools	Spool receiver diameter
0SR100	SR 100 solder wire dispenser for one spool (without solder wire)	250 g, 500 g, 1,000 g	14 mm
0SR101	Kit for 0SR100 for 2nd spool (without solder wire)	250 g, 500 g, 1,000 g	14 mm

# **ERSA Tip Exchanger**

For changing all internally heated soldering and desoldering tips as well as hot air nozzles, we recommend tip exchanger 3ZT00164 with flat nose pliers and side cutter. These special pliers allow tips to be replaced safely and protectively, even when hot.



# **ERSA Tool Holders and Cleaning Sponges**



Order no.	Description	for
0A04	Tool holder A 04	Soldering irons from 50 W - 150 W output; Isotyp and 0180PZ soldering irons
0A05	Tool holder A 05	Medium-sized and small soldering irons
0A08MSET	Dry sponge 0008M with container	Dry cleaning of soldering tips (especially for lead-free)
0A17	Tool holder A 17	Soldering irons with an output ranging from 200 W - 550 W
0A18	Tool holder A 18	Soldering irons of the Multitip series; Tip 260 and TC 65 soldering irons
0A19	Tool holder A 19	Soldering irons of the Multitip series
0A39	Tool holder A39	RT 80 soldering iron
0A41	Tool holder A 41	Irons of the Multitip series; Multi-Pro, Multi-TC, Basic Tool 60 / 80 soldering irons
0A42	Tool holder A 42, antistatic	Tip Tool, Power Tool, Ergo Tool, Micro Tool and Tech Tool soldering irons
0A43	Tool holder A 43, antistatic	Chip Tool (fig. see page 20 / 22)
0A44	Tool holder A 44, antistatic	X-Tool desoldering iron (fig. see page 22)
0A45	Universal holder A 45	832 soldering tip series (C8 - C18, MD, QD, ZD models), solder wire feed unit and solder fume extraction
0A48	Tool holder A 48, antistatic	i-Tool soldering iron
0A50	Tool holder A 50, antistatic	i-Tool soldering iron
3N194	Rubber support disk 3 N 194	Multitip, Multi-Pro, ERSA 30 S soldering irons
0SH03	SMD soldering and desoldering tip holder	Soldering and desoldering tips of the 212 and 422 series
0G156	Sponge container G156	Independent 75 and Independent 130 gas soldering irons
0003B	Blue viscose sponge, 55 x 55 mm	Tool holders 0A09, 10, 13, 16, 24, 25, 28, 29, 30, 34, 35, 36, 39, 41 - 45, 48
0004G	Viscose sponge, 34 x 65 mm	Tool holders 0A05, 0A21 and 0A26
0006G	Sponge, ø 36 mm	Sponge container 0G156 for the Independent 75 / 130 gas soldering irons
0007G	Viscose sponge, 70 x 46 mm	Tool holder 0A19
0008M	Dry sponge 0008M	0A08MSET

Soldering and desoldering devices are heating devices and depending on the application can attain high temperatures during operation. This equipment must never be operated without supervision; during longer interruptions of work they should be switched off and always stored in suitable Tool holders.

Most of the ERSA **Tool holders** are made of metal or heat-resistant duroplastic, and most are antistatic.

Most holders have a viscous sponge for tip cleaning, as well as options for conveniently resting and storing soldering and desoldering tips.



# **ERSA Bar Solder**

ERSA bar solder. like solder wire, is recovered from initial melt solder. It is primarily used for filling solder baths. For easier melting, it can be supplied as required in 50 mm sections. In combination with soldering irons of greater power and with suitable flux, bar solder is also used for soldering cable lugs of larger cross-sections and in sheet metal work.



(	Order no.	Alloy	Melting temperature	Delivered in
4	4LOT230GAG3.5CU0.7	Sn95.8Ag3.5Cu0.7	217 - 218 °C	Bars of approx. 230 g
4	4LOT230G64B	Sn64Pb36	183 °C	Bars of approx. 230 g

### **ERSA Solder Wire**

ERSA solder wire consists exclusively of high-quality raw materials. Manufactured on state-of-the-art machines, the wire meets all quality requirements.

It is manufactured in different dimensions and with different alloys, to meet all practical requirements.

Different types of "flux cores" allow individual adaptation to all soldering needs, especially in electronics and the electronics industry.



ATTENTION: According to the EU Directive as of July 1 2006 lead may no longer be used in electronic assemblies.



#### Solder wire

Available in different alloys and drum sizes in order to meet various fields of application. Please refer to the ERSA price list or to www.ersa.com for a detailed list including wire diameters.

Solder allow according to Flux according to DIN EN



DIN EN 29453	% flux share	Melting temperature (°C)
Sn96.5Ag3.0Cu0.5	29454 art. 1, type 1.1.3.B, or DIN EN 61190-1-3, ROL 0 3.5 %, halogen-free	217
Sn96.5Ag3.0Cu0.5	29454, type 1.2.3., J-STD-004 RE/LO 1.6 %, halogen-free	217 - 219
Sn96.5Ag3.0Cu0.5	29454, type 1.2.3., J-STD-004 RE/LO 2.2 %, halogen-free	217 - 219
Sn99.3CuNiGe0.7 (based on Sn99.3Cu0.7)	29454 art. 1, type 1.1.3.B, or DIN EN 61190-1-3, ROL 0 3.5 %, halogen-free	227
Sn99.3Cu0.7	29454, type 1.2.3., J-STD-004 RE/LO, 1.6 %, halogen-free	227
Sn96.5Ag3.5	29454 art. 1, type 1.1.3.B, or DIN EN 61190-1-3, ROL 0 3.5 %, halogen-free	221
		201
Sn96.5Ag3.5	29454, type 1.2.3., J-STD-004 RE/LO, 1.6 %, halogen-free	221
Low-residue, halogen-free No	-Clean solder wire. Especially adapted to the requirements in electronics production. ray while melting. The light, solid flux residues are neither corrosive nor electrically cor	The flux stands out by high temperature
Low-residue, halogen-free No resistance, and it does not spi	-Clean solder wire. Especially adapted to the requirements in electronics production. ray while melting. The light, solid flux residues are neither corrosive nor electrically cor	The flux stands out by high temperature
Low-residue, halogen-free No resistance, and it does not spi remove them from the solder j	-Clean solder wire. Especially adapted to the requirements in electronics production. ray while melting. The light, solid flux residues are neither corrosive nor electrically corolint.	The flux stands out by high temperature nductive. Consequently it is not necessary
Low-residue, halogen-free No resistance, and it does not spi remove them from the solder j Sn60Pb40	-Clean solder wire. Especially adapted to the requirements in electronics production. ray while melting. The light, solid flux residues are neither corrosive nor electrically corbint.  29454/1.1.2, 2.2 %	The flux stands out by high temperature nductive. Consequently it is not necessary
Low-residue, halogen-free No resistance, and it does not spi remove them from the solder j Sn60Pb40 Sn60Pb40	-Clean solder wire. Especially adapted to the requirements in electronics production.  ray while melting. The light, solid flux residues are neither corrosive nor electrically coroint.  29454/1.1.2, 2.2 % 29454/1.2.3, 1.4 %	The flux stands out by high temperature inductive. Consequently it is not necessary  183 - 190  183 - 190
Low-residue, halogen-free No resistance, and it does not spi remove them from the solder j Sn60Pb40 Sn60Pb40 Sn60Pb39Cu1	-Clean solder wire. Especially adapted to the requirements in electronics production.  ray while melting. The light, solid flux residues are neither corrosive nor electrically coroint.  29454/1.1.2, 2.2 %  29454/1.1.2, 3, 1.4 %  29454/1.1.2, 2.2 %	The flux stands out by high temperature nductive. Consequently it is not necessary  183 - 190 183 - 190 183 - 190
Low-residue, halogen-free No resistance, and it does not spi remove them from the solder j Sn60Pb40 Sn60Pb40 Sn60Pb39Cu1 Sn63Pb37	-Clean solder wire. Especially adapted to the requirements in electronics production. Tay while melting. The light, solid flux residues are neither corrosive nor electrically coroint.  29454/1.1.2, 2.2 % 29454/1.2.3, 1.4 % 29454/1.1.2, 2.2 % 29454/1.1.3, 2,2 %, halogen-free, eutectic	The flux stands out by high temperature nductive. Consequently it is not necessary  183 - 190 183 - 190 183 - 190 183 - 183

# **ERSA Desoldering Wicks**



#### Desoldering wicks

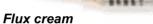


Order no.	Description	Package size
0WICKNC1.5/10	No-Clean wicks, length 1.5 m, width 1.5 mm	10 pcs.
0WICKNC1.5/SB	No-Clean wicks, length 1.5 m, width 1.5 mm	single-piece package
0WICKNC2.2/10	No-Clean wicks, length 1.5 m, width 2.2 mm	10 pcs.
0WICKNC2.2/SB	No-Clean wicks, length 1.5 m, width 2.2 mm	single-piece package
0WICKNC2.7/10	No-Clean wicks, length 1.5 m, width 2.7 mm	10 pcs.
0WICKNC2.7/SB	No-Clean wicks, length 1.5 m, width 2.7 mm	single-piece package
0WICKNC4.9/10	No-Clean wicks, length 1.5 m, width 4.9 mm	10 pcs.
0WICKNC4.9/SB	No-Clean wicks, length 1.5 m, width 4.9 mm	single-piece package

**ERSA desoldering wicks** are saturated with halogenfree No-Clean flux. They are suitable for protectively removing excess solder and old solder, especially from boards carrying SMD components. A fine copper fabric with high capillary power ensures optimal desoldering results. The additional use of a flux cream may be appropriate under certain circumstances.

### **ERSA Flux and Flux Remover**





ERSA No-Clean flux creams available in different quantities



#### Flux-Pen



Flux Remover

Order no.	Description	Quantities	Danger sign
0FMKANC32-005	No-Clean flux cream, EN 29454/1.1.3 C	5 ml cartridge	1); 3)
0FMKANC32-200	No-Clean flux cream, EN 29454/1.1.3 C	200 ml can	1); 3)
4FMJF8300-005	Flux gel 8300 for rework, EN 29454-1/1.2.3 C (F-SW33), resinous, halogen-free, low residues	5 ml cartridge	1); 3)
4FMJF8001-PEN	Flux-Pen with IF 8001 flux, EN 29454/2.2.3 A (F-SW 34/DIN 8511)	7 ml	1); 2)
0FMIF8001-001	IF 8001 flux, EN 29454/2.2.3A	100 ml	1); 2)
4FMJF6000-PEN	Flux-Pen with IF 6000 Flux, for lead-free rework, EN 29454/1.1.3 A, solid 7.5 %	7 ml	1); 2)
0FMIF6000-001	Flux IF 6000 for lead-free rework, EN 29454/1.1.3.A (F-SW 32), resinous, halogen-free, long activation time, low residues, solid 7.5 %	100 ml	1); 2)
0FMIF2005-002	IF 2005 M low-solid No-Clean flux EN 29454/2.2.3 A	200 ml sprayer	1); 2)
0FR200	Flux Remover 0FR200, with brush 0FR202 and protective cap 0FR203	200 ml cartridge	1); 2); 3)

ERSA No-Clean Flux and Flux Cream have proven their merit especially in all repair processes in SMD technology. Like all ERSA consumables, they meet the applicable standards and quality requirements. They can be easily and precisely applied by means of the Flux- Pen or cartridge, supplied with plunger and needle.

Excess residue is removed, if necessary, by means of the Flux Remover with the aid of absorbent, non-pulping paper towels or specially offered ESD-safe products.







3) = N Environmentally

# **ERSA Tip-Reactivator**



#### Tip-Reactivator

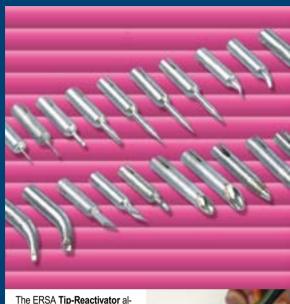


Order no.	Description	Quantity	Danger sign
0TR01/SB	Tip-Reactivator, lead-free	15 g can	1)

The ERSA Tip-Reactivator allows the regeneration of oxidized soldering tips. It is environmentally safe, free of lead and halogens and functions even at low soldering tip temperatures. For this purpose the heated soldering tip is wiped on the surface of the regeneration compound.

33

# **Soldering and Desoldering Tips**













regeneration compound.

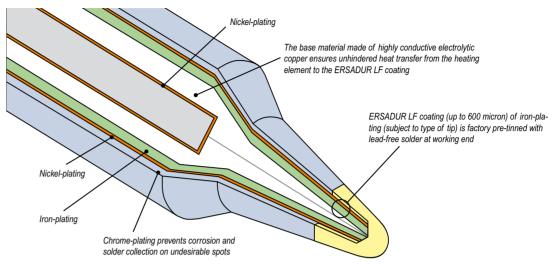
- 1. When a soldering tip remains hot for a "wet" or melt solder properly.

the soldering tip, the faster this oxidation will take place and tip lifetime will be

- 3. Soldering irons that automatically go into a lower "stand-by" temperature increase
- 4. The oxidation of the tip will be very rapid if the tip is left "cooking" without molten solder covering the tip end. It happens, for example, if the tip is not wetted with solder right after cleaning it.
- 5. Excessive mechanical force during soldering will shorten the tip life.
- 6. Proper care of the tip will greatly increase tip life.

# Conventional soldering tips can also be used for lead-

# **ERSADUR Soldering Tips**



Cross-section of an ERSADUR soldering tip, non-scale representation

free solders. Since lead-free soldering requires higher process temperatures, and due to the fact that lead-free solder is more aggressive to the soldering tip, the tip's service life is shorter. ERSADUR LF soldering tips have an increased layer of iron, which increases tip life. Consequently they are especially suitable for lead-free soldering.

### **Special Care for Soldering Tips**



#### **ERSA Dry Sponge**

The ERSA Dry Sponge is included as a standard alternative to the wet sponge and can be beneficial especially for lead-free.

Hand soldering operators are happy when their soldering tips last a long time and continue to solder well. Soldering tips that do not allow the solder to melt rapidly due to excess oxidation clearly disrupt productivity! Special care of the soldering tip should be taken in order to solder efficiently.

#### Important Facts:

- long period of time, the tip will oxidize or blacken. An oxidized tip will no longer
- 2. The higher the working temperature of

7. Lead-free soldering requires higher temperatures, is more aggressive to the tip and will always lead to shorter tip life.

#### Special Care:

- 1. Always clean the tip by wiping on a slightly wet sponge after each use. Alternatively, tips can be dry cleaned using the ERSA dry sponge.
- 2. Always put fresh solder onto the end of the tip BEFORE putting the tip back into the iron holder.
- 3. Always use lowest working temperature possible.
- 4. Never leave an iron "cooking" unattended for some time. Always set iron into automatic stand-by if possible or turn-off when not in use.
- 5. Never use excessive mechanical force when soldering.
- 6. Soldering tip oxidation can be easily removed if detected early. Early detection and removal will greatly increase tip life.
- 7. Tip oxidation removal or tip refurbishing is accomplished in 4 consecutive steps: a. clean on damp sponge, b. clean with wire brush, c. using a tip reactivator chemical, and d. retinning using proper flux cored solder wire.

Dry cleaning of soldering tips offers substantial advantages. The soldering tips are not cooled abruptly and contaminated tips resulting from dirty sponges are avoided. Due to the slightly abrasive properties of the special wire mesh, passive lavers that accumulated on the tip can easily be removed. Tip life is thus increased considerably in lead-free hand soldering.

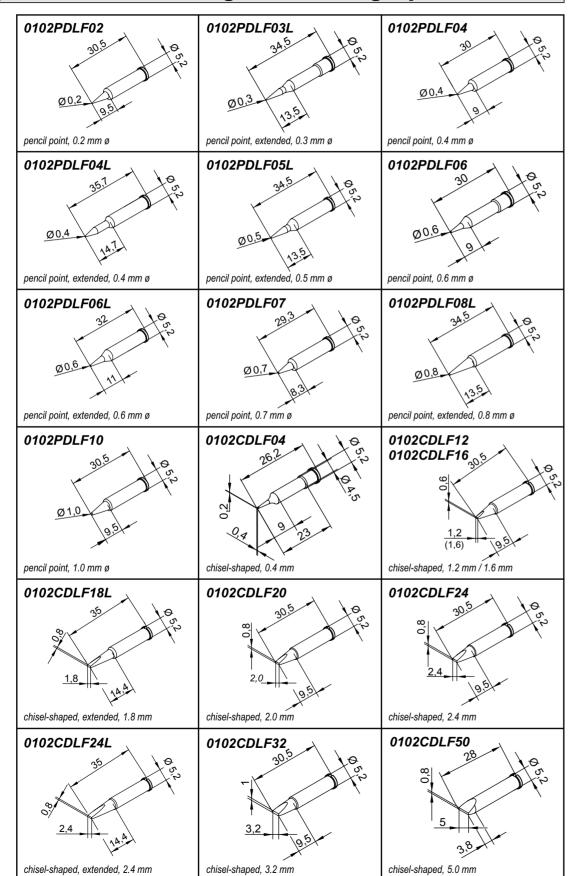




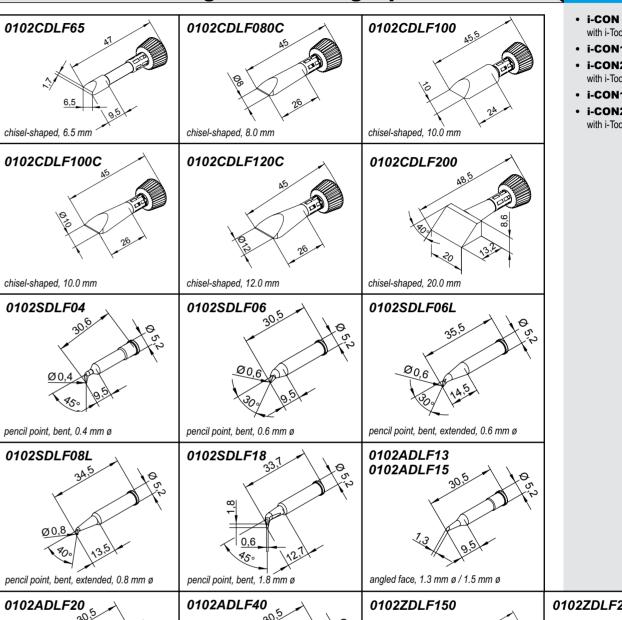
#### • i-CON with i-Tool soldering iron

- i-CON1
- i-CON2 with i-Tool soldering iron
- i-CON1 C
- i-CON2 C with i-Tool soldering iron

# 102 ERSADUR Long-Life Soldering Tip Series



# 102 ERSADUR Long-Life Soldering Tip Series



angled face, 4.0 mm ø

0102WDLF23

PowerWell with concave portion, 1.6 mm ø PowerWell with concave portion, 2.3 mm ø

Wick-Tip, 15.0 mm

0102WDLF35

angled face, 2.0 mm ø

0102WDLF16

### For:

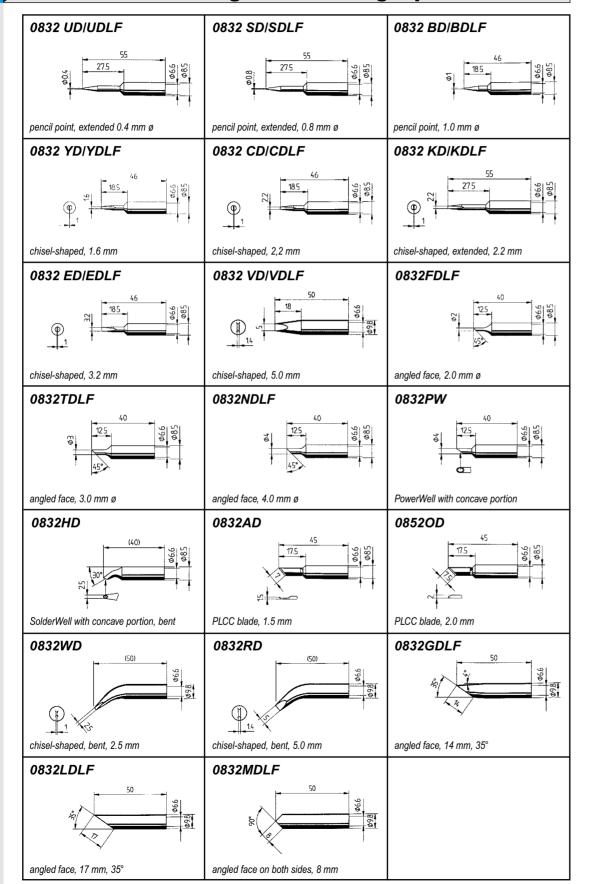
- with i-Tool soldering iron
- · i-CON1
- · i-CON2
- with i-Tool soldering iron
- i-CON1 C
- i-CON2 C with i-Tool soldering iron



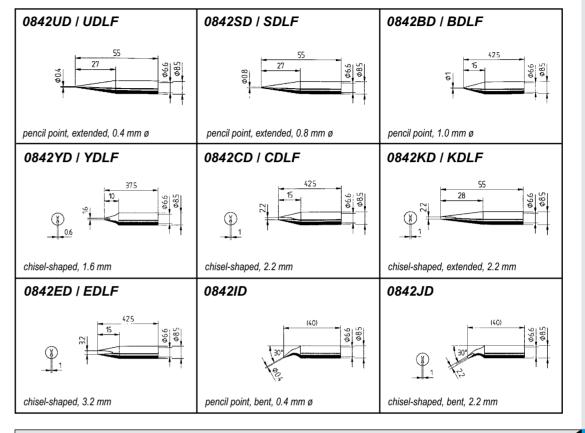
#### • ANALOG 60 / 60 A

- .....
- ANALOG 80 / 80 A
- DIGITAL 80 A
- DIGITAL 2000 A
   with Power Tool soldering
  iron
- ELS 8000 / M / D
- MICRO-CON 60 iA with Power Tool soldering iron
- MS 6000
- MS 8000 / D
- Multi-Pro
- Multi-Sprint
- Multi-TC
- RDS 80
- TWIN 80 A
   with Ergo Tool soldering
  iron

# 832 ERSADUR Long-Life Soldering Tip Series



# 842 ERSADUR Long-Life Soldering Tip Series

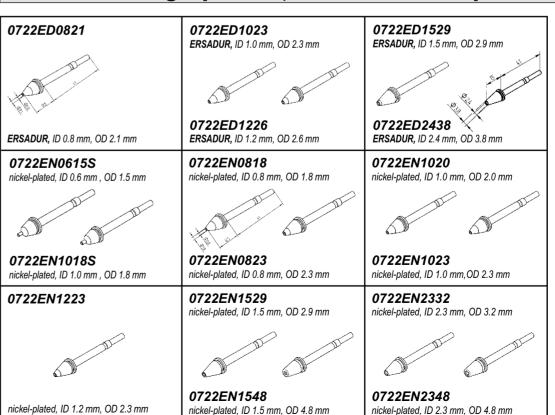


#### For:

- ANALOG 60 / 60 A
- ANALOG 80 / 80 A
- DIGITAL 80 A
- DIGITAL 2000 A
   with Power Tool soldering
- ELS 8000 / M / D
- MICRO-CON 60 iA with Power Tool soldering iron
- MS 6000
- MS 8000 / D
- Multi-Pro
- Multi-SprintMulti-TC
- \_\_\_\_
- RDS 80
- TWIN 80 A
   with Ergo Tool soldering
   iron



# 722 Desoldering Tip Series, ERSADUR / nickel-plated





· XTOOLKIT1 · *i-*CON

For:

with X-Tool desoldering iron

DIGITAL 2000 A

with X-Tool desoldering

with X-Tool desoldering

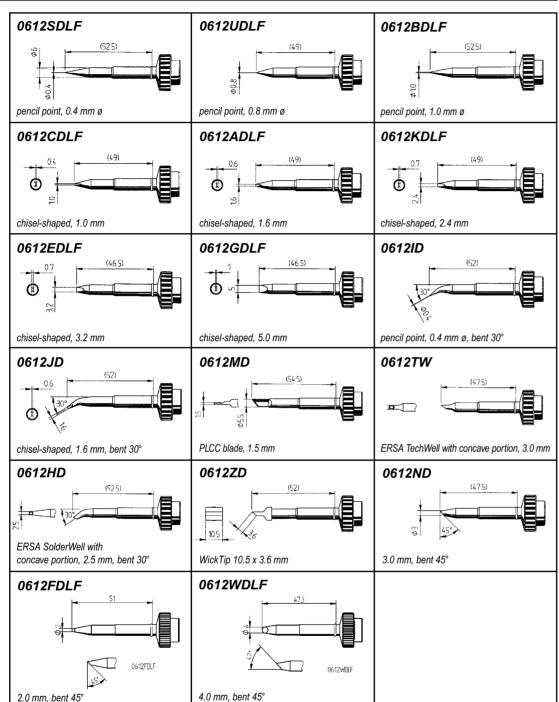






# 612 ERSADUR Long-Life Soldering Tip Series

- CPS 60.10
- DIGITAL 60 A
- DIGITAL 2000 A with Tech Tool soldering
- MICRO-CON 60 iA with Tech Tool soldering

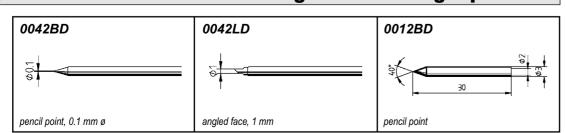


### For:

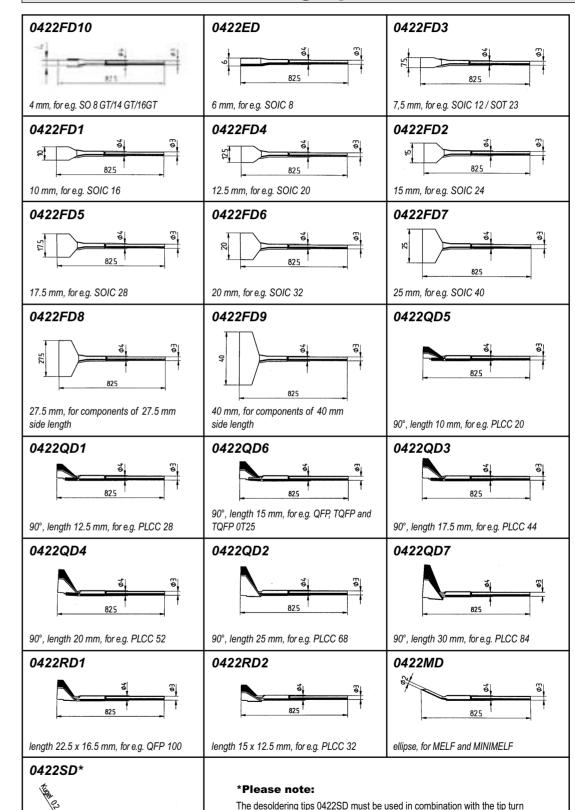
- Minor S
- Minityp S
- (042 series) (tip 0012BD)



# 042 and 012 ERSADUR Long-Life Soldering Tip Series



# **422 ERSADUR Desoldering Tip Series**



protection set to ensure good results.

pincette 40 on request.

for MICROMELF

Tip turn protection set for TC 40 desoldering pincette and desoldering

#### For:

- DIGITAL 2000 A with Chip Tool
- MICRO-CON 60 iA SMD Desoldering Pincette 40
- REWORK 80
- SMD 8000
- SMT UNIT 60 AC / A with Chip Tool / SMD Desoldering Pincette 40
- · i-CON with Chip Tool desoldering
- · i-CON2 with Chip Tool desoldering pincette

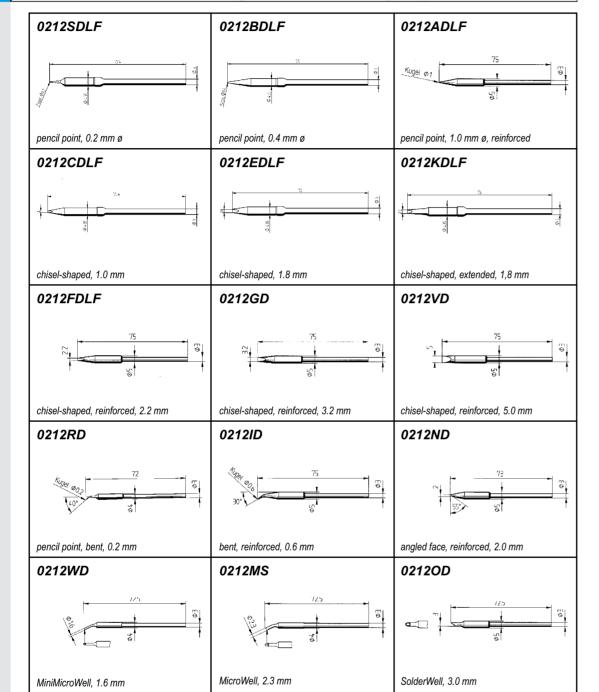




#### ANALOG 20 A

- DIGITAL 2000 A with Micro Tool soldering
- MICRO-CON 60 iA with Micro Tool soldering
- REWORK 80
- SMD 8000
- SMT UNIT 60 A / AS
- TWIN 40 A / AS
- TWIN 80 A with Micro Tool soldering

# 212 ERSADUR Long-Life Soldering Tip Series

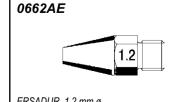


#### • ELS 8000 / M / D

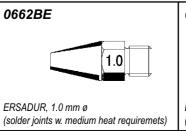
• ELS 8100

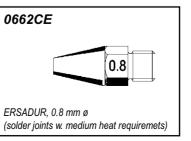


# **662 Desoldering Tip Series**

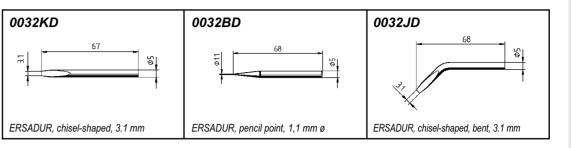


ERSADUR, 1.2 mm ø (solder joints w. medium heat requiremets)





# 032 ERSADUR Long-Life Soldering Tip Series



### For:

• ERSA 30 S



# **052 ERSADUR Long-Life Soldering Tip Series**

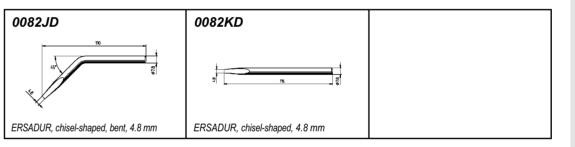


### For:

• ERSA 50 S



# **082 ERSADUR Long-Life Soldering Tip Series**

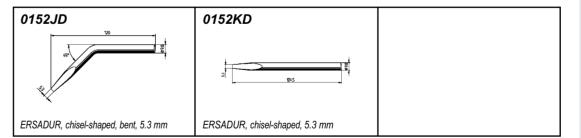


# For:

• ERSA 80 S



# 152 ERSADUR Long-Life Soldering Tip Series

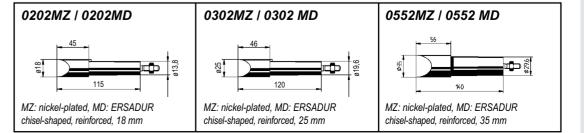


# For:

• ERSA 150 S



# 202, 302 and 552 Soldering Tip Series, ERSADUR / nickel-plated



### For:



• ERSA 300 (302 series)

• ERSA 550 (552 series)





#### • Multitip 25



# For:

#### • Multitip 15

• Tip 260



# For:

• Multitip 08

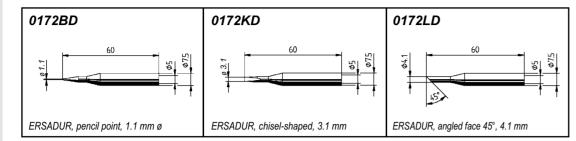


### For:

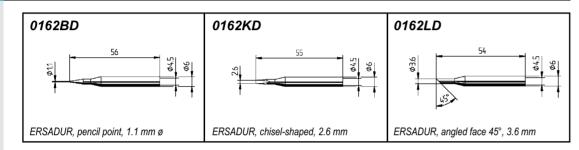
- Independent 75 gas soldering iron (G 072 series)
- Independent 130 gas soldering iron (G 132 series)



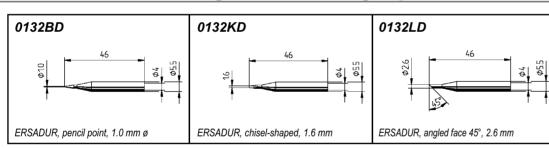
# 172 ERSADUR Long-Life Soldering Tip Series



# **162 ERSADUR Long-Life Soldering Tip Series**



# **132 ERSADUR Long-Life Soldering Tip Series**



# G 072 and G 132 Soldering Tip Series

)G072CN / 0G132CN	0G072KN / 0G132KN	0G072AN / 0G132AN
nisel-shaped, 1.0 mm	chisel-shaped, 2.4 mm	chisel-shaped, 3.2 mm
)G072VN / 0G132VN	0G072BE / 0G132BE	0G072HE / 0G132HE
ngled face, 4,8 mm	flame nozzle	hot gas nozzle
)G072RE   0G132RE	0G072MN / 0G132MN	
leflector for hot gas nozzle G 072 HE / G 132 HE to shrink heat shrinkable sleeves	hot blade	

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0IR650A	IR 650 dynamic IR rework system	230 V
0PL650A	PL 650 precision placement system	230 V
0IR550A	IR 550 dynamic IR rework system	230 V
0PL550A	PL 550 precision placement system	230 V



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90° viewing capability with high magnification for general inspection of PCBs with all component types





**ERSASCOPE 2 plus** 

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ERSASCOPE inspection of

components

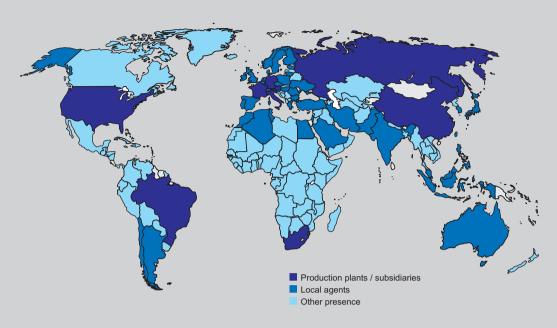
Order no.	Description	Voltage
0VSSC600*	ERSASCOPE 2 plus inspection system	230 V
0VSSC070	ERSASCOPE 1 - Original with ImageDoc Basic software	230 V

<sup>\*</sup>Software available as an option

-
160
A 6-6
To produce
42
materiores
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