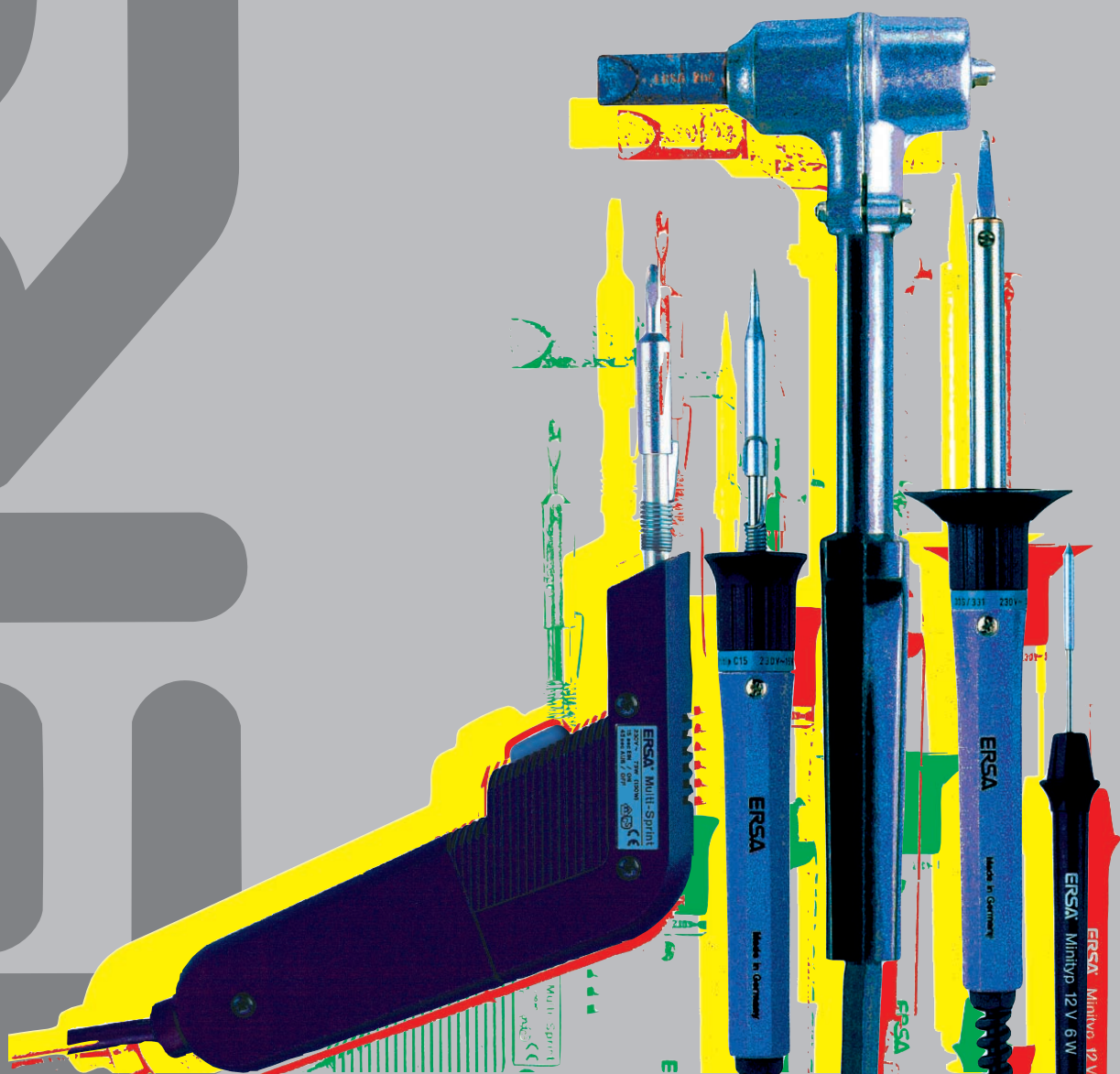
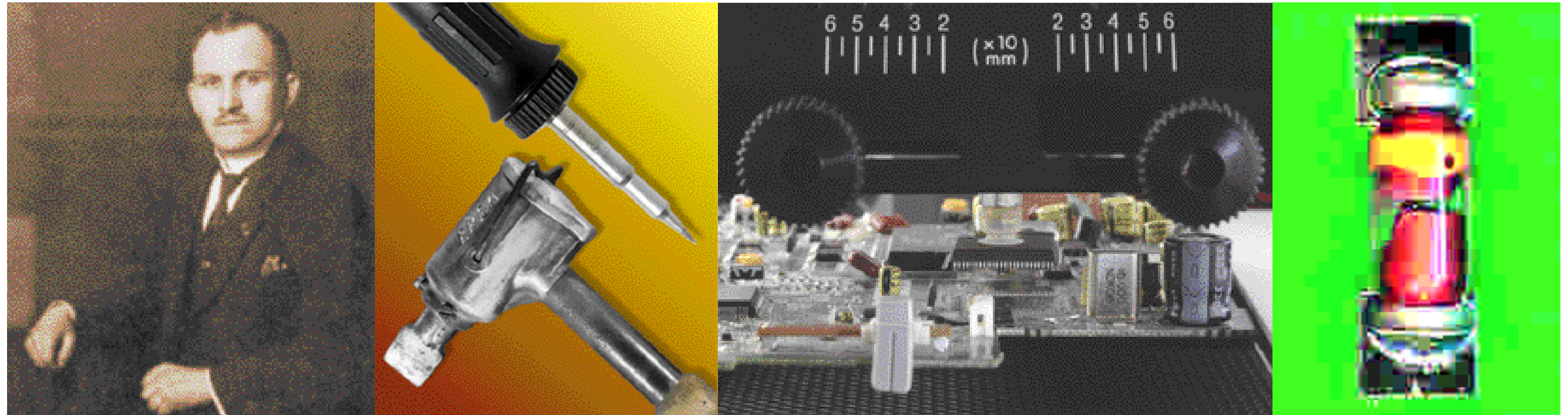


PROFI-LINE CATALOGUE

2000





THE HISTORY
ERSA and Soldering

In 1921, Ernst Sachs, the founder of ERSA, developed the first electric soldering iron for industry, marking the birth of our company. Driven by a desire to innovate, we have devoted ourselves to the continuous development and perfection of soldering technology. Sustained by the pioneering spirit of those early years, and inspired by close relationships with leading companies, the name ERSA (co-founder of the worlds' largest trade fair in the Electronics Industry, „Productronica“) has become indelibly associated with soldering.

THE PRODUCT RANGE
ERSA and Diversity

With the world's largest range of soft soldering products and more than 75 years of industrial experience, ERSA is synonymous with expertise and quality. Our range of hand soldering irons begins with the smallest, 5-watt soldering needle, and covers everything from conventional hand soldering equipment, countless customized solutions for special applications, to the 550-watt workshop soldering iron. Moreover, ERSA's electronically temperature-controlled soldering stations now represent the standard for the entire industry. An extensive range of accessories for soft soldering equipment completes the range.

ERSA quality products have their home in a myriad of places. From hobby shops for Tiffany soldering, plastic welding and model making, to electric hardware shops and DIY stores, and up to the toughest OEM factory, our product range is designed to meet every soldering need.

THE STANDARD
ERSA and SMT

The ever growing importance of SMT (Surface-Mounted Technology) in printed circuit board production places great demands on both users and manufacturers of SMD equipment, and will continue to do so in the future. ERSA's new range of SMD hand soldering tools were developed to permit reproducible process control at the workbench. Our full product range consists of a broad spectrum of soldering tools, soldering tips and modular systems.

From Fine-Pitch QFPs and ceramic hybrids, to mini-MELFs and multiple layer PCBs, our SMT systems meet all your soldering requirements.



Precise control of the production parameters time and temperature is essential for meeting today's Process and Quality Control Standards.

ERSA HOTFLOW - Convection reflow soldering system especially easy to service and maintain, designed for the requirements in modern processes



THE COMPLETE SOLUTION:
ERSA and Soldering Machines

ERSA offers the largest range of hand soldering equipment and soldering machines for soft soldering to be obtained from a single source anywhere in the world. Our spectrum of complete solutions for unit and series production extends from conventional wave and reflow soldering systems to nitrogen and no-clean, in-line selective soldering systems. We also provide solutions for special, customer-specific applications.

THE INNOVATION:
ERSA and New Technologies

Product design, multifunctionality, more and more features and increased component density is only a small part of the miniaturizing trend in the electronics sector. 10,000 to 40,000 - often hidden - solder joints on one PCB combined with rising throughputs and productivity require modified solder processes. Therefore an exact process control for today's SMT systems is necessary.

With the ERSASCOPE Inspection System 3000 ERSA has successfully met these requirements! This revolutionary and unique system offers a cross-sectional, non-destructive visual image of hidden solder joints by looking under and on top of the component. Together with the ERSA ImageDoc Software new standards are set in the quality assurance management. As it is now possible not only to see hidden defects occurred during the soldering process, but also to classify, analyse, correct, document and store them with this system, it is a tool that cannot be renounced in the quality assurance field.

Numerous innovation prizes such as the Baden-Württemberg "Dr.-Rudolf-Eberle-Preis", the "Grand Award for Excellence in Electronics Packaging and Production", USA, the "SMT Vision Award 2000", USA or the "Most Innovative Product", Australia prove this modern inspection system's high degree of innovation.

THE VISION:
ERSA and the Future

As a manufacturer, we are proud to state that engineering drives the further development of our product range. Our primary focus is not just to sell products but rather to solve application problems. The ERSA engineering staff is in touch with the rapidly changing needs and applications of our customers. We are committed to developing equipment that will increase your quality, increase your productivity, and decrease your operating costs. Our goal is simple - the ERSA product development must always remain one step ahead of the advancing technologies in the PCB manufacturing industry. By achieving this goal we are confident that we will continue to serve our customers for another 75 years.



PRODUCTS

Hand Soldering Irons



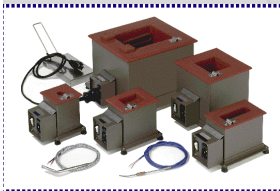
Gas Soldering Irons



Soldering/Desoldering Tools



Special Tools



Workbench Accessories



Miscellaneous

CONTENT

Hand Soldering Irons



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Minor / Minityp
Tip 260
Multitip-Series
Multi-Pro / ERSA 30 S
ERSA 50 / 80 / 150 W
Workshop soldering irons 250 / 350 W
Hammer soldering irons 200/300/550 W
All-insulated soldering irons ISOTYP/IMOS
High-speed soldering iron SL 870
High-speed soldering gun Multi-Sprint
Temperature controlled soldering iron TC 6

Gas Soldering Irons



page 12-13

Independent 60
Gas soldering gun Sprint III
Independent 125 special

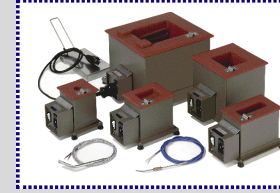
Soldering/Desoldering Tools



page 14-20

Soldering and desoldering station ELS 80
Desoldering station VAC 6500
Desoldering station MS 8100 / D
Solder suckers VAC
Solder suckers Soldapullt
Hot air soldering and desold. station HS 8000
Hot air soldering station HS 8000 P
Soldering station MS 250 / S
Soldering station ANALOG 60

Special Tools



page 21-25

Soldering station for Tiffany ANALOG80
Soldering station for Tiffany DIGITAL 80
Tiffany set TC 65
Wax modeling station WM 1500 S
Plastic welding tool 180 PZ
Solder baths
Temperature controller RA 4000 D

Workbench Accessories



page 26-28

Transformers
Solder wire dispenser SR 100
Solder bars
Solder wire
Solder paste, flux creme
Desoldering wicks
Tool holders
Multifunctional tool, tweezers

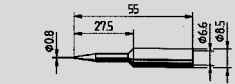
page 29-31

Miscellaneous

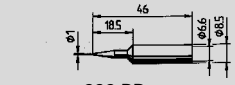
- Content NEW DIMENSION
- Content CLEAN-AIR
- Content IR-REWORK
- Content soldering systems
- Content ERSASCOPE
- Urgent Service Fax
- Tip design (page 14)
- Tip care (page 25)

ERSA Universal Soldering Irons

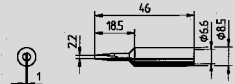
Multi-Pro



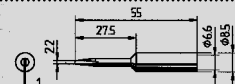
832 SD



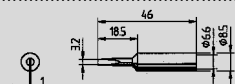
832 BD



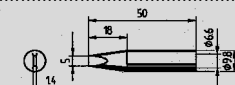
832 CD



832 KD



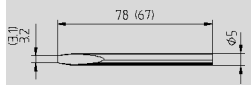
832 ED



832 VD

Please ask for our tip sheet with additional tips!

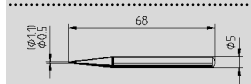
ERSA 30 S



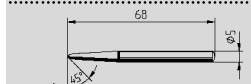
032 KD / KN



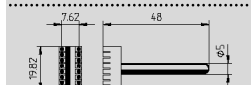
032 JD / JN



032 BD / BN

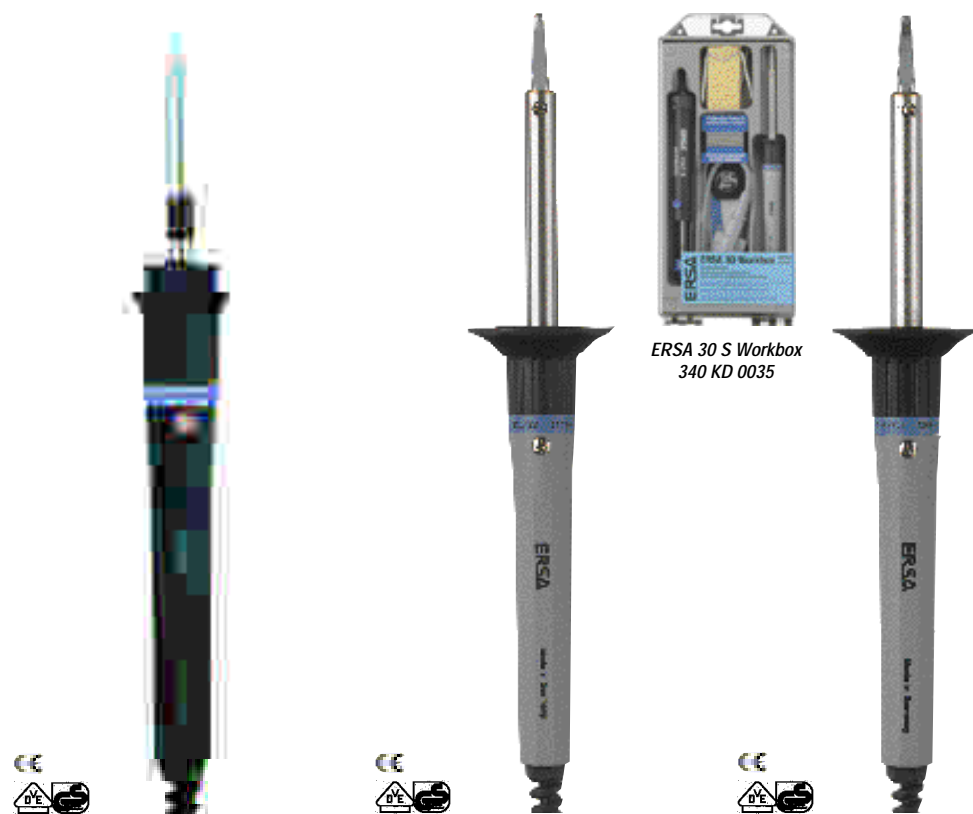


032 CD



032 C 16

Dimensions in brackets for ERSADUR long-life soldering tips (for tip design see page 14)



ERSA Multi-Pro

Extremely flexible and efficient microsoldering tool. In addition to conventional soldering applications also suitable for soldering and desoldering of SMT components. Can be equipped with a wide range of soldering tips.

Technical data:

Rating: 25 W
Heating time: (to 300°C/572°F): with 832 CD soldering tip: appr. 125 s
Soldering tip temperature: with 832 CD sold. tip: appr. 480°C/878°F
Weight without cable: appr. 60 g / 2.1 oz
Cable: 1.6 m / 5.2 ft
H03VV-F, 3 x 0.75 mm² (highly flexible/heat resistant)
Voltage: 230 V

Order nos.:

930 CD ERSA Multi-Pro soldering iron, complete with 832 CD ERSADUR long-life soldering tip and A 18 tool holder
93100 Spare heating element for ERSA Multi-Pro
A 28 Tool holder with integrated tip holder
003B Sponge for A 28
32T00164 Tip exchanger

ERSA 30 S (30 W)

The best-selling and most tried and tested ERSA soldering iron is equipped with a practical stick-on support disk. For multi-purpose use in the craft, service and hobby sector.

Technical data:

Rating: 30 W
Heating time: appr. 2 min
Sold. tip temperature: appr. 380°C/716°F
Weight (without cable): 80 g / 2.8 oz
Cable: 1.5 m / 4.9 ft PVC
Voltage: 230 V
Different voltages on request

Order nos.:

330 KN 30 W soldering iron with 032 KN nickel-plated copper soldering tip and N 194 support disk
330 KD 30 W sold. iron with 032 KD long-life soldering tip and N 194 support disk
330 KD 0028 30 W soldering iron, 24 V, complete with 032 KD sold. tip and 3 N 194 support
330 KN 0028 30 W soldering iron, 230 V, complete with 032 KN sold. tip and 3 N 194 support
33100 Spare heating element for 30 W soldering iron

ERSA 30 S (40W)

Design like ERSA 30 S, but 40 W rating.
Technical data:
Rating: 40 W
Heating time: appr. 2 min
Sold. tip temperature: appr. 420°C/788°F
Weight (without cable): 80 g / 2.8 oz
Cable: 1.5 m / 4.9 ft PVC
Voltage: 230 V

Order nos.:

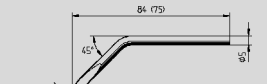
340 KN 40 W soldering iron with 032 KN soldering tip and N 194 support disk
340 KD 40 W soldering iron with 032 KD long-life soldering tip and N 194 support disk
34100 Spare heating element for 40 W soldering iron

The ERSA 30 S Workbox with further accessories completes the equipment.

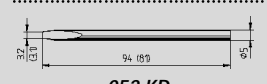
Order nos.:

340 KD 0035 ERSA 30 S Workbox with 40 W soldering iron with 032 KD/032 BD ERSADUR long-life soldering tip, A 18 tool holder, N 194 support disk, tip cleaning sponge with sponge container, 7g/0.25oz of solder wire and antistatic VAC 3 solder sucker

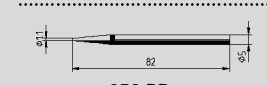
50 W



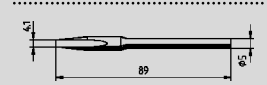
052 JD / JN



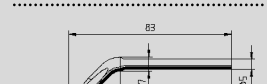
052 KD



052 BD

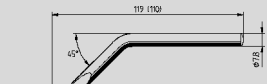


052 ND



052 DD

80 W

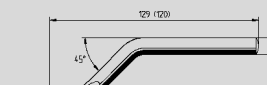


082 JD / JN

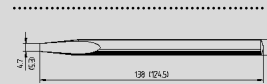


082 KD

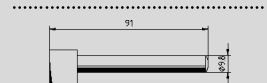
150 W



152 JD / JN



152 KD



152 HD

Dimensions in brackets for ERSADUR long-life soldering tips (for tip design see page 14)

ERSA Standard Soldering Irons



ERSA 50 W

This standard soldering iron is particularly suitable for copper conductor soldering up to a maximum cross section of 2.5 mm² (0.123 in²).

Technical data:

Rating: 50 W
Heating time: appr. 3 min
Sold. tip temperature: appr. 400°C/752°F
Weight (without cable): 160 g / 5.6 oz
Cable: 1.5 m / 4.9 ft, rubber sheathed
Voltage: 230 V
Different voltages on request

Order nos.:

050 JN 50 W soldering iron with 052 JN nickel-plated copper soldering tip and A 04 tool holder
050 JD 50 W soldering iron with 052 JD long-life soldering tip and A 04 tool holder
05100 Spare heating element for 50 W soldering iron

ERSA 80 W

This classic soldering iron is extremely useful to solder copper conductors up to a 4 mm² (0.15 in²) cross section.

Technical data:

Rating: 80 W
Heating time: appr. 3 min
Sold. tip temperature: appr. 410°C/770°F
Weight (without cable): 220 g / 7.6 oz
Cable: 1.5 m / 4.9 ft rubber sheathed
Voltage: 230 V
Different voltages on request

Order nos.:

080 JN 80 W soldering iron with 082 JN nickel-plated copper soldering tip and A 04 tool holder
080 JD 80 W soldering iron with 082 JD long-life soldering tip and A 04 tool holder
08100 Spare heating element for 80 W soldering iron

ERSA 150 W

This externally heated ERSA soldering iron is designed to solder copper cross sections up to 6 mm² (0.2 in²).

Technical data:

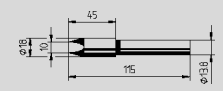
Rating: 150 W
Heating time: appr. 3 min
Sold. tip temperature: appr. 450°C/842°F
Weight (without cable): 245 g / 8.6 oz
Cable: 1.5 m / 4.9 ft rubber sheathed
Voltage: 230 V
Different voltages on request

Order nos.:

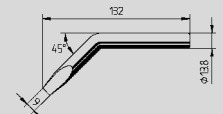
150 JN 150 W soldering iron with 152 JN nickel-plated copper soldering tip and A 04 tool holder
150 JD 150 W soldering iron with 152 JD long-life soldering tip and A 04 tool holder
15100 Spare heating element for 150 W soldering iron

ERSA Workshop Soldering Irons

250 W

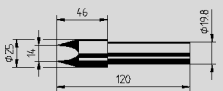


252 FZ

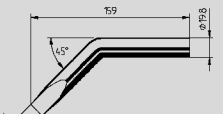


252 JZ

350 W

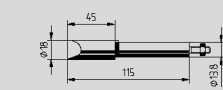


352 FZ



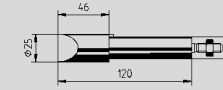
352 JZ

200 W



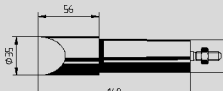
202 MZ

300 W



302 MZ

550 W



552 MZ



Fig: ERSA 350 FZ



Fig: ERSA 200 MZ



Fig: ERSA 550 MZ

ERSA 250 / 350 W

Thanks to their stretched form, these powerful workshop soldering irons are ideal for internal soldering work in a container, car body construction and for radiator repair. They easily fit in any clamping device and can be used to heat branding irons for wood or plastic marking purposes.

Technical data:
 Rating: 250 W / 350 W
 Heating time: appr. 4.5 min / 5.5 min
 Soldering tip temperature: appr. 460°C (860°F) / 510°C (950°F)
 Weight (w/o. cable): 580g (20oz)/930g (32oz)
 Cable: 1.5 m / 4.9 ft rubber sheathed
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 250 FZ 250 W soldering iron with 252 FZ non-scaling sold. tip and A 17 tool holder
 - 350 FZ 350 W soldering iron with 352 FZ non-scaling sold. tip and A 17 tool holder
 - 25100 Spare heating element 250 W
 - 35100 Spare heating element 350 W

ERSA Hammer soldering irons 200 / 300 / 550 W

The hammer-shaped soldering iron series is particularly suitable for sheet tinning and installation work as well as collector and copper rail soldering. Additionally, they are the most competent choice for car body rework and lead panes.

Technical data:
 ERSA 200
 Rating: 200 W
 Heating time: appr. 5 min
 Sold. tip temperature: appr. 470°C/878°F
 Weight (without cable): 550 g / 1.9 oz
 Cable: 1.5 m / 4.9 ft rubber sheathed
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 200 MZ 200 W hammer soldering iron with 202 MZ non-scaling soldering tip and A 17 tool holder
 - 20100 Spare heating element 200 W

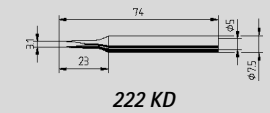
Technical data:
 ERSA 300
 Rating: 300 W
 Heating time: appr. 5 min
 Sold. tip temperature: appr. 470°C/878°F
 Weight (without cable): 870 g / 30 oz
 Cable: 1.5 m / 4.9 ft rubber sheathed
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 300 MZ 300 W hammer sold. iron with 302 MZ non-scaling sold. tip and A 17 tool holder
 - 30100 Spare heating element 300 W

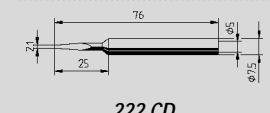
Technical data:
 ERSA 550
 Rating: 550 W
 Heating time: appr. 7 min
 Sold. tip temperature: appr. 600°C/1,112°F
 Weight (without cable): 1,770 g / 62 oz
 Cable: 1.5 m / 4.9 ft rubber sheathed
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 550 MZ 550 W hammer sold. iron with 552 MZ non-scaling sold. tip and A 17 tool holder
 - 55100 Spare heating element 550 W

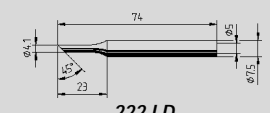
ISOTYP 20 / IMOS 20



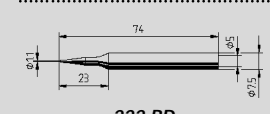
222 KD



222 CD

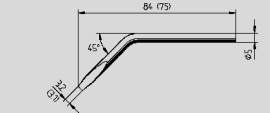


222 LD

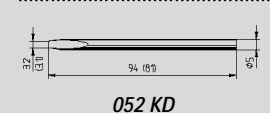


222 BD

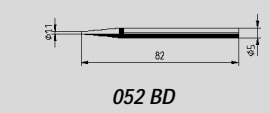
ISOTYP 60



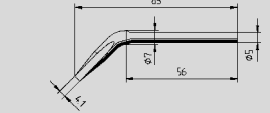
052 JD / JN



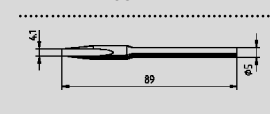
052 KD



052 BD

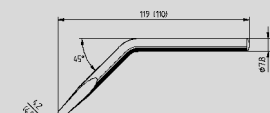


052 DD



052 ND

ISOTYP 90



082 JD / JN



082 KD

Dimensions in brackets for ERSADUR long-life soldering tips (for tip design see page 14)

ERSA All-Insulated Soldering Irons



ERSA ISOTYP 20 / 60 / 90

Preferred application of these soldering irons is the telecommunications industry. Thanks to the protective insulation the usual earthing conductor becomes superfluous. Work with these soldering irons on running telecommunications systems is possible without impairing proper functioning of the systems. Each soldering iron was heated with 10% overvoltage and breakdown strength tested at 3,500 V-. In addition, the heating element is water proof.

Technical data:
 ISOTYP 20
 Rating: 25 W
 Heating time: appr. 60 s
 Sold. tip temperature: appr. 430°C/860°F
 Weight (without cable): 50 g / 1.8 oz
 Cable: 2m/6.5ft PVC 2x0.75 mm² (1.9 in²)
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 020 KD ISOTYP 20/25W soldering iron with 222 KD long-life soldering tip and A 18 tool holder

Technical data:
 ISOTYP 60
 Rating: 40 W
 Heating time: appr. 3 min
 Sold. tip temperature: appr. 340°C/644°F
 Weight (without cable): 115 g / 4 oz
 Cable: 3.5 m rubber sheathed 2x0.75 mm²
 11.5 ft rubber sheathed 2x1.9 in²
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 060 ND ISOTYP 60 soldering iron with 052 ND long-life soldering tip and A 18 tool holder

Technical data:
 ISOTYP 90
 Rating: 90 W
 Heating time: appr. 2.5 min
 Sold. tip temperature: appr. 400°C/752°F
 Weight (without cable): 290 g / 10.2 oz
 Cable: 3.5 m rubber sheathed 2x0.75 mm²
 11.5 ft rubber sheathed 2x1.9 in²
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 090 KD ISOTYP 90 sold. iron with 082 KD ERSADUR long-life sold. tip and A 04 holder

ERSA IMOS 20

This soldering iron features the same heating element structure as ISOTYP 20. For electrostatic protection of sensitive components, the soldering tip is clipped to the tubular leg, and via RC-module connected to the soldering iron handle, providing a high-resistance connection to the earthing conductor. For class II testing purposes, the high-resistance ground connection can be interrupted by simply removing the clip.

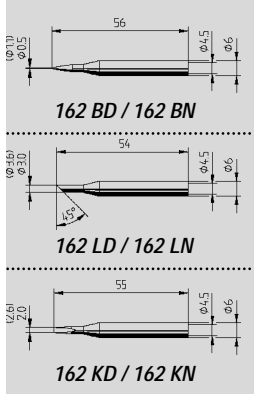
Technical data:
 Rating: 25 W
 Heating time: appr. 60 s
 Sold. tip temperature: appr. 430°C/806°F
 Weight (without cable): 50 g / 1.8 oz
 Cable: 2m/6.5ft PVC 2x0.75 mm² (1.9 in²)
 Voltage: 230 V
 Different voltages on request

- Order nos.:**
- 120 KD IMOS 20/25W soldering iron with 222 KD long-life soldering tip and A 18 tool holder

The all-insulated soldering irons are sealed. For safety reasons, repair must be performed at the factory.

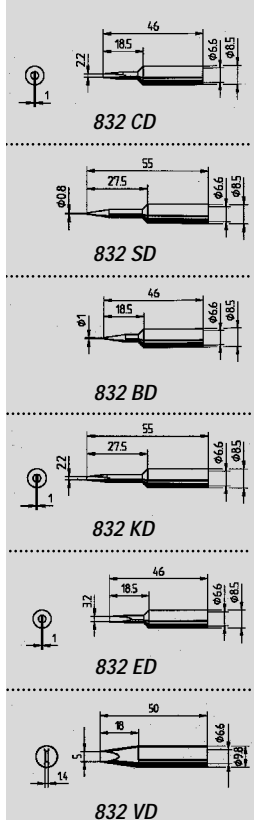
ERSA High-Speed Soldering Irons

SL 870



Dimensions in brackets for ERSADUR long-life soldering tips

Multi-Sprint



Please ask for our tip sheet with additional tips! (for tip design see page 14)



ERSA SL 870

An extremely light high-speed soldering iron designed for service and do-it-yourselfers. The PTC heating element with a high heat-up rating and internally heated soldering tip provides max. performance as long as the button is pressed, which is ideal for high-speed series soldering. The heat supply can be adapted to the joint's soldering requirements by periodically pressing the button. The ERSA SL 870 meets the same applications as the standard soldering irons between 15 W and 100 W.

Technical data:
 Cold rating: appr. 150 W
 Heated rating: appr. 60 W
 Heating time: appr. 20 s
 Weight (without cable): 110 g / 3.9 oz
 Cable: 1.5 m / 4.9 ft PVC
 Voltage: 230 V
 Different voltages on request

Order nos.:
 870 LN Soldering iron with 162 LN nickel-plated copper sold. tip
 870 LD Soldering iron with 162 LD long-life soldering tip
 87100 Spare heating element for SL 870 high-speed sold. iron

ERSA Multi-Sprint

An unusually light and transformer-independent solder gun with PTC heating element providing high heat-up rating. The ERSADUR long-life soldering tip is only heated as long as the button is pressed. Thanks to the very short heating times it is ideal for high-speed series soldering. The heat supply can be adapted to the soldering requirements by periodically pressing the button. The internally heated soldering tip ensures high performance. The Multi-Sprint is ideal for assemblies and repairs requiring a rating from 15 - 100 W.

Technical data:
 Cold rating: appr. 150 W
 Heated rating: appr. 75 W
 Heating time: appr. 20 s
 Weight (without cable): 100 g / 4 oz !
 Cable: 1.4 m / 4.6 ft PVC
 Voltage: 230 V

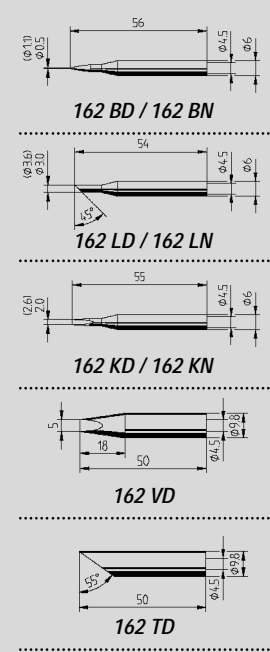
Order nos.:
 960 ED Solder gun with 832 ED long-life soldering tip

Spare parts:
 96100 Heating element for Multi-Sprint, 230 V, 75 W



ERSA TC 65

TC 65



Dimensions in brackets for ERSADUR long-life soldering tips (for tip design see page 14)

Also available as Tiffany-set for beginners (see page 22)



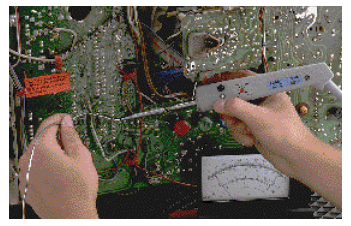
Soldering iron with electronic temperature control

The ERSA TC 65 is a very light, electronically temperature-controlled soldering iron with a high heat-up rating ensured by the PTC (Positive Temperature Coefficient) heating element. The soldering iron operates with the proven ERSA-RESISTRONIC temperature control, with the heating element functioning as temperature probe at the same time. You can adjust the desired soldering tip temperature on a continuous scale. Independently, a POWER-button allows quick heating to maximum temperature, which is extremely useful when soldering joints with a high heat capacity. The heating cycles are LED-signaled. No heavy transformer is required for this mains operated temperature controlled soldering iron making it a popular addition to all service work cases. In addition, it is favored for hobby electronics and entry level Tiffany soldering (see p. 22). The high performance provided by

internally heated soldering tips and the great range of tips available allow a wide field of applications comparable to those of the standard soldering irons between 15 W and 100 W.

Technical data:
 Cold rating: appr. 150 W
 Heated rating: appr. 50 W/350°C (662°F)
 Temp. range: ca. 200-440°C(392-824°F)
 Heating time: appr. 30 s
 Weight (without cable): 95 g / 3.4 oz
 Cable: 1.5 m / 4.9 ft PVC
 Voltage: 230 V, 50-60 Hz

Order nos.:
 650 KD TC 65 soldering iron with 162 KD long-life sold. tip and A 18 tool holder
 65100 Spare heating element for TC65
 655 TC65 spare control board



TC 65 Service-Box

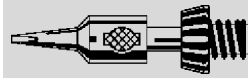
This practical soldering and desoldering set is most suitable to handle many soldering and desoldering tasks in a professional manner and without problems. The set comes complete with useful accessories. The particular characteristics of the ERSA TC 65 soldering iron are described in the left-hand text.

Technical data:
 Cold rating: appr. 150 W
 Heated rating: appr. 50 W/350°C (662°F)
 Temp. range: appr. 200-440°C(392-824°F)
 Heating time: appr. 30 s
 Weight (without cable): 95 g / 3.4 oz
 Cable: 1.5 m / 4.9 ft PVC
 Voltage: 230 V, 50-60 Hz
 Solder sucker VAC 3: see page 17

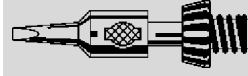
Order nos.:
 650 KD 0035 ERSA TC 65 Service-Box TC 65 soldering iron incl. 162 KD/162 BD ERSADUR long-life soldering tip, A 18 tool holder tip cleaning sponge with sponge container, 7 g/0.25 oz of solder wire and ERSA VAC 3 antistatic solder sucker

ERSA Independent 60

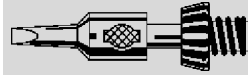
Independent 60



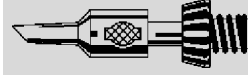
G 152 CN
chisel-shaped, 1.0 mm



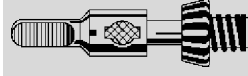
G 152 KN
chisel-shaped, 2.4 mm



G 152 AN
chisel-shaped, 3.2 mm



G 152 VN
angled face, 4.8 mm



G 152 MN
Hot blade



G 152 HE
Hot gas nozzle



G 152 BE
Flame nozzle



Gas soldering set for maximum soldering ease

The professional construction and equipment make this easy-to-handle gas soldering set so versatile. The ergonomic gas soldering iron with its G 152 KN chisel-type catalyst soldering tip is the ideal tool for service when performing repair and maintenance, especially in places where no mains supply is available.

The set comes complete with an additional chisel-type catalyst soldering tip. For larger soldering joints soldering tips are available in sizes up to 4.8 mm (0.89 in). Optional equipment: hot blade for high resistance foam forming and cutting, hot-gas nozzle to work smaller shrink sleeves and to solder SMD-components, flame

Technical data:

Rating: 10 to 60 W
Operating time for one gas filling:
max. 90 min
Tank volume: 12.7 ml / 0.003 gal
Heating time: appr. 40 s
Sold. tip temperature: max. 400°C/752°F
Weight: 45 g / 1.6 oz
Ignition: cap-integrated
Butane gas operated

Order nos.:

G25400041 Independent 60 gas soldering set, complete, consisting of:
G 250 KN Gas soldering iron with G 152 KN soldering tip
G 152 CN Chisel-type soldering tip A 20
006 Cleaning sponge
G 156 Sponge container
KF 006 Plastic storage case with inlay

Accessories:

G 806 K Gas cartridge 65ml/0.014gal

ERSA Gas-Sprint III

Gas-Sprint III



G 822 CD



High-power gas solder gun

The ERSA Gas-Sprint III is the preferred tool for the telecommunications industry. Additionally, it proves useful for building sites, servicing, emergency services and other fields of applications. The catalytic combustion is triggered by the integrated piezo-electric igniter. The solid metal service case provides for safe transport and storage of the gas solder gun.

Technical data:

Rating: 80 to 150 W
Operating time for one gas filling:
max. 180 min
Tank volume: 80 ml
Heating time: appr. 40 s
Sold. tip temperature: max. 450°C/842°F
Weight (without case): appr. 400g/14.1oz
Butane gas operated

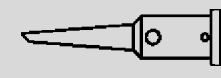
Order nos.:

G 824 CD Gas-Sprint III set consisting of:
G 820 CD Gas soldering gun with G 822 CD long-life sold. tip
Cleaning brush
ZT 00051
VP 00091 Metal service case

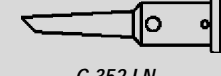
Accessories:

G 806 K Gas cartridge 65ml/0.014gal

Independent 125 special



G 352 UN
angled face, 1.0 mm



G 352 LN
angled face, 2.4 mm



G 352 GN
angled face, 3.2 mm



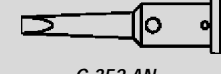
G 352 VN
angled face, 4.8 mm



G 352 CN
chisel-shaped, 1.0 mm



G 352 KN
chisel-shaped, 2.4 mm



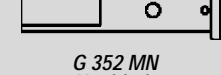
G 352 AN
chisel-shaped, 3.2 mm



G 352 EN
chisel-shaped, 4.8 mm



G 352 HE
Hot gas nozzle



G 352 MN
Hot blade



ERSA Independent 125 special



The "profi" gas soldering iron for greater performance

This "larger edition" of the ERSA Independent 60 is most suitable in situations where sophisticated soldering solutions are required off-the-line, as for example servicing, installation, repair and maintenance.

The ERSA Independent 125 special is particularly convincing in view of its amazing multi-functionality. With its large selection of soldering tips coming in sizes between 1 mm (0.039 in) and 4.8 mm (0.189 in) and different shapes, plus hot-gas nozzle and hot blade, it can be used in many fields of application. Nonetheless, it is surprisingly light and easy-to-handle. Using customary gas cartridges, butane gas refill is as easy as with a normal gas lighter. One filling suits for a maximum operating time of 120 min.

The integrated piezoelectric igniter allows easy and safe start-up. As a safeguard against any unintentional use, the practical closing cap is designed to automatically shut down the device when attached to it. According to the application, some of the sets are available in a solid metal case.

Order nos.:

G 354 00041 "Basic-Set"
ERSA Independent 125 special gas soldering set, complete, consisting of:
G 350 KN Gas soldering iron with G 352 KN soldering tip
G 352 CN Chisel-shaped soldering tip
G 352 EN Chisel-shaped soldering tip
G 352 HE Hot gas nozzle
G 352 MN Hot blade
006 Cleaning sponge
G 156 Sponge container

G 354 00141 "Profi-Set"
ERSA Independent 125 special gas soldering set, complete, consisting of:
G 350 KN Gas soldering iron with G 352 KN soldering tip
G 352 CN Chisel-shaped soldering tip
G 352 EN Chisel-shaped soldering tip
G 352 HE Hot gas nozzle
G 352 MN Hot blade
010MM0100FR Solder wire, 100g/3.5oz
G 806 K Gas cartridge
006 Cleaning sponge
G 156 Sponge container
3VP00502 Metal case with inlay

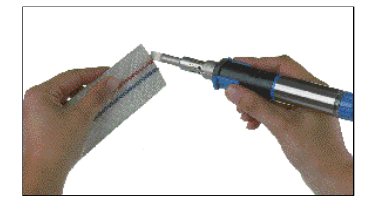
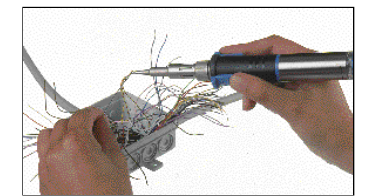
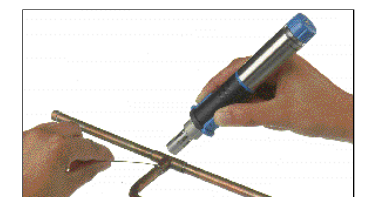
G 354 00241 "Service-Set"
ERSA Independent 125 special gas soldering set, complete, consisting of:
G 350 KN Gas soldering iron with G 352 KN soldering tip
G 352 HE Hot gas nozzle
006 Cleaning sponge
G 156 Sponge container
3VP00502 Metal case with inlay

Technical data:

Rating: 25 to 125 W
Operating time for one gas filling:
max. 120 min
Tank volume: 21 ml / 0.005 gal
Heating time: appr. 30 s
Sold. tip temperature: max. 580°C/1076°F
Weight (w/o. metal case): appr. 140g/4.9oz
Igniter: piezoelectric
Butane gas operated

Accessories:

G 806 K Gas cartridge 65 ml / 0.014 gal



ERSA ELS 8000

ELS 8000

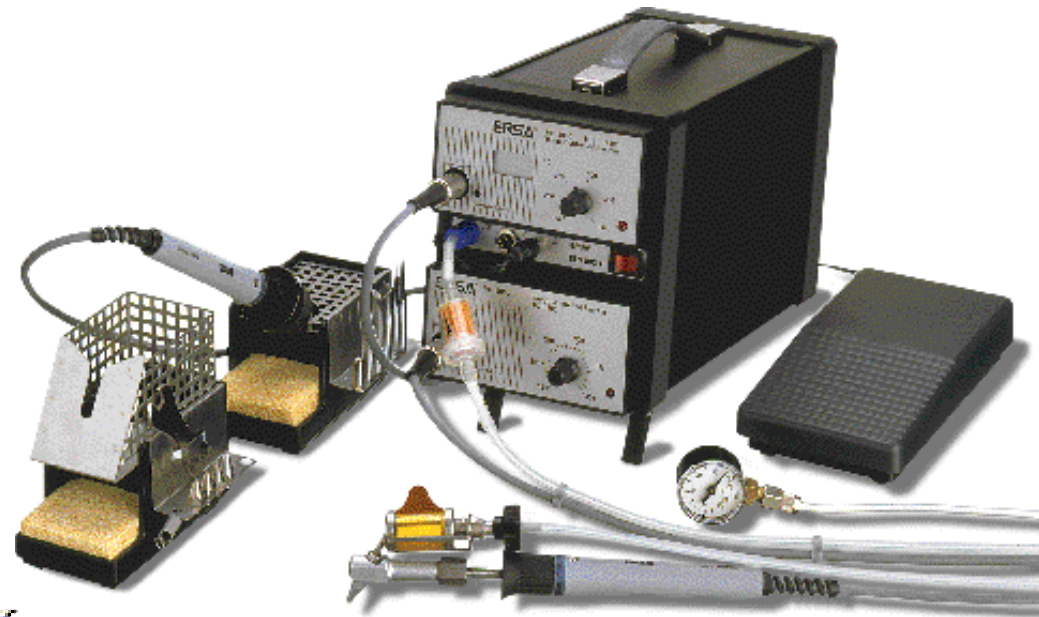


Fig.: ERSA ELS 8000 M with optional soldering and desoldering tips

Electronically temperature-controlled soldering and desoldering station

The electronically temperature-controlled ERSA ELS 8000 soldering and desoldering station is suitable for a wide range of applications for industrial, laboratory and repair work. The ELS 803 H supply unit incorporates a high-power vacuum/compressor unit to make the station independent from compressed air supply. The station also features an integrated 230/24 V mains supply providing connection of two control units. The electronic control units TCS 800 and TCS 800 D (with digital temperature display) are mounted to the supply unit. The temperature of the soldering tip can be adjusted on a continuous scale between 150°C (302°F) and 400°C (752°F).

The station's electronics control measures the actual temperature by means of a thermocouple located near the tip of the soldering or desoldering iron and compares it to the set temperature. The operating status is LED-displayed. The sensitive electronics adjust the heating energy to the operating status (idle or load), depending on temperature difference and heat requirements. The soldering or desoldering tip is provided with an integrated high-resistance connection to the potential equalization socket.

In addition, the 810 CDJ soldering iron is extremely powerful, thanks to its ceramic heating element featuring a high PTC (Positive Temperature Coefficient) and 80 watt rating (at 350°C / 662°F).

Since the cold soldering iron's power draw is a multiple of its nominal rating, the iron is ready for operation within a short time.

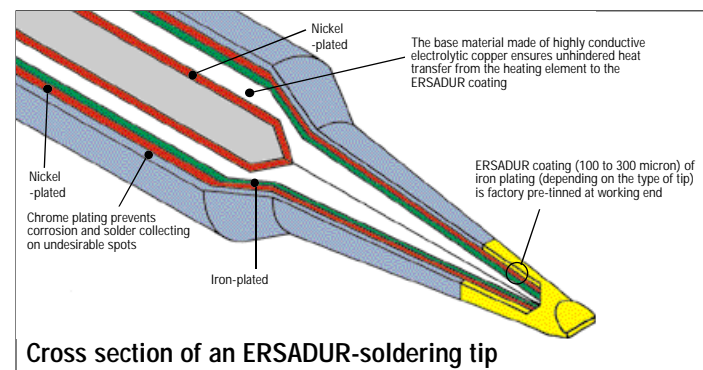
Outstanding features of the internally heated ERSADUR long-life soldering tips are the remarkable thermal conduction and long service life.

The 820 AEJ desoldering iron is fitted with a PTC (Positive Temperature Coefficient) ceramic heating element with integrated temperature probe.

The solder compartment incorporates a heat-resistant glass tube and holder. A knurled screw provides easy and quick removal of solder gathered in the solder compartment. The device is galvanically isolated from the mains supply by means of a safety transformer and operates at a low voltage of 24 V.

The electronics control provides for zero crossing energy supply. A potential equalization socket providing a high-resistance connection to the desoldering tip (or soldering tip) is installed on the front of the control unit.

This socket ensures easy integration of the desoldering iron (or soldering iron) into the potential equalization of the workplace.



Cross section of an ERSADUR-soldering tip

ELS 8000



662 AE



662 BE



662 CE



662 AL



662 BL



662 CL

For high heat requirements



662 AN



662 BN



662 CN



662 DN

ERSA modular system

- ELS 8000: p. 14/15
- ELS 8000 M: p. 14/15
- ELS 8000 D: p. 14/15
- MS 8100: p. 16
- MS 8100 D: p. 16
- HS 8000 P: p. 18
- HS 8000 G: p. 18
- SNT 80: p. 26
- RW 8000: p. 29



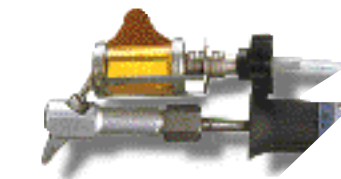
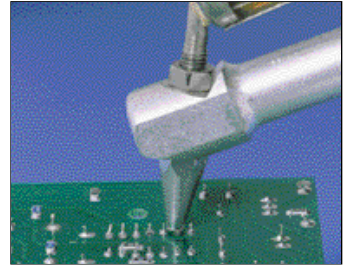
Technical data:
ELS 803 H supply unit with integrated vacuum/compressor unit
 Rating: 240 W
 Supply voltage: 230 V -
 Secondary voltage: 24 V -
 Fuse: 1 AT 0.5 x 20 mm (0.02 x 0.78 in)
 Flow rate: max. 7 NI/min max.
TCS 800 electronic control unit
 Voltage: 24 V -
 Adjustment range: continuous between 150°C (302°F) and 400°C (752°F)
 Temperature adjustment: variable or fixable
 Function display: LED
TCS 800 D electronic control unit with digital display, see TCS 800
 Temperature display: actual value in °C with 3-digit LCD display
810 CDJ soldering iron Basic tool 80
 Rating: 80 W at 350°C/662°F
 Voltage: 24 V -
 Heating time: appr. 35 s
 Weight (without cable): 52 g / 1.83 oz
 Cable: 1.5 m / 4.9 ft silicone

820 AEJ desoldering iron
 Rating: 80 W at 350°C/662°F
 Voltage: 24 V -
 Heating time: appr. 90 s
 Weight (without cable): appr. 135g/4.76oz
 Cable: 1.5 m / 4.9 ft silicone
 Suction tube: 1.5 m / 4.9 ft silicone
FES 820 foot switch
 Voltage: 24 V, 6 A

Order nos.:
ELS 8000 Soldering and desoldering station with two TCS 800 control units
ELS 8000 M Soldering and desoldering station with TCS 800 and TCS 800 D control unit
ELS 8000 D Soldering and desoldering station with two CS 800 D control units
 and for each ELS 8000 model:
ELS 803 H Supply unit
810 CDJ 80 W soldering iron with 832 CD long-life sold. tip
820 AEJ Desoldering iron
FES 820 Foot switch

A 09 Tool holder for 810 CDJ
SH 01 Soldering tip holder
A 13 Tool holder for 820 AEJ
SH 02 Desoldering tip holder
VM 01 Vacuum gauge
3 N 090 Cleaning brush
3 YN2018-00 Straight-way filter
Spare parts:
81100J Heating element for 810 CDJ
82100J Heating element for 820 AEJ and 820 ACJ

Accessories:
602 TE Mini solder bath
607 AE Desoldering head



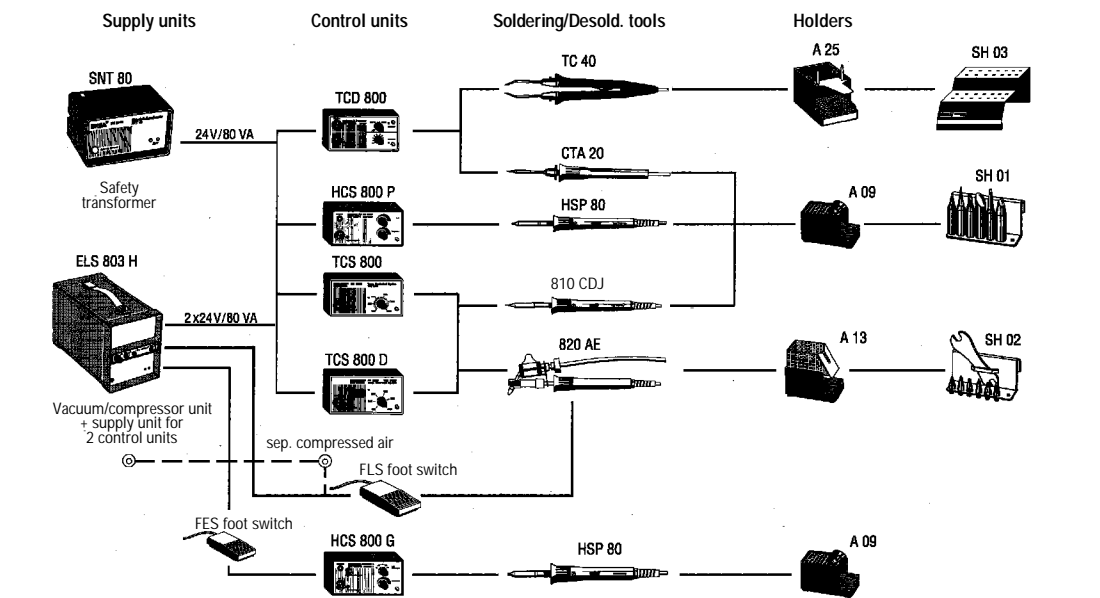
Soldering iron not included

The 607 AC desoldering head is suitable for reliable and quick batch desoldering of wire-ended high-mass or multi-layer components.

The 820 AEJ desoldering and 810 CDJ soldering iron can be retrofitted with the 607 AC desoldering head.

Order nos.:
607 AC Copper desoldering head complete

ERSA special desoldering head for desoldering with major heat requirements



ERSA modular system for more flexibility and higher profitability

The ERSA modular system, tailor-made for a great variety of applications, was designed to increase the multi-functionality of

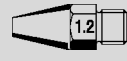
soldering and desoldering stations. The individual modules can be combined according to the specific requirements.

Simple tool changing turns soldering systems into desoldering systems and vice versa. A real advantage for ERSA clients.

ERSA MS 8100 / D

MS 8100/D / VAC6500

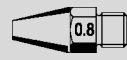
For joints with medium heat requirements.



662 AE



662 BE



662 CE

For joints with low heat requirements.



662 AL

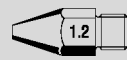


662 BL



662 CL

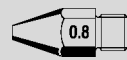
For joints with high heat requirements (multi-layer) (suitable for MS 8100/D only)



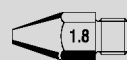
662 AN



662 BN



662 CN



662 DN



Abb: ERSA MS 8100 D



Desoldering station for external compressed air supply

Technical data:

SNT 80 safety transformer
Rating: 80 W
Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 24 V -
All-insulated type
Insulation class E
Cable: 2 m / 6.56 ft PVC

TCS 800 electronic control units:
Voltage: 24 V -
Adjustment range: continuous between 150°C (302°F) and 400°C (752°F)
Temperature adjustment: variable or fixable
Function display: red LED or TCS 800 D

Temperature display: actual value in °C with 3-digit LCD display

820 AEJ desoldering iron
Rating: 80 W (350°C/592°F)
Voltage: 24 V -
Heating time: appr. 1.5 min (350°C/662°F)
Weight (without cable): 135 g / 4.7 oz
Cable: 1.5 m / 4.9 ft silicone
Suction tube: 1.5 m / 4.9 ft silicone

FLS 810 foot switch
Operating pressure: 3.5 - 6 bar
Compressed air connection for 6/4 PE-tube
Air consumption: 8.8 NI/min (6 bar)
Vacuum: venturi nozzle generated, negative pressure: max. -0.7 bar
Vacuum rate: max. 4.3 NI/min

Order nos.:

MS 8100 Desoldering station, complete, consisting of:
SNT 80 Safety transformer
TCS 800 Electronic control unit
820 AEJ Desoldering iron
FLS 810 Foot switch
A 13 Tool holder
3 N 090 Cleaning brush
3YN2018-00 Straight-way filter

MS 8100 D Desoldering station with digital display, complete, see above excepting TCS 800 replaced by Control unit with digital display

This desoldering tool is designed for the same professional use as described for ELS 8000 but needs an external compressed air connection.

The vacuum required for solder suction is generated in the FLS 810 foot switch. Best performance is ensured at a constant 5 bar pressure, which results in high desoldering properties comparable to those of ELS 8000. For details on the temperature adjustment and desoldering iron refer to the description on page 14 (ELS 8000).

VAC 6500



Desoldering station with integrated vacuum pump

The ideal desoldering station for single sided PCB's. High heating capacity thanks to its PTC (Positive Temperature Coefficient) heating element. Using the proven ERSA-RESISTRONIC temperature control, the heating element functions

as a temperature probe at the same time. You can adjust the desired temperature on a continuous scale. A handle-integrated switch starts the vacuum pump. The transparent solder compartment incorporates a heat-resistant glass tube and holder.

For easy and quick removal of the solder sucked into the solder compartment simply open the provided knurled screw. No tools are required.

Technical data:

Voltage: 230 V, 50 Hz
Total rating: 70 W / 350°C (662°F)
Heating capacity: 50 W / 350°C (662°F)
Temp. range: 200-440°C (392-824°F)
Heating time: appr. 3.5 min/350°C(662°F)
Weight desoldering iron (without cable): 180 g / 6.3 oz
Cable: 1.5 m / 4.9 ft PVC

Order nos.:

VAC 6500 VAC 6500 desoldering station complete
consisting of:
VAC 653 Vacuum unit
650 AE TC 65 E desoldering tool incl. 657 AE desoldering head
A 13 Tool holder for 650 AE
3YN2018-00 Straight-way filter

Spare parts:

657 AE Desoldering head

ERSA VAC 2/3/5

VAC 2 / 3 / 5



VAC 22



VAC 32



VAC 52



Antistatic standard solder suckers

Outstanding features of the ERSA VAC 2, ERSA VAC 3 and ERSA VAC 5 solder suckers are the high pumping performance and low backlash desoldering properties. The antistatic construction allows carefree desoldering of electrostatically irritable assemblies. The double-gasket system ensures constant pumping performance. The long, slim desoldering tips also allow work on closely assembled boards.

Technical data:

VAC 2 solder sucker
Suction capacity: 8.9 cm³ (22.6 in³)
Design: metal, antistatic
VAC 3 solder sucker
Suction capacity: 10 cm³ (25.4 in³)
Design: plastic, antistatic
VAC 5 solder sucker
Suction capacity: 14.5 cm³ (36.8 in³)
Design: plastic, antistatic

Order nos.:

VAC 2 Antistatic solder sucker
VAC 3 Antistatic solder sucker
VAC 5 Antistatic solder sucker

ERSA Soldapullt

US 140 / PT 109



SRT 12 A

US 340 / AS 196



LS 197



High-power industrial solder suckers

All industrially proven Soldapullt systems are characterized by high backlash absorption, outstanding pumping performance and extensive solder compartments. The antistatic types allow carefree desoldering on electrostatically irritable assemblies. After melting the solder with a soldering iron, quick and clean removal is ensured by suction.

Technical data:

US 140 solder sucker
Suction capacity: 19 cm³ (48.3 in³)
Design: plastic
PT 109 solder sucker
Suction capacity: 22 cm³ (55.9 in³)
Design: plastic
AS 196 solder sucker
Suction capacity: 34 cm³ (86.4 in³)
Design: plastic, antistatic
US 340 solder sucker
Suction capacity: 19 cm³ (48.3 in³)
Lift adjustable
Design: plastic, antistatic

Order nos.:

US 140 Solder sucker
PT 109 Solder sucker
AS 196 Antistatic solder sucker
US 340 Antistatic solder sucker

ERSA HS 8000 G

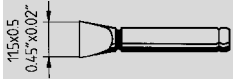
HS 8000 G / HS 8000 P



802 AR



802 BR



802 DS



High-power hot-air soldering and desoldering station for SMD's

The electronically temperature-controlled HS 8000 G hot-air soldering and desoldering station is the competent tool to solder and desolder small to medium-sized SMD-components. It integrates the same ELS 803 H supply unit as ELS 8000 (see p. 14), and the HCS 800 G plug-in control unit with FES 820 foot switch. The proven ERSA-RESISTRONIC temperature control operates the hot-air iron, with the PTC (Positive Temperature Coefficient) heating element functioning as temperature probe at the same time. Air flow intensity and temperature are adjustable on a continuous scale. The hot-air nozzle is provided with a high-resistance connection to the front-installed potential equalization socket.

The low-price HS 8000 P hot-air soldering station excels in particular when it comes to soldering small components. Foot switch and hot-air iron are the same as in HS 8000 G. The electronic control and a air flow generating pump are integrated in the HCS 800 P control unit. Mains supply is provided by the SNT 80 safety transformer.

Technical data

ELS 803 H supply unit
Supply unit with integrated safety mains transformer and incorporated vacuum/compressor unit
Rating: 240 W
Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 24 V~
Air flow rate: max. 7 NI/min
Cable: 2 m / 6.6 ft PVC

HCS 800 G electronic control unit
Voltage: 24 V~
Temperature range: continuous between 150°C(302°F) and 480°C(896°F)
Hot-air flow: max. 3 l/min

HSP 80 hot air iron
Voltage: 24 V~
Rating: 50 W (cold: 150 W)
Weight (without cable): 50 g / 1.76 oz

FES 820 foot switch
Voltage: 24 V~
Max. strength of current: 6 A

SNT 80 safety mains transformer
Rating: 80 W
Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 24 V~
All-insulated type
Insulation class E

HCS 800 P electronic control unit with integrated pump
Voltage: 24 V~
Temperature range: continuous between 150°C(302°F) and 480°C(896°F)
Air flow rate: max. 1.4 NI/min

Order nos.:

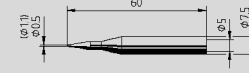
HS 8000 G Hot-air soldering and desoldering station with integrated vacuum/compressor unit, complete
consisting of:
ELS 803 H Supply unit
HCS 800 G Control unit
800 ARJ HSP 80 hot-air iron
A 09 Tool holder
FES 820 Foot switch

HS 8000 P Hot-air soldering station complete
consisting of:
SNT 80 Safety transformer
HCS 800 P Control unit
800 ARJ HSP 80 hot-air iron
A 09 Tool holder
FES 820 Foot switch

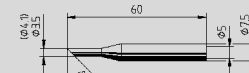


HS 8000 P

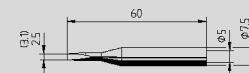
Multitip 25 W



172 BD / 172 BN

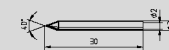


172 LD / 172 LN



172 KD / 172 KN

Minityp



012 BD

Dimensions in brackets for ERSADUR long-life soldering tips (for tip design see page 14)

ERSA MS 250 / S

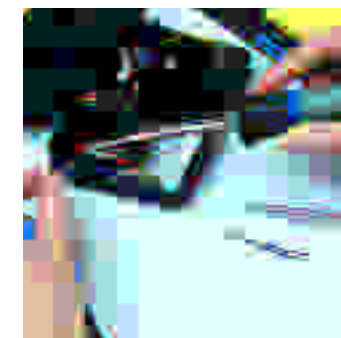


Fig. ERSA MS 250 S

Low-price soldering station with 2 soldering irons

The ERSA MS 250 S provides the demanding hobby electrician with temperature control and alternative connection facilities for two different soldering irons.

The 25 W Multitip soldering iron suits for standard soldering tasks. And fine joints as in SMDs are best done with the 6 W Minityp iron.



The internally heated ERSADUR soldering tips combine high performance with a long service life.

The soldering tip is provided with a high-resistance connection to the front-installed potential equalization socket.

The supplied funnel-shaped tool holder is attachable both to the left or right side of the station.

Technical data:

MS 253 electronic station

Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 12 V~
Rating: max. 32 W
Temperature range: continuous between 120°C(248°F) and 460°C(860°F)
Function display: red LED
Cable: 2 m / 6.6 ft PVC
All-insulated type

ERSA Multitip 25 W soldering iron

Voltage: 12 V~
Rating: 25 W

ERSA Minityp 6 W soldering iron

Voltage: 12 V~
Rating: 6 W

Order nos.:

MS 250 S Soldering station complete with two soldering irons
consisting of:
MS 253 Control unit
920BDH040 Multitip 25 W soldering iron with 172 BD long-life sold. tip and chinch plug
010BDH040 Minityp 6 W soldering iron with 012 BD long-life sold. tip and chinch plug
A 26 Tool holder

MS 250 Soldering station complete with one soldering iron
MS 253 Control unit
920BDH040 Multitip 25 W soldering iron with 172 BD long-life sold. tip and chinch plug
A 26 Tool holder



MS 250

Don't miss the potential of our modular systems (see page 15)

Additional SMD soldering tools are available in our NEW DIMENSION line (see page 30/31)

ERSA ANALOG 60

ANALOG 60



Soldering station with ergonomic soldering iron

The electronically temperature-controlled ERSA ANALOG 60 soldering station is the standard model in ERSA's new series of soldering stations. The precise ERSA RESISTRONIC control system exploits the positive effect of the PTC (Positive Temperature Coefficient) heating element. The high heat-up rating of 190 W ensures an immediate supply of heat.

The station's sensitive electronics control the working temperature by measuring the resistance of the ceramic heating element.

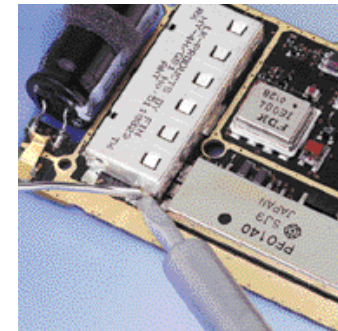
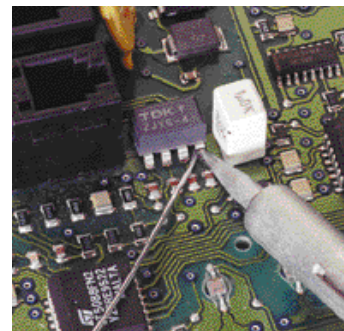
Temperature can be adjusted at the soldering station on a continuous scale between 150°C (300°F) and 450°C (840°F).

The easy-to-handle ERSA Basic tool 60 soldering iron heats up from room temperature to 280°C (545°F) in only 60 seconds.

Its ergonomic design earned the IF design award at the Hanover trade fair. All the controls are at the front of the station, and the front panel is set at the perfect angle for the user's line of vision. A potential equalization jack with a high-resistance connection to the soldering tip ensures the safety of sensitive components.

The large selection of long-life, internally heated ERSADUR- soldering tips make this versatile soldering station suitable for most industrial soldering applications.

The multifunctional holder with its swiveling sponge container also functions as a hot tip holder. In addition, the holder is designed so that you can use ERSA soldering irons with virtually any commercially available solder fume extraction system provided you have an adapter



Technical data:

ANA 603 electronic station
Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 24 V~
Rating: 60 W
Control technology: RESISTRONIC
Temperature range: continuous between 150°C(302°F) and 450°C(842°F)
Function display: red LED
Cable: 2 m / 6.6 ft PVC with plug
All-insulated type

Basic tool 60 soldering iron
Voltage: 24 V~
Rating: 75W/280°C(536°F); 60W/350°C(662°F)
Heat-up rating: 190 W
Heating time: appr. 60 s (to 280°C/ 536°F)
Weight (without cable): appr. 60g / 2.1oz
Cable: 1.5 m (4.9 ft)
extremely flexible / heat resistant

Order nos.:
ANA 60 ANALOG 60 sold. station complete, consisting of:
ANA 603 Electronic station
670 CDJ Basic tool 60 sold. iron with 832 CD sold. tip
A 28 Tool holder
Spare parts:
67100J Spare heating element for Basic tool 60



Fig.: ERSA ANALOG60 Profi Set with case

Thanks to the practical metal transport and storage case, this set is most suitable for mobile service people for repairs on the road.

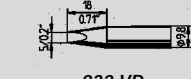
Order nos.:
ANA 60 0041 „Basic-Set“
ANA 60 soldering set complete consisting of:
ANA 603 Electronic station
670 CDJ Basic tool 60 sold. iron with 832 CD long-life sold. tip
A 28 Tool holder
3VP00501 Metal case with inlay

ANA 60 0P41 „Profi-Set“
ANA 60 sold. set complete consisting of:
ANA 603 Electronic station
670 CDJ Basic tool 60 sold. iron with 832 CD long-life sold. tip
A 28 Tool holder
VAC 3 Solder sucker
832 BD pencil point long-life tip
010MM0100FR Solder wire Sn60/40 100g
3VP00501 Metal case with inlay

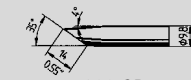
ERSA ANALOG 80 T

ANALOG 80 T

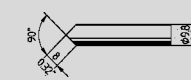
Long-life sold. tips for Tiffany



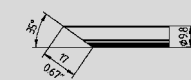
832 VD



832 GD

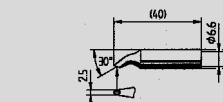


832 MD

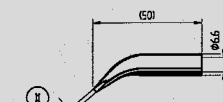


832 LD

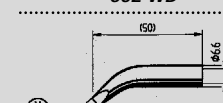
For further soldering tips see ANALOG60



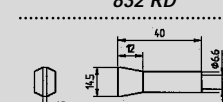
832 HD



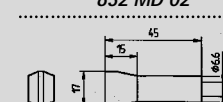
832 WD



832 RD



832 MD 02



832 MD 03

Please ask for our tip sheet with additional tips! (for tip design see page 14)



The professional ERSA Tiffany soldering stations

Thanks to the precise temperature control, the overheating of glass parts and copper foils can be ruled out for the ERSA Tiffany soldering stations. They offer enormous power reserves comparable to those of uncontrolled 150 W soldering irons.

The temperature control system ERSA SENSOTRONIC provides, together with the thermo element in the tip, precise temperature control assuring an even temperature level.

With 290 W the powerful ERSA soldering iron heats-up from room temperature to a temperature of 280°C (536°F) in only 60 seconds and only weighs an incredible 50 grams (1.7 oz)! This gives the artist max. comfort and control of their iron!

The many internally heated ERSADUR long-life soldering tips designed in accordance with Tiffany requirements have an amazingly long service life. Their special design allows optimal heat transfer resulting, according to the selected working temperature, in nicely built-up or flat edges.

For further information about this soldering station refer to page 9 of our NEW DIMENSION catalogue.

Technical data:
ANA 803 electronic station
Supply voltage: 230 V~, 50-60 Hz
Secondary voltage: 24 V~
Rating: 80 W
Control technology: SENSOTRONIC
Temperature range: continuous between 150°C(302°F) and 450°C(842°F)
Function display: red LED
Cable: 2 m / 6.6 ft PVC
All-insulated type

Basic tool 80 soldering iron
Voltage: 24 V~
Rating: 105 W/280°C (536°F); 80 W/350°C (662°F)
Heat-up rating: 290 W
Heating time: appr. 60 s (to 280°C/536°F)
Weight (without cable): appr. 50g/1.7oz

Order nos.:
ANA 80 T Tiffany soldering station complete consisting of:
ANA 803 Electronic station
810 VDJ Basic tool 80 soldering iron with 832 VD long-life Tiffany soldering tip
832 VD 832 VD long-life Tiffany soldering tip
A 28 Tool holder

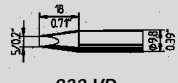
Spare part:
81100J Spare heating element for Basic tool 80 soldering iron



ERSA DIGITAL 80 AT

DIGITAL 80 AT

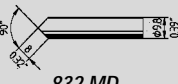
Long-life sold. tips for Tiffany



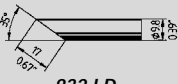
832 VD



832 GD



832 MD



832 LD

for additional soldering tips see ANALOG 80 T



Tiffany soldering station with digital display

An impressive heat-up rating of 290 W enabling the soldering iron to be almost immediately ready for operation as well as the precise temperature control are convincing features of the ERSA DIGITAL 80 AT soldering station. The temperature control system together with high reserve capacity ensures an even

temperature level and the large size display allows precise temperature monitoring. The Power tool soldering iron is a further highlight of this soldering station which has already won several design prizes: enormous capacity, small dimensions. Absolutely perfect for difficult Tiffany jobs.

Technical data:

DIG 803 A electronic station
Same technical data as ANALOG 80, but
Function display: 3-digit LED display
Temperature range: continuous
50 (122°F) - 450°C (842°F)
All insulated type

Power tool soldering iron
Rating: 105 W/280°C (536°F);
80 W/350°C (662°F)
Heat-up rating: 290 W
Heating time: appr. 60 s (to 280°C/536°F)
Weight (without cable): appr. 50g/1.7oz

Order nos.:

DIG 80 AT Tiffany soldering station complete consisting of:
DIG 803 A Electronic station
840 VDJ Power tool soldering iron with 832 VD long-life Tiffany soldering tip
832 VD Long-life Tiffany sold. tip
A 29 Antistatic tool holder

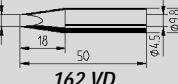
Spare parts:

84100J Spare heating element for Power tool soldering iron

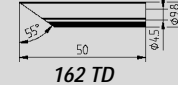
ERSA TC 65 TIFFANY-SET

TC 65

Long-life sold. tips for Tiffany

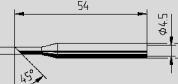


162 VD

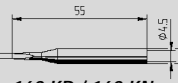


162 TD

Additional tips



162 LD / 162 LN



162 KD / 162 KN

Dimensions in brackets for ERSADUR long-life tips (For tip design see page 14)



The ideal entry level Tiffany soldering set

The ERSA TC 65 Tiffany set provides an accurate temperature control by means of the PTC (Positive Temperature Coefficient) ceramic heating element taking over the function of the temperature probe as provided by the ERSA-RESISTRONIC temperature control technology.

The overheating of glass parts and copper foils can therefore be ruled out. The POWER-button allows for additional power and heat supply when needed. This entry level Tiffany set comes complete with a second long-life Tiffany soldering tip and various accessories.

Technical data:

Cold rating: appr. 150 W
Heated rating: appr. 50 W/350°C(662°F)
Temp. range: appr. 200-440°C (392-824°F)
Heating time: appr. 90 s
Weight (without cable): 95 g / 3.3 oz
Cable: 1.5 m / 4.9 ft PVC
Voltage: 230 V, 50-60 Hz

Order nos.:

650 TS 0025 "Tiffany-Set" complete, consisting of:
650 VD TC 65 soldering iron with 162 VD long-life Tiffany soldering tip
162 TD/SB Long-life Tiffany sold. tip
3ZT00002 Sponge container with cleaning sponge
A 18 Tool holder
D030100/SB Tiffany solder wire, 3 mm, 100 g, Sn60Pb
WA 01/SB Sold. water, F-SW 12.25 ml

Spare parts:

65100 Heating element for TC 65
655 Control board for TC 65

ERSA WM 1500 S

WM 1500 S



042 MC



042 KC



042 AC



042 CC



Wax modeling station

The low-voltage electrical heating of this device, which is mainly employed in dental engineering, offers safety-related advantages compared to those operating with open gas flame. The light and easy-to-handle modeling stick with a short handle/tip distance allows for accurate and untiring work.

The various easily interchangeable modeling tips ensure quick adaptation to each working situation. The temperature is easily adjustable to the wax-specific working temperature by means of a rotary switch. This is why there is no overheating and successive contraction of the waxes.

Technical data:

WM 1530 S wax modeling station
Rating: max. 27 W
Supply voltage: 230 V-, 50-60 Hz
Secondary voltage: 6 V -
Temperature adjustment: continuous between 50°C(122°F) and 220°C(428°F) by means of rotary potentiometer
Function display: LED
Cable: 2 m / 6.6 ft

Modeling stick:

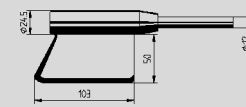
Rating: 5 W
Voltage: 6 V -
Cable: 1.5 m / 4.9 ft
Weight (without cable): 16 g / 0.56 oz

Order nos.:

WM 1500 S Wax modeling station consisting of:
WM 1530 S Electronic station
040MCG040 Modeling stick
A 26 Tool holder

ERSA 180 PZ

180 PZ



182 PZ



Cut, weld and seal with this plastics welding device

This plastics welding device is used to cut, weld and seal thermo-plastic foils, tissues and sealing profiles. Rope ends are secured against untwisting thanks to automatic bonding during the cutting process. Where precise working temperatures are required, we recommend the use of a soldering station together with adequate inserts. Frequently used and practice-tested is, among other

things, the temperature-controlled ERSA ANALOG 80 T (p. 21) soldering station, providing the same thermal performance as the ERSA 180 PZ iron.

Technical data:

Rating: 180 W
Heating time: appr. 5 min
Sold. tip temperature: appr. 370°C/698°F
Weight (without cable): 370 g / 13 oz
Voltage: 230 V
Different voltages on request

Order nos.:

180 PZ Plastic welding device with 182 PZ tip and A 04 tool holder

Accessories:

3ZT00051 Brass cleaning brush

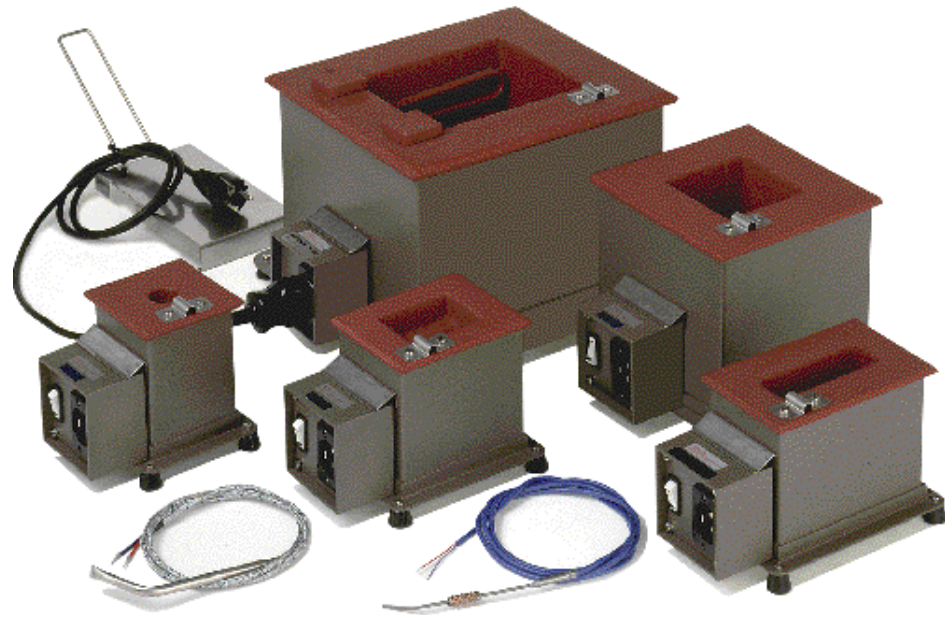
Spare parts:

181 PO Heating element for 180 PZ

ERSA Solder Baths

Spare heating elements

- T 50: Order no. 051 T001
65 W
- T 10: Order no. 151 B0
130 W
- T 02: Order no. 241 T0
240 W
- T 03: Order no. 5x100
180 W
- T 04: Order no. 5x100 A 1
100 W
- T 05: Order no. 8x800
250 W
- T 06: Order no. 5x100 P 2
167 W
- T 07: Order no. 8x800 A 5
300 W
- T 08: Order no. 5x100 A 3
200 W
- T 09: Order no. 5 x 100 A 4
233 W
- T 11: Order no. 5x100 A 3
200 W
- T 17: Order no. 5x100 A 6
275 W
- T 19: Order no. 5x100 07
300 W
- T 25: Order no. 151 B0
130 W
- T 30: Order no. 3010 T
600 W
- T 31: Order no. 3110 T A
600 W



Solder baths - ideal for tin plating of stranded wire braids

| | | | | | | | | |
|----------------------------------|-----------|------------|-----------------------|---------------------|-----------|---------------------|------------|-------------------|
| Order No.: | T 50 | T 10 | T 02 | T 03 ³ | T 04 | T 05 | T 06 | T 07 |
| Rating (W): | 65 | 130 | 240 | 360 | 400 | 500 | 1000 | 1200 |
| Temperature (°C/°F): | 300/572 | 340/644 | 600/1112 | 430/806 | 410/770 | 440/824 | 560/1040 | 600/1112 |
| Weight (g/oz): | 370/13.1 | 615/21.7 | 1200/42 | 2300/81 | 3900/138 | 3400/120 | 5200/183 | 5500/194 |
| Length (mm/in): | 28/1.1 | 60/2.4 | 25 ø/1.0 | 100/3.9 | 52/2.0 | 86/3.4 | 120/4.7 | 90/3.5 |
| Width (mm/in): | 20/0.8 | 30/1.2 | - | 30/1.2 ² | 52/2.0 | 68/2.7 ² | 80/3.1 | 90/3.5 |
| Depth (mm/in): | 13/0.5 | 25/1.0 | 47/1.9 | 55/2.2 | 84/3.3 | 90/3.5 | 60/2.4 | 100/3.9 |
| For solder quan. (g/oz): | 40/1.4 | 185/6.5 | 125/4.4 | 1000/35.3 | 1900/67.0 | 2850/100.5 | 4800/169.3 | 6400/225.7 |
| Solder bath covers: ¹ | - | - | 36023-00 | 36033-00 | 36043-00 | 36053-00 | 36063-00 | 36073-00 |
| Order No.: | T 08 | T 09 | T 11 | T 17 | T 19 | T 25 | T 30 | T 31 ³ |
| Rating (W): | 2000 | 2800 | 1600 | 2200 | 600 | 260 | 1200 | 1200 |
| Temperature (°C/°F): | 450/842 | 650/1202 | 450/842 | 450/842 | 450/842 | 420/788 | 500/932 | 480/896 |
| Weight (g/oz): | 7700/272 | 14000/560 | 8000/282 | 11800/416 | 4500/159 | 2100/84 | 12000/423 | 1100/388 |
| Length (mm/in): | 120/4.7 | 165/6.5 | 300/11.8 ² | 250/9.8 | 200/7.9 | 71/2.8 | 165/6.5 | 250/9.8 |
| Width (mm/in): | 120/4.7 | 135/5.3 | 60/1.2 | 150/5.9 | 50/1.9 | 55/2.0 ² | 135/5.3 | 80/3.1 |
| Depth (mm/in): | 90/3.5 | 100/3.9 | 50/1.9 | 50/1.9 | 20/0.8 | 22/0.9 | 100/3.9 | 100/3.9 |
| For solder quan. (g/oz): | 11000/388 | 18600/744 | 7500/265 | 15700/554 | 1700/60 | 750/26.4 | 18600/656 | 16757/591 |
| Solder bath covers: ¹ | 36083-00 | 3YN2021-00 | 36113-00 | 36193-00 | 36193-00 | 36012-00 | 3YN2021-00 | 3YN2022-00 |

¹ supplied ² tapered solder pot ³ The T 03 and T 31 solder baths are VDE-tested (German Electricians' Regulations), all other ERSA solder baths produced in accordance with VDE

ERSA solder baths consist of electrically heated melting pots for tin/lead and similar alloy solder. The high-capacity ceramic heating elements are exchangeable and mounted to the pot. They feature a thermal insulation towards the external sheet metal housing.

For the T 02, T 03, T 04, T 05, T 06, T 07 and T 25 solder baths half power operation can be selected.

Thanks to the high temperature of appr. 600°C (1112°F) the T 02 and T 07 solder baths are particularly suitable for tin plating of enameled copper wires.

The scope of delivery includes a 1.5 m (4.9 ft) cable. To increase soldering quality and reduce the formation of oxides as well as for energy saving purposes we recommend to use our temperature gauges.

ERSA T50/T10 mini solder baths
Mini solder baths for tin plating of stranded wire braids, component leads and cable lugs.



Fig. ERSA T 10

T 10 / T 50

ERSA RA 4000 D Temperature Gauge



RA 4000 D digital temperature gauge for maximum control

This temperature gauge is used to keep the temperature of the ERSA solder baths at a constant level. The mains supply is provided by a cable with grounded plug. The solder bath is installed by means of a coupler plug and socket connection. The desired (rated) temperature in the solder bath is adjustable by means of a rotary switch. A temperature probe immersed into the solder is provided to monitor the actual temperature.

The front-installed switch allows to select actual value or rated value display.

Order nos.:
RA 4000 D Temperature gauge with digital rated/actual temperature display, compl.

Accessories:
F 005 Iron-constantan thermocouple with stainless steel sheath tube
F 006 Long-life iron-constantan thermocouple with titanium sheath tube

Technical data:
Supply voltage: 230 V-, 50-60 Hz
Max. connectable rating: 3,000 W resistive load
Temp. range: 50- 600°C (122-1112°F)
Switch: 2-position with P-characteristics
Max. tolerance: ± 2% of maximum temperature
Cable: 1.5 m / 4.9 ft rubber sheathed All-insulated type

ERSA Soldering Tip Care

ERSADUR soldering tips have been designed for continuous operation and high quality. The special process to achieve this was developed by ERSA and is protected by a patent. ERSADUR soldering tips are galvanically plated with an iron coating which is then shielded against oxidation and corrosion by a layer of chrome. The heating element of

the soldering iron is protected against overheating and premature wear thanks to perfect heat transfer. Provided that the ERSADUR long-life soldering tips are carefully tended they can have a clearly higher service life. The following rules have to be kept:
Long-life soldering tips should always be coated with solder as

otherwise they become passive and no longer accept solder. In this case, the tip can be re-activated with flux and solder. To do this, wrap flux core solder around the soldering tip and heat the iron. Furthermore the hot tip should be cleaned regularly with a moistened sponge. For spare sponges, please see price list, page 36.

ERSA SNT 30/6 and SNT 80



Safety transformers

These all-insulated safety transformers are provided with a low-capacity two-chamber winding. Connected low-voltage soldering irons are therefore galvanically isolated from the mains supply. The transformers

are provided with an illuminated ON/OFF-switch and easily replaceable fuse. To solder temperature-sensitive and electrostatically irritable components we recommend our antistatic soldering stations.

Technical data:

ERSA SNT 30/6
 Rating: 30 W
 Supply voltage: 230 V~, 50-60 Hz
 Secondary voltage: selectable between 5 V, 5.5 V, 6 V and 6.5 V ~
 Cable: 2 m / 6.6 ft PVC
 Suitable for all 6 V soldering irons up to a power draw of 30 W.

ERSA SNT 80
 Rating: 80 W
 Supply voltage: 230 V~, 50-60 Hz
 Secondary voltage: 24 V ~
 Cable: 2 m / 6.6 ft PVC
 Suitable for all 24 V soldering irons up to a power draw of 80 W.

Order nos.:

SNT 30/6 30 W safety transformer
SNT 80 80 W safety transformer

ERSA SR 100

Saves time and space



SR100 solder wire dispenser with optional SR 101 add-on for second reel (solder wire not included)



Solder wire not included

Practical and flexible solder wire dispenser

The ERSA SR 100 solder wire dispenser is the ideal addition to any soldering workbench, with a heavy base plate that makes it extremely stable. The SR 100 was designed to handle different reel sizes (250/500/1,000 g). A centering nut ensures that different-sized solder wire reels are centered correctly. The variable solder wire guide accommodates different solder wire diameters and allows the solder wire feed to be adjusted quickly to the correct position without the need to move the ERSA SR 100. The optional ERSA SR 101 add-on is easily mounted so that you can use a second solder wire reel.

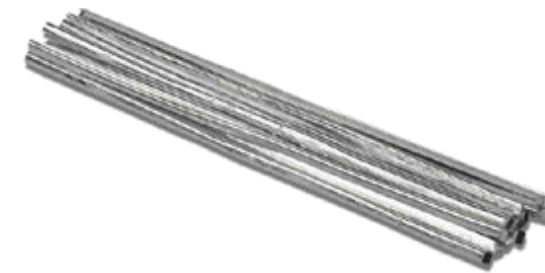
Order nos.:

SR 100 Solder wire dispenser complete (solder wire not included)

Accessories:

SR 101 add-on for second solder wire reel (solder wire not included)

ERSA Process Materials



High-quality first-fusion solder bars, on request available in 5 cm / 2 in pieces. The following alloys are available:

Types:
 Sn63Pb37 eutectic 183°C (361°F)
 Sn64Pb36, 183 - 184°C (36 - 363°F)
 Volume weight 8.37g/cm³
 Shear strength 4.4 kg/mm²

Order nos.:
 see ERSA price list

ERSA solder bars for solder bath filling



Types:
 Sn63Pb37; Sn60Pb40;
 Sn60Pb38Cu2; Sn62Pb36Ag2;
 Unleaded solder wire Sn96.5Ag3.5 and Tiffany solder wire

Dimensions:
 0.6mm(0.024in); 0.8mm(0.031in);
 1.0mm(0.039in); 1.5mm(0.059in)
 and 2.0mm(0.079in) on 100g (4oz),
 250g (10oz) - and 500g (20oz) spool.
 1.0mm(0.039in); 1.5mm(0.059in)
 and 2.0mm(0.079in) on
 1000g(40oz) spools.

Additional alloys, wire diameters and spool sizes on request.

Order nos.:
 see ERSA price list

ERSA solder wire - the right alloy for each application



Order nos.:

FMKANC 32-005
 No-Clean flux cream F-SW 32,
 DIN 8511, 5 ml cartridge, rosin-based,
 low-activated, including tappet and
 0.4 mm (0.016 in) plastic dispensing
 needle

FMIF8001-PEN
 Flux-Pen with flux IF 8001,
 FSW-34, DIN 8511, 7 ml

FMIF 2005-001
 Low solids content No-Clean flux,
 IF 2005 M F-SW 34, DIN 8511, 100 ml
 (no figure)

ERSA SMD solder paste / flux cream



ERSA desoldering wicks are indispensable for effectively and gently removing flux and solder residue from SMD-boards in particular.

Fine tissue, high capillarity and optimal flux content ensure optimal soldering results.

Order nos.:
 No-Clean desold. wicks, 1.5m (4.9ft) long
WICK NC 1,5/10 1.5 mm (0.06 in) width
 (10 pieces)
WICK NC 2,2/10 2.2 mm (0.09 in) width
 (10 pieces)
WICK NC 2,7/10 2.7 mm (0.1 in) width
 (10 pieces)
WICK-NC SET No-Clean desold.
 wicks consisting of WICK NC 1,5 (1 pos),
 WICK NC 2,2 (2pos) and WICK NC 2,7 (1pos.)

ERSA Desoldering wicks - fine tissue and high capillarity

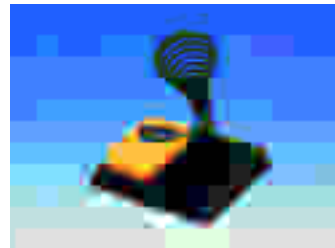
ERSA Tool Holders



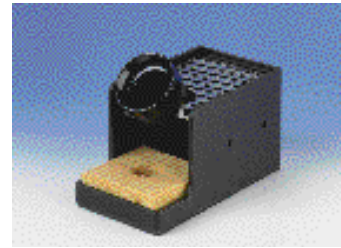
A 02: for soldering irons up to 40 W



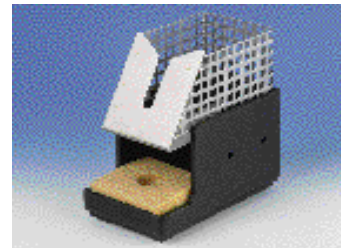
A 04: for soldering irons of 50 W to 150 W, ISOTYP 90 and 180 PZ



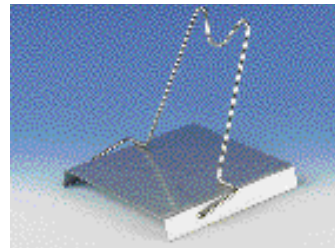
A 05: for small and medium sized soldering irons



A 09 for 810 CDJ, CT80 and CT60, Multitip series



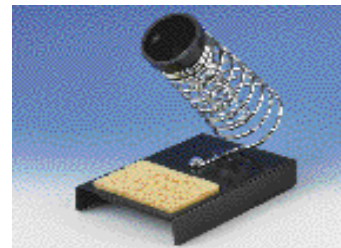
A 13: for 820 AEJ and 650 AE



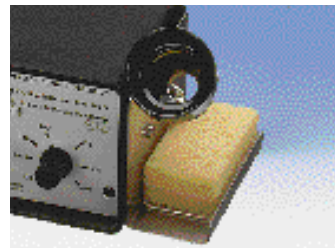
A 17: for soldering irons between 200-550 W



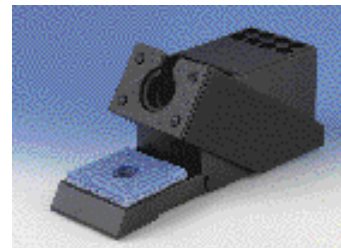
A 18: for Multitip, Tip 260 ERS 30 S and TC 65



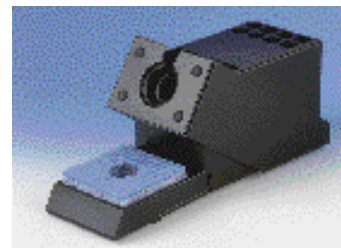
A 19: for Multitip and ERS 30 S



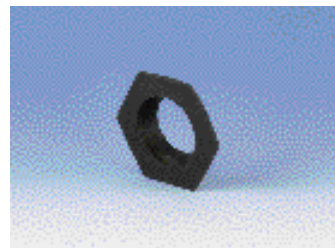
A 26: for Multitip, Minor, Minityp (available with sold. station only)



A 28: for Multitip, Multi-Pro and Basic tool 60/80



A 29: antistatic, for Power tool, Ergo tool, Micro tool and Tech tool



N 194: for ERS 30 S and Multitip

ERSA Tip Exchanger / Tweezers



This ESD-safe tool allows for quick and reliable replacement of all internally heated ERS 30 S soldering tips and the 422-type desoldering inserts. It incorporates an additional

Crooked tweezers to grip components easily and safely.

side cutter and screw driver allowing the multi-purpose use of this versatile tool.

Order nos.:
3ZT00164 Tip exchanger

3ZT00165 Crooked tweezers to grip components easily and safely

Send for your complete NEW DIMENSION Catalogue (see Service-Fax).

NEW DIMENSION by ERS 30 S

"Basic" Soldering stations



ANALOG 60 (60 W)
The standard soldering station - proven technology for all-round use, with Basic tool 60 soldering iron and holder



ANALOG 80 (80 W)
The high-performer power station - ideal for heavy duty applications, with Basic tool 80 soldering iron and holder

"Antistatic" Soldering stations



ANALOG 60 A (60 W)
The industrial soldering station with the ergonomic soldering iron Ergo tool and holder



ANALOG 80 A (80 W)
The universal powerhouse, with soldering iron Power tool and holder



DIGITAL 80 A (80 W)
Maximum power with our smallest grip, with soldering iron Power tool and holder



DIGITAL 2000 (80 W)
Electronically temperature-controlled soldering station, 80 W, antistatic, complete. Connection of 5 soldering irons possible

"Intelligent" Soldering station / desoldering station



MICRO-CON 60 iA (80 W)
The intelligent Champion - with microprocessor control and PC link, with soldering iron Tech tool and holder



X-Tool Kit 1
Desoldering station consisting of compressor unit, desoldering iron X-Tool 720 ENJ, holder A 36, and electronic installation for desoldering iron X-tool

SMT & Multifunctional soldering tools



SMT UNIT 60 A (60 W)
SMD-soldering and desoldering station for Fine-Pitch, with soldering iron Micro tool, desoldering tweezers Pincette 40 and holders



RW 8000 (240 W)
The complete SMD/Rework solution, with soldering iron CT 20, desoldering tweezers TC 40, hot air iron HSP 80, VAC-Pen and holders

Workbench-Accessories



DTM 100
Temperature measuring device with digital display for calibrating temperature values in accordance with DIN ISO 9000 ff



Solder wire
We offer different alloys, wire diameters and spool sizes.

CLEAN-AIR by ERS 30 S

EASY TIP and EASY ARM extraction systems



ERS 30 S Easy Tip
Filter unit for direct extraction of solder fume at the soldering tip, available for 1 up to max. 3 soldering irons



ERS 30 S Easy Arm
large selection of extraction hoods and arms for each application, spare filters and other accessories available

Send for your complete CLEAN-AIR Catalogue (see Service-Fax).

Send for your complete IR-Rework Catalogue (see Service-Fax).

IR-REWORK by ERSA

IR-Rework-Center ERSA IR 500 A / IR 400 A



Fig: IR500A with PL500A

ERSA IR500 A
The ERSA IR 500 A is a complete stand-alone system designed for every rework application. The user-friendly operating instructions will assist and ensure that all operators conduct process controlled rework in minutes. A total solution priced for every operator, every workbench and every budget: the ERSA IR 500 A was specifically engineered with the end-user price in mind!

IR Accessories
The integration of the revolutionary ERSA MICRO-CON 60 IA offers the expansion of the unit to include a total of up to 5 various tools to handle essentially every rework, repair and soldering application. An extremely precise XYZ-achse placer (PL100A) is optionally available.



BGA/MicroBGA soldering/desoldering



Fine-Pitch soldering/desoldering



SMD soldering/desoldering



Thru-hole Pin Grid Array (PGA)

Send for your complete documentation on ERSA soldering systems.

Machines by ERSA

ERSA Soldering systems



Wave soldering systems
We offer a complete range from selective soldering systems to high-end systems for stand alone, for in-line operation, with nitrogen option



Reflow soldering systems
ERSA Hotflow full convection systems beginning with 1.5 m up to 3.7 m heated process zone for all reflow applications..

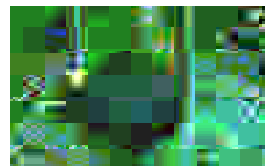
Send for your complete documentation on the ERSASCOPE.

Inspection by ERSA

ERSASCOPE Inspection System 3000



ERSASCOPE
The ERSASCOPE Inspection System 3000 winning the most important innovation prizes offers, for the first time, cheap and non-destructive inspection of hidden solder joints of BGAs, Micro-BGAs, Flip-Chips etc. as well as visualization of interior heel fillets of PQFPs etc by looking under and on top of the component. The image processing and measurement software ImageDoc as well as a detailed databank is part of the delivery.



URGENT SERVICE-FAX

TO: _____

FAX: _____

See back page for fax number

FROM: _____

| |
|-----------|
| (Name) |
| (Dept.) |
| (Company) |
| (Street) |

| |
|-----------------------|
| (Postal code / place) |
| (Phone) |
| (Fax) |
| (e-mail) |

I want to know more...

Please send me without delay

- a quotation for unit(s) of item no.
- pcs. further PROFI-LINE catalogues
- a free copy of the process description ERSA "Fine-Pitch" soldering and ERSA "SMD" desoldering
- the latest tip sheet
-

I have application-related questions...

Please call me at the following number:

- to arrange an advisory meeting at my workplace with no obligations
- to arrange a free demonstration at the ERSA soldering center

I like your quotation...

So I would like to order

- unit(s) of item no. price my order no.

I am also interested in...

The ERSA NEW DIMENSION-Products (see page 29)

- please send me your NEW DIMENSION catalogue

I'm also doing PCB-Rework ...

So please send me

- information on ERSA IR Rework Systems (see page 30)

I want to breath clean air...

So please send me

- the ERSA CLEAN-AIR catalogue (see page 29)

I want perfect quality assurance

So please send me

- detailed information on the ERSASCOPE Inspection System (see page 30)

I am also interested in machine soldering...

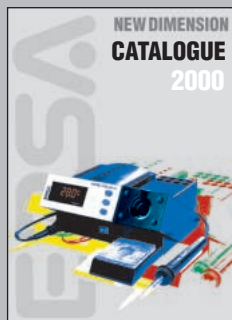
So please send me

- Information on your complete range of wave soldering systems, in-line selective soldering systems, convection soldering systems and the associated accessories (see page 30)

Date _____

Signature _____

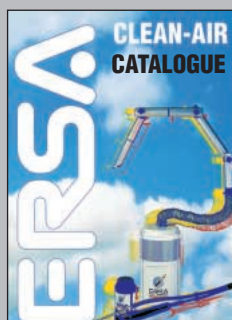
Please ask for detailed information about the following products:



NEW DIMENSION Catalogue
with soldering stations, SMT & multifunctional soldering tools and workbench accessories



IR 500 Infrared-Rework-Center
for SMT, Fine Pitch, BGA, Thru-Hole



CLEAN-AIR Catalogue
for a healthier workplace



ERSASCOPE Inspection System 3000
for a non-destructive visual image of hidden solder joints



ERSA PRICE LIST
with all prices of our PROFI-LINE, NEW DIMENSION and CLEAN-AIR products



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GLOBAL CONNECTIONS

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