



**H K Wentworth Group**  
Distributed and Supported in the  
UK, IE, AU & NZ

# FR301

## Desoldering Tool



hakko.com - [hakko.co.uk](http://hakko.co.uk) - [hakko.com.au](http://hakko.com.au)

### Packing List:



FR-301 Desoldering Tool with N61-08 Nozzle  
+ Instruction manual



Carry Case



Ceramic paper filter (2 pcs.) (A5044)



Pre-Filter (B5104)



Iron Holder (B5003)



Nozzle Wrench



Cleaning Pin for Heating Core (B1085)



Cleaning Pin for Nozzle  $\Phi$ 1mm (B1087)



### Specifications:

FR-301 DeSoldering Gun

Power consumption	220V 110W (50/60Hz) = FR301-20 EU 230V 110W (50/60Hz) = FR301-22 UK
Temperature range	350 to 500°C
Nozzle to ground resistance	<2 $\Omega$
Nozzle to ground potential	<2mV
Vacuum generator	Diaphragm pump
Vacuum pressure	81kPa (610mmHg)
Suction flow	11L/min.
Heating element	Ceramic heater
Standard nozzle	$\Phi$ 1mm (No.N61-08)
Dimensions	215(W) $\times$ 226(H) mm (with $\Phi$ 1 mm (No.N61-08) nozzle)
Weight	0.52kg (with $\Phi$ 1 mm (No.N61-08) nozzle)

\* Total length and weight (w/o cord)

FR301-22 (UK)

### Nozzles:

The FR-301 requires the quick change N61 Series desoldering nozzles which are available in a range of sizes. The FR-301 comes supplied with the N61-08 standard 1mm nozzle, other sizes are available to purchase separately.

#### N61 Series

**Standard Type**  
For Lead Patterns

Close fitting nozzle for  
mechanical desoldering  
resoldering.



**S Type**  
For Lead Patterns

Close fitting nozzle for  
lead and lead pattern  
resoldering.



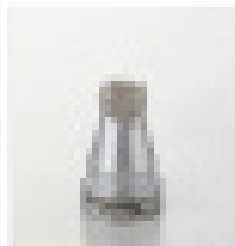
**SS Type**  
For Lead Patterns

Close fitting nozzle for  
lead and lead pattern  
resoldering.



**Chisel Type**  
For Lead Patterns

Close fitting nozzle for  
lead and lead pattern  
resoldering. Recommended  
for silver solder.

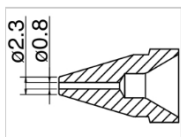


**Long Type**  
For Lead Patterns

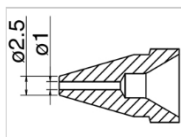
Close fitting nozzle for  
lead and lead pattern  
resoldering. Recommended  
for silver solder.



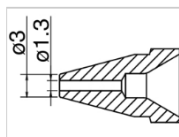
## Standard type



N61-07 Nozzle Standard type  
Size Φ0.8

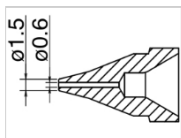


N61-08 Nozzle Standard type  
Size Φ1.0

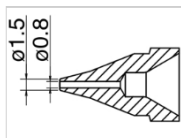


N61-09 Nozzle Standard type  
Size Φ1.3

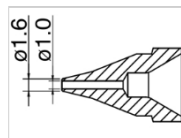
## SS Type



N61-01 Nozzle SS type  
Size Φ0.6

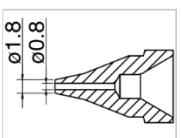


N61-02 Nozzle SS type  
Size Φ0.8

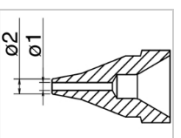


N61-03 Nozzle SS type  
Size Φ1.0

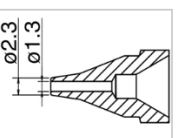
## S type



N61-04 Nozzle S type  
Size Φ0.8

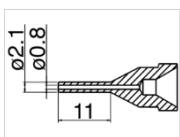


N61-05 Nozzle S type  
Size Φ1.0

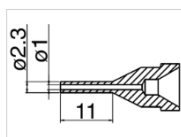


N61-06 Nozzle S type  
Size Φ1.3

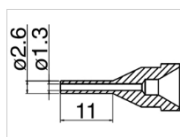
## Long Type



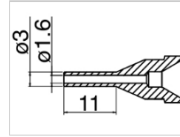
N61-11 Nozzle Long type  
Size Φ0.8



N61-12 Nozzle Long type  
Size Φ1.0

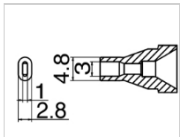


N61-13 Nozzle Long type  
Size Φ1.3

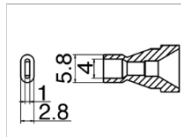


N61-14 Nozzle Long type  
Size Φ1.6

## Oval type



N61-15 Nozzle Oval type  
Size 3x1 mm



N61-16 Nozzle Oval type  
Size 4x1 mm

## Recommended Extras Desoldering:

Available to purchase separately



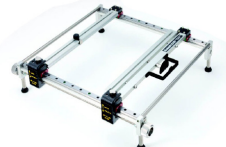
C5046  
Nozzle Quick Changer



C1390C  
Omniverse PCB Holder



FR830  
PCB Underboard Heater



C5027  
PCB Board Holder



C1100  
Iron Holder Stand with  
Cleaning Sponge



Nozzle Cleaning Pin  
B2874 Φ0.6mm  
B1086 Φ0.8mm  
B1087 Φ1.0mm  
B1088 Φ1.3mm  
B1089 Φ1.6mm  
B2875 Φ2mm / 2.3mm



Nozzle Cleaning Drills  
Drills and Drill bits in  
different sizes for Nozzle  
Cleaning



WICK  
Desolder Braid  
Available in different sizes



FT640 / FT641  
Tweezers



FS210  
Flux Pen