

EN

 kurtz ersä

Soldering

# TOOLS

& Accessories 2027



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*Patented Tip'n'Turn soldering tip technology*

Tip exchange in record time and 20 % more performance

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Soldering & Desoldering Stations

# Classic Soldering Stations



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# RDS 80

## The universal, digital soldering station

### Order information

| Order no.     | Description                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 0RDS80        | RDS 80 soldering station with RT 80 soldering iron (0890CDJ), soldering tip 0842CD, heating element 089100J, and tool holder 0A39 with sponge 0003B |
| 1RDS800000A67 | RDS 80, 115 V version                                                                                                                               |



PTC

RDS 80 with RT 80 soldering iron, Erska RESISTRONIC control system.  
Soldering tip series 832, 842 and 852 see page 50.



The Erska **RDS 80** digital soldering station with the proven Erska RESISTRONIC temperature control provides **80 W** heating power. The ceramic PTC heating element (positive temperature coefficient) acts as the temperature sensor in this control system and ensures extremely fast heating thanks to the high initial output. 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 heat transfer.

The redesigned ergonomic handle, the housing design and the large, digital multifunctional display do not leave much to be desired.

Besides the arbitrary temperature selection between 150 °C and 450 °C, three fixed temperatures or two fixed temperatures and one standby temperature can be programmed.

Great price-performance ratio

In addition to a power bar graph display the station also has a calibrating and power-off feature. The potential equalization socket (with an integrated 220 kΩ resistor) allows the soldering tip to be equalized with the workplace potential.

The RT 80 soldering iron has a sprayed-on, flexible silicone connecting cable. For tip exchange we recommend to use the tip exchanger 3ZT00164 (see page 38).

### Technical data

| Station | Rating/Voltage                                                | Temperature  | Soldering iron | Rating/Voltage | Heating time             | Weight*          |
|---------|---------------------------------------------------------------|--------------|----------------|----------------|--------------------------|------------------|
| RDS 80  | 80 W/230 V, 50 – 60 Hz/24 V<br>or 80 W/115 V, 50 – 60 Hz/24 V | 150 – 450 °C | RT 80          | 105 W (280 °C) | approx. 40 s<br>(280 °C) | approx.<br>130 g |

\*with cable



Application example



Multifunctional display

# i-CON PICO MK2

The entry into professional soldering



Small footprint:  
only 145 mm x 80 mm!



## 0A58

Optional Tip'n'Turn  
holder for i-TOOL  
PICO MK2



*i-CON PICO MK2 with i-TOOL PICO MK2 soldering iron.  
Soldering tip series 142 see pages 46/47.*

Fast and good value for money – these requirements are met by the **i-CON PICO MK2** – the entry-level station for professional soldering within Ersa's i-CON soldering station series. It suits semi-professional and ambitious users in the DIY sector who can do without ESD capability.

In addition to the continuously variable temperature control via the two buttons next to the easy-to-read LC display, three fixed temperatures and three energy levels can be individually set via PC software and microSD card so that the user can quickly switch between the parameters depending on the soldering job. The standby function protects the soldering tip and significantly increases its service life. Another highlight: the soldering station can also be locked for other users via the microSD card.

Weighing only 30 g, the **i-TOOL PICO MK2** soldering iron is extremely ergonomic, making it a pleasure to work with. Heat-up from room temperature to operating temperature only takes

9 seconds. The integrated temperature sensor reacts immediately and accurately, ensuring a constant temperature for safe soldering, even with sensitive components.

With the 142 series, a comprehensive range of cost-effective soldering tips featuring the new Tip'n'Turn technology (see page 8) is available for a wide variety of applications.

## Order information

| Order no.     | Scope of supply                                                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01C1305       | i-CON PICO MK2 soldering station with i-TOOL PICO MK2 (0135CDK) soldering iron, soldering tip 0142CDLF16, heating element 014100J, and holder 0A60 with brass wool 0008M/SB |
| 11C1305000A67 | i-CON PICO MK2, 115 V version                                                                                                                                               |

## Technical data

| Station        | Rating/Voltage                 | Temperature  | Soldering iron  | Rating/Voltage   | Heating time            | Weight*         |
|----------------|--------------------------------|--------------|-----------------|------------------|-------------------------|-----------------|
| i-CON PICO MK2 | max. 80 W/230 V (115 V), 50 Hz | 150 – 450 °C | i-TOOL PICO MK2 | max. 80 W/16.5 V | approx. 9 s<br>(350 °C) | approx.<br>30 g |

\*without cable

Soldering & Desoldering Stations

# Industrial and IoT Soldering Stations



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# Patented soldering tip technology

Tip exchange in record time and 20 % more performance

The latest i-TOOL generation providing 20% more soldering performance is one of the smallest and most powerful soldering irons in the market. It increases not only quality and productivity in hand soldering, but also reduces operating costs tremendously.

In contrast to cartridge tips, only the soldering tip is changed – quickly, easily and without any additional tool required. The expensive heating element remains in place and the soldering tip can be changed separately – quickly and easily.

A comprehensive range of standard and customized tips provides an unrivalled flexibility, even with difficult and unusual soldering jobs.

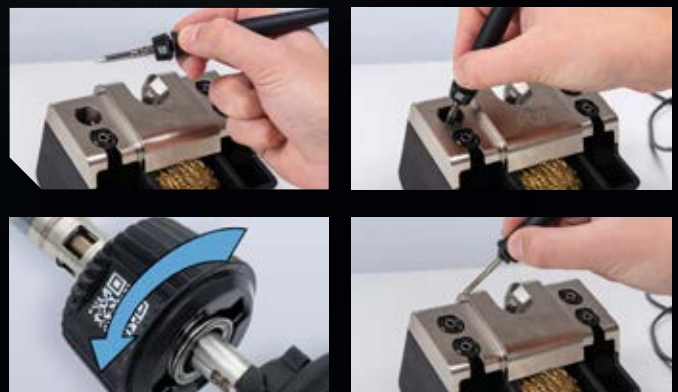
The high-performance heating element supplies 150 W of heating power ensuring fastest heat-up and recovery so that the i-TOOL never runs out of energy, even during heat-intensive soldering. At the same time, at 30 g and a compact 150 mm overall length, it is very comfortable to hold.



*New i-TIP tip series: Thermally optimized soldering tip design, fast tip change, QR code on each soldering tip, low overall cost.*



Due to the patented Tip'n'Turn concept with its bayonet lock, tip exchange is effected within record time and without a specific tool. Tips are exchanged with a simple turn either by hand or using tool holder 0A58 (compatible with any soldering iron of the i-TOOL MK2 series or the i-TOOL TRACE).



# PERFORMANCE SOLDERING TIPS

Solder up to 30% faster – the new tips for demanding applications

The new performance versions of the i-TIP 142 soldering tip series were developed specifically for users who demand the highest standards of heat transfer.

The performance soldering tips (P-tips) continue to rely on the proven geometry of the contact surface but provide a significantly larger heat reservoir. The result: measurably faster heat transfer directly at the solder joint.

In a series of tests, performance gains of over 30% were achieved compared to standard tips. Users who process high-mass solder joints or who work without preheating the assembly benefit particularly from this.

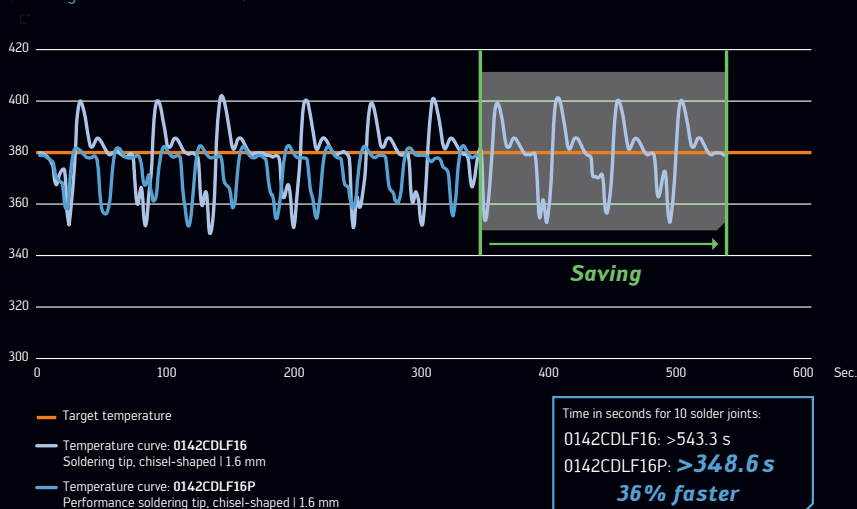
Since the tip shape of the performance tips remains identical at the contact surface, assigning the correct order number is easy: Simply add a "P" to the existing order number – for example, 0142CDLF50 becomes 0142CDLF50P.

The new soldering tips are compatible with all i-CON soldering stations; we particularly recommend the i-CON soldering stations designed for industrial use, i.e. i-CON TRACE, the i-CON VARIO MK2 series, and the models of the i-CON 1 and i-CON 2 families, all in the MK2 version. Of course, the P-tips also feature the handy Tip'n'Turn function for quick tip exchange without extra tools required.

## Performance comparison:

Test series with 10 solder joints — performance soldering tip vs. "standard soldering tip".

Soldering station: i-CON TRACE | Power level: Medium



## Performance Tips

- 0142CDLF16P ■ 0142CDLF20P
- 0142CDLF24P ■ 0142CDLF32P
- 0142CDLF50P

# The new *i-TOOL MK2 technology*

now available for all i-CON stations



Fast heat-up/reheat  
and up to 20 % more  
heating power



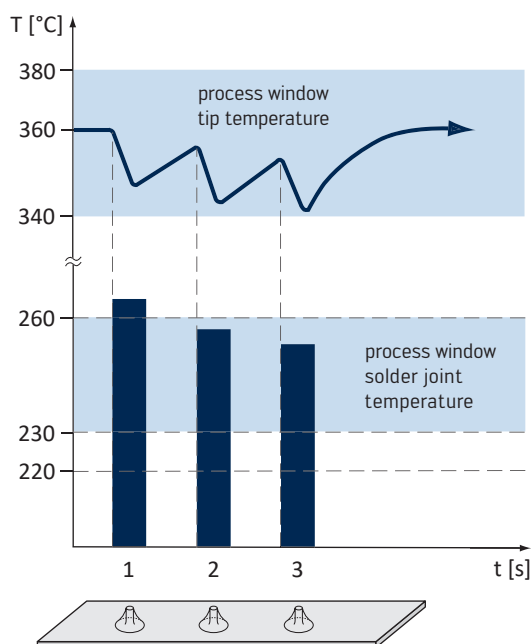
Fast tip exchange  
in record time  
via Tip'n'Turn



Retrofittable to  
preceding stations



Longer lifetime due to  
standby sensor



## Process window and alarm

The i-TOOL MK2 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 i-CON stations signal the operator if the temperature leaves the pre-set process window.

## Automatic standby

As soon as the soldering tool is not used, the temperature drops to the set standby temperature after the preselected standby time.



## One soldering tip series for all tools

The 142 soldering tip series offers an extensive range of low-cost, long-life soldering tips (see pages 46/47).



tip identification  
by QR code

## i-TOOL MK2

i-TOOL MK2 soldering iron with 150 W micro-high-power heating element: The new Tip'n'Turn technology enables faster and safer tip changes thanks to a new bayonet mount. In addition to the iron's improved ergonomics, its 142 tip series offers enhanced heat transfer and high performance at an optimal price-performance ratio. This heating technology enables the i-TOOL MK2 soldering iron to heat up and reheat in a matter of seconds – from room temperature to 350°C in about 9 seconds, and from standby (280°C) in about 3 seconds. The heating element and the soldering tip are separate from one another so that they can be replaced independently.



### OICV208

Extension for i-TOOL/i-TOOL MK2 or CHIP TOOL VARIO, length 1 m



Soldering tip series 142  
see page 46/47

## CHIP TOOL VARIO

The CHIP TOOL VARIO stands out by its high power (2 x 40 W) and its very compact design. Thus, it is perfectly suited for working on small and delicate SMD components. The heating element pairs are plug-in components. They can be aligned exactly in the handle, and exchanging them is quick and easy. Furthermore, the operating mode of this precision tool can be set from self-closing mode to self-opening mode with an integrated switch. The CHIP TOOL VARIO is equipped with the proven and reliable motion sensor to activate it out of standby.



Desoldering tip pairs,  
series 462 see page 52.

## CHIP TOOL

The CHIP TOOL desoldering tweezers are characterized by a large tip portfolio for all common components. The inserted tips can be changed in a second. The optional tip turn protection set allows plug'n'play tip changing. Opening and closing width can be adjusted individually enabling comfortable and safe working even in cramped spaces. In addition to i-CON, i-CON 2, i-CON 1V, i-CON 2V and the i-CON VARIO family, incl. corresponding MK2 models, the CHIP TOOL can also be used with many older control units (DIGITAL 2000 A, MICRO CON 60 iA, SMT UNIT 60 A etc.).



Desoldering tip pairs,  
series 422/452, see page 53

### Technical data soldering & desoldering tools

| Order no. | Description                              | Heating element | Rating/Voltage | Temperature range | Weight*      |
|-----------|------------------------------------------|-----------------|----------------|-------------------|--------------|
| 0135CDK   | i-TOOL PICO MK2 soldering iron           | 014100J         | 80 W/16.5 V    | 150 - 450 °C      | approx. 30 g |
| 0125CDK   | i-TOOL NANO MK2 soldering iron           | 016100J         | 80 W/16.5 V    | 150 - 450 °C      | approx. 30 g |
| 0105CDJ   | i-TOOL MK2 soldering iron                | 016100J         | 150 W/24 V     | 50 - 450 °C       | approx. 30 g |
| 425376    | i-TOOL MK2 soldering iron with 4 m cable | 016100J         | 150 W/24 V     | 50 - 450 °C       | approx. 30 g |
| 0140CDJ   | i-TOOL TRACE soldering iron              | 014100J         | 150 W/24 V     | 50 - 450 °C       | approx. 30 g |
| 0460MDJ   | CHIP TOOL VARIO desoldering tweezers     | 042100J         | 2 x 40 W/24 V  | 50 - 450 °C       | approx. 30 g |
| 0450MDJ   | CHIP TOOL desoldering tweezers           | 042100J         | 2 x 20 W/24 V  | 150 - 450 °C      | approx. 75 g |

Possible combination of tools and i-CON stations see page 24

\*without cable



# i-TIP CLEANER

## Automatic soldering tip cleaner



The **i-TIP CLEANER** removes solder, flux, and oxidation residues in under one second – quickly and gently at low noise. This ensures consistently high soldering quality, greater process reliability, and extended service life of soldering and desoldering tips, and thereby increases productivity.

As soon as a metallic soldering tip is inserted into the cleaning window, the intelligent sensor control automatically starts the cleaning process. When in sensor mode, a green status LED signals operational readiness. It switches to white during the cleaning operation, optimally illuminating the work area. Alternatively, a continuous mode is available in which the brushes rotate continuously.

For quick brush replacement or emptying of solder residues, the collection drawer is unlocked and pulled out backward. Afterwards, the brushes are simply re-inserted and the tray is closed.

The cleaning brushes with a 42 mm diameter are available with brass fibers or heat-resistant plastic fibers; their rotational speed can be adjusted as needed.

Via the integrated M8 circular connector, the i-TIP CLEANER can easily be integrated into automated manufacturing environments and is thus ideal for use in soldering robots.

### Technical highlights

- Fast and reliable tip cleaning
- One-handed, sensor controlled operation
- Simple brush replacement
- Easy discharge of waste drawer
- Integration into robot systems

### Order information

| Order no        | Description                                                                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0ITC100B</b> | i-TIP CLEANER, automatic tip cleaner with 1 pair of brass cleaning brushes (0ITC110B), drawer (0ITC101), silicone cover (0ITC102), power supply (0ITC103)         |
| <b>0ITC100F</b> | i-TIP CLEANER, automatic tip cleaner with 1 pair of plastic fiber cleaning brushes (0ITC110F), drawer (0ITC101), silicone cover (0ITC102), power supply (0ITC103) |

# i-CON NANO MK2

## Compact industrial soldering station



*i-CON NANO MK2 with i-TOOL NANO MK2 soldering iron. Soldering tip series 142 see pages 46/47.*



### Order information

| Order no.     | Scope of supply                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01C1205A      | i-CON NANO MK2 soldering station with i-TOOL NANO MK2 soldering iron (0125CDK), soldering tip 0142CDLF16, heating element 016100J, and holder 0A59 with brass wool 0008M/SB                                            |
| 11C1205A00A67 | i-CON NANO MK2, 115 V version                                                                                                                                                                                          |
| 01C1205A58    | i-CON NANO MK2 soldering station with i-TOOL NANO MK2 soldering iron (0125CDK), soldering tip 0142CDLF16, heating element 016100J, and holder 0A58 with brass wool 0008M/SB, splash guard 0009/SB, and sponge 0004G/SB |

The **i-CON NANO MK2** realizes ESD safety including potential equalization up to the soldering tip and is the ideal entry-level model for the professional sector and the industry. It is fast and it provides good value for money.

An interesting feature for this product class is the configuration of the station via PC software and microSD card. In addition to the continuously variable temperature control, this allows three fixed temperatures and three energy levels to be programmed individually, so that it is possible to switch quickly between the parameters depending on the soldering job.

The standby function protects the soldering tip and significantly increases its service life. The soldering station can also be locked for other users via the

microSD card. Operation is effected via the two buttons next to the easy-to-read LC display.

Weighing only 30 g, the **i-TOOL NANO MK2** soldering iron is extremely ergonomic, making it a pleasure to work with. Heat-up from room temperature to operating temperature only takes 9 seconds.



*i-CON NANO MK2 with i-TOOL NANO MK2 soldering iron and holder 0A58 with brass wool 0008M/SB, splash guard 0009/SB and sponge 0004G/SB.*

*Soldering tip series 142 see pages 46/47.*

The integrated temperature sensor reacts immediately and accurately, ensuring a constant temperature for safe soldering, even with sensitive components.

With the 142 series, a comprehensive range of cost-effective soldering tips is available for a wide variety of applications.



### Technical data

| Station        | Rating/Voltage                   | Temperature  | Soldering iron  | Rating/Voltage   | Heating time         | Weight*      |
|----------------|----------------------------------|--------------|-----------------|------------------|----------------------|--------------|
| i-CON NANO MK2 | max. 80 W / 230 V (115 V), 50 Hz | 150 – 450 °C | i-TOOL NANO MK2 | max. 80 W/16.5 V | approx. 9 s (350 °C) | approx. 30 g |

\*without cable

# i-CON 1 MK2

## Industrial professional soldering station



### Order information

| Order no.     | Scope of supply                                                                                                                                                                      |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01C1105A      | i-CON 1 MK2 soldering station with i-TOOL MK2 soldering iron (0105CDJ), soldering tip 0142CDLF16, heating element 016100J, and holder 0A59 with brass wool 0008M/SB                  |
| 11C1105A00A67 | i-CON 1 MK2, 115 V version                                                                                                                                                           |
| 01C1105A0C    | i-CON 1C MK2 soldering station with interface, with i-TOOL MK2 soldering iron (0105CDJ), soldering tip 0142CDLF16, heating element 016100J, and holder 0A59 with brass wool 0008M/SB |



i-CON 1 MK2 with i-TOOL MK2 and holder 0A59.  
Soldering tip series 142 see pages 46/47.



The **i-CON 1 MK2** is the popular and proven "workhorse" for electronics production. It comes with the lightweight and ergonomic 150 W **i-TOOL MK2** soldering

iron – the perfect tool for all SMD and PTH applications.

The comprehensive 142 tip series enables the i-TOOL MK2 to be perfectly set for each job.

The digital i-CON 1 MK2 control station features the modern "One-Touch" operating concept with i-Op Control and large, backlit plain text display.

### Order information

| Order no.     | Scope of supply                                                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01C1105A58    | i-CON 1 MK2 soldering station with i-TOOL MK2 soldering iron (0105CDJ), soldering tip 0142CDLF16, heating element 016100J, and holder 0A58 with brass wool 0008M/SB, splash guard 0009/SB and sponge 0004G/SB |
| 11C1105A58A67 | i-CON 1 MK2, 115 V version                                                                                                                                                                                    |



i-CON 1 MK2 with i-TOOL MK2 and Tip'n'Turn holder 0A58.  
Soldering tip series 142 see pages 46/47.

### Technical data

| Station                  | Rating/Voltage                    | Soldering iron | Rating/Voltage | Heating time         | Weight*      |
|--------------------------|-----------------------------------|----------------|----------------|----------------------|--------------|
| i-CON 1 MK2/i-CON 1C MK2 | max. 150 W / 230 V (115 V), 50 Hz | i-TOOL MK2     | 150 W/24 V     | approx. 9 s (350 °C) | approx. 30 g |

\*without cable



# i-CON 1C MK2 ROBOT READY

## Hand soldering meets automation

**i-CON 1C MK2 ROBOT READY** is a customizable solution for automating manual soldering processes. It can be easily adapted to various motion gantries and integrated via an interface.

It is based on the **i-CON 1C MK2** soldering station with **i-TOOL MK2** soldering irons, which have been adapted according to the Poka-Yoke principle to prevent incorrect assembly in robotic systems. The same applies to automated tip changes within the system, which are performed with minimal downtime thanks to the tool-free tip holder based on the "Tip'n'Turn"

principle. For clear identification, all soldering tips have a QR code that can also be automatically scanned by a camera.

Five soldering tip versions are currently available for the i-CON 1C MK2 ROBOT READY. Customized models can be provided on request.

For more information on the i-CON 1C MK2 ROBOT READY, please contact your local sales partner.

### Technical highlights

- Simple, reliable integration in robotic environments
- Safe, reproducible soldering processes
- Safe tip exchange within record time due to Tip'n'Turn
- Fast heat-up/reheat
- Poka-Yoke prevents incorrect assembly

## SERIES 142 ERSADUR LONGLIFE SOLDERING TIPS

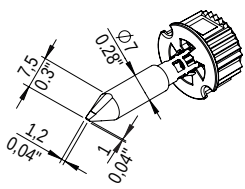
**TIP'N'TURN**



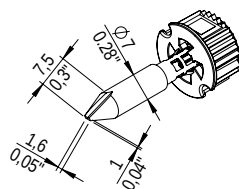
tip identification  
by QR code

■ i-CON 1C MK2 ROBOT READY mit LötKolben i-TOOL MK2

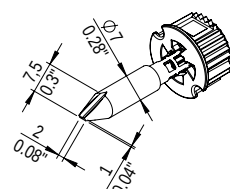
**0142CDLF12T\_RR/SB**  
angled face, 1.2 mm



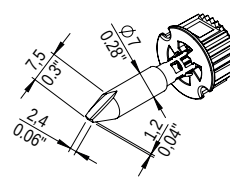
**0142CVLF16T\_RR/SB**  
angled face, notch, 1.6 mm



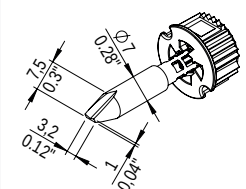
**0142CVLF20T\_RR/SB**  
angled face, notch, 2.0 mm



**0142CVLF24T\_RR/SB**  
angled face, notch, 2.4 mm



**0142CVLF32T\_RR/SB**  
angled face, notch, 3.2 mm



Customized soldering tips available on request.

# i-CON 2V MK2 / i-CON 2VC MK2

Double channel soldering and desoldering station –  
greater flexibility for pros



**0A58**

Optional Tip'n'Turn  
holder for i-TOOL MK2



Based on the future-oriented Erska VARIO platform, the double channel soldering and desoldering station **i-CON 2V MK2** is a further development of the well-known i-CON 2.

The station utilizes an intelligent power management to dynamically shift its power between the attached tools. i-CON 2V MK2, like all other i-CON stations, convinces by its intuitive one-touch operation and the large multifunctional display. It meets the ESD requirements and is available in a version with interface (i-CON 2VC MK2) to connect a fume extraction unit and a heating plate.

If required, the i-CON 2V MK2 can be updated like the i-CON VARIO stations with a microSD memory card and thus is prepared for future necessities.

## Order information

| Order no.     | Scope of supply                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0IC2205V      | i-CON 2V MK2 double channel soldering and desoldering station with i-TOOL MK2 soldering iron (0105CDJ), tip 0142CDLF16, heating element 016100J, and holder 0A59 with brass wool 0008M/SB                                                                                                      |
| 1IC2205V00A67 | i-CON 2V MK2 with i-TOOL MK2, 115 V version                                                                                                                                                                                                                                                    |
| 0IC2205VC     | i-CON 2V MK2 double channel soldering and desoldering station with i-TOOL MK2 soldering iron (0105CDJ), tip 0142CDLF16, heating element 016100J, CHIP TOOL VARIO desoldering tweezers (0460MDJ), tip pair 0462MDLF007, heating element 042100J, holders 0A59 and 0A54 with brass wool 0008M/SB |
| 0IC2205VIT    | i-CON 2V MK2 double channel soldering and desoldering station with 2 i-TOOL MK2 soldering irons (0105CDJ) with tip 0142CDLF16, heating element 016100J, and 2 holders 0A59 with brass wool 0008M/SB                                                                                            |
| 0IC2205VOC    | i-CON 2V C MK2 double channel soldering and desoldering station with interface, with i-TOOL MK2 soldering iron (0105CDJ), tip 0142CDLF16, heating element 016100J, and holder 0A59 with brass wool 0008M/SB                                                                                    |



## Technical data

| Station                     | Rating/Voltage          | 115 V version           |
|-----------------------------|-------------------------|-------------------------|
| i-CON 2V MK2/i-CON 2V C MK2 | max. 150 W/230 V, 50 Hz | max. 150 W/115 V, 60 Hz |



Optional **POWER TOOL** soldering iron  
Soldering tip series 832 and 842, see page 50



Optional **CHIP TOOL** desoldering tweezers  
Desoldering tip pairs, series 422/452, see page 53

#### Technical data soldering & desoldering tools

| Order no. | Description                          | Heating element | Rating/Voltage | Temperature range | Weight*  | Tool holder |
|-----------|--------------------------------------|-----------------|----------------|-------------------|----------|-------------|
| 0105CDJ   | i-TOOL MK2 soldering iron            | 016100J         | 150 W/24 V     | 50 - 450 °C       | ca. 30 g | 0A58, 0A59  |
| 0840CDJ   | POWER TOOL soldering iron            | 084100J         | 80 W/24 V      | 150 - 450 °C      | ca. 90 g | 0A42        |
| 0460MDJ   | CHIP TOOL VARIO desoldering tweezers | 042100J         | 2 x 40 W/24 V  | 50 - 450 °C       | ca. 30 g | 0A54        |
| 0450MDJ   | CHIP TOOL desoldering tweezers       | 042100J         | 2 x 20 W/24 V  | 150 - 450 °C      | ca. 75 g | 0A43        |

\*without cable

## *i-CON with interface*

One control unit for soldering and fume extraction



Fully equipped workplace with i-CON 2VC MK2 soldering station, i-TOOL MK2 soldering iron, CHIP TOOL VARIO desoldering tweezers and solder fume extraction EASY ARM 2.

Fume extraction systems are the most important peripheral systems on the workbench. The i-CON C stations incorporate an interface to control EASY ARM fume extraction systems.

Up to two i-CON 1 C MK2 or i-CON 2 VC MK2 stations can be combined with a filter unit EASY ARM 1 or EASY ARM 2 using an interface cable. The extraction unit is only working while at least one of the attached soldering stations is in operation.

When both i-CON stations are in standby mode, the EASY ARM filter unit automatically switches off, which results in longer filter lifetime, lower energy costs and less noise.

# THE MISSING LINK



## i-CON TRACE IoT Soldering Station

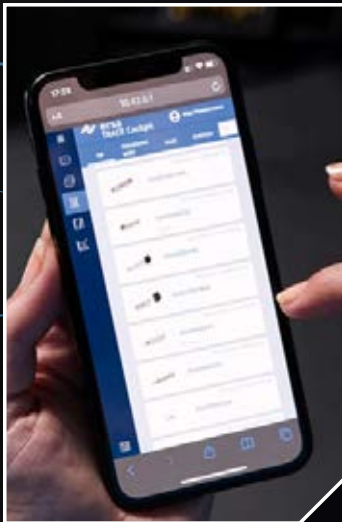


### 100 % Connectivity

With the i-CON TRACE, Ersa is offering the first soldering station specifically designed for use in a digitally networked environment and for complete traceability in hand soldering. With integrated WLAN, Bluetooth and an upgradeable network card it offers an all-new connectivity.

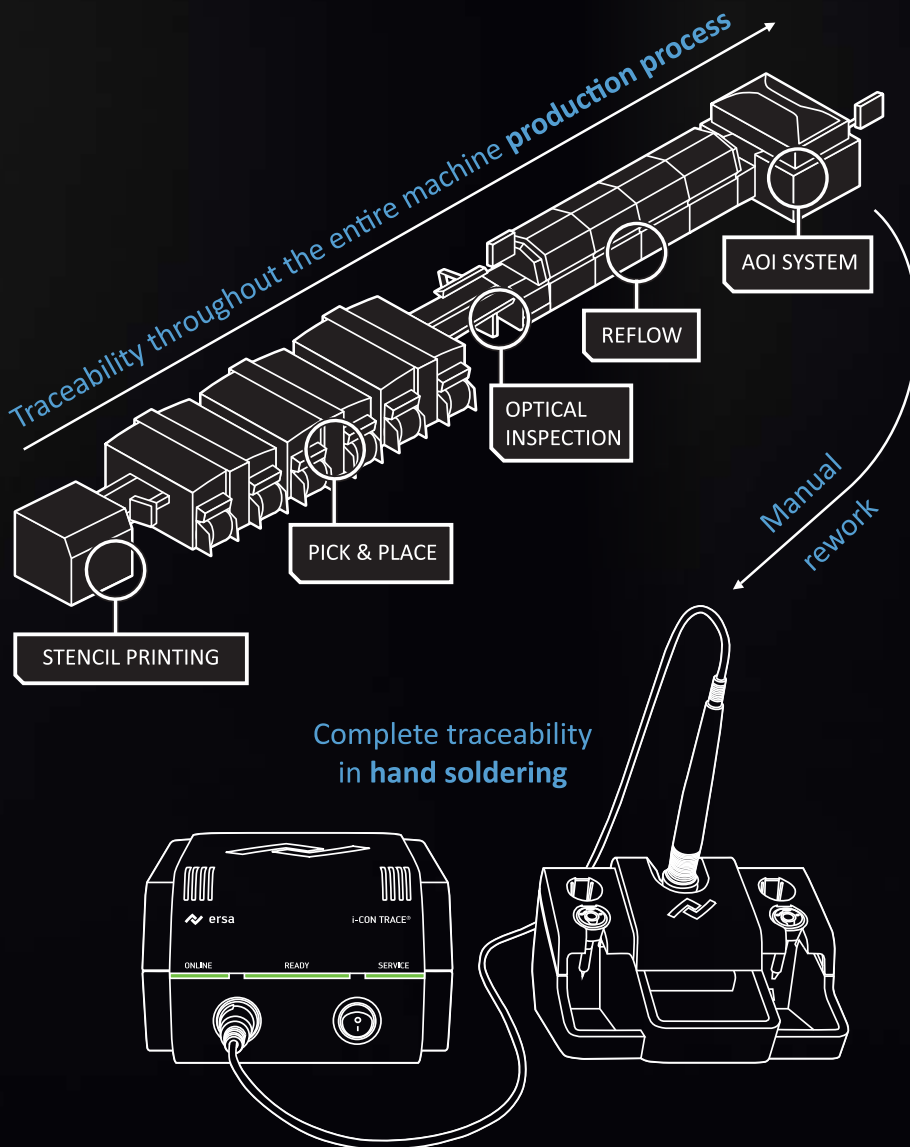
The operating software Ersa TRACE COCKPIT is available free of charge as a download, and it is installed centrally, i.e. only once, on the customer's server. As soon as a soldering station is integrated into the company network, all mobile end devices (PC, tablet, smartphone) that are in the company network and have the appropriate authorization can access the soldering stations.

Access is via web browser, e.g. Google, Chrome, Firefox, Windows Explorer. The server-based communication concept decisively facilitates the administration of the individual soldering stations by means of connectivity: Firmware updates, calibration intervals and much more can be carried out and monitored centrally from one computer.



## Traceability

Specific soldering tasks can be centrally assigned to each soldering station – via MES, PC or mobile device. Thereby all essential parameters such as the soldering tip to be used, temperature, soldering wire and flux are set centrally by qualified personnel. This significantly increases process reliability: Each workpiece is soldered according to the predefined specifications. The operator can concentrate fully on soldering and the susceptibility to errors is reduced.



## Fully comprehensive documentation/ MES connection

Seamless process data documentation is a key-feature of future electrical production. The i-CON TRACE closes the last gap in the manual soldering process and can be completely integrated into MES-controlled production processes. Thus it is already possible to download a recording of the entire soldering task via a desired file format and save this in a higher-level control system. In the future, even real-time communication between the soldering station and the customer's MES will be possible.

# GREEN MEANS GO!



Poka Yoke is a Japanese term meaning "error prevention" or "error-proofing". It is a method of designing a process or product to prevent defects from occurring in the first place. By using poka-yoke techniques in solder manufacturing, manufacturers can help improve product quality and increase productivity.

i-CON TRACE is designed to minimize errors and defects during the soldering process.

## Usability

With only one on/off switch and three LEDs, the interface of the soldering station differs significantly from all other industrial soldering stations with their complex setting options and a display. The work for the personnel at the soldering station is significantly simplified. By means of a hand-held scanner the component, soldering tip, solder wire and flux used are recorded. In this way, the system "knows" that all the conditions for the assigned soldering task are met.

The LED interface then literally gives the user the green light as soon as the predefined temperature is reached at the soldering tip. An effective measure to ensure that each solder joint is soldered with the exact temperature and the right material. Any malfunctions (e.g. defective heating element, wrong



soldering tip in relation to the component) are detected by the system and reported to the operator. If all parameters are correct, the soldering process is authorized. During soldering, the i-CON TRACE records the process data. Every soldering process is precisely documented and traceable.

# PREMIUM PERFORMANCE. MINIMUM COST.



With 150 W heating power, the i-CON TRACE offers outstanding performance. It heats up very quickly, and reheats even faster, and thus ensures a stable temperature profile. Newly designed soldering tips transfer the heat to the solder joint with pinpoint accuracy. The heating element and soldering tip can still be replaced separately. This saves resources and money, because each wearing part only needs to be replaced when it is really necessary. The i-CON TRACE – a well-thought-out solution that specifically supports your electronics production in everyday manufacturing.

Via the mobile app Ersas TRACE for smartphones and tablets, the i-CON TRACE can be used like a conventional stand-alone soldering station even without a connection to a company network. The program for controlling the soldering station runs on the mobile end device – relevant information such as set and actual temperature is displayed on a smart device via WLAN and can also be changed there. This enables demand-oriented, smart operation for the user.

## Mobile App Ersas TRACE



Download  
for iOS  
devices



Download  
for Android  
devices

## Order information

| Order No.      | Description                                                                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0ICT1000A      | i-CON TRACE soldering station with i-TOOL TRACE soldering iron (0140CDJ), soldering tip 0142CDLF16, heating element 014100J, and holder 0A58 with brass wool 0008M/SB, splash guard 0009/SB, and sponge 0004G/SB |
| 1ICT1000A00A67 | i-CON TRACE soldering station, complete, 115 V version                                                                                                                                                           |
| 0ICT125        | Network card i-CON TRACE                                                                                                                                                                                         |

## Technical data

| Station     | Rating/Voltage                     | Temperature | Soldering iron | Rating/Voltage | Heating time | Weight* |
|-------------|------------------------------------|-------------|----------------|----------------|--------------|---------|
| i-CON TRACE | max. 150 W/230 V (115 V), 50/60 Hz | 50 – 450 °C | i-TOOL TRACE   | 150 W/24 V     | approx. 9 s  | 30 g    |

\*without cable

Soldering & Desoldering Stations

# High-End Stations for Soldering and Rework



GLOBAL. AHEAD. SUSTAINABLE.

# Multiple tools for all applications

## Tools for i-CON VARIO 2 MK2 & i-CON VARIO 4 MK2

### i-TOOL AIR S

The ergonomic i-TOOL AIR S hot-air iron provides 200 W power permitting the user to process a wide range of SMDs in a non-exhausting way. The hot-air volume can be adjusted very easily directly on the handle, and the set air volume (2–20 l/min) is clearly visible on the display of either the i-CON VARIO 2 or the i-CON VARIO 4. Various nozzle sizes are available for an optimal component heat-up.



Extension for i-TOOL AIR S,  
length 1 m,  
order no. 01CV209

Hot-air nozzle series 472  
see page 54.

### i-TOOL HP

The i-TOOL HP offers maximum power for high-mass solder joints. With 250 W and different soldering tips, it delivers HIGH POWER in manual soldering. This tool can be operated on nearly all i-CON VARIO stations (compatibilities see pages 24, 25). For stand-alone operation, the i-CON VARIO 2 HP (01CV2000HP) version is recommended..

**i-TOOL MK2 and  
CHIP TOOL VARIO**  
see page 9



Soldering tip series 242  
see page 51.

### X-TOOL VARIO

The X-TOOL VARIO convinces with its 150 W heating technology. The design of heating element and desoldering tip ensure an optimal thermal transfer and a fast evacuation of the extracted solder. The slim shape of heating head and desoldering tip allow desoldering even on densely populated PCBs.



Extension for X-TOOL  
VARIO, length 1 m,  
order no. 01CV210

Cleaning kit for tip  
series 742H

VARIO TOOL  
service tool

Desoldering  
tip series 742  
see page 52.

### Technical data soldering & desoldering tools

| Order no. | Description                               | Heating element | Rating/Voltage | Temperature range | Weight*                      |
|-----------|-------------------------------------------|-----------------|----------------|-------------------|------------------------------|
| 0470ERJ   | i-TOOL AIR S hot-air iron                 | --              | 200 W/24 V     | 50 - 550°C        | approx. 90 g                 |
| 0740EDJ   | X-TOOL VARIO desoldering iron             | 074100J         | 150 W/24 V     | 150 - 450°C       | approx. 210 g<br>incl. cable |
| 0240CDJ   | i-TOOL HP high-performance soldering iron | 024100J         | 250 W/24 V     | 50 - 450°C        | approx. 110 g                |

\*without cable

# i-CON VARIO 2 MK2

## Double channel soldering and desoldering station



i-CON VARIO 2 MK2 with i-TOOL AIR S and X-TOOL VARIO



### Connectable tools

- **i-TOOL AIR S** hot air iron (200 W)
- **i-TOOL MK2** soldering iron (150 W)
- **CHIP TOOL VARIO** desoldering tweezers (2 x 40 W)
- **CHIP TOOL** desoldering tweezers (2 x 20 W)
- **X-TOOL VARIO** desoldering tool (150 W)
- **i-TOOL HP** high-power soldering iron (250 W)

For detailed descriptions please refer to pages 9 and 21.

The multichannel soldering and desoldering station **i-CON VARIO MK2** provides the professional user with two soldering tools that can be used simultaneously.

### 0A58

Tip'n'Turn holder for i-TOOL MK2



All functions, including the generation of the air and the vacuum required in the process are united in the supply unit, which features the easy to operate i-Op Control and a clearly arranged display. In addition, the

soldering stations have interfaces to connect the Erska solder fume extraction units or infrared heating plates, as well as an USB port. Via a micro-SD memory card, software updates are quick and safe.

i-TOOL MK2, CHIP TOOL, CHIP TOOL VARIO and X-TOOL VARIO are plugged in bushing A1. The high-performance bushing A2 can be used to operate either the i-TOOL AIR S (200 W) or the i-TOOL HP (250 W). The station without the pumps is for users that want to use exclusively the tools i-TOOL HP, i-TOOL, CHIP TOOL VARIO, CHIP TOOL.

### Technical data electronic stations

| Order no.  | Description       | Rating/Voltage          | Vacuum        | Air Flow     |
|------------|-------------------|-------------------------|---------------|--------------|
| 0ICV2035A  | i-CON VARIO 2 MK2 | max. 200 W/230 V, 50 Hz | —             | 2 – 20 l/min |
| 0ICV2035AP | i-CON VARIO 2 MK2 | max. 200 W/230 V, 50 Hz | max. 700 mbar | 2 – 20 l/min |
| 0ICV2035HP | i-CON VARIO 2 MK2 | max. 200 W/230 V, 50 Hz | —             | —            |
| 0ICV2035X  | i-CON VARIO 2 MK2 | max. 200 W/230 V, 50 Hz | max. 700 mbar | —            |

### Configurations & compatibility

| Order no.   | Description       | i-TOOL AIR S | i-TOOL MK2 | CHIP TOOL VARIO | CHIP TOOL | X-TOOL VARIO | i-TOOL HP |
|-------------|-------------------|--------------|------------|-----------------|-----------|--------------|-----------|
| 0ICV2005A   | i-CON VARIO 2 MK2 | ■            | □          | □               | □         | —            | □         |
| 0ICV2005AI  | i-CON VARIO 2 MK2 | ■            | ■          | □               | □         | —            | □         |
| 0ICV2005AC  | i-CON VARIO 2 MK2 | ■            | □          | ■               | □         | —            | □         |
| 0ICV2005AXV | i-CON VARIO 2 MK2 | ■            | □          | □               | □         | ■            | □         |
| 0ICV2005HP  | i-CON VARIO 2 MK2 | —            | □          | □               | □         | —            | ■         |
| 0ICV2005XV  | i-CON VARIO 2 MK2 | —            | □          | □               | □         | ■            | —         |
| 0ICV2005XVI | i-CON VARIO 2 MK2 | —            | ■          | □               | □         | ■            | —         |

■ scope of supply □ compatible — incompatible

# i-CON VARIO 4 MK2

## Multichannel soldering and desoldering station



The **i-CON VARIO 4 MK2** multichannel soldering and desoldering station meets the highest requirements in professional soldering and desoldering in every field of professional electronic manufacturing – including ESD protected zones. The high-end version of the i-CON family is based on the i-CON VARIO 2 MK2 and is the only soldering station in the world to provide the user with four soldering tools at the same time for demanding soldering tasks (detailed tool descriptions see pages 11 and 23):

- The **i-TOOL AIR S (200 W)** hot air iron – flexible SMD soldering and desoldering with non-contact energy transfer
- The **i-TOOL MK2 (150 W)** – powerful contact soldering with extensive tip range
- The **CHIP TOOL VARIO (2 x 40 W)** – precise desoldering of finest SMD components

- The **CHIP TOOL (2 x 20 W)** – safe desoldering of heat-sensitive SMDs
- The **X-TOOL VARIO (150 W)** desoldering iron – for safe and clean desoldering of PTH components
- The **i-TOOL HP (250 W)** – for large and high-mass solder joints

All functions, including the generation of air and vacuum, are united in the supply unit of the i-CON VARIO 4 MK2 which is also equipped with the easy to operate i-Op Control and its clearly arranged displays. The station has an interface for solder fume extraction units. Via a micro-SD memory card the it can be configured and updated safely and quickly. The high-performance bushing A2 can be used to operate either the i-TOOL AIR S (200 W) or the i-TOOL HP (250 W).

**0A58**

Tip'n'Turn holder for i-TOOL MK2

### Technical data electronic stations

| Order no. | Description                          | Rating/Voltage          | Vacuum        | Air Flow     |
|-----------|--------------------------------------|-------------------------|---------------|--------------|
| 01CV4035A | i-CON VARIO 4 MK2 electronic station | max. 500 W/230 V, 50 Hz | max. 700 mbar | 2 – 20 l/min |

### Configurations & compatibility

| Order no.     | Description       | i-TOOL AIR S | i-TOOL MK2 | CHIP TOOL VARIO | CHIP TOOL | X-TOOL VARIO | i-TOOL HP |
|---------------|-------------------|--------------|------------|-----------------|-----------|--------------|-----------|
| 01CV4005AI    | i-CON VARIO 4 MK2 | ■            | ■          | □               | □         | □            | □         |
| 01CV4005AIC   | i-CON VARIO 4 MK2 | ■            | ■          | ■               | □         | □            | □         |
| 01CV4005AICXV | i-CON VARIO 4 MK2 | ■            | ■          | ■               | □         | ■            | □         |

■ scope of supply □ compatibility

# i-CON Matrix

Possible combinations of models, tools and peripherals

|                                                                                                          | Lötwerkzeuge und Zubehör                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                          |  |  |  |  |  |  |  |  |  |  |
| i-CON control stations                                                                                   | i-TOOL PICO MK2                                                                   | i-TOOL NANO MK2                                                                   | i-TOOL TRACE                                                                      | i-TOOL MK2                                                                        | i-TOOL AIR S                                                                      | i-TOOL HP                                                                         | CHIP TOOL VARIO                                                                     | CHIP TOOL                                                                           | X-TOOL VARIO                                                                        | EASY ARM 1+2                                                                        |
| <br>i-CON PICO MK2      | ■                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <br>i-CON NANO MK2      |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <br>i-CON 1 MK2         |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <br>i-CON 1V MK2       |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   | ■                                                                                   | ■                                                                                   |                                                                                     |                                                                                     |
| <br>i-CON 1C MK2      |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | ■                                                                                   |
| <br>1-CON 1 VC MK2    |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   | ■                                                                                   | ■                                                                                   |                                                                                     | ■                                                                                   |
| <br>i-CON 2V MK2      |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   | ■                                                                                   | ■                                                                                   |                                                                                     |                                                                                     |
| <br>i-CON 2 VC MK2    |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   | ■                                                                                   | ■                                                                                   |                                                                                     | ■                                                                                   |
| <br>i-CON TRACE       |                                                                                   |                                                                                   | ■                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <br>i-CON VARIO 2 MK2 |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   | ■                                                                                   | ■                                                                                   |
| <br>i-CON VARIO 4 MK2 |                                                                                   |                                                                                   |                                                                                   | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   | ■                                                                                   | ■                                                                                   |
| Compatible tool holders                                                                                  | 0A60<br>0A58                                                                      | 0A59<br>0A58                                                                      | 0A58                                                                              | 0A59<br>0A58                                                                      | 0A55                                                                              | 0A57                                                                              | 0A54                                                                                | 0A43                                                                                | 0A56                                                                                |                                                                                     |

All soldering tools are compatible with the respective preceding control stations.



# Fume Extraction EASY ARM



GLOBAL. AHEAD. SUSTAINABLE.

# EASY ARM 1 AND EASY ARM 2

For a healthy work environment



## Technical highlights

- 3-stage particle and gas filtering
- Super silent operation
- Independently adjustable suction power per arm
- Optical and acoustical filter exchange status
- Easy and fast filter exchange – without tools
- Identical filters for EASY ARM 1 and EASY ARM 2

Solder fume extraction **EASY ARM 1** and **EASY ARM 2** stand out by a high suction power and an filter performance combined with super silent operation. Exhaust volume per arm is 100 m<sup>3</sup>/h. Both are equipped with filters that clean the process air in three stages: The pre-filter absorbs dust and big particles. The combined filter separates micro particles which occur during soldering and absorbs dangerous gas molecules in the incorporated activated carbon filter.

The operator can choose between a system with one exhaust arm – the EASY ARM 1 – and a unit with two exhaust arms – the EASY ARM 2. Both units can be mounted individually by means of their table clamp. Exhaust power is set

independently for each extraction arm at the touch of a button. The EASY ARM 1 and EASY ARM 2 use an identical pre-filter and combined filter. Optical and acoustical signals inform the operator when filters have to be exchanged. A wide range of exhaust arms and nozzles for all applications are available so that the user will find the proper solution for his requirements.

For energy saving purposes and to extend filter lifetime, both units can be connected with Ersas i-CON soldering stations or a standby switch. In this way, the extraction unit is only working whilst the attached soldering station is in operation, stopping as soon as the soldering station goes into standby mode.



*If an enhanced suction capacity is required, both exhaust stacks of the EASY ARM 2 can be combined into one with the booster **OCA10-9011**. Any standard extraction arm can be attached (see accessories table on the next page).*

## Order information

| Order no. | Description                                                   | Dimensions (L x B x H) | Rating                              | Volume flow/ Vacuum                              | Noise level    | Filter                      |
|-----------|---------------------------------------------------------------|------------------------|-------------------------------------|--------------------------------------------------|----------------|-----------------------------|
| OCA10-001 | Ersa EASY ARM 1 filter unit, complete, with i-CON C interface | 255 x 255 x 470 mm     | 40 W /<br>100 – 240 V<br>50 – 60 Hz | 100 m <sup>3</sup> /h max. /<br>1,800 Pa         | max. 50 dB (A) | HEPA<br>activated<br>carbon |
| OCA10-002 | Ersa EASY ARM 2 filter unit, complete, with i-CON C interface | 490 x 255 x 470 mm     | 80 W /<br>100 – 240 V<br>50 – 60 Hz | 2 x 100 m <sup>3</sup> /h max. /<br>2 x 1,800 Pa | max. 50 dB (A) | HEPA<br>activated<br>carbon |



# ACCESSORIES & SPARE PARTS

## EASY ARM 1 and EASY ARM 2

|                                                                                     | Order no.   | Description                                                                                                |                                                                                     | Order no.     | Description                                                                                       |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------|
|    | 0CA10-4002  | Extraction arm Highflex, 1,000 mm, antistatic, direct mount at the filter unit                             |    | 3CA10-9001    | Table clamp for EASY ARM 1                                                                        |
|   | 0CA10-4003  | Extraction arm Omniflex, 900 mm, antistatic, direct mount at the filter unit                               |   | 3CA10-9002    | Table clamp for EASY ARM 2                                                                        |
|  | 0CA10-4001  | Hinged extraction arm, 500 mm, Highflex, table mount, incl. 0CA10-2002                                     |  | 0CA10-1001    | Combined particle filter H13, HEPA gas filter with activated carbon granulate, incl. prefilter G4 |
|  | 0CA10-4004  | Hinged extraction arm, 600 mm, Omniflex, table mount, incl. 0CA10-2002                                     |  | 0CA10-1002/04 | Prefilter G4 for big particles (4 pcs./packing unit), wear part for 0CA10-1001                    |
|  | 0CA10-2002  | Connecting hose, antistatic, 2,000 mm                                                                      |  | 3CA10-2003    | Interface cable to connect soldering stations with interface                                      |
|  | 0CA10-9006  | Nozzle coupling Omniflex, antistatic (only with extraction arms Omniflex and extraction nozzles 5001/5004) |  | 3CA10-2004    | Standby switch                                                                                    |
|  | 0CA10-5001* | Extraction nozzle, metallic, antistatic, ø 60 mm                                                           |  | 0CA10-9004    | Appliance coupling, antistatic                                                                    |
|  | 0CA10-5002  | Extraction nozzle, round, ø 118 mm, antistatic                                                             |  | 3CA10-9008    | Cover lid for exhaust arm connection                                                              |
|  | 0CA10-5003  | Extraction nozzle, rectangular, 155 mm x 90 mm, antistatic                                                 |  | 0CA10-4005    | Table duct Omniflex incl. 0CA10-2002                                                              |
|  | 0CA10-5004* | Extraction nozzle Plus, 230 mm x 85 mm, transparent                                                        |  | 291405        | Table duct with extraction arm Omniflex, 600 mm, incl. 0CA10-2002                                 |
|  | 0CA10-5005* | Extraction nozzle, plastic antistatic, 60 mm ø                                                             |  | 290763        | Table duct with extraction arm Highflex, 500 mm, incl. 0CA10-2002                                 |

\*In combination with an Omniflex arm, nozzle coupling Omniflex 0CA10-9006 is required.

## Soldering irons and sets



GLOBAL. AHEAD. SUSTAINABLE.

# UNIVERSAL SOLDERING IRONS

## Ersa 30 S and MULTI-TIP

**Ersa 30 S** stands out by its sturdiness and longevity and is available with **30 W** and **40 W**. It can be used in a variety of ways for soldering tasks in handicrafts, service and hobbies. Delivery includes a practical, easy to mount rubber stick-on support disk.

The **MULTI-TIP** irons cover a wide range of applications and stand out by low weight and compact design. The handle stays cool while soldering. The MULTI-TIP is available with 15 W and 25 W and suitable for micro-soldering joints and medium-sized soldering. Internally heated soldering tips and long-life PTC heating elements provide a constant tip temperature.



*Ersa 30 S universal soldering iron. Soldering tip series 032 see page 55.  
The Ersa 30 S is also available with heat-resistant cable: order no. 0330KD0028.*



*Micro soldering iron MULTI-TIP C15. Soldering tip series 162 see page 54.*



*Micro soldering iron MULTI-TIP C25. Soldering tip series 172 see page 54.*

### Order information

| Order no.<br>230 V | Order no.<br>115 V | Description/<br>Rating             | ERSADUR<br>tip | Heating element<br>230 V | Heating element<br>115 V | Heating<br>time | Max. tip<br>temperature | Weight* |
|--------------------|--------------------|------------------------------------|----------------|--------------------------|--------------------------|-----------------|-------------------------|---------|
| 0330KD             | 1330KDA068         | Ersa 30 S soldering iron, 30 W     | 0032KD         | E033100                  | 033100A                  | approx. 120 s   | approx. 380 °C          | 80 g    |
| 0340KD             | 1340KDA068         | Ersa 30 S soldering iron, 40 W     | 0032KD         | E034100                  | 034100A                  | approx. 120 s   | approx. 420 °C          | 80 g    |
| 0910BD             | —                  | MULTI-TIP C15 soldering iron, 15 W | 0162BD         | E091100                  | —                        | approx. 120 s   | approx. 350 °C          | 28 g    |
| 0920BD             | —                  | MULTI-TIP C25 soldering iron, 25 W | 0172BD         | E092100                  | —                        | approx. 90 s    | approx. 450 °C          | 34 g    |

\*without cable



# STANDARD SOLDERING IRONS

## Ersa 50 S, Ersa 80 S and Ersa 150 S

The soldering irons **Ersa**

**50 S/80 S/150 S** are designed for soldering operations with a greater heat requirement, as, for example, on copper conductors with a cross-section of 2.5 mm<sup>2</sup> (Ersa 50 S, 50 W) to 6 mm<sup>2</sup> (Ersa 150 S, 150 W).

The devices are supplied with an angled soldering tip as standard. Thanks to their elaborate "protective coating", ERSADUR tips have a long service life.

Other areas of application include soldering thin sheet metal and lead glazing (Ersa 150 S).



Standard soldering iron Ersa 50 S. Soldering tip series 052 see page 55.

Standard soldering iron Ersa 80 S. Soldering tip series 082 see page 55.

Standard soldering iron Ersa 150 S. Soldering tip series 152 see page 55.

### Order information

| Order no.<br>230 V | Order no.<br>115 V | Description/<br>Rating    | ERSADUR<br>tip | Heating element<br>230 V | Heating element<br>115 V | Heating<br>time | Max. tip<br>temperature | Weight* |
|--------------------|--------------------|---------------------------|----------------|--------------------------|--------------------------|-----------------|-------------------------|---------|
| 0055JD             | 1055JDA068         | Ersa 50 S soldering iron  | 0052JD         | E005100                  | 005100A                  | approx. 3 min   | approx. 400 °C          | 160 g   |
| 0085JD             | 1085JDA068         | Ersa 80 S soldering iron  | 0082JD         | E008100                  | 008100A                  | approx. 3 min   | approx. 410 °C          | 220 g   |
| 0155JD             | 1155JDA068         | Ersa 150 S soldering iron | 0152JD         | E015100                  | 015100A                  | approx. 3 min   | approx. 450 °C          | 245 g   |

\*without cable

# HIGH-SPEED SOLDERING IRONS

## MULTI-SPRINT solder gun

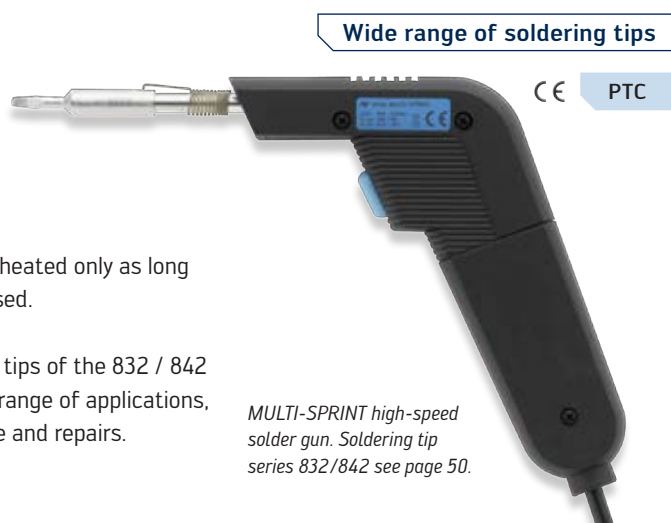
The Ersa **MULTI-SPRINT** is an extremely light, transformer-independent solder gun with a heat-up rating of up to 150 W and an ergonomic design.

In combination with the internally heated ERSADUR longlife soldering tip, the MULTI-SPRINT's PTC (Positive Temperature Coefficient) 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 repairs.

MULTI-SPRINT high-speed solder gun. Soldering tip series 832/842 see page 50.



### Order information

| Order no.<br>230 V | Order no.<br>115 V | Description/<br>Rating               | ERSADUR<br>tip | Heating element<br>230 V | Heating element<br>115 V | Heating<br>time | Max. tip<br>temperature                         | Weight* |
|--------------------|--------------------|--------------------------------------|----------------|--------------------------|--------------------------|-----------------|-------------------------------------------------|---------|
| 0960ED             | 1960EDA068         | MULTI-SPRINT solder gun,<br>150/75 W | 0832EDLF       | E096100                  | 096100A                  | approx. 15 s    | subject to how<br>long the button<br>is pressed | 100 g   |

\*without cable

# TEMPERATURE CONTROLLED IRONS

## PTC 70 and MULTI-TC



PTC 70 - power soldering iron with temperature control. Soldering tip series 832/842 see page 50.

The Ersa **PTC 70** is a powerful and sturdy universal soldering iron with Ersa RESISTRONIC temperature control. This proven temperature control system together with the ceramic PTC heating element provides

unusually fast heat-up and heat recovery. Due to the accurate temperature control and the wide range of ERSADUR longlife tips of the 832 and 842 series, the PTC 70 is a perfect tool for both very small solder

joints as well as for applications with medium heat requirements. The PTC 70 is supplied with the soldering tip 0832CDLF.

### Order information

| Order no. | US version<br>115 V | Description           | With soldering tip | Rating/<br>Voltage         | Heating<br>time          | Max. tip<br>temperature | Weight*      |
|-----------|---------------------|-----------------------|--------------------|----------------------------|--------------------------|-------------------------|--------------|
| 0710CD    | 1710CDA068          | PTC 70 soldering iron | 0832CDLF, ERSADUR  | 75 W (350 °C)/<br>230 V AC | approx. 34 s<br>(280 °C) | 250 – 450 °C            | approx. 60 g |

\*without cable



MULTI-TC - power soldering iron with temperature control. Soldering tip series 832/842 see page 50.

The Ersa **MULTI-TC** is a powerful, sturdy, temperature-controlled universal soldering iron with a precise temperature sensor located directly under the internally heated soldering tip. This temperature sensor registers the actual temperature in the immediate vicinity of the solder joint. Consequently, the heating system with

internal PTC heating element immediately reacts to the heat loss and recovers very fast.

The high heating efficiency and the large selection of soldering tips serve filigree applications in electronics. The MULTI-TC can also be used for further applications,

for example classical lead glazing and Tiffany soldering.

By dispensing with a heavy transformer and thanks to its heat-resistant connecting cable, the Ersa MULTI-TC is especially suitable for mobile use in service, maintenance and repairs.

### Order information

| Order no. | Description             | With soldering tip | Rating/<br>Voltage                    | Heating<br>time          | Max. tip<br>temperature | Weight* |
|-----------|-------------------------|--------------------|---------------------------------------|--------------------------|-------------------------|---------|
| 0760CD    | MULTI-TC soldering iron | 0842CD,<br>ERSADUR | 75 W (350 °C)<br>230 V,<br>50 – 60 Hz | approx. 34 s<br>(280 °C) | 250 – 450 °C            | 60 g    |

\*without cable

# GAS SOLDERING IRON

## INDEPENDENT 75

### INDEPENDENT 75 PROFI-SET

- INDEPENDENT 75 gas soldering iron with soldering tip 0G072KN
- Soldering tips 0G072CN, 0G072AN and 0G072VN
- Flame nozzle 0G072BE
- Hot gas nozzle 0G072HE
- Hot blade 0G072MN
- Deflector 0G072RE to shrink heat-shrinkable sleeves
- Tool holder 0A20
- Cleaning sponge with sponge container 0G157/SB



Soldering tip series G072 see page 54.

Mobile power – wherever you want! Powerful, with comprehensive and top-quality equipment, small, handy and practically packed. The Ersa **INDEPENDENT 75 BASIC-SET** and **PROFI-SET** gas soldering sets 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 filtered butane

gas. Operating time per gas filling is about 60 min. However, the INDEPENDENT 75 is supplied without gas filling for safety reasons.

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 high-resistance foam, a hot-gas nozzle, a deflector for heat-shrinkable sleeves and a flame nozzle for micro-welding.



### INDEPENDENT 75 BASIC-SET

- INDEPENDENT 75 gas soldering iron with soldering tip 0G072KN
- Soldering tip 0G072CN
- Holder 0A20
- Cleaning sponge with sponge container 0G157/SB

#### Order information

| Order no.  | Description                                                     | With soldering tip                                                                  | Rating/ Voltage | Heating time          | Max. tip temperature | Weight |
|------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-----------------------|----------------------|--------|
| 0G07400041 | INDEPENDENT 75 BASIC-SET gas soldering set, without gas filling | ...KN; ...CN                                                                        | 15 – 75 W       | approx. 46 s (280 °C) | approx. 580 °C       | 73 g   |
| 0G07400141 | INDEPENDENT 75 PROFI-SET gas soldering set, without gas filling | ...KN; ...CN; ...AN; ...VN; ...BE; ...HE; ...MN; ...RE                              | 15 – 75 W       | approx. 46 s (280 °C) | approx. 580 °C       | 73 g   |
| 0G808K     | Butane gas cartridge.<br>Contains hazardous substances          |  |                 |                       |                      |        |

# GAS SOLDERING IRON

## INDEPENDENT 130



Soldering tip series G132 see page 54.

The “big” gas soldering device, the **INDEPENDENT 130**, can be applied wherever demanding soldering tasks have to be performed without a power supply.

Its broad range of continuously variable **25 – 130 W (compared with electrical soldering irons)** and its comprehensive range of soldering tips allow a wide variety of uses in service, installation, maintenance and repair work.



### INDEPENDENT 130 PROFI-SET

- INDEPENDENT 130 gas soldering iron with soldering tip OG132KN
- Soldering tips OG132CN, OG132AN and OG132VN
- Flame nozzle OG132BE
- Hot gas nozzle OG132HE
- Hot blade OG132MN
- Deflector OG132RE to shrink heat-shrinkable sleeves
- Cleaning sponge with sponge container OG157/SB

The integrated piezo ignition and powering by filtered butane gas ensure the easiest possible handling and great reliability. The operating time per gas filling is about 120 minutes, with a maximum tip temperature of about 580 °C. However, the INDEPENDENT 130 is supplied without gas filling for safety reasons

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**.



### INDEPENDENT 130 BASIC-SET

- INDEPENDENT 130 gas soldering iron with soldering tip OG132KN
- Soldering tip OG132CN
- Holder 0A20
- Cleaning sponge with sponge container OG157/SB

#### Order information

| Order no.  | Description                                                      | With soldering tip                                                                  | Rating/ Voltage | Heating time          | Max. tip temperature | Weight |
|------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-----------------------|----------------------|--------|
| OG13400041 | INDEPENDENT 130 BASIC-SET gas soldering set, without gas filling | ...KN; ...CN                                                                        | 25 – 130 W      | approx. 50 s (280 °C) | approx. 580 °C       | 121 g  |
| OG13400141 | INDEPENDENT 130 PROFI-SET gas soldering set, without gas filling | ...KN; ...CN; ...AN; ...VN; ...BE; ...HE; ...MN; ...RE                              | 25 – 130 W      | approx. 50 s (280 °C) | approx. 580 °C       | 121 g  |
| OG808K     | Butane gas cartridge.<br>Contains hazardous substances           |  |                 |                       |                      |        |

## Accessories and process materials



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# TEMPERATURE MEASURING DEVICE

## DTM 110

In certified businesses and from a quality standpoint, regular checks of the soldering tip temperature are obligatory. Erska soldering stations are extremely temperature-stable over their entire service life.



Possible differences between the set and actual value due to differences in tips, oxidation or due to slight heating element tolerances in the RESISTRONIC control system can be easily ascertained with the **DTM 110** temperature measuring device and corrected easily and fast on nearly all Erska soldering stations.

Also available  
with calibration  
certificate



*The DTM 110 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.*

### Order information

| Order no. | Description                                                               | Measuring range | Operating temperature | Power supply          | Dimensions without sensor unit | Weight*       |
|-----------|---------------------------------------------------------------------------|-----------------|-----------------------|-----------------------|--------------------------------|---------------|
| ODTM110   | DTM 110 temperature measuring device                                      | -65 – 1,200 °C  | -20 – 50 °C           | 2 x AA battery, 1.5 V | approx. 108 x 54 x 28 mm       | approx. 125 g |
| ODTM110C  | DTM 110 temperature measuring device with factory calibration certificate | -65 – 1,200 °C  | -20 – 50 °C           | 2 x AA battery, 1.5 V | approx. 108 x 54 x 28 mm       | approx. 125 g |

\*with batteries

# VACUUM PIPETTE

## SVP 100



The **SVP 100** vacuum pipette can be used to handle nearly all components, except MELFs and MINI-MELFs. This tool consists of a nickel-plated aluminum handle, sealed at the rear end by a plug.

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

### Order information

| Order no. | Description                                                                         | Length | ø Housing diameter | ø Cup diameters  | Weight |
|-----------|-------------------------------------------------------------------------------------|--------|--------------------|------------------|--------|
| OSVP100   | SVP 100 vacuum pipette, complete, with bent tip OSVP12K and 3 silicone cups OSVP13A | 150 mm | 14 mm              | 4 mm, 6 mm, 9 mm | 60 g   |

# DESOLDERING DEVICE

## SOLDAPULLT AS 196

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.



SOLDAPULLT AS 196 desoldering device

### Order information

| Order no. | Description                                     | Desoldering tips | Suction capacity   |
|-----------|-------------------------------------------------|------------------|--------------------|
| 0AS196    | SOLDAPULLT AS 196 antistatic desoldering device | 0LS197           | 34 cm <sup>3</sup> |

# PINCETTE

## 3ZT00165

Components from all areas of electronics, especially SMT technology, can be easily and safely picked and handled with the **3ZT00165** tweezers.

### Order information

| Order no. | Description                            |
|-----------|----------------------------------------|
| 3ZT00165  | Pincette to pick and handle components |



# TIP EXCHANGER

## 3ZT00164

For changing all internally heated soldering 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.

### Order information

| Order no. | Description   |
|-----------|---------------|
| 3ZT00164  | Tip exchanger |



# TIP REACTIVATOR

The TIP REACTIVATOR works already at low temperatures. It is free of lead and halogenes. To reactivate an oxidized tip, heat-up the tip and wipe it on the surface of the regeneration compound.

### Order information

| Order no. | Description               |
|-----------|---------------------------|
| 0TR01/SB  | TIP REACTIVATOR, 15 g can |
| 0TR03/SB  | TIP REACTIVATOR, 25 g can |



TIP REACTIVATOR  
0TR03/SB contains hazardous material:



# STACKING RACKS

## STR 200

The Ersa **STR 200** stacking rack can be used for combining two i-CON soldering stations at a small footprint. The STR 200 is of antistatic design.



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

### Order information

| Order no. | Description                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------|
| OSTR200   | STR 200 stacking rack to arrange the Ersa i-CON soldering stations in a safe and space-saving way on the workbench |

# SOLDER WIRE DISPENSER

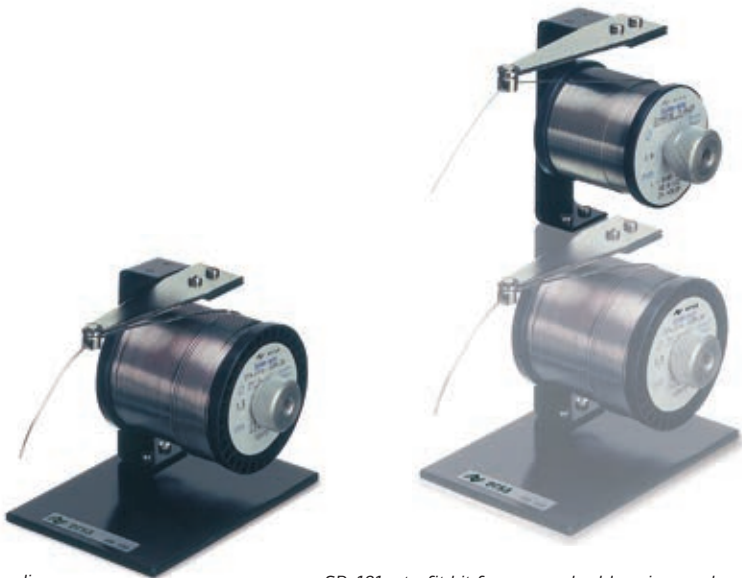
## SR 100

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 100 solder wire dispenser (delivery without solder wire)

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

### Order information

| Order no. | Description                                | Solder wire spools    | Spool receiver diameter |
|-----------|--------------------------------------------|-----------------------|-------------------------|
| OSR100    | SR 100 solder wire dispenser for one spool | 250 g, 500 g, 1,000 g | 14 mm                   |
| OSR101    | Retrofit kit SR 101 for a 2nd spool        | 250 g, 500 g, 1,000 g | 14 mm                   |

# TOOL HOLDERS AND ACCESSORIES

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 be 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 viscose or brass wool for tip cleaning, as well as options for conveniently resting and storing soldering and desoldering tips.

## TOOL HOLDERS & CLEANING SPONGES

|                                                                                     | Order no. | Description                                                                                                         |                                                                                     | Order no. | Description                                                                                                                           |
|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------|
|    | 0A04      | Tool holder for soldering irons from 50 W – 150 W output; ISOTYP and 0185PZ soldering irons                         |    | 0A56      | Tool holder for X-TOOL VARIO desoldering iron                                                                                         |
|    | 0A05      | Universal tool holder for medium-sized and small soldering irons                                                    |    | 0A57      | Tool holder for i-TOOL HP soldering iron                                                                                              |
|   | 0A08MSET  | Brass wool 0008M/SB with container for dry cleaning of soldering tips                                               |   | 0A58      | <b>TIP'N'TURN</b><br>Tip'n'Turn holder, antistatic, for i-TOOL TRACE, i-TOOL PICO MK2, i-TOOL NANO MK2 and i-TOOL MK2 soldering irons |
|  | 0A17      | Tool holder for soldering irons from 200 W to 550 W                                                                 |  | 0A59      | Tool holder for i-TOOL MK2, i-TOOL NANO MK2 soldering irons                                                                           |
|  | 0A18      | Tool holder for soldering irons of the MULTI-TIP series; TIP 260 soldering iron                                     |  | 0A60      | Tool holder for i-TOOL PICO MK2 soldering iron                                                                                        |
|  | 0A20      | Tool holder for gas soldering irons INDEPENDENT 75 and INDEPENDENT 130                                              |  | 3N194/SB  | Rubber support disk for MULTI-TIP, MULTI-PRO, Ersa 30 S soldering irons                                                               |
|  | 0A39      | Tool holder for RT 80 soldering iron                                                                                |  | 0G157/SB  | Sponge container with sponge for INDEPENDENT 75 and INDEPENDENT 130 gas soldering irons                                               |
|  | 0A42      | Tool holder for TIP TOOL, POWER TOOL, ERGO TOOL, MICRO TOOL and TECH TOOL soldering irons                           |  | 0009/SB   | Splash guard for 0A58 tool holder                                                                                                     |
|  | 0A43      | Tool holder for CHIP TOOL desoldering tweezers                                                                      |  | 0003B/SB  | Viscose sponge, blue, 55 x 55 mm, for tool holders 0A09, 10, 13, 16, 24, 25, 28, 29, 30, 34, 35, 36, 39, 41 – 45, 48                  |
|  | 0A45      | Universal holder for 832 tip series (C8 – C18, MD, QD, ZD models), solder wire feed unit and solder fume extraction |  | 0004G/SB  | Viscose sponge, 34 x 65 mm for tool holders 0A05, 0A21, 0A26 and 0A58                                                                 |
|  | 0A54      | Tool holder for CHIP TOOL VARIO desoldering tweezers                                                                |  | 0008M/SB  | Brass wool, single piece packaging (pack of 10: 0008M/10)                                                                             |
|  | 0A55      | Tool holder for i-TOOL AIR S hot air iron                                                                           |                                                                                     |           |                                                                                                                                       |

B2B Webshop



# SOLDER WIRE



B2B Webshop



Solder wire is available in different alloys and drum sizes in order to meet various fields of application.

All **solder wires** consist exclusively of high-quality raw materials. Manufactured on state-of-the-art machines, the wire meets all quality requirements. It is available 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 the electrical and electronics industries.

Please refer to the webshop for a detailed list including wire diameters, further information and order numbers.

## Order information

| Order no.       | Solder alloy according to DIN EN 29453 | Description                                                                  | Diameter            | Melting temperature |
|-----------------|----------------------------------------|------------------------------------------------------------------------------|---------------------|---------------------|
| 010MM0250LF02   | Sn96.5Ag3.0Cu0.5                       | with 3.5% flux core according to J-STD-004A/ EN61190-1-1: ROLO, halogen-free | 1.0 mm, 250 g drum  | 217 °C              |
| 015MM0250LF02   | Sn96.5Ag3.0Cu0.5                       | with 3.5% flux core according to J-STD-004A/ EN61190-1-1: ROLO, halogen-free | 1.5 mm, 250 g drum  | 217 °C              |
| 4I16035SAC305-1 | IF14/16 Sn96.5Ag3.0Cu0.5               | with 1.6% flux core according to J-STD-004A/ EN61190-1-1: RELO, halogen-free | 0.35 mm, 100 g drum | 217 °C – 219 °C     |
| 4I16050SAC305-5 | IF14/16 Sn96.5Ag3.0Cu0.5               | with 1.6% flux core according to J-STD-004A/ EN61190-1-1: RELO, halogen-free | 0.5 mm, 500 g drum  | 217 °C – 219 °C     |
| 4I16070SAC305-5 | IF14/16 Sn96.5Ag3.0Cu0.5               | with 1.6% flux core according to J-STD-004A/ EN61190-1-1: RELO, halogen-free | 0.7 mm, 500 g drum  | 217 °C – 219 °C     |
| 4I16100SAC305-5 | IF14/16 Sn96.5Ag3.0Cu0.5               | with 1.6% flux core according to J-STD-004A/ EN61190-1-1: RELO, halogen-free | 1.0 mm, 500 g drum  | 217 °C – 219 °C     |
| 4IF091.0-0500   | IF09 Sn63Pb37                          | with 0.9% flux core, J-STD-004A/EN61190-1-1: ROLO, halogen-free,             | 1.0 mm, 500 g drum  | 183 °C              |
| 4IF140.5-0500   | IF14 Sn60Pb40                          | with 1.4% flux core, J-STD-004A/ EN61190-1-1: RELO                           | 0.5 mm, 500 g drum  | 183 °C – 190 °C     |
| 4IF140.7-0500   | IF14 Sn60Pb40                          | with 1.4% flux core, J-STD-004A/ EN61190-1-1: RELO                           | 0.7 mm, 500 g drum  | 183 °C – 190 °C     |
| 4IF141.0-0500   | IF14 Sn60Pb40                          | with 1.4% flux core, J-STD-004A/ EN61190-1-1: RELO                           | 1.0 mm, 500 g drum  | 183 °C – 190 °C     |

# DESOLDERING WICKS

Ersa **desoldering wicks** are saturated with halogen-free 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 application of additional flux may be appropriate under certain circumstances.



## Order information

| Order no.     | Description                               | Package size* |
|---------------|-------------------------------------------|---------------|
| 0WICKNC1.5/10 | No-Clean wick, length 1.5 m, width 1.5 mm | 10 pcs.       |
| 0WICKNC2.2/10 | No-Clean wick, length 1.5 m, width 2.2 mm | 10 pcs.       |
| 0WICKNC257/10 | No-Clean wick, length 1.5 m, width 2.5 mm | 10 pcs.       |
| 0WICKNC4.9/10 | No-Clean wick, length 1.5 m, width 4.9 mm | 10 pcs.       |

\*single-piece package also available

# FLUX AND FLUX REMOVERS



No-Clean flux creams, available in different quantities

FLUX-REMOVER

FLUX-PEN

**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 easily and precisely be 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.

## Order information

| Order no.     | Description                                                                                                                            | Quantities       | Danger sign |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|
| 0FMKANC32-005 | No-Clean flux cream, EN 29454/1.1.3 C                                                                                                  | 5 ml cartridge   | 05; 08; 09  |
| 0FMKANC32-200 | No-Clean flux cream, EN 29454/1.1.3 C                                                                                                  | 200 ml can       | 05; 08; 09  |
| 4FMJF8300-005 | Flux gel 8300 for rework, EN 29454-1/1.2.3 C (F-SW33), resinous, halogen-free, low residues                                            | 5 ml cartridge   | 07          |
| 4FMJF8300-030 | Flux gel 8300 for rework, EN 29454-1/1.2.3 C (F-SW33), resinous, halogen-free, low residues                                            | 30 ml cartridge  | 07          |
| 0FM PEN       | FLUX-PEN without flux                                                                                                                  |                  |             |
| 4FMJF8001-PEN | FLUX-PEN with IF 8001 flux, EN 29454/2.2.3 A (F-SW 34/DIN 8511)                                                                        | 7 ml             | 02; 08      |
| 0FMIF8001-001 | IF 8001 flux, EN 29454/2.2.3 A                                                                                                         | 100 ml           | 02; 08      |
| 4FMJF6000-PEN | FLUX-PEN with IF 6000 flux, for lead-free rework, EN 29454/1.1.3 A, solid 7.5 %                                                        | 7 ml             | 02; 07      |
| 0FMIF6000-001 | IF 6000 flux 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           | 02; 07      |
| 0FR400        | FLUX-REMOVER (0FR400), with brush 0FR202 and protective cap 0FR203                                                                     | 400 ml cartridge | 02; 07; 09  |



# Soldering and desoldering tips



GLOBAL. AHEAD. SUSTAINABLE.

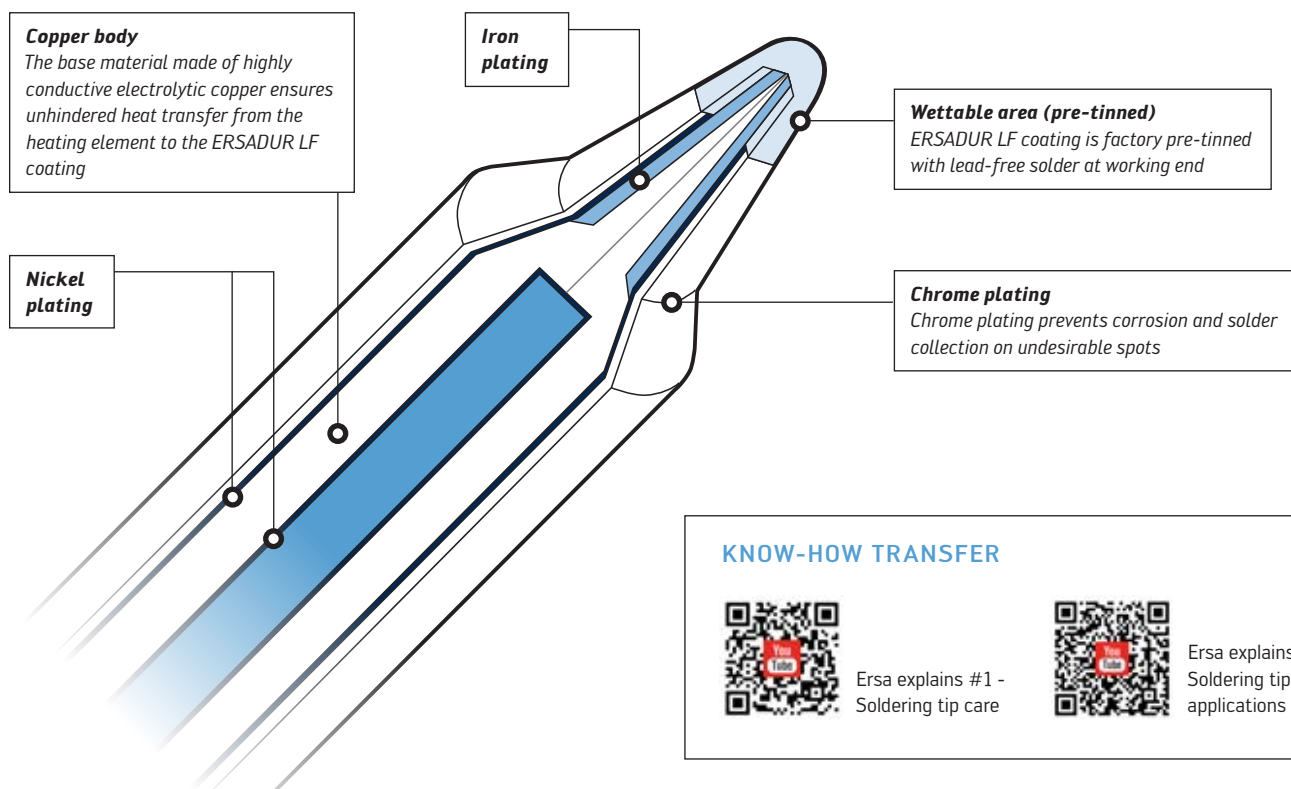


# ERSADUR

## Longlife soldering tips

The soldering tip is the “heart” of the soldering iron. Its job is to transfer the heat from the heating element via the solder to the solder joint. Depending on the soldering iron and the application, different types of tips are available. Prerequisites for good solder joints are a correct tip shape, perfect heat transfer, an excellent condition of the tip and a reliable stability. In addition, the soldering tip also has to convey the necessary amount of sensitivity back to the operator.

ERSADUR longlife tips are designed for continuous operation and for high-quality results. They are galvanically plated with an iron coating and protected against corrosion and oxidation by an additional chrome layer. This manufacturing process was developed and is used exclusively by Erska. The ERSADUR tips’ perfect thermal conductivity protects the heating element from overheating and premature wear. Erska offers a comprehensive range of soldering and desoldering tips for the diverse requirements.



# Professional tip care

## for optimal soldering quality and a long tip life

In the field of hand soldering, a long tip lifetime with continuously good soldering results is essential for the users. Oxidized soldering tips can only slowly melt the solder, which decreases productivity. A soldering tip needs care in order to ensure an optimal process. Dry cleaning of soldering tips offers substantial advantages. The

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 layers that accumulated on the tip can easily be removed. Tip life is thus increased considerably in lead-free hand soldering.

### Dry cleaning with metal wool



340 – 360 °C for lead-free solder



Remove dirty metal wool and empty the solder collecting box

### Cleaning with damp sponge



Sponge (0003B) must be damp



Carefully wipe off tip



Just stick soldering tip into dry cleaner and turn



Add new solder after cleaning



DAMP – NOT WET!



Immediately add new solder

## PRODUCTS FOR TIP CARE



### Brass wool

Brass wool (order no. 0008M/SB\*, 0008M/10\*) is an alternative to the wet sponge and can be beneficial, especially in lead-free soldering.



### VARIO TOOL service tool

Service tool (order no. E074600) for:

- Tip exchange and cleaning of X-TOOL VARIO
- Nozzle change of i-TOOL AIR S



### Cleaning kit for tip series 742H (X-TOOL VARIO)

The cleaning kit includes the fitting drill bits for the tips of the 742H series to remove residues in the suction channel of the tip (order no. E074700).



### Cleaning brush

Brush with brass bristles for gentle tip cleaning (order no. 3ZT00051). It can also be used to clean heating elements.

\*SB = single piece packaging, /10 = 10 pcs. per packing unit

# SERIES 142 ERSADUR LONGLIFE SOLDERING TIPS

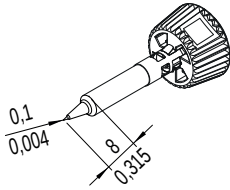
**TIP'N'  
TURN**



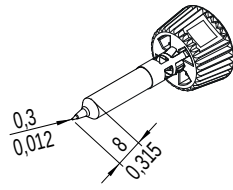
tip identification  
by QR code

■ i-CON TRACE with i-TOOL TRACE soldering iron, all i-CON MK2 stations with i-TOOL MK2, i-TOOL NANO MK2 or i-TOOL PICO MK2 soldering iron

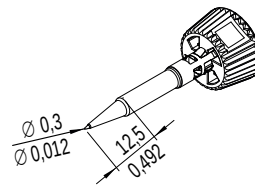
**0142PDLF01/SB**  
pencil point, recessed, 0.1 mm  $\varnothing$



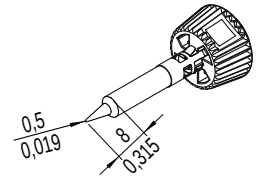
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pencil point, recessed, 0.3 mm  $\varnothing$



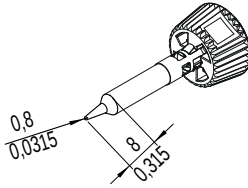
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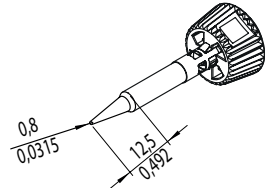
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pencil point, 0.5 mm  $\varnothing$



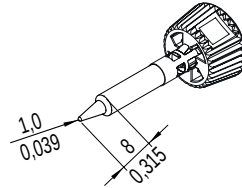
**0142PDLF08/SB**  
pencil point, 0.8 mm  $\varnothing$



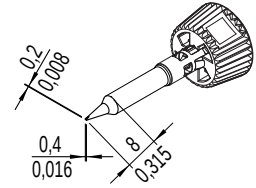
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pencil point, extended, 0.8 mm  $\varnothing$



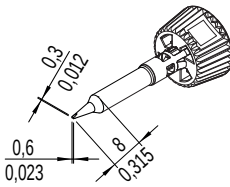
**0142PDLF10/SB**  
pencil point, 1.0 mm  $\varnothing$



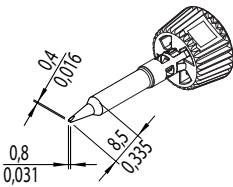
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chisel-shaped, 0.4 mm



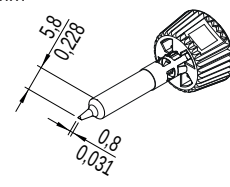
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chisel-shaped, 0.6 mm



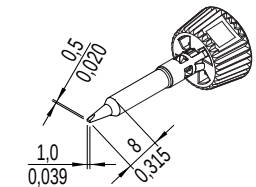
**0142CDLF08/SB**  
chisel-shaped, 0.8 mm



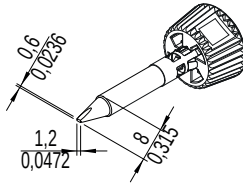
**0142CDLF08A/SB**  
chisel-shaped, asymmetric, 0.8 mm



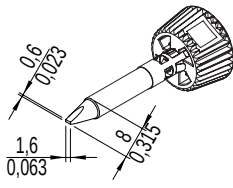
**0142CDLF10/SB**  
chisel-shaped, 1.0 mm



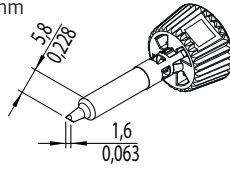
**0142CDLF12/SB**  
chisel-shaped, 1.2 mm



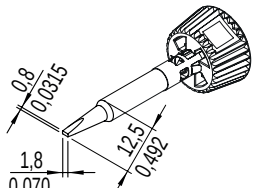
**0142CDLF16/SB**  
chisel-shaped, 1.6 mm



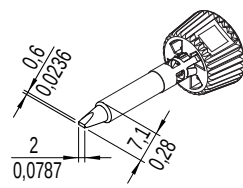
**0142CDLF16A/SB**  
chisel-shaped, asymmetric, 1.6 mm



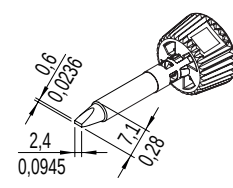
**0142CDLF18L/SB**  
chisel-shaped, extended, 1.8 mm



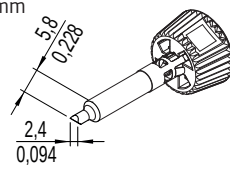
**0142CDLF20/SB**  
chisel-shaped, 2.0 mm



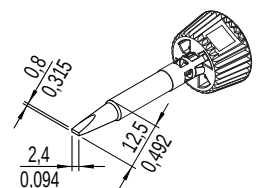
**0142CDLF24/SB**  
chisel-shaped, 2.4 mm



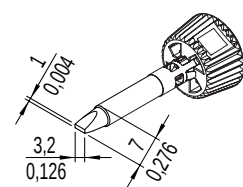
**0142CDLF24A/SB**  
chisel-shaped, asymmetric, 2.4 mm



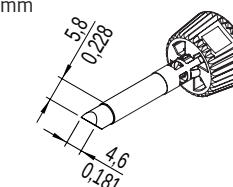
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chisel-shaped, extended, 2.4 mm



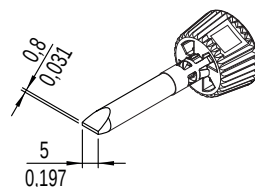
**0142CDLF32/SB**  
chisel-shaped, 3.2 mm



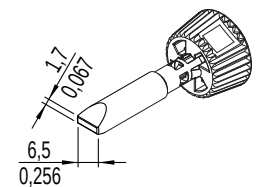
**0142CDLF46A/SB**  
chisel-shaped, asymmetric, 4.6 mm



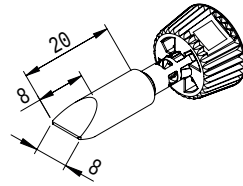
**0142CDLF50/SB**  
chisel-shaped, 5.0 mm



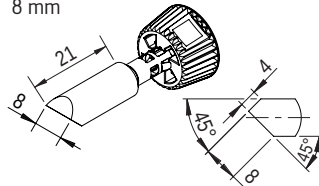
**0142CDLF65/SB**  
chisel-shaped, 6.5 mm



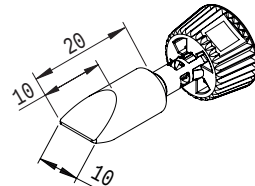
**0142CDLF80/SB**  
chisel-shaped, 8.0 mm



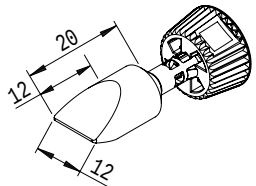
**0142CDLF80A/SB**  
chisel-shaped, asymmetric, 8 mm



**0142CDLF100/SB**  
chisel-shaped, 10.0 mm



**0142CDLF120/SB**  
chisel-shaped, 12.0 mm



Alle Maßangaben ohne Vorverzinnung. Technische Änderungen vorbehalten.

# SERIES 142 ERSADUR LONGLIFE SOLDERING TIPS

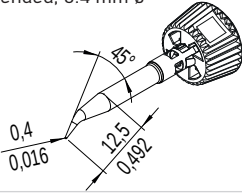
**TIP'N'  
TURN**



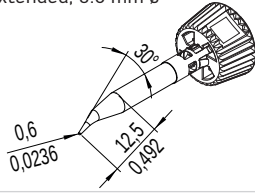
tip identification  
by QR code

■ i-CON TRACE with i-TOOL TRACE soldering iron, all i-CON MK2 stations with i-TOOL MK2, i-TOOL NANO MK2 or i-TOOL PICO MK2 soldering iron

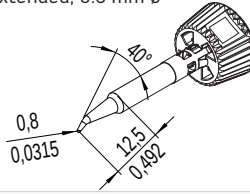
**0142SDLF04L/SB**  
pencil point, bent,  
extended, 0.4 mm Ø



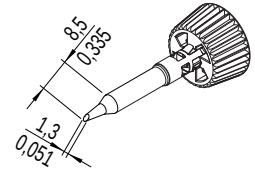
**0142SDLF06L/SB**  
pencil point, bent,  
extended, 0.6 mm Ø



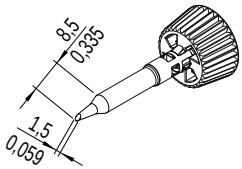
**0142SDLF08L/SB**  
pencil point, bent,  
extended, 0.8 mm Ø



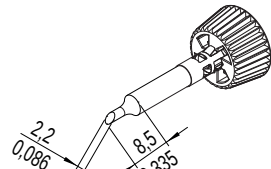
**0142ADLF13/SB**  
angled face, 1.3 mm Ø



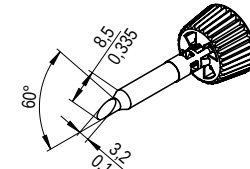
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angled face, 1.5 mm Ø



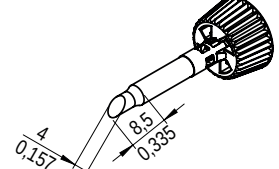
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angled face, 2.2 mm Ø



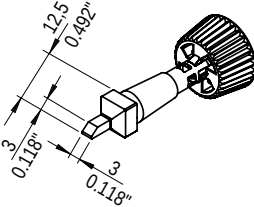
**0142ADLF32/SB**  
angled face, 3.2 mm Ø



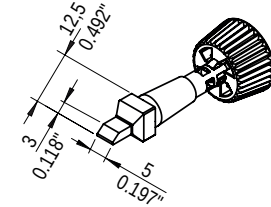
**0142ADLF40/SB**  
angled face, 4.0 mm Ø



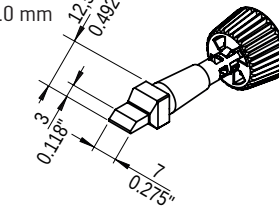
**0142ZDLF30/SB**  
WICK-TIP, 3.0 mm



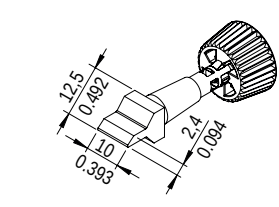
**0142ZDLF50/SB**  
WICK-TIP, 5.0 mm



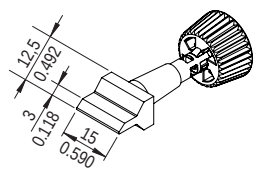
**0142ZDLF70/SB**  
WICK-TIP, 7.0 mm



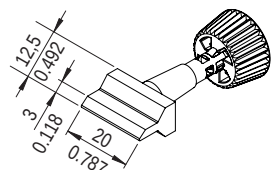
**0142ZDLF100/SB**  
WICK-TIP, 10.0 mm



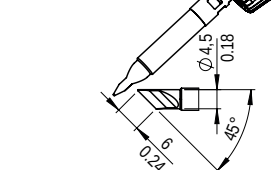
**0142ZDLF150/SB**  
WICK-TIP, 15.0 mm



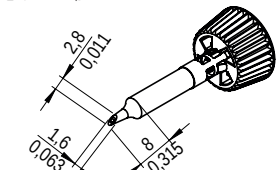
**0142ZDLF200/SB**  
WICK-TIP, 20.0 mm



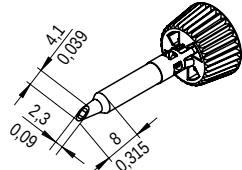
**0142BDLF20/SB**  
PLCC blade



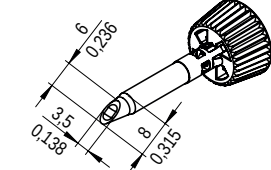
**0142WDLF16/SB**  
PowerWell with concave portion,  
1.6 mm Ø



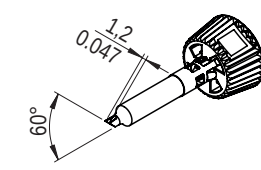
**0142WDLF23/SB**  
PowerWell with concave portion,  
2.3 mm Ø



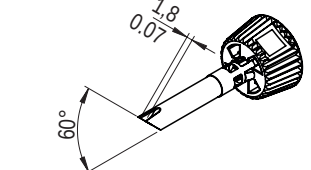
**0142WDLF35/SB**  
PowerWell with concave portion,  
3.5 mm Ø



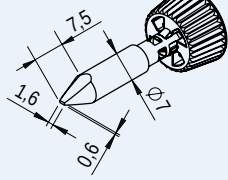
**0142YDLF1224/SB**  
slotted, angled face, ID 1.2 mm,  
AD 2.4 mm



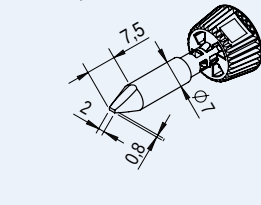
**0142YDLF1852/SB**  
slotted, angled face, ID 1.8 mm,  
AD 5.2 mm



**0142CDLF16P/SB**  
chisel-shaped, performance,  
1.6 mm



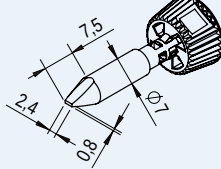
**0142CDLF20P/SB**  
chisel-shaped, 2.0 mm



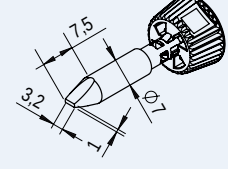
**014100J**  
Heating element for  
i-TOOL PICO MK2, i-TOOL TRACE,  
24 V, 150 W



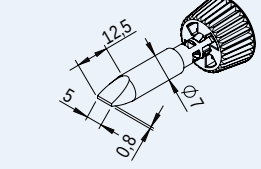
**0142CDLF24P/SB**  
chisel-shaped, performance,  
2.4 mm



**0142CDLF32P/SB**  
chisel-shaped, performance,  
3.2 mm



**0142CDLF50P/SB**  
chisel-shaped, performance, 5.0  
mm



**016100J**  
Heating element for  
TOOL NANO MK2, i-TOOL MK2,  
24 V, 150 W

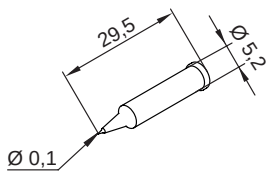


Alle Maßangaben ohne Vorverzinnung. Technische Änderungen vorbehalten.

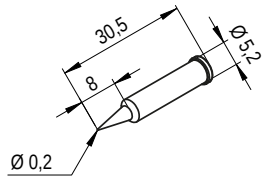
# SERIES 102 ERSADUR LONGLIFE SOLDERING TIPS

■ All i-CON stations with i-TOOL, i-TOOL NANO or i-TOOL PICO soldering iron

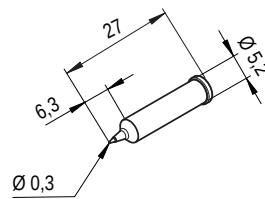
**0102PDLF01/SB**  
pencil point, recessed, 0.1 mm  $\varnothing$



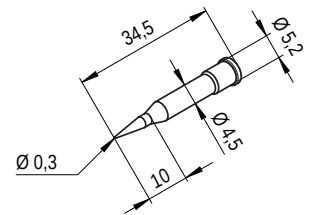
**0102PDLF02/SB**  
pencil point, 0.2 mm  $\varnothing$



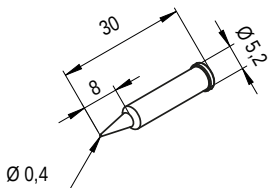
**0102PDLF03/SB**  
pencil point, recessed, 0.3 mm  $\varnothing$



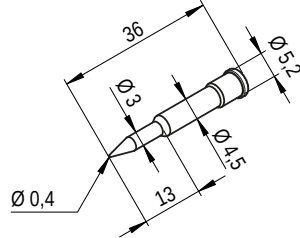
**0102PDLF03L/SB**  
pencil point, extended, 0.3 mm  $\varnothing$



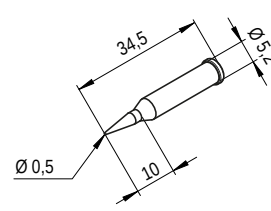
**0102PDLF04/SB**  
pencil point, 0.4 mm  $\varnothing$



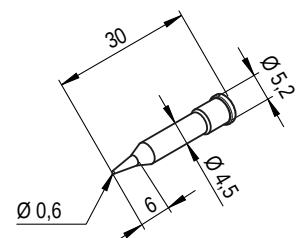
**0102PDLF04L/SB**  
pencil point, extended, 0.4 mm  $\varnothing$



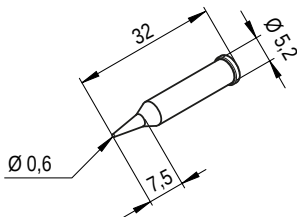
**0102PDLF05L/SB**  
pencil point, extended, 0.5 mm  $\varnothing$



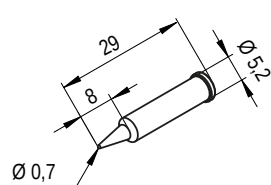
**0102PDLF06/SB**  
pencil point, extended, 0.6 mm  $\varnothing$



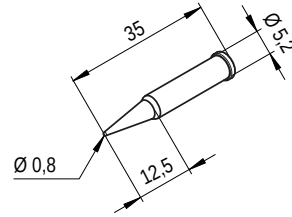
**0102PDLF06L/SB**  
pencil point, extended, 0.6 mm  $\varnothing$



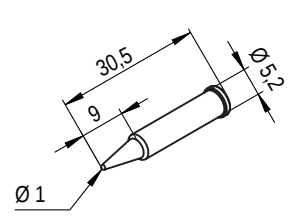
**0102PDLF07/SB**  
pencil point, 0.7 mm  $\varnothing$



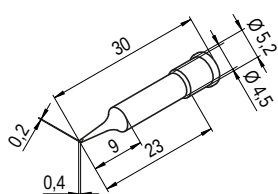
**0102PDLF08L/SB**  
pencil point, extended, 0.8 mm  $\varnothing$



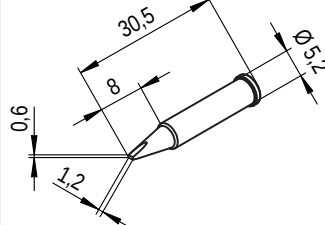
**0102PDLF10/SB**  
pencil point, 1.0 mm  $\varnothing$



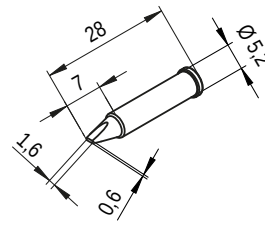
**0102CDLF04/SB**  
chisel-shaped, 0.4 mm



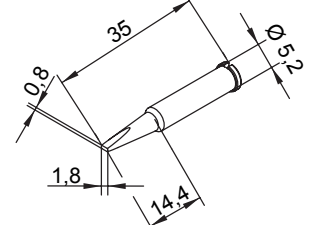
**0102CDLF12/SB**  
chisel-shaped, 1.2 mm



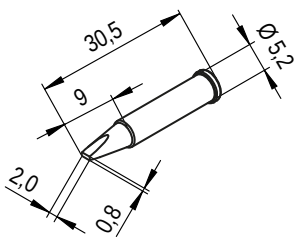
**0102CDLF16/SB**  
chisel-shaped, 1.6 mm



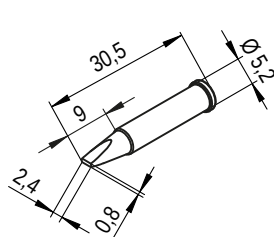
**0102CDLF18L/SB**  
chisel-shaped, extended, 1.8 mm



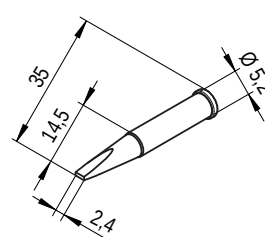
**0102CDLF20/SB**  
chisel-shaped, 2.0 mm



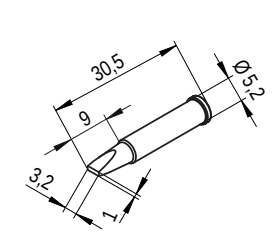
**0102CDLF24/SB**  
chisel-shaped, 2.4 mm



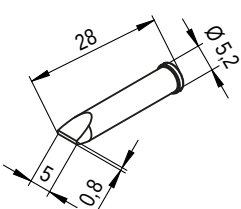
**0102CDLF24L/SB**  
chisel-shaped, 2.4 mm



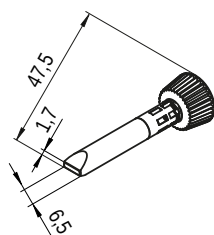
**0102CDLF32/SB**  
chisel-shaped, 3.2 mm



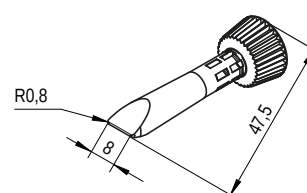
**0102CDLF50/SB**  
chisel-shaped, 5.0 mm



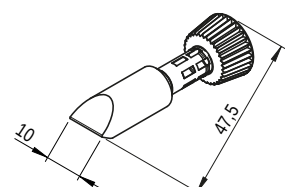
**0102CDLF65/SB**  
chisel-shaped, 6.5 mm



**0102CDLF080C/SB**  
chisel-shaped, conical, 8.0 mm



**0102CDLF100/SB**  
chisel-shaped, 10.0 mm



Dimensions without pre-tinning. Subject to technical changes.

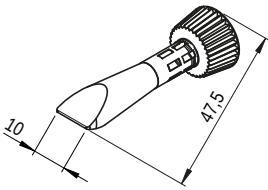
# SERIES 102 ERSADUR LONGLIFE SOLDERING TIPS

■ All i-CON stations with i-TOOL, i-TOOL NANO or i-TOOL PICO soldering iron

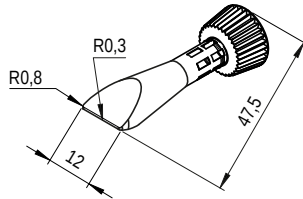


**010102J** - Heating element  
for i-TOOL NANO, i-TOOL,  
24 V, 150 W

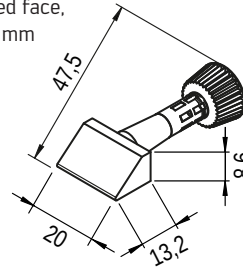
**0102CDLF100C/SB**  
chisel-shaped, conical, 10.0 mm



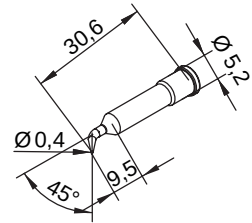
**0102CDLF120C/SB**  
chisel-shaped, conical, 12.0 mm



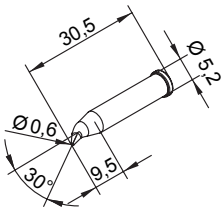
**0102CDLF200/SB**  
angled face, 20.0 mm



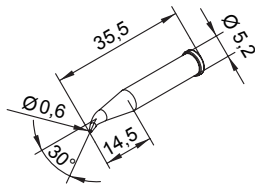
**0102SDF04/SB**  
pencil point, bent, 0.4 mm  $\phi$



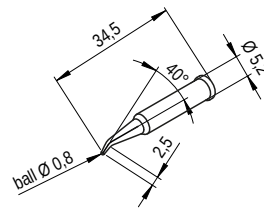
**0102SDF06/SB**  
pencil point, bent, 0.6 mm  $\phi$



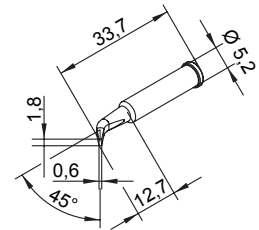
**0102SDF06L/SB**  
pencil point, bent,  
extended, 0.6 mm  $\phi$



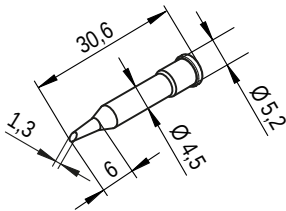
**0102SDF08L/SB**  
pencil point, bent,  
extended, 0.8 mm  $\phi$



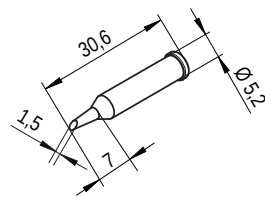
**0102SDF18/SB**  
chisel-shaped, bent, 1.8 mm  $\phi$



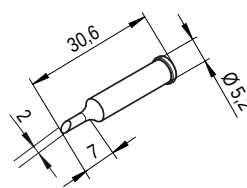
**0102ADLF13/SB**  
angled face, 1.3 mm  $\phi$



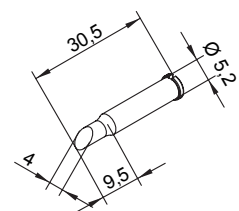
**0102ADLF15/SB**  
angled face, 1.5 mm  $\phi$



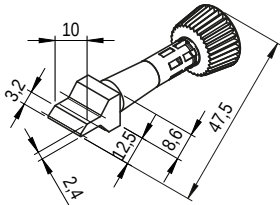
**0102ADLF20/SB**  
angled face, 2.0 mm  $\phi$



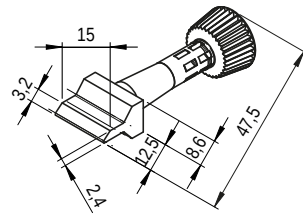
**0102ADLF40/SB**  
angled face, 4.0 mm  $\phi$



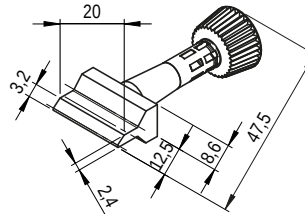
**0102ZDLF100/SB**  
WICK-TIP, 10.0 mm



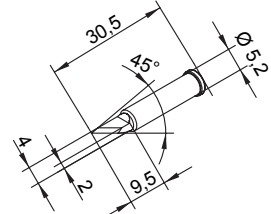
**0102ZDLF150/SB**  
WICK-TIP, 15.0 mm



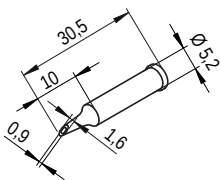
**0102ZDLF200/SB**  
WICK-TIP, 20.0 mm



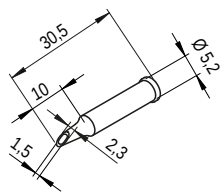
**0102BDLF20/SB**  
PLCC blade



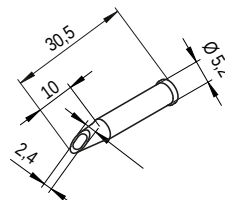
**0102WDLF16/SB**  
PowerWell with concave portion,  
1.6 mm  $\phi$



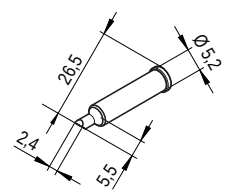
**0102WDLF23/SB**  
PowerWell with concave portion,  
2.3 mm  $\phi$



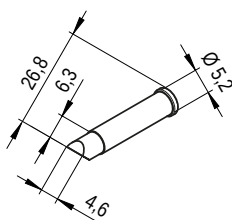
**0102WDLF35/SB**  
PowerWell with concave portion,  
3.5 mm  $\phi$



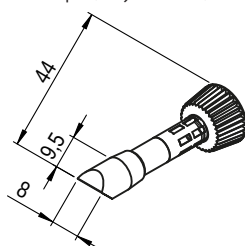
**0102CDLF24A/SB**  
chisel-shaped, asymmetric, 2.4 mm



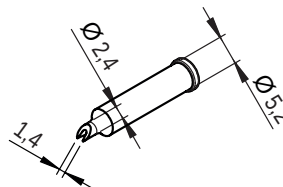
**0102CDLF46A/SB**  
chisel-shaped, asymmetric, 4.6 mm



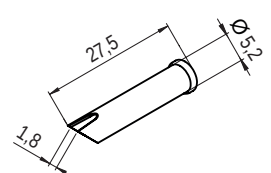
**0102CDLF80A/SB**  
chisel-shaped, asymmetric, 8.0 mm



**0102YDLF1224/SB**  
slotted, angled face, ID 1.2 mm,  
OD 2.4 mm



**0102YDLF1852**  
slotted, angled face, ID 1.8 mm,  
OD 5.2 mm



Dimensions without pre-tinning. Subject to technical changes.

# SERIES 832, 842 & 852 ERSADUR LONGLIFE SOLDERING TIPS

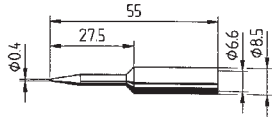
■ ANALOG 60/60 A  
■ ANALOG 80/80 A  
■ DIGITAL 80 A

■ DIGITAL 2000 A with  
POWER TOOL  
■ ELS 8000/M/D  
■ Ersa 15+ / 25+ / 35+

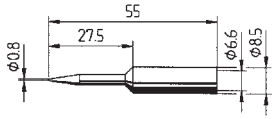
■ MICRO-CON 60 iA with  
POWER TOOL  
■ MS 6000 / MS 8000/D  
■ MULTI-PRO/MULTI-SPRINT

■ MULTI-TC/PTC 70  
■ RDS 80  
■ TWIN 80 A with ERGO TOOL

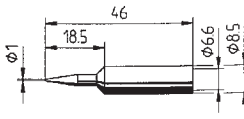
**0832UD/SB, 0832UDLF/SB**  
pencil point, extended, 0.4 mm  $\emptyset$



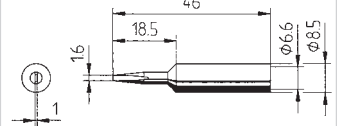
**0832SD/SB, 0832SDF/SB**  
pencil point, extended, 0.8 mm  $\emptyset$



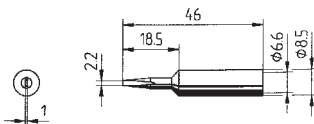
**0832BD/SB, 0832BDF/SB**  
pencil point, 1.0 mm  $\emptyset$



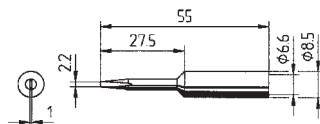
**0832YD/SB, 0832YDF/SB**  
chisel-shaped, 1.6 mm



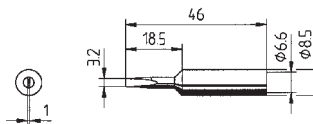
**0832CD/SB, 0832CDF/SB**  
chisel-shaped, 2.2 mm



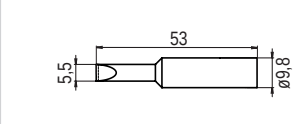
**0832KD/SB, 0832KDF/SB**  
chisel-shaped, extended, 2.2 mm,



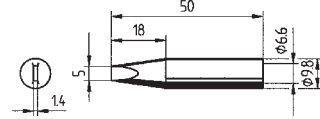
**0832ED/SB, 0832EDF/SB**  
chisel-shaped, 3.2 mm



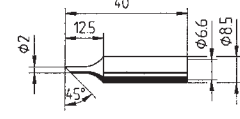
**0832EDLF55/SB**  
chisel-shaped, 5.5 mm



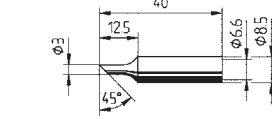
**0832VD/SB, 0832VDF/SB**  
chisel-shaped, 5.0 mm



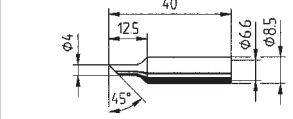
**0832FDLF/SB**  
angled face, 2.0 mm



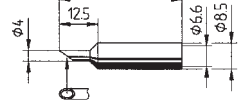
**0832TDLF/SB**  
angled face, 3.0 mm  $\emptyset$



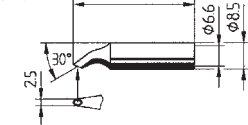
**0832NDLF/SB**  
angled face, 4.0 mm  $\emptyset$



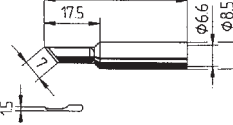
**0832PW/SB**  
PowerWell with concave portion



**0832HD/SB**  
SolderWell with concave portion  
bent



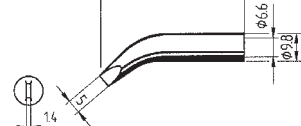
**0832AD/SB**  
PLCC blade, 1.5 mm



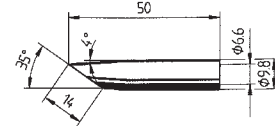
**0832WD/SB**  
chisel-shaped, bent, 2.5 mm



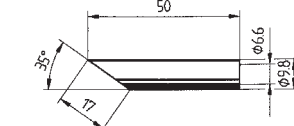
**0832RD/SB**  
chisel-shaped, bent, 5.0 mm



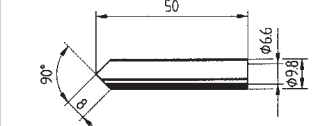
**0832GDLF/SB**  
angled face, 14 mm, 35°



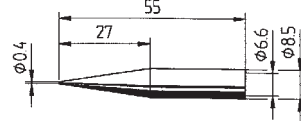
**0832LDF/SB**  
angled face, 17 mm, 35°



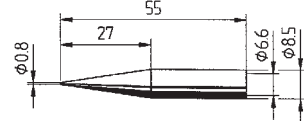
**0832MDLF/SB**  
angled face both sides, 8 mm



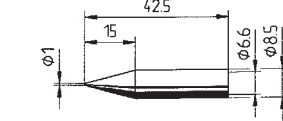
**0842UD/SB, 0842UDLF/SB**  
pencil point, extended, 0.4 mm  $\emptyset$



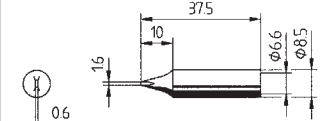
**0842SD/SB, 0842SDF/SB**  
pencil point, extended, 0.8 mm  $\emptyset$



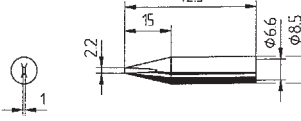
**0842BD/SB, 0842BDF/SB**  
pencil point, 1.0 mm  $\emptyset$



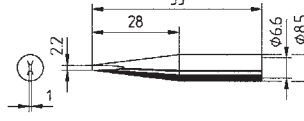
**0842YD/SB, 0842YDF/SB**  
chisel-shaped, 1.6 mm



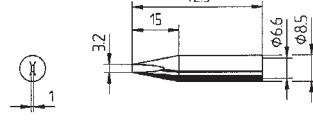
**0842CD/SB, 0842CDF/SB**  
chisel-shaped, 2.2 mm



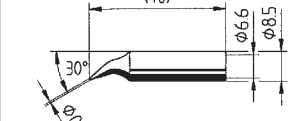
**0842KD/SB, 0842KDF/SB**  
chisel-shaped, extended, 2.2 mm



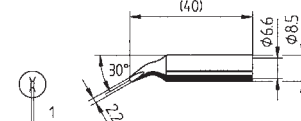
**0842ED/SB, 0842EDF/SB**  
chisel-shaped, 3.2 mm



**0842ID/SB**  
pencil point, bent, 0.4 mm  $\emptyset$



**0842JD/SB**  
chisel-shaped, bent, 2.2 mm



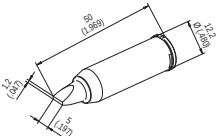
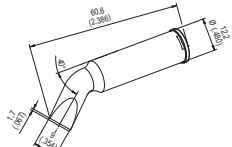
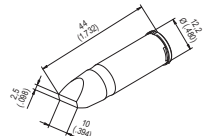
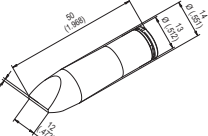
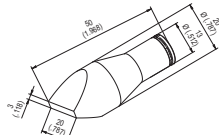
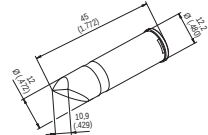
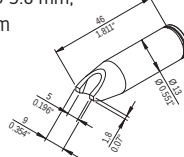
**084100J**  
Heating element for POWER TOOL,  
24 V, 80 W



Dimensions without pre-tinning. Subject to technical changes.

## SERIES 242 ERSADUR LONGLIFE SOLDERING TIPS

■ i-CON VARIO 2 and 4 with i-TOOL HP soldering iron

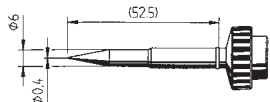
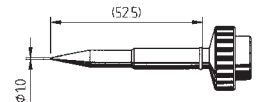
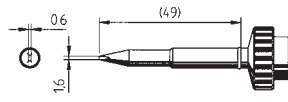
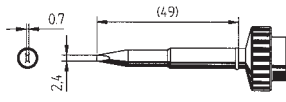
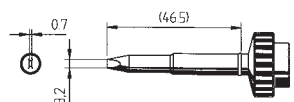
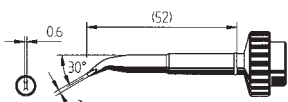
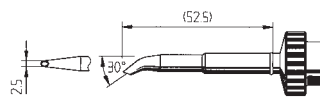
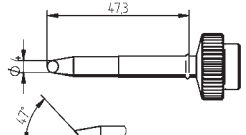
|                                                                                                                                                   |                                                                                                                                                   |                                                                                                                                             |                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0242CDLF50/SB</b><br>chisel-shaped, 5.0 mm<br>                | <b>0242SDLF90/SB</b><br>chisel-shaped, bent 40°, 9.0 mm<br>      | <b>0242CDLF100/SB</b><br>chisel-shaped, 10.0 mm<br>       | <b>0242CDLF120/SB</b><br>chisel-shaped, 12.0 mm<br>   |
| <b>0242CDLF200/SB</b><br>chisel-shaped, 20.0 mm<br>              | <b>0242CDLF109A/SB</b><br>chisel-shaped, asymmetric, 10.9 mm<br> | <b>0242YDLF90/SB</b><br>slotted, ID 5.0 mm, OD 9.0 mm<br> | <b>Tip fastener 3IT2440/SB</b><br>for 242... tips<br> |
| <b>024100J</b><br>Heating element for i-TOOL HP, 24 V, 250 W<br> |                                                                                                                                                   |                                                                                                                                             |                                                                                                                                          |

Dimensions without pre-tinning. Subject to technical changes.

## SERIES 612 ERSADUR LONGLIFE SOLDERING TIPS

■ CPS 60.10  
■ DIGITAL 60 A

■ DIGITAL 2000 A with TECH TOOL  
■ MICRO-CON 60 iA with TECH TOOL

|                                                                                                                                      |                                                                                                                                            |                                                                                                                                                                    |                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>0612SDLF/SB</b><br>pencil point, 0.4 mm ø<br>  | <b>0612BDLF/SB</b><br>pencil point, 1.0 mm ø<br>        | <b>0612ADLF/SB</b><br>chisel-shaped, 1.6 mm<br>                                | <b>0612KDLF/SB</b><br>chisel-shaped, 2.4 mm<br>    |
| <b>0612EDLF/SB</b><br>chisel-shaped, 3.2 mm ø<br> | <b>0612JD/SB</b><br>chisel-shaped, bent 30°, 1.6 mm<br> | <b>0612HD/SB</b><br>Ersa SolderWell with concave portion, 30° bent, 2.5 mm<br> | <b>0612WDLF/SB</b><br>angled face, 45°, 4.0 mm<br> |

Dimensions without pre-tinning. Subject to technical changes.

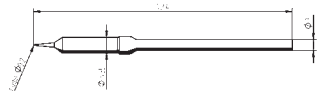
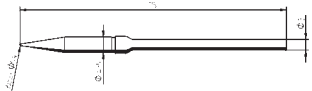
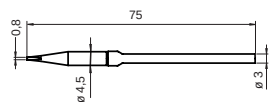
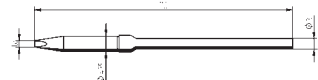
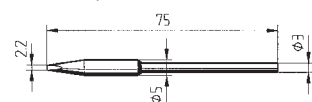
## SERIES 212 ERSADUR LONGLIFE SOLDERING TIPS

■ ANALOG 20 A  
■ DIGITAL 2000 A with MICRO TOOL

■ MICRO-CON 60 iA with MICRO TOOL  
■ REWORK 80

■ SMD 8000  
■ SMT UNIT 60 A/AS

■ TWIN 40 A/AS  
■ TWIN 80 A with MICRO TOOL

|                                                                                                                                     |                                                                                                                                                |                                                                                                                                                  |                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0212SDLF/SB</b><br>pencil point, 0.2 mm ø<br> | <b>0212BDLF/SB</b><br>pencil point, 0.4 mm ø<br>            | <b>0212CDLF/SB</b><br>chisel-shaped, 0.8 mm<br>              | <b>0212CDLF08L/SB</b><br>chisel-shaped, 0.8 mm, extended<br> |
| <b>0212EDLF/SB</b><br>chisel-shaped, 1.8 mm<br>  | <b>0212FDLF/SB</b><br>chisel-shaped, reinforced, 2.2 mm<br> | <b>021100J</b><br>Heating element for CTA 20, 24 V, 20 W<br> |                                                                                                                                                   |

Dimensions without pre-tinning. Subject to technical changes.

## SERIES 462 DESOLDERING TIPS

■ All i-CON stations with CHIP TOOL VARIO desoldering pincette

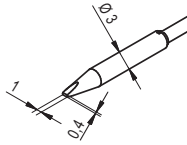
**0462PDLF005/SB**

pencil point, 0.5 mm  $\varnothing$



**0462CDLF010/SB**

chisel-shaped, 1.0 mm



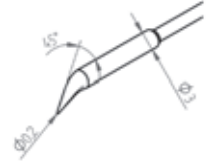
**0462CDLF018/SB**

chisel-shaped, 1.8 mm



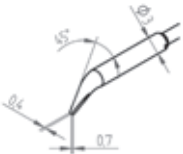
**0462SDLF002/SB**

pencil point, bent, 0.2 mm  $\varnothing$



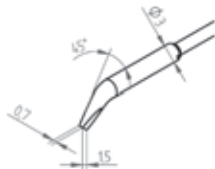
**0462MDLF007/SB**

chisel-shaped, bent, 0.7 mm



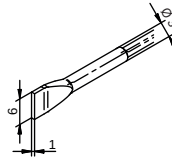
**0462MDLF015/SB**

chisel-shaped, bent, 1.5 mm



**0462FDLF060/SB**

desoldering tips, 6 mm



Delivery in pairs. Dimensions without pre-tinning. Subject to technical changes.

## SERIES 722 ERSADUR DESOLDERING TIPS

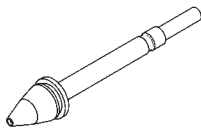
■ DIGITAL 2000 A with X-TOOL

■ X-TOOL KIT 1

■ All i-CON stations with X-TOOL

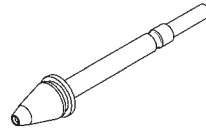
**0722ED0821/SB**

ID 0.8 mm, OD 2.1 mm



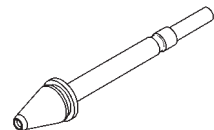
**0722ED1226/SB**

ID 1.2 mm, OD 2.6 mm



**0722ED1529/SB**

ID 1.5 mm, OD 2.9 mm



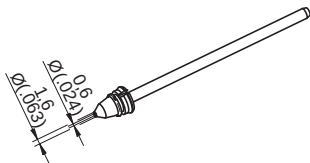
Dimensions without pre-tinning. Subject to technical changes.

## SERIES 742H DESOLDERING TIPS, ERSADUR, HIGHLY TIN-PLATED

■ Alle i-CON Lötstationen mit Entlötgerät X-TOOL VARIO

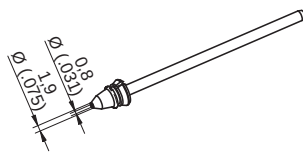
**0742ED0616H/SB**

ID 0.6 mm, OD 1.6 mm



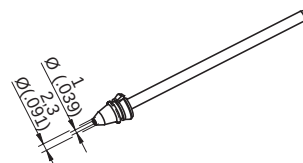
**0742ED0819H/SB**

ID 0.8 mm, OD 1.9 mm



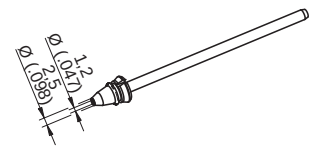
**0742ED1023H/SB**

ID 1.0 mm, OD 2.3 mm



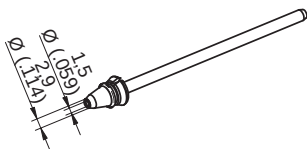
**0742ED1225H/SB**

ID 1.2 mm, OD 2.5 mm



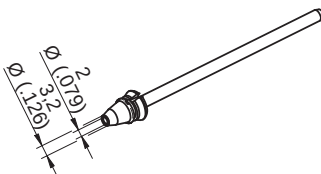
**0742ED1529H/SB**

ID 1.5 mm, OD 2.9 mm



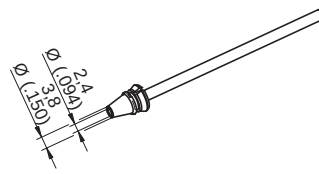
**0742ED2032H/SB**

ID 2.0 mm, OD 3.2 mm



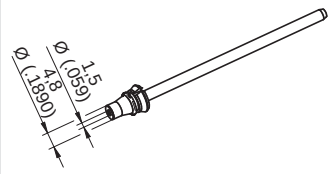
**0742ED2438H/SB**

ID 2.4 mm, OD 3.8 mm



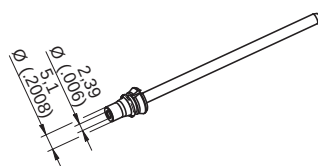
**0742ED1548H/SB**

ID 1.5 mm, OD 4.8 mm



**0742ED2351H/SB**

ID 2.3 mm, OD 5.1 mm



**E074700**  
Cleaning kit  
for tip  
series 742H



**E074600**  
Service tool for tip change and  
cleaning (X-TOOL VARIO)



Dimensions without pre-tinning. Subject to technical changes.

# SERIES 422/452 ERSADUR DESOLDERING TIPS

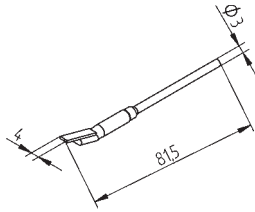
■ DIGITAL 2000 A with CHIP TOOL  
■ MICRO-CON 60 iA with  
SMD DESOLDERING PINCETTE 40

■ SMT UNIT 60 AC/A with CHIP TOOL/  
SMD DESOLDERING PINCETTE 40

■ All i-CON stations with CHIP TOOL  
■ REWORK 80 / SMD 8000

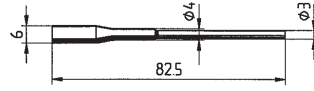
## 0452FDLF040/SB

4 mm, for e.g. SO 8 GT/14 GT/16 GT



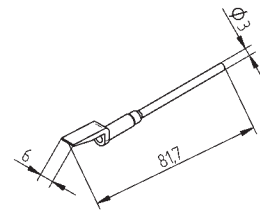
## 0422ED/SB

6 mm, for e.g. SOIC 8



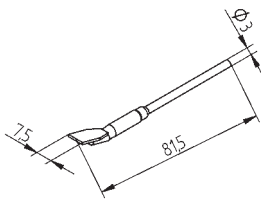
## 0452EDLF060/SB

6 mm, for e.g. SOIC 8



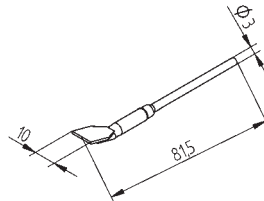
## 0452FDLF075/SB

7.5 mm, for e.g. SOIC 2 / SOT 23



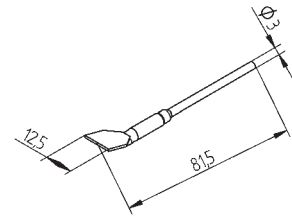
## 0452FDLF100/SB

10 mm, for e.g. SOIC 16



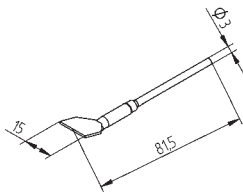
## 0452FDLF125/SB

12.5 mm, for e.g. SOIC 20



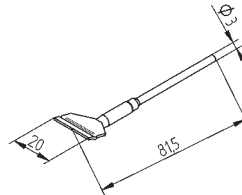
## 0452FDLF150/SB

15 mm, for e.g. SOIC 24



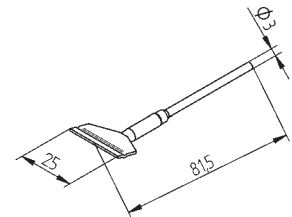
## 0452FDLF200/SB

20 mm, for e.g. SOIC 32



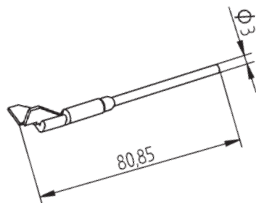
## 0452FDLF250/SB

25 mm, for e.g. SOIC 40



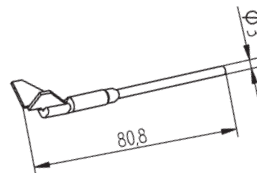
## 0452QDLF100/SB

90° angle, length 10 mm, for e.g. PLCC 20



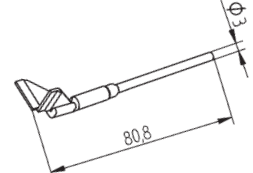
## 0452QDLF125/SB

90° angle, length 12.5 mm, for e.g. PLCC 28



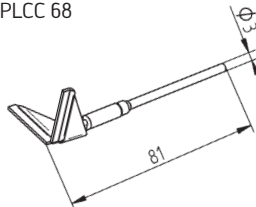
## 0452QDLF150/SB

90° angle, length 15 mm, for e.g. QFP, TQFP and TTQFP 80T25



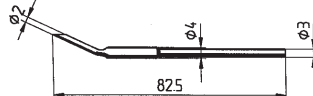
## 0452QDLF250/SB

90° angle, length 25 mm, for e.g. PLCC 68



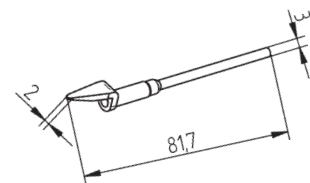
## 0422MD/SB

ellipse, for MELF and MINI-MELF



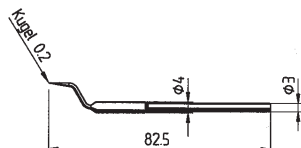
## 0452MDLF020/SB

ellipse, for MELF and MINI-MELF



## 0422SD/SB

for MICRO-MELF  
Use only with tip turn protection set E045600.



## E045600

Tip turn protection set for desoldering tip pairs of series 422 and 452



## \*Please note:

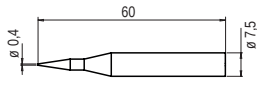
Tips 0422SD/SB must be used in combination with the tip turn protection set E045600 to ensure good results.

It is recommended to use the tip turn protection set E045600 together with further tips of the series 422 and 452.

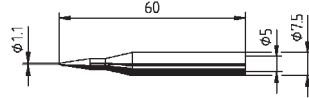
## SERIES 172 ERSADUR LONGLIFE SOLDERING TIPS

■ MULTI-TIP C25

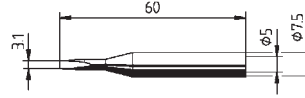
**0172BD/SB**  
ERSADUR, pencil point, 0.4 mm  $\emptyset$



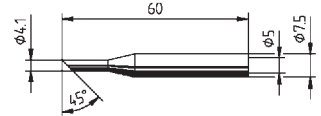
**0172BD/SB**  
ERSADUR, pencil point, 1.1 mm  $\emptyset$



**0172KD/SB**  
ERSADUR, chisel-shaped, 3.1 mm



**0172LD/SB**  
ERSADUR, angled face 45°, 4.1 mm



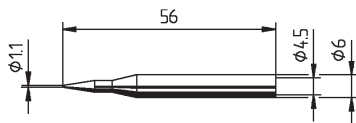
Dimensions without pre-tinning. Subject to technical changes.

## SERIES 162 ERSADUR LONGLIFE SOLDERING TIPS

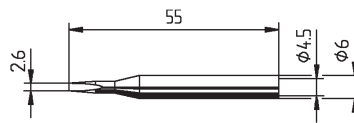
■ MULTI-TIP C15

■ TIP 260

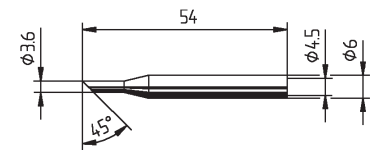
**0162BD/SB**  
ERSADUR, pencil point, 1.1 mm  $\emptyset$



**0162KD/SB**  
ERSADUR, chisel-shaped, 2.6 mm



**0162LD/SB**  
ERSADUR, angled face, 45°, 3.6 mm

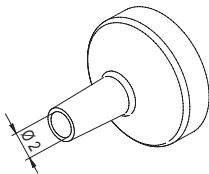


Dimensions without pre-tinning. Subject to technical changes.

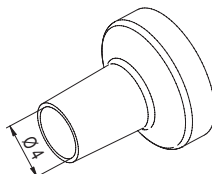
## SERIES 472 HOT-AIR NOZZLES

■ i-CON VARIO 2 and 4 with i-TOOL AIR S hot-air iron

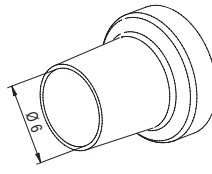
**0472AR/SB\***



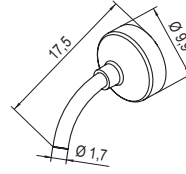
**0472BR/SB\***



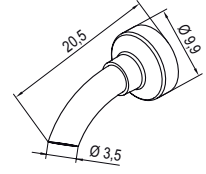
**0472CR/SB\***



**0472DR/SB\***



**0472ER/SB\***



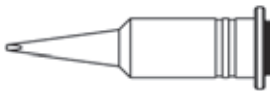
\*Cap sleeve 3YE1058-01 necessary to fasten nozzles with i-TOOL AIR S

## SERIES G 072 & G 132 SOLDERING TIPS

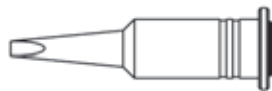
■ INDEPENDENT 75 gas soldering iron (series G 072)

■ INDEPENDENT 130 gas soldering iron (series G 132)

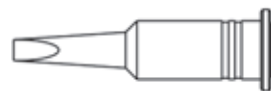
**0G072CN/SB**  
**0G132CN/SB**  
chisel-shaped, 1.0 mm



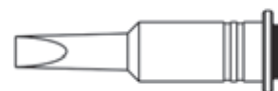
**0G072KN/SB**  
**0G132KN/SB**  
chisel-shaped, 2.4 mm



**0G072AN/SB**  
**0G132AN/SB**  
chisel-shaped, 3.2 mm



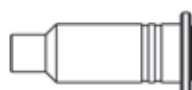
**0G072VN/SB**  
**0G132VN/SB**  
chisel-shaped, 4.8 mm



**0G072BE/SB**  
**0G132BE/SB**  
flame nozzle



**0G072HE/SB**  
**0G132HE/SB**  
hot gas nozzle



**0G072RE/SB**  
**0G132RE/SB**  
deflector for hot gas nozzle to  
shrink heat shrinkable sleeves



**0G072MN/SB**  
**0G132MN/SB**  
hot blade



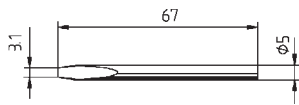
Dimensions without pre-tinning. Subject to technical changes.

## SERIES 032 ERSADUR LONGLIFE SOLDERING TIPS

■ MULTI-TIP C25

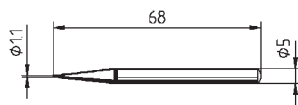
**0032KD**

chisel-shaped, 3.1 mm



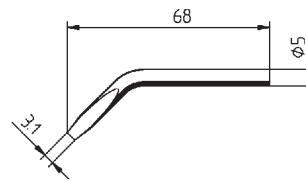
**0032BD**

pencil point, 1.1 mm  $\phi$



**0032JD**

chisel-shaped, bent, 3.1 mm



**E033100**

Heating element for Ersä 30 S,  
230 V, 30 W



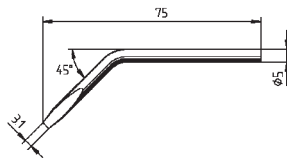
Dimensions without pre-tinning. Subject to technical changes.

## 052, ERSADUR LONGLIFE SOLDERING TIP

■ Ersä 50 S

**0052JD/SB**

chisel-shaped, bent, 3.1 mm



**E005100**

Heating element for Ersä 50 S,  
230 V, 50 W



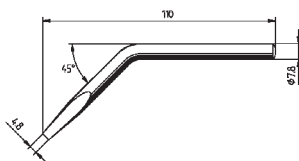
Dimensions without pre-tinning. Subject to technical changes.

## SERIES 082 ERSADUR LONGLIFE SOLDERING TIPS

■ Ersä 80 S

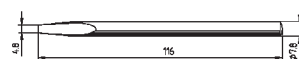
**0082JD/SB**

chisel-shaped, bent, 4.8 mm



**0082KD/SB**

chisel-shaped, 4.8 mm



**E008100**

Heating element for Ersä 80 S,  
230 V, 80 W



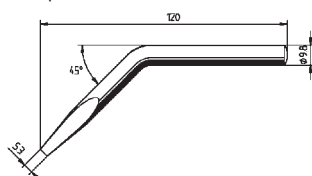
Dimensions without pre-tinning. Subject to technical changes.

## SERIES 152 ERSADUR LONGLIFE SOLDERING TIPS

■ Ersä 50 S

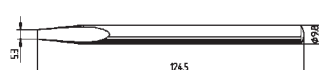
**0152JD**

chisel-shaped 5.3 mm, bent



**0152KD**

chisel-shaped, 5.3 mm



**E015100**

Heating element for Ersä 150 S,  
230 V, 150 W



Dimensions without pre-tinning. Subject to technical changes.



# PERSONNEL QUALIFICATION AND SERVICES

For over 100 years, Kurtz Ersa has been the first address for all soldering needs. Kurtz Ersa equipment is designed for top performance – but for top soldering results the user also needs the latest tech knowledge. We provide you with the appropriate know-how to make your electronics production even better. Whatever your needs, our training program covers all aspects of professional soldering – from solder paste printing, reflow, selective and wave soldering to rework and hand soldering.

You can join any time! Our wide range of digital and on-site trainings certainly offers the fitting qualification measure for your needs.

## Some examples:

- Process trainings and practical training courses
- Customer-specific technology days
- Operation and maintenance trainings
- WEBinERSA webinars
- Live demonstrations and test soldering

Further information



## Your benefit

- Quality increase in the production of electronic assemblies
- Increased process safety due to higher qualification of employees and more reliable hand and machine soldering processes
- Competitive advantages due to certified personnel
- Personal, modular certificate
- High training success due to small groups of participants
- Flexible due to modular training concept
- Up-to-date, standardized training materials
- Provides security for audits and verification requirements

# WEBinERSA WEBINAR PROGRAM

Our goal is to give all interested parties access to the desired soldering know-how – or in short: With the WEBinERSA we want to make your production even stronger!

Our webinars, each lasting 60 to 90 minutes, provide information on current topics in soldering technology and offer a wide variety: Whether stencil printing, high-end soldering machines, rework and inspection systems or intelligent solutions in classical hand soldering – there is something for everyone.

In the field of rework and hand soldering for example, we'll be covering the basics as well as specific topics such as soldering of PTHs and SMDs on high thermal mass assemblies or big board rework.

Our current WEBinERSA program is available online at [www.webinar.ersa.com](http://www.webinar.ersa.com).

WEBinERSA webinars



## Your benefit

- Worldwide and location-independent access to technology know-how
- Qualification of employees through digital system and process training
- Increased flexibility due to online trainings
- Exchange with experts on current topics in electronics production

## THAT'S HOW IT WORKS

- Register via our homepage
- Receive confirmation and a link to access your WEBinERSA
- Dial in 5 minutes before the WEBinERSA starts
- Listen to the presentation and get directly in touch with the experts
- Note: The software does not have to be available in the company, it is a web link



# HYBRID REWORK SYSTEMS

For professional repair of electronic assemblies



HR 600P

## HR 600 P – automated rework precision

The HR 600 P hybrid rework system focuses on precision and automation, as it is particularly suitable for SMD components with very fine grids and reliably processes small SMT components and BGAs up to a size of 60 x 60 mm. The automatic soldering and placement processes are supplemented by automatic, non-contact

residual solder removal and non-contact temperature monitoring.

The HR 600 P is available in different versions, e.g. with a large PCB holder for larger assemblies or with a lowered heating cassette for additional space for tall structures.



HR 600/2

## HR 600/2 – universal & automated rework

With the HR 600/2 hybrid rework system, almost all high-pin-count component types on modern assemblies can be processed reliably and automatically. Lifting, placing, and defined setting down of components, as well as the soldering process, are core competencies of this universal rework system.



HR 500

## Further members of the Rework family

Further Kurtz Ersä rework systems impress with technologically interesting solutions in heating and placement technology and expand the range of options for users. The HR 500 offers full Kurtz Ersä hybrid rework technology for budget-oriented users. The little brother of the HR 550 allows flexible



HR 550

repairs of standard assemblies of up to 380 x 300 mm and 50 x 50 mm component size. For a very wide range of applications and sufficient performance reserves, there is the best-selling HR 550: semi-automatic rework processes in no time at all for assemblies sizing up to 520 x 360 mm and components of 70 x 70 mm in! The portfolio of semi-automatic devices is rounded off with the HR 550 XL – a real powerhouse for



HR 550 XL

large assemblies measuring up to approx. 530 x 610 mm with IR bottom heating in eight zones, motorized x/y fine adjustment, and component rotation. It is suitable for industrial and power electronics as well as large-format circuit boards and is particularly attractive for service providers.

Further information





### HR 600 XL – Automated Rework in X(X)L

The HR 600 XL is designed for the professional rework of BTC (bottom-terminated components) using selective re-flow soldering processes on large-format printed circuit boards. With an active heating

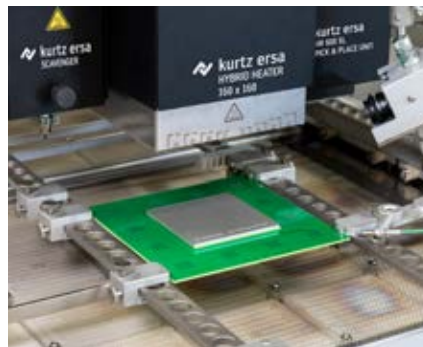
surface of 625 × 625 mm (24 × 24 inches) and a maximum PCB thickness of 10 mm, it is ideal for tele-communications, network technology, IT, and AI infrastructure.

#### Highlights

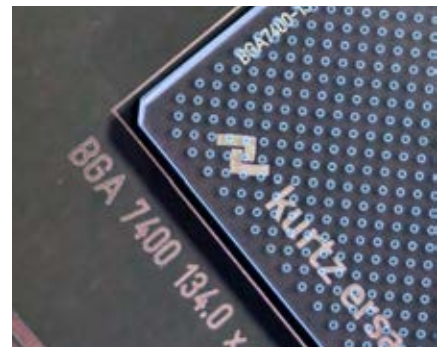
- High-performance hybrid heating heads from 60 x 60 mm to 160 x 160 mm, 800 to 4,800 W
- IR Matrix™ bottom heater (25 elements), 15 kW, expandable
- Process monitoring with up to 8 thermocouples
- Precise component alignment via image processing
- Motorized axis system for component placement ( $\pm 0.025$  mm)
- Residual solder removal via integrated AUTO SCAVENGER
- User-independent, reproducible rework results guaranteed
- Process control and documentation via HR Soft 2
- Fully or semi-automatic operation
- Optional Dip&Print Station

### Processing of giant components

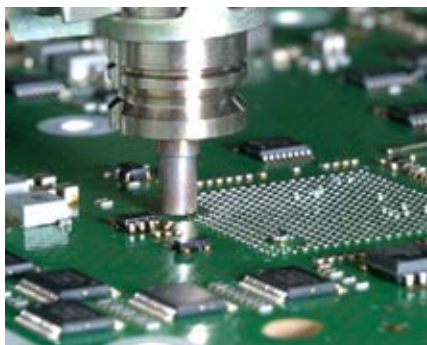
Four different heating heads are available for the largest Kurtz Ersa rework system, which can process components with an edge length of up to 160 x 160 mm. The "Click to Place" feature integrated into the software, together with a high-resolution camera, ensures fast and error-free component placement.



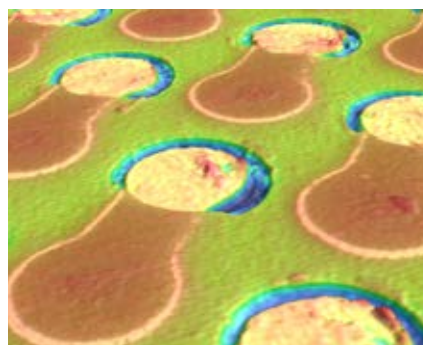
Large-format BGA under the XXL heating head



Placement result of a BGA 7400, edge length 134 x 134 mm, with overlay of X-ray inspection result



Removal of residual solder



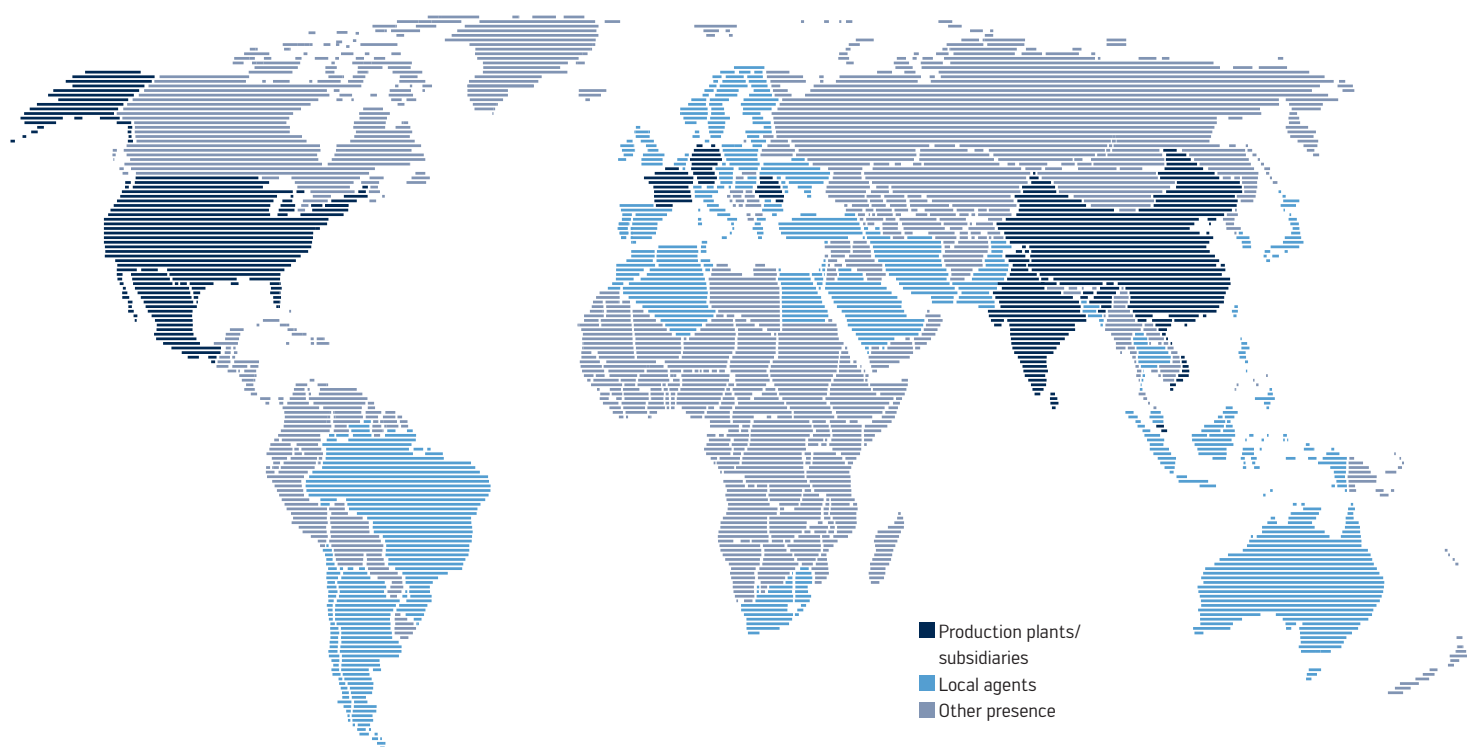
Cleaned pads with less than 20 µm of residue (3D image)

### Automatic residual solder removal

The integrated AUTO SCAVENGER removes residual solder remaining on the circuit board after desoldering in a non-contact and gentle automated process. For optimal suction results, the parameters can be individually adjusted to the application.

# ELECTRONICS PRODUCTION EQUIPMENT

## Worldwide Presence



### USA

Kurtz Ersas, Inc.  
Plymouth, WI  
[usa@kurtzersa.com](mailto:usa@kurtzersa.com)

Kurtz Ersas, Inc. (TX)  
Irving  
[usa@kurtzersa.com](mailto:usa@kurtzersa.com)

### Mexico

Kurtz Ersas, S.A. de C.V.  
Guadalajara  
[info-kmx@kurtzersa.com](mailto:info-kmx@kurtzersa.com)

Kurtz Ersas Manufacturing México, S.A.  
de C.V.  
Ciudad Juárez  
[info-kemm@kurtzersa.com](mailto:info-kemm@kurtzersa.com)

### Hong Kong

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Hong Kong  
[asia@kurtzersa.com](mailto:asia@kurtzersa.com)

### China

Kurtz Shanghai Ltd.  
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[info-ksl@kurtzersa.com](mailto:info-ksl@kurtzersa.com)

Kurtz Zhuhai Manufacturing Ltd.  
Zhuhai  
[info-kzm@kurtzersa.com](mailto:info-kzm@kurtzersa.com)

### Vietnam

Kurtz Ersas Vietnam Company Limited  
Hanoi (Bac Ninh City)  
[info-kev@kurtzersa.com](mailto:info-kev@kurtzersa.com)

### Singapore

Kurtz Ersas Singapore (Pte. Ltd.)  
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[info.kes@kurtzersa.com](mailto:info.kes@kurtzersa.com)

### India

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Smart Production Technologies Private  
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### Romania

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