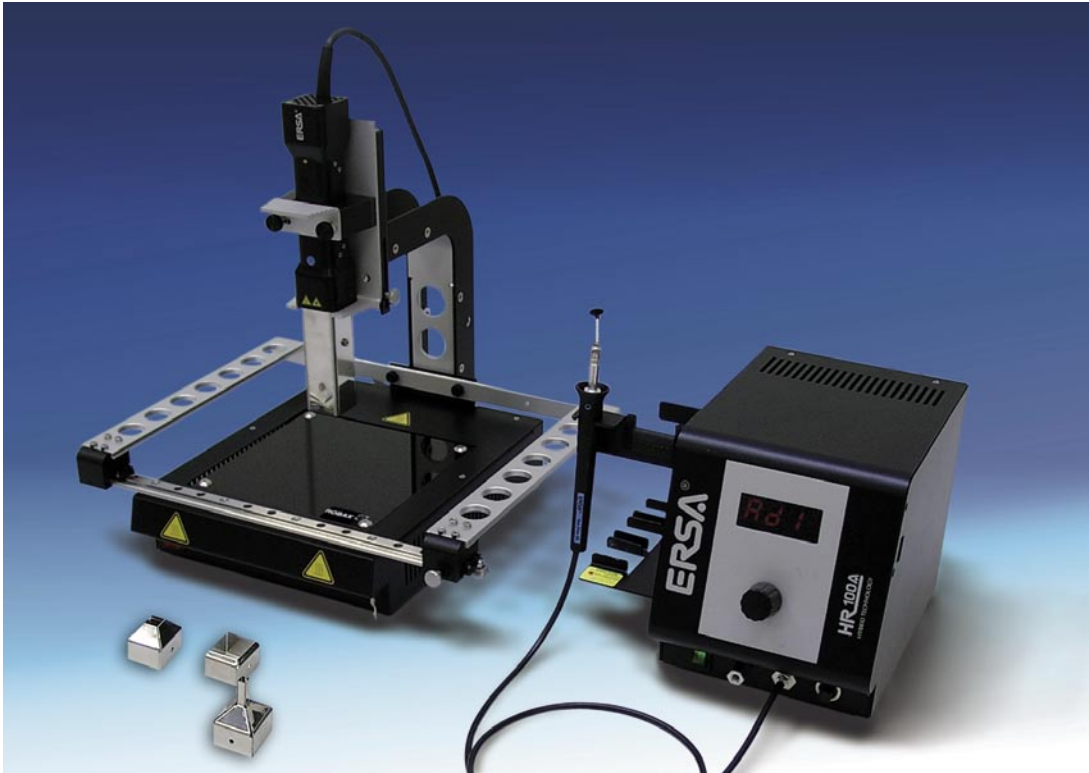


## Hybrid Rework System HR 100 A



### Revolutionary Hybrid Rework Technology – Added Value at you finger tips!

#### Safe IR & Hot Air Combined – The Hybrid Rework Revolution Getting the Best of Both Worlds!

The new HR 100A uses ERSA's revolutionary Hybrid Rework Technology (patent pending) for the safest removal and replacement of small SMDs in a lead free environment! Safe, medium wave IR- radiation combined with a gentle hot air stream guarantees optimal energy transfer to the component. The Hybrid Tool delivers smooth and homogeneous heat to lead free components sizing from 0201s to 20 x 20 mm SMDs.

Exchangeable Hybrid Adaptors focus 200 W of hybrid heating power onto the component while protecting neighbouring areas from heat damage. The user friendly operation allows for even non experienced operators to handle the HR 100 A safely and quickly. Advanced operators using the HR/IRHP 100A complete system can not only set air volume and heating power, but they can also run & record profiles!

The ergonomically designed Hybrid Tool handle contains a positioning laser which helps the operator to focus the heat precisely throughout the entire process. With the ERSA VacPen attached to the basic unit, safe component handling is ensured.

Via the Mini-USB port, the HR 100A can be connected to ERSA's top of the line and well

established rework software, ERSA IRSofT. IRSofT provides multiple functions to operate the system, set and store process parameters and document all soldering or desoldering results.

The HR 100 A has been designed to be used with the IRHP 100A, an 800 W IR-heating plate. This complete set provides powerful & safe IR bottom side heating as well as a Z-axis tool stand for the Hybrid Tool and an x-y PCB board holder. The K-type thermocouple included monitors PCB temperature and even allows for a closed loop soldering processes with ramp profiles. The HR/IRHP 100A set fulfils all needs of a modern Rework System: **provides highest flexibility at the lowest cost!**

#### Advantages of Hybrid Technology:

- Low cost & easy to use
- Hybrid technology combines safe IR-radiation and convection
- Uniform heating with minimal air movement and turbulence
- No chip blowing; low noise rework blower (below 40db)
- Designed for beginners & advanced operators
- Widest range of components with only three Hybrid Adaptors
- Powerful 800 W Safe IR-heating plate for pre-heating of thick substrates (IRHP100A)

#### ERSA Product Range

##### Soldering Tools

Soldering / Desoldering  
• i-CON series

##### BGA/SMT Rework

IR Rework Center  
• IR/PL 550 A  
• IR/PL 650 A  
Hybrid Tool HR 100 A

##### Inspection Systems

• ERSASCOPE plus  
• ImageDoc Software

##### Soldering Systems

Wave soldering  
• ETS series  
• EWS series  
• N-Wave series  
• POWERFLOW series

Reflow soldering  
• HOTFLOW 2 series

Selective soldering  
• VERSAFLOW series

Process Software  
• EPOS  
• CAD Assistant

##### Paste Printing

• VERSAPRINT series

##### Accessories

• Solder bar & wire  
• Solder paste  
• Flux

##### Other Services

• Know-how seminars  
• In-House training  
• Test soldering  
• Installation and maintenance assistance  
• Process support

## Hybrid Rework System HR 100 A

### Hybrid rework system HR 100A, basis station

Mains voltage	220-240 VAC / 110-120 VAC
Mains frequency	50-60 Hz / 50-60 Hz
Fuse (slow-blow)	2 A / 4 A
Secondary voltage	13 VAC
Maximum heating power	200 W
Safety class	I
Permissible ambient temperature	0 – 40 °C
Temperature range at air outlet	30 – 550 °C
Function display	LED-Display
PC-interface	Mini USB
Vacuum pressure	-0,2 to -0,4 bar
Dimensions	211 x 220 x 168 mm
Weight	4,5 kg
Supply line 2m, PVC, with connector	
Single-knob control via incremental encoder	

### Hybrid Tool

Length of supply line	1,35 m
Weight	300 g
Laser	Class II

### Heating plate IRHP100A

Mains voltage	220-240 VAC / 110-120 VAC
Mains frequency	50-60 Hz / 50-60 Hz
Fuse (slow-blow)	4 A / 8 A
Maximum heating power	800 W
Safety class	I
Dimensions	
Basis station	211 x 220 x 188 mm
Heating plate	200 x 260 x 53,5 mm
Height of tool attachment	214,5 mm
Circuit board holder	330 x 250 mm
Weight	2,5 kg
Supply line 2m, PVC, with connector, Control line with RCA(Cinch)-connector.	

### Valid for all electrical devices

Antistatic surface, suited for the application in ESD areas, EMV-tested.

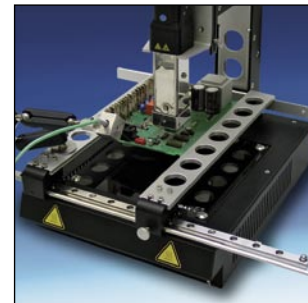
Conformity



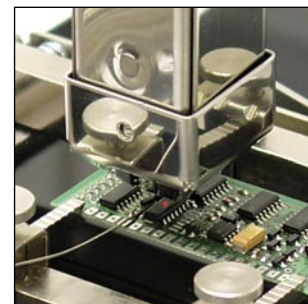
ERSA Hybrid Tool

### Technical Highlights:

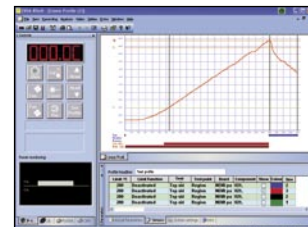
- Hybrid Tool with 200 W combined Infrared and convection heating element
- Three exchangeable Hybrid Adaptors (6 x 6 mm, 10 x 10 mm & 20 x 20 mm)
- Positioning laser in the Hybrid Tool handle
- HR 100A station controls Hybrid Tool with integrated vacuum pump and VacPen, tool holder and K-Typ TC input socket, Mini USB interface, 7-segment LED- display, single knob "Turn & Push" control and connection socket for optional heating plate
- K-type thermocouple AccuTC and Flexpoint TC-holder (optional)
- ERSAs IReSoft Rework Control- and Documentation software (optional)
- 800 W IR-heating plate with glass cover, 125 x 125 mm high performance heating element, Z-axis adjustable tool holder and x-y PCB board holder to precisely fix PCBs up to 290 x 250 mm (IRHP100A)



Hybrid Tool with closed loop preheat



Temperature controlled SMD soldering



IReSoft profiling and recording software

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**Kurtz** ELECTRONICS



### Ordering information:

#### Hybrid Rework System HR 100 A

with 200 W Hybrid Tool, three Hybrid Adaptors, Adaptor changer, VacPen and tool holder

#### 01RHR100A

(230 V system)

#### 11RHR100A0A67

(115 V system)

#### Hybrid Rework System HR 100 A

with 200 W Hybrid Tool, three Hybrid Adaptors, Adaptor changer, VacPen and tool holder **plus**

#### Heating Plate for HR 100 A

800 W IR-heating complete with tool holder for Hybrid Tool and PCB cardboard holder, Flexpoint TC-holder with AccuTC thermocouple, USB – connection cable and CDrom containing software IReSoft and drivers

#### 01RHR100A-HP

(230 V system)

#### 11RHR100AHPA67

(115 V system)

